Полный текст отчета лаборатории космического мониторинга (МАСТЕР) в соответствии со стандартом ГОСТ будет представлен в ИСТИНе в соответствии со сроками, озвученными ученым секретарем института.

I) Деятельность, обеспечивающая выполнение Программы развития МГУ имени М.В.Ломоносова: выполнение научных исследований на телескопах-роботах Глобальной сети МАСТЕР МГУ.

II) Конференции 2020:
1) организована и проводится шестая Всероссийская конференция МГУ имени М.В.Ломоносова "Успехи российской астрофизики 2020: теория и эксперимент" http://master.sai.msu.ru/ru/ura2020/
2) на Успехах-2020 представлены 4 доклада сотрудников лаборатории.
3) организована и проведена 5 июня 2020г. пресс-конференция "*Локализации источника космических нейтрино сверхвысокой энергии"* http://master.sai.msu.ru/ru/osa/archive/2020/06/05/
4) проведены семинары ОСА http://master.sai.msu.ru/ru/osa/
5) проведены 48 еженедельных семинаров "МАСТЕРская" лаборатории космического мониторинга
6) Результаты работы были представлены на международной конференции " Fourth Zeldovich meeting" http://www.icranet.org/zeldovich4
7) Сотрудники лаборатории участвовали в проведении межрегиональной школьной астрономической конференции "Сокровища небес"

III) Международная коллаборация в 2020
1. Международная коллаборация Глобальной сети МАСТЕР МГУ и гравитационно-волновой эксперимент LIGO/Virgo (США,Италия)
2. Международная коллаборация Глобальной сети МАСТЕР МГУ и нейтринная обсерватория IceCube (США, Германия)
3. Международная коллаборация Глобальной сети МАСТЕР МГУ и нейтринной обсерватории ANTARES (Франция)
4. Международная коллаборация Глобальной сети МАСТЕР МГУ и Института астрофизии Канарских островов IAC (Испания)
5. Международная коллаборация Глобальной сети МАСТЕР МГУ и Национального университета Сан-Хуан (Аргентина)
6. Международная коллаборация Глобальной сети МАСТЕР МГУ и южноафриканской астрономической обсерватории SAAO (ЮАР)
7. Международная коллаборация Глобальной сети МАСТЕР МГУ и университетом Цинхуа (Китай)
8. Международная коллаборация Глобальной сети МАСТЕР МГУ индийским институтом астрофизики (IIAP)

IV) по результатам научной работы в лаборатории два дипломника защитились в мае,июне 2020
V) июль-август: организована и проведена летняя практика у студентов 2,3,4,5,6 курсов астрономического отделения ФФ МГУ
VI) осень 2020: в рамках астрофизического практикума 4 курса организованы и проведены лабораторные работы со студентами АО ФФ МГУ.

VII) Научный отчет лаборатории космического мониторинга (МАСТЕР) в виде наших публикации за 2020 год.

Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-12-10 // Transient Name Server Discovery Report, 2020, V. 2020-3736, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-12-08 // Transient Name Server Discovery Report, 2020, V. 2020-3705, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-12-08 // Transient Name Server Discovery Report, 2020, V. 2020-3704, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-12-03 // Transient Name Server Discovery Report, 2020, V. 2020-3646, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 201209.43: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 29022, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the IceCube Alert 201209.43 (trigger No 8912764,00h 25m 36.24s , -10d 01m 04.8s, R=0.59) errorbox 39512 sec after notice time and 52475 sec after trigger time at 2020-12-10 00:50:19 UT, with upper limit up to 18.8 mag. Observations started at twilight. The observations began at zenith distance = 25 deg. The sun altitude is -15.1 deg. The galactic latitude b = -72 deg., longitude l = 104 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1499288 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 52505 | 2020-12-10 00:50:19 | MASTER-OAFA | (00h 27m 05.58s , -10d 47m 41.9s) | C | 60 | 17.7 | 52585 | 2020-12-10 00:51:38 | MASTER-OAFA | (00h 26m 49.69s , -08d 47m 16.1s) | C | 60 | 18.2 | 52864 | 2020-12-10 00:56:17 | MASTER-OAFA | (00h 26m 59.38s , -10d 49m 18.5s) | C | 60 | 18.5 | 52943 | 2020-12-10 00:57:37 | MASTER-OAFA | (00h 35m 14.46s , -10d 49m 09.4s) | C | 60 | 18.8 | 53023 | 2020-12-10 00:58:57 | MASTER-OAFA | (00h 26m 53.61s , -08d 47m 24.0s) | C | 60 | 18.7 | 53297 | 2020-12-10 01:03:30 | MASTER-OAFA | (00h 35m 05.27s , -09d 23m 20.0s) | C | 60 | 18.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB201209.24: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 29004, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the Swift GRB201209.24 (trigger No 1011980,01h 32m 25.44s , -01d 45m 46.8s, R=0.05) errorbox 29 sec after notice time and 51 sec after trigger time at 2020-12-09 05:45:44 UT, with upper limit up to 16.8 mag. The observations began at zenith distance = 75 deg. The sun altitude is -33.0 deg. The galactic latitude b = -62 deg., longitude l = 147 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1499038 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 57 | MASTER-OAFA | C | 10 | 16.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201208A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28999, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 201208A (Fermi GBM team, GCN 28998) errorbox 129 sec after notice time and 199 sec after trigger time at 2020-12-08 06:06:42 UT, with upper limit up to 18.3 mag. The observations began at zenith distance = 47 deg. The sun altitude is -31.2 deg. The galactic latitude b = 24 deg., longitude l = 269 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1497931 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 2020-12-08 06:06:42 | MASTER-OAFA | (10h 22m 26.04s , -30d 34m 40.3s) | C | 60 | 18.3 | 308 | 2020-12-08 06:08:01 | MASTER-OAFA | (10h 35m 33.22s , -32d 34m 16.4s) | C | 60 | 18.3 | 388 | 2020-12-08 06:09:21 | MASTER-OAFA | (10h 16m 42.48s , -32d 36m 29.2s) | C | 60 | 18.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201207A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28997, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 201207A (Fermi GBM team, GCN 28996) errorbox 3980 sec after notice time and 4062 sec after trigger time at 2020-12-08 00:34:37 UT, with upper limit up to 16.0 mag. Observations started at twilight. The observations began at zenith distance = 76 deg. The sun altitude is -12.7 deg. The galactic latitude b = -8 deg., longitude l = 266 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1497702 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 4092 | 2020-12-08 00:34:37 | MASTER-OAFA | (08h 10m 40.49s , -49d 15m 18.0s) | C | 60 | 16.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 201203A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28991, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB 201203A (S. Dichiara et al., GCN 28985) errorbox 41763 sec after notice time and 41845 sec after trigger time at 2020-12-03 18:29:52 UT, with upper limit up to 17.6 mag. The observations began at zenith distance = 72 deg. The sun altitude is -46.7 deg. The galactic latitude b = -67 deg., longitude l = 217 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1494824 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 41936 | MASTER-Tavrida | C | 180 | 17.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201201A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28975, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 201201A (Fermi GBM team, GCN 28972) errorbox 44316 sec after notice time and 44327 sec after trigger time at 2020-12-01 15:11:02 UT, with upper limit up to 17.1 mag. Observations started at twilight. The observations began at zenith distance = 30 deg. The sun altitude is -11.4 deg. The galactic latitude b = -11 deg., longitude l = 64 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1493496 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 44358 | 2020-12-01 15:11:02 | MASTER-Tavrida | (20h 35m 25.58s , +21d 59m 09.7s) | C | 60 | 17.1 | 44644 | 2020-12-01 15:15:49 | MASTER-Tavrida | (20h 35m 59.02s , +20d 00m 37.3s) | C | 60 | 15.7 | 44725 | 2020-12-01 15:17:09 | MASTER-Tavrida | (20h 35m 18.93s , +21d 59m 49.8s) | C | 60 | 16.0 | 44805 | 2020-12-01 15:18:30 | MASTER-Tavrida | (20h 43m 56.87s , +22d 00m 54.7s) | C | 60 | 16.1 | 44900 | 2020-12-01 15:20:05 | MASTER-Tavrida | (20h 22m 03.16s , +21d 55m 31.5s) | C | 60 | 15.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-11-29 // Transient Name Server Discovery Report, 2020, V. 2020-3600, p. 1

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Pogrosheva, T., Lipunov, . 0 ., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-29 // Transient Name Server Discovery Report, 2020, V. 2020-3599, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-29 // Transient Name Server Discovery Report, 2020, V. 2020-3598, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-11-28 // Transient Name Server Discovery Report, 2020, V. 2020-3591, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-28 // Transient Name Server Discovery Report, 2020, V. 2020-3590, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-25 // Transient Name Server Discovery Report, 2020, V. 2020-3563, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-25 // Transient Name Server Discovery Report, 2020, V. 2020-3562, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-25 // Transient Name Server Discovery Report, 2020, V. 2020-3561, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-14 // Transient Name Server Discovery Report, 2020, V. 2020-3441, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-13 // Transient Name Server Discovery Report, 2020, V. 2020-3433, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-11 // Transient Name Server Discovery Report, 2020, V. 2020-3419, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-10 // Transient Name Server Discovery Report, 2020, V. 2020-3406, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-08 // Transient Name Server Discovery Report, 2020, V. 2020-3386, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-08 // Transient Name Server Discovery Report, 2020, V. 2020-3385, p. 1

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Gress, O., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-05 // Transient Name Server Discovery Report, 2020, V. 2020-3355, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-04 // Transient Name Server Discovery Report, 2020, V. 2020-3347, p. 1

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Shumkov, V., Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., et al. MASTER Transient Discovery Report for 2020-11-04 // Transient Name Server Discovery Report, 2020, V. 2020-3346, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-11-02 // Transient Name Server Discovery Report, 2020, V. 2020-3329, p. 1

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Vlasenko, D., Tiurina, N., Gress, O., Gorbunov, I., Balanutsa, P., Pozdnyakov, A., et al. MASTER Follow-up Observations of LIGO GW170104 Event // Research Notes of the American Astronomical Society, 2020, V. 4, p. 211
We present the results of MASTER Global Robotic Net optical observations of the LIGO GW170104 error-box during the LIGO/Virgo O2 run. We observed 3421 square degrees inside 3σ error-field. Dozens of optical transients unrelated to gravitational waves were discovered as the result of MASTER observation strategy, that we presented, including short very bright MASTER optical transients J133017.28+780951.8.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Vlasenko, D., Tiurina, N., Gress, O. A., Gorbunov, I., Balanutsa, P., Pozdnyakov, A., et al. Optical Transients Detected by MASTER during LIGO/VIRGO O2 Set Event // Research Notes of the American Astronomical Society, 2020, V. 4, p. 210
We present MASTER observations from inspecting the large error-box associated with LIGO/Virgo G270590, and our observational strategy. MASTER observed 6292 square degrees inside the 3σ error box. We present new optical sources detected during this inspection.

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Lipunov, V., Kornilov, V., Vlasenko, D., Tiurina, N., Gorbovskoy, E., Gress, O. A., Gorbunov, I., Balanutsa, P., Cheryasov, D., et al. Optical Transients Found by MASTER during the Observation of LIGO/VIRGO S200219ac Gravitational-wave Event // Research Notes of the American Astronomical Society, 2020, V. 4, p. 194
We present the results of MASTER Global Robotic Net optical observations of the region within the LIGO/Virgo S200219ac error-box, triggered during the O3 run. We observed 1124 square degrees inside the 3σ error box during a half month. We present the identified optical transients found during this study, which are not related to gravitational waves, and briefly discuss the MASTER observation strategy.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 201130.85: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28968, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) was pointed to the IceCube Alert 201130.85 (trigger No 31476488,02h 01m 58.80s , -11d 36m 50.4s, R=0.71) errorbox 38 sec after notice time and 82 sec after trigger time at 2020-11-30 20:23:09 UT, with upper limit up to 17.2 mag. The observations began at zenith distance = 49 deg. The sun altitude is -29.5 deg.

MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) was pointed to the IceCube Alert 201130.85 errorbox 57 sec after notice time and 101 sec after trigger time at 2020-11-30 20:23:27 UT, with upper limit up to 17.8 mag. The observations began at zenith distance = 21 deg. The sun altitude is -28.6 deg.

The galactic latitude b = -67 deg., longitude l = 174 deg.

Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1493295

We obtain a following upper limits.

Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment

93 | 2020-11-30 20:23:09 | MASTER-IAC | (02h 01m 03.53s

, -11d 41m 42.3s) | C | 20 | 15.9 |

118 | 2020-11-30 20:23:09 | MASTER-IAC | (02h 01m 03.53s

, -11d 41m 42.3s) | C | 70 | 16.7 | Coadd

111 | 2020-11-30 20:23:27 | MASTER-SAAO | (02h 00m 40.65s

, -11d 40m 55.8s) | P/ | 20 | 16.1 |

111 | 2020-11-30 20:23:27 | MASTER-SAAO | (01h 59m 49.05s

, -11d 41m 44.3s) | P\ | 20 | 17.2 |

132 | 2020-11-30 20:23:48 | MASTER-IAC | (02h 00m 56.87s

, -11d 42m 43.8s) | C | 20 | 16.0 |

156 | 2020-11-30 20:24:07 | MASTER-SAAO | (02h 00m 34.15s

, -11d 41m 30.6s) | P/ | 30 | 16.4 |

156 | 2020-11-30 20:24:07 | MASTER-SAAO | (01h 59m 42.53s

, -11d 42m 19.3s) | P\ | 30 | 17.7 |

176 | 2020-11-30 20:24:27 | MASTER-IAC | (02h 01m 02.80s

, -11d 42m 35.9s) | C | 30 | 16.4 |

211 | 2020-11-30 20:24:57 | MASTER-SAAO | (02h 00m 34.44s

, -11d 40m 30.0s) | P/ | 40 | 16.6 |

211 | 2020-11-30 20:24:57 | MASTER-SAAO | (01h 59m 42.85s

, -11d 41m 18.6s) | P\ | 40 | 17.8 |

231 | 2020-11-30 20:25:17 | MASTER-IAC | (02h 00m 59.89s

, -11d 40m 47.7s) | C | 40 | 16.4 |

291 | 2020-11-30 20:25:17 | MASTER-IAC | (02h 00m 59.88s

, -11d 40m 47.7s) | C | 160 | 17.2 | Coadd

275 | 2020-11-30 20:25:56 | MASTER-SAAO | (02h 00m 41.18s

, -11d 41m 29.0s) | P/ | 50 | 16.7 |

275 | 2020-11-30 20:25:56 | MASTER-SAAO | (01h 59m 49.59s

, -11d 42m 17.8s) | P\ | 50 | 17.7 |

295 | 2020-11-30 20:26:16 | MASTER-IAC | (02h 00m 59.92s

, -11d 42m 37.5s) | C | 50 | 16.5 |

350 | 2020-11-30 20:27:06 | MASTER-SAAO | (02h 00m 35.36s

, -11d 42m 28.8s) | P/ | 60 | 16.9 |

350 | 2020-11-30 20:27:06 | MASTER-SAAO | (01h 59m 43.80s

, -11d 43m 17.5s) | P\ | 60 | 17.8 |

375 | 2020-11-30 20:27:26 | MASTER-IAC | (02h 01m 03.90s

, -11d 40m 52.2s) | C | 70 | 16.7 |

469 | 2020-11-30 20:28:55 | MASTER-IAC | (02h 00m 57.69s

, -11d 41m 51.7s) | C | 80 | 16.7 |

578 | 2020-11-30 20:30:34 | MASTER-IAC | (02h 00m 57.12s

, -11d 40m 52.6s) | C | 100 | 16.8 |

713 | 2020-11-30 20:32:34 | MASTER-IAC | (02h 01m 02.57s

, -11d 41m 53.8s) | C | 130 | 17.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201130A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28966, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 201130A (Fermi GBM team, GCN 28965) errorbox 197 sec after notice time and 205 sec after trigger time at 2020-11-30 05:34:15 UT, with upper limit up to 17.5 mag. The observations began at zenith distance = 15 deg. The sun altitude is -26.4 deg. The galactic latitude b = 67 deg., longitude l = 201 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1492996 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 236 | 2020-11-30 05:34:15 | MASTER-IAC | (10h 16m 57.83s , +32d 07m 21.5s) | C | 60 | 17.4 | 315 | 2020-11-30 05:35:34 | MASTER-IAC | (10h 31m 08.69s , +34d 06m 38.7s) | C | 60 | 17.5 | 395 | 2020-11-30 05:36:54 | MASTER-IAC | (10h 35m 48.60s , +32d 06m 44.9s) | C | 60 | 17.4 | 475 | 2020-11-30 05:38:14 | MASTER-IAC | (10h 26m 55.79s , +36d 07m 37.0s) | C | 60 | 17.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 201128.90: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28964, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Baksan Neutrino Observatory Alert 201128.90 (trigger No 1657315919,18h 38m 24.00s , -23d 30m 00.0s, R=3) errorbox 1 days 9317 sec after notice time and 1 days 10378 sec after trigger time at 2020-11-30 00:24:57 UT, with upper limit up to 15.7 mag. Observations started at twilight. The observations began at zenith distance = 73 deg. The sun altitude is -12.3 deg. The galactic latitude b = -8 deg., longitude l = 11 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1492178 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 96809 | 2020-11-30 00:24:57 | MASTER-OAFA | (18h 52m 41.93s , -23d 20m 46.5s) | C | 60 | 15.3 | 97127 | 2020-11-30 00:30:15 | MASTER-OAFA | (18h 52m 36.40s , -23d 18m 57.9s) | C | 60 | 15.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 628278856: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28961, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB201128.75 (trigger No 628278856,22h 30m 33.60s , -57d 13m 48.0s, R=10.1) errorbox 7318 sec after notice time and 7348 sec after trigger time at 2020-11-28 19:56:39 UT, with upper limit up to 17.4 mag. The observations began at zenith distance = 79 deg. The sun altitude is -23.8

deg. The galactic latitude b = -51 deg., longitude l = 333 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1492096 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 7438 | 2020-11-28 19:56:39 | MASTER-IAC | (22h 39m 06.10s , -50d 07m 37.6s) | C | 180 | 17.1 | 7638 | 2020-11-28 19:59:59 | MASTER-IAC | (22h 39m 11.90s , -50d 07m 33.0s) | C | 180 | 17.4 | 7837 | 2020-11-28 20:03:18 | MASTER-IAC | (22h 31m 08.10s , -50d 06m 18.0s) | C | 180 | 17.2 | 8037 | 2020-11-28 20:06:38 | MASTER-IAC | (22h 31m 08.11s , -50d 07m 28.0s) | C | 180 | 17.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 628140709: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28956, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB201127.15 (trigger No 628140709,09h 34m 43.20s , +42d 43m 48.0s, R=6.58) errorbox 7931 sec after notice time and 11608 sec after trigger time at 2020-11-27 06:45:13 UT, with upper limit up to 17.6 mag. The observations began at zenith distance = 78 deg. The sun altitude is -27.6 deg. The galactic latitude b = 48 deg., longitude l = 178 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1491060 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 11638 | 2020-11-27 06:45:13 | MASTER-OAFA | (08h 56m 08.87s , +39d 23m 47.5s) | C | 60 | 17.3 | 11718 | 2020-11-27 06:46:32 | MASTER-OAFA | (09h 27m 00.62s , +35d 23m 33.3s) | C | 60 | 17.6 | 11798 | 2020-11-27 06:47:52 | MASTER-OAFA | (09h 01m 26.65s , +37d 23m 13.6s) | C | 60 | 17.5 | 12116 | 2020-11-27 06:53:10 | MASTER-OAFA | (09h 21m 46.82s , +37d 23m 29.4s) | C | 60 | 17.4 | 12354 | 2020-11-27 06:57:08 | MASTER-OAFA | (08h 51m 10.44s , +41d 22m 57.7s) | C | 60 | 17.5 | 12911 | 2020-11-27 07:06:25 | MASTER-OAFA | (09h 17m 03.67s , +39d 24m 22.1s) | C | 60 | 17.4 | 12990 | 2020-11-27 07:07:45 | MASTER-OAFA | (09h 46m 48.54s , +35d 24m 04.3s) | C | 60 | 17.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 201124.34: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28951, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the IceCube Alert 201124.34 (trigger No 68186,08h 59m 57.60s , +07d 44m 24.0s, R=0.5) errorbox 31682 sec after notice time and 54964 sec after trigger time at 2020-11-24 23:30:51 UT, with upper limit up to 15.8 mag. The observations began at zenith distance = 52 deg. The sun altitude is -55.8 deg. The galactic latitude b = 33 deg., longitude l = 222 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1489345 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 55055 | 2020-11-24 23:30:51 | MASTER-Tavrida | (08h 56m 03.56s , +07d 58m 48.8s) | C | 180 | 15.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 627645769: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28941, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB201121.42 (trigger No 627645769,19h 42m 48.00s , +03d 44m 24.0s, R=18.44) errorbox 1 days 18330 sec after notice time and 1 days 18357 sec after trigger time at 2020-11-22 15:08:41 UT, with upper limit up to 16.4 mag. Observations started at twilight. The observations began at zenith distance = 50 deg. The sun altitude is -10.4 deg. The galactic latitude b = -10 deg., longitude l = 43 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1486821 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 104787 | 2020-11-22 15:08:41 | MASTER-Tavrida | (19h 11m 20.76s , +04d 56m 42.3s) | C | 60 | 16.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201121A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28938, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 201121A (Fermi GBM team, GCN 28935) errorbox 663 sec after notice time and 719 sec after trigger time at 2020-11-21 01:41:48 UT, with upper limit up to 16.9 mag. The observations began at zenith distance = 84 deg. The sun altitude is -19.8 deg. The galactic latitude b = 32 deg., longitude l = 322 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1486547 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 790 | 2020-11-21 01:41:48 | MASTER-SAAO | (13h 47m 06.60s , -27d 51m 18.4s) | C | 140 | 16.9 | 964 | 2020-11-21 01:44:28 | MASTER-SAAO | (13h 47m 11.79s , -27d 51m 18.3s) | C | 170 | 16.9 | 1159 | 2020-11-21 01:47:37 | MASTER-SAAO | (13h 47m 06.55s , -27d 49m 47.6s) | C | 180 | 16.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201120B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28934, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 201120B (Fermi GBM team, GCN 28933) errorbox 2525 sec after notice time and 36327 sec after trigger time at 2020-11-20 20:41:16 UT, with upper limit up to 21.0 mag. The observations began at zenith distance = 24 deg. The sun altitude is -32.5 deg. The galactic latitude b = -36 deg., longitude l = 266 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1486357 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 36417 | 2020-11-20 20:41:16 | MASTER-SAAO | (03h 29m 13.76s , -50d 03m 39.9s) | C | 180 | 20.6 | 36417 | 2020-11-20 20:41:16 | MASTER-SAAO | (03h 27m 55.01s , -50d 04m 02.4s) | C | 180 | 21.0 | 37016 | 2020-11-20 20:51:15 | MASTER-SAAO | (03h 29m 17.44s , -50d 03m 25.9s) | C | 180 | 20.6 | 37016 | 2020-11-20 20:51:15 | MASTER-SAAO | (03h 27m 58.46s , -50d 03m 48.2s) | C | 180 | 20.9 | 40569 | 2020-11-20 21:50:28 | MASTER-SAAO | (03h 44m 24.56s , -48d 02m 26.7s) | C | 180 | 20.3 | 40569 | 2020-11-20 21:50:28 | MASTER-SAAO | (03h 43m 08.88s , -48d 02m 57.6s) | C | 180 | 20.5 | 40769 | 2020-11-20 21:53:48 | MASTER-SAAO | (04h 21m 31.88s , -46d 01m 43.8s) | C | 180 | 20.3 | 40769 | 2020-11-20 21:53:48 | MASTER-SAAO | (04h 20m 18.73s , -46d 02m 16.7s) | C | 180 | 20.5 | 41169 | 2020-11-20 22:00:28 | MASTER-SAAO | (03h 44m 25.03s , -48d 03m 15.9s) | C | 180 | 19.6 | 41169 | 2020-11-20 22:00:28 | MASTER-SAAO | (03h 43m 09.41s , -48d 03m 48.5s) | C | 180 | 19.8 | 41370 | 2020-11-20 22:03:48 | MASTER-SAAO | (04h 21m 32.38s , -46d 02m 51.0s) | C | 180 | 17.0 | 41370 | 2020-11-20 22:03:48 | MASTER-SAAO | (04h 20m 19.31s , -46d 03m 24.6s) | C | 180 | 17.2 | 41770 | 2020-11-20 22:10:28 | MASTER-SAAO | (03h 58m 32.69s , -46d 02m 20.4s) | C | 180 | 16.9 | 41770 | 2020-11-20 22:10:28 | MASTER-SAAO | (03h 57m 19.68s , -46d 02m 54.0s) | C | 180 | 17.1 | 42449 | 2020-11-20 22:21:47 | MASTER-SAAO | (03h 58m 35.28s , -46d 03m 51.4s) | C | 180 | 17.5 | 42449 | 2020-11-20 22:21:47 | MASTER-SAAO | (03h 57m 22.36s , -46d 04m 24.3s) | C | 180 | 17.6 | 42648 | 2020-11-20 22:25:07 | MASTER-SAAO | (04h 12m 01.44s , -44d 01m 57.1s) | C | 180 | 17.8 | 42648 | 2020-11-20 22:25:07 | MASTER-SAAO | (04h 10m 50.90s , -44d 02m 30.9s) | C | 180 | 18.0 | 42848 | 2020-11-20 22:28:27 | MASTER-SAAO | (04h 19m 11.18s , -50d 02m 56.4s) | C | 180 | 17.2 | 42848 | 2020-11-20 22:28:27 | MASTER-SAAO | (04h 17m 52.33s , -50d 03m 28.6s) | C | 180 | 17.4 | 43048 | 2020-11-20 22:31:46 | MASTER-SAAO | (03h 50m 37.41s , -54d 02m 54.3s) | C | 180 | 17.7 | 43048 | 2020-11-20 22:31:46 | MASTER-SAAO | (03h 49m 11.48s , -54d 03m 25.0s) | C | 180 | 17.8 | 43248 | 2020-11-20 22:35:06 | MASTER-SAAO | (04h 11m 58.86s , -44d 02m 46.0s) | C | 180 | 18.5 | 43248 | 2020-11-20 22:35:06 | MASTER-SAAO | (04h 10m 48.31s , -44d 03m 19.0s) | C | 180 | 18.8 | 43388 | 2020-11-20 22:38:26 | MASTER-SAAO |

(04h 05m 35.65s , -54d 58m 07.2s) | C | 60 | 17.5 | 43388 | 2020-11-20 22:38:26 | MASTER-SAAO | (04h 04m 07.77s , -54d 58m 38.0s) | C | 60 | 17.6 | 43468 | 2020-11-20 22:39:46 | MASTER-SAAO | (04h 04m 13.81s , -54d 59m 41.8s) | V | 60 | 17.4 | 44367 | 2020-11-20 22:54:46 | MASTER-SAAO | (04h 03m 52.20s , -54d 58m 30.4s) | C | 60 | 17.4 | 44367 | 2020-11-20 22:54:46 | MASTER-SAAO | (04h 02m 24.79s , -54d 59m 01.0s) | C | 60 | 17.4 | 44447 | 2020-11-20 22:56:06 | MASTER-SAAO | (04h 03m 45.90s , -54d 59m 30.1s) | B | 60 | 17.1 | 44447 | 2020-11-20 22:56:06 | MASTER-SAAO | (04h 02m 18.03s , -54d 59m 57.1s) | V | 60 | 17.3 | 45785 | 2020-11-20 23:17:24 | MASTER-SAAO | (04h 30m 40.58s , -48d 03m 30.6s) | C | 180 | 15.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 627557935: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28930, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB201120.40 (trigger No 627557935,18h 30m 52.80s , +19d 28m 48.0s, R=15.6) errorbox 20622 sec after trigger time at 2020-11-20 15:22:32 UT, with upper limit up to 18.1 mag. Observations started at twilight. The observations began at zenith distance = 53 deg. The sun altitude is -12.6 deg. The galactic latitude b = 13 deg., longitude l = 49 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1486321 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 20652 | 2020-11-20 15:22:32 | MASTER-Tavrida | (17h 25m 54.87s , +25d 55m 53.1s) | C | 60 | 17.6 | 21174 | 2020-11-20 15:31:14 | MASTER-Tavrida | (17h 26m 19.17s , +23d 56m 17.6s) | C | 60 | 17.8 | 21254 | 2020-11-20 15:32:34 | MASTER-Tavrida | (17h 43m 48.96s , +23d 55m 38.5s) | C | 60 | 18.1 | 21335 | 2020-11-20 15:33:55 | MASTER-Tavrida | (17h 31m 09.41s , +19d 55m 31.8s) | C | 60 | 17.8 | 23037 | 2020-11-20 16:02:17 | MASTER-Tavrida | (17h 25m 39.88s , +25d 55m 48.0s) | C | 60 | 17.8 | 23439 | 2020-11-20 16:09:00 | MASTER-Tavrida | (17h 34m 33.73s , +25d 54m 09.2s) | C | 60 | 17.0 | 23680 | 2020-11-20 16:13:00 | MASTER-Tavrida | (17h 26m 12.23s , +23d 55m 51.7s) | C | 60 | 16.7 | 23761 | 2020-11-20 16:14:21 | MASTER-Tavrida | (17h 35m 04.55s , +23d 54m 47.7s) | C | 60 | 17.3 | 23841 | 2020-11-20 16:15:41 | MASTER-Tavrida | (17h 43m 43.48s , +23d 53m 43.8s) | C | 60 | 17.8 | 23922 | 2020-11-20 16:17:02 | MASTER-Tavrida | (17h 52m 33.84s , +23d 53m 46.7s) | C | 60 | 17.6 | 24083 | 2020-11-20 16:19:43 | MASTER-Tavrida | (17h 39m 39.73s , +19d 53m 43.6s) | C | 60 | 14.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 201120.43: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28929, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Baksan Neutrino Observatory Alert 201120.43 (trigger No 1656584036,06h 46m 24.00s , +38d 12m 00.0s, R=3) errorbox 24156 sec after notice time and 24526 sec after trigger time at 2020-11-20 17:02:43 UT, with upper limit up to 17.7 mag. The observations began at zenith distance = 76 deg. The sun altitude is -30.4 deg. The galactic latitude b = 16 deg., longitude l = 178 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1486120 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 24557 | 2020-11-20 17:02:43 | MASTER-Tavrida | (06h 36m 47.60s , +38d 08m 31.5s) | C | 60 | 17.3 | 24638 | 2020-11-20 17:04:03 | MASTER-Tavrida | (06h 27m 25.90s , +40d 08m 19.3s) | C | 60 | 17.7 | 24718 | 2020-11-20 17:05:24 | MASTER-Tavrida | (06h 46m 18.80s , +36d 07m 58.2s) | C | 60 | 16.7 | 24799 | 2020-11-20 17:06:44 | MASTER-Tavrida | (06h 48m 15.56s , +40d 08m 05.1s) | C | 60 | 17.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 201120.41: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28928, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the IceCube Alert 201120.41 (trigger No 65785778,20h 30m 07.20s , +40d 46m 12.0s, R=4.68) errorbox 19498 sec after notice time and 19579 sec after trigger time at 2020-11-20 15:11:00 UT, with upper limit up to 18.5 mag. Observations started at twilight. The observations began at zenith distance = 13 deg. The sun altitude is -10.6 deg. The galactic latitude b = 1 deg., longitude l = 80 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1486216 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 19610 | 2020-11-20 15:11:00 | MASTER-Tavrida | (20h 22m 42.13s , +40d 01m 17.8s) | C | 60 | 17.7 | 19751 | 2020-11-20 15:12:21 | MASTER-Tavrida | (20h 25m 37.91s , +40d 46m 26.2s) | C | 180 | 18.4 | 19980 | 2020-11-20 15:17:10 | MASTER-Tavrida | (20h 27m 22.43s , +39d 57m 54.4s) | C | 60 | 18.1 | 20061 | 2020-11-20 15:18:31 | MASTER-Tavrida | (20h 37m 52.77s , +39d 59m 21.3s) | C | 60 | 18.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 627438255: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28921, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB201119.02 (trigger No 627438255,07h 48m 50.40s , +32d 10m 48.0s, R=27.3) errorbox 6329 sec after notice time and 6382 sec after trigger time at 2020-11-19 02:10:32 UT, with upper limit up to 18.5 mag. The observations began at zenith distance = 35 deg. The sun altitude is -69.4 deg. The galactic latitude b = 26 deg., longitude l = 189 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1485204 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 6472 | 2020-11-19 02:10:32 | MASTER-IAC | (06h 57m 36.16s , +06d 41m 04.6s) | C | 180 | 18.3 | 6671 | 2020-11-19 02:13:51 | MASTER-IAC | (06h 57m 41.97s , +06d 40m 04.8s) | C | 180 | 18.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 201115.67: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28913, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the IceCube Alert 201115.67 (trigger No 49508272,09h 55m 00.48s , -21d 38m 31.2s, R=0.86) errorbox 1 days 26427 sec after notice time and 1 days 26477 sec after trigger time at 2020-11-16 23:23:00 UT, with upper limit up to 18.5 mag. The observations began at zenith distance = 73 deg. The sun altitude is -37.1 deg. The galactic latitude b = 25 deg., longitude l = 258 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1482755 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 112907 | 2020-11-16 23:23:00 | MASTER-SAAO | (09h 55m 24.85s , -19d 52m 40.6s) | C | 60 | 18.5 | 112907 | 2020-11-16 23:23:00 | MASTER-SAAO | (09h 56m 15.46s , -19d 51m 33.2s) | C | 60 | 18.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 627198169: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28912, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB201116.24 (trigger No 627198169,06h 23m 52.80s , +18d 39m 00.0s, R=11.1)

errorbox 62075 sec after notice time and 62104 sec after trigger time at 2020-11-16 22:57:48 UT, with upper limit up to 19.2 mag. The observations began at zenith distance = 65 deg. The sun altitude is -38.4 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB201116.24 errorbox 62274 sec after notice time and 62304 sec after trigger time at 2020-11-16 23:01:08 UT, with upper limit up to 17.9 mag. The observations began at zenith distance = 71 deg. The sun altitude is -64.0 deg. The galactic latitude b = 3 deg., longitude l = 194 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1483117 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 62135 | 2020-11-16 22:57:48 | MASTER-SAAO | (06h 35m 19.06s , +22d 07m 24.0s) | C | 60 | 18.9 | 62227 | 2020-11-16 22:59:21 | MASTER-SAAO | (06h 30m 03.09s , +20d 07m 46.4s) | C | 60 | 18.9 | 62227 | 2020-11-16 22:59:21 | MASTER-SAAO | (06h 30m 53.71s , +20d 08m 39.7s) | C | 60 | 18.6 | 62322 | 2020-11-16 23:00:55 | MASTER-SAAO | (06h 24m 41.12s , +24d 06m 56.6s) | C | 60 | 18.5 | 62322 | 2020-11-16 23:00:55 | MASTER-SAAO | (06h 23m 49.25s , +24d 06m 02.8s) | C | 60 | 18.8 | 62334 | 2020-11-16 23:01:08 | MASTER-IAC | (06h 54m 06.75s , +18d 00m 57.0s) | C | 60 | 17.0 | 62414 | 2020-11-16 23:02:28 | MASTER-IAC | (07h 11m 00.78s , +18d 02m 58.0s) | C | 60 | 16.9 | 62416 | 2020-11-16 23:02:30 | MASTER-SAAO | (06h 38m 47.94s , +16d 07m 10.2s) | C | 60 | 18.9 | 62416 | 2020-11-16 23:02:30 | MASTER-SAAO | (06h 37m 58.28s , +16d 06m 17.5s) | C | 60 | 19.2 | 62496 | 2020-11-16 23:03:50 | MASTER-IAC | (06h 26m 23.92s , +12d 01m 39.2s) | C | 60 | 16.7 | 62511 | 2020-11-16 23:04:05 | MASTER-SAAO | (06h 42m 12.45s , +24d 07m 52.6s) | C | 60 | 18.4 | 62511 | 2020-11-16 23:04:05 | MASTER-SAAO | (06h 41m 20.60s , +24d 06m 59.1s) | C | 60 | 18.6 | 62605 | 2020-11-16 23:05:39 | MASTER-SAAO | (06h 43m 06.10s , +18d 09m 21.1s) | C | 60 | 18.6 | 62605 | 2020-11-16 23:05:39 | MASTER-SAAO | (06h 42m 15.93s , +18d 08m 28.2s) | C | 60 | 18.9 | 62700 | 2020-11-16 23:07:14 | MASTER-SAAO | (06h 47m 58.22s , +20d 08m 19.1s) | C | 60 | 18.5 | 62700 | 2020-11-16 23:07:14 | MASTER-SAAO | (06h 47m 07.49s , +20d 07m 25.8s) | C | 60 | 18.8 | 62757 | 2020-11-16 23:08:11 | MASTER-IAC | (07h 16m 13.76s , +20d 03m 27.9s) | C | 60 | 16.9 | 62836 | 2020-11-16 23:09:30 | MASTER-IAC | (06h 54m 10.60s , +18d 01m 20.3s) | C | 60 | 17.1 | 62916 | 2020-11-16 23:10:50 | MASTER-IAC | (07h 02m 38.61s , +18d 02m 47.9s) | C | 60 | 17.1 | 62984 | 2020-11-16 23:11:58 | MASTER-SAAO | (06h 36m 12.53s , +22d 08m 12.6s) | C | 60 | 18.7 | 62984 | 2020-11-16 23:11:58 | MASTER-SAAO | (06h 35m 20.78s , +22d 07m 21.0s) | C | 60 | 18.9 | 62996 | 2020-11-16 23:12:09 | MASTER-IAC | (07h 10m 57.09s , +18d 02m 20.4s) | C | 60 | 17.0 | 63169 | 2020-11-16 23:15:03 | MASTER-IAC | (06h 27m 28.85s , +12d 02m 24.5s) | C | 60 | 17.0 | 63494 | 2020-11-16 23:20:27 | MASTER-IAC | (06h 22m 41.96s , +08d 03m 09.0s) | C | 60 | 17.1 | 63573 | 2020-11-16 23:21:47 | MASTER-IAC | (06h 35m 37.20s , +12d 01m 51.8s) | C | 60 | 17.4 | 63732 | 2020-11-16 23:24:26 | MASTER-IAC | (05h 32m 48.06s , +14d 00m 41.1s) | C | 60 | 17.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LAT GRB201116.03: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28905, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) was pointed to the LAT GRB201116.03 (trigger No 627180592,09h 57m 19.20s , +00d 18m 57.6s, R=0.25) errorbox 5535 sec after trigger time at 2020-11-16 02:22:02 UT, with upper limit up to 17.1 mag. The observations began at zenith distance = 77 deg. The sun altitude is -66.5 deg. The galactic latitude b = 41 deg., longitude l = 239 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1483260 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 5565 | 2020-11-16 02:22:02 | MASTER-IAC | (10h 01m 59.68s , +00d 06m 23.4s) | C | 60 | 15.9 | 6479 | 2020-11-16 02:37:16 | MASTER-IAC | (10h 02m 01.67s , +00d 05m 39.8s) | C | 60 | 17.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 201115.09: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28900, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) was pointed to the IceCube Alert 201115.09 (trigger No 70289682,12h 55m 01.92s , +01d 17m 24.0s, R=0.51) errorbox 1 days 10999 sec after notice time and 1 days 11121 sec after trigger time at 2020-11-16 05:12:47 UT, with upper limit up to 16.9 mag. The observations began at zenith distance = 77 deg. The sun altitude is -29.2 deg. The galactic latitude b = 64 deg., longitude l = 306 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1482363 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 97552 | 2020-11-16 05:12:47 | MASTER-IAC | (12h 58m 31.91s , +02d 07m 03.9s) | C | 60 | 16.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 201114.63: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28888, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the IceCube Alert 201114.63 (trigger No 40735501,07h 01m 00.00s , +06d 03m 00.0s, R=1.08) errorbox 28805 sec after notice time and 28895 sec after trigger time at 2020-11-14 23:07:07 UT, with upper limit up to 18.0 mag. The observations began at zenith distance = 45 deg. The sun altitude is -57.0 deg. The galactic latitude b = 5 deg., longitude l = 209 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1482210 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 28925 | 2020-11-14 23:07:07 | MASTER-Tavrida | (06h 54m 16.04s , +06d 14m 18.3s) | C | 60 | 18.0 | 29407 | 2020-11-14 23:15:09 | MASTER-Tavrida | (06h 54m 21.31s , +06d 11m 27.8s) | C | 60 | 17.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201111A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28882, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 201111A (Fermi GBM team, GCN 28878) errorbox 49227 sec after notice time and 49238 sec after trigger time at 2020-11-11 21:26:24 UT, with upper limit up to 18.8 mag. The observations began at zenith distance = 56 deg. The sun altitude is -63.7 deg. The galactic latitude b = -26 deg., longitude l = 219 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1480057 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 49269 | 2020-11-11 21:26:24 | MASTER-Tavrida | (05h 14m 19.42s , -03d 53m 02.4s) | C | 60 | 18.7 | 49430 | 2020-11-11 21:29:05 | MASTER-Tavrida | (05h 30m 19.56s , -03d 53m 04.9s) | C | 60 | 18.3 | 49510 | 2020-11-11 21:30:26 | MASTER-Tavrida | (05h 15m 12.59s , -05d 53m 15.5s) | C | 60 | 18.6 | 49591 | 2020-11-11 21:31:46 | MASTER-Tavrida | (05h 14m 13.92s , -03d 52m 15.0s) | C | 60 | 18.8 | 49671 | 2020-11-11 21:33:07 | MASTER-Tavrida | (05h 22m 22.24s , -03d 52m 57.2s) | C | 60 | 18.4 | 49913 | 2020-11-11 21:37:08 | MASTER-Tavrida | (05h 30m 19.40s , -03d 51m 53.2s) | C | 60 | 18.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201109A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28869, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 201109A (Fermi GBM team, GCN 28868) errorbox 533 sec after notice time and 585 sec after trigger time at 2020-11-09 02:40:50 UT, with upper limit up to 18.2 mag. The observations began at zenith distance = 69 deg. The sun altitude is -61.5 deg. The galactic latitude b = 27 deg., longitude l = 235 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1478104 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 645 | 2020-11-09 02:40:50 | MASTER-IAC | (09h 03m 30.97s , -05d

02m 21.6s) | C | 120 | 17.3 | 805 | 2020-11-09 02:40:50 | MASTER-IAC | (09h 03m 30.96s , -05d 02m 21.6s) | C | 440 | 18.2 | Coadd 795 | 2020-11-09 02:43:10 | MASTER-IAC | (09h 03m 28.96s , -05d 01m 05.9s) | C | 140 | 17.6 | 974 | 2020-11-09 02:45:50 | MASTER-IAC | (09h 03m 29.14s , -05d 02m 40.8s) | C | 180 | 17.9 | 1174 | 2020-11-09 02:49:09 | MASTER-IAC | (09h 03m 33.03s , -05d 00m 53.6s) | C | 180 | 17.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201108A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28867, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 201108A (Fermi GBM team, GCN 28866) errorbox 359 sec after notice time and 389 sec after trigger time at 2020-11-08 15:34:52 UT, with upper limit up to 16.7 mag. Observations started at twilight. The observations began at zenith distance = 17 deg. The sun altitude is -13.0 deg. The galactic latitude b = 11 deg., longitude l = 68 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1477785 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 420 | 2020-11-08 15:34:52 | MASTER-Tavrida | (19h 53m 10.99s , +33d 59m 17.0s) | C | 60 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 626247072: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28853, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB201105.23 (trigger No 626247072,16h 18m 00.00s , +16d 02m 24.0s, R=1) errorbox 70707 sec after notice time and 1 days 35703 sec after trigger time at 2020-11-06 15:26:11 UT, with upper limit up to 17.0 mag. Observations started at twilight. The observations began at zenith distance = 62 deg. The sun altitude is -11.1 deg. The galactic latitude b = 41 deg., longitude l = 31 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1476075 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 122133 | 2020-11-06 15:26:11 | MASTER-Tavrida | (16h 12m 41.16s , +17d 56m 18.6s) | C | 60 | 15.9 | 122575 | 2020-11-06 15:33:33 | MASTER-Tavrida | (16h 19m 05.03s , +15d 56m 44.6s) | C | 60 | 16.3 | 122656 | 2020-11-06 15:34:53 | MASTER-Tavrida | (16h 12m 39.93s , +17d 55m 47.1s) | C | 60 | 16.4 | 122736 | 2020-11-06 15:36:14 | MASTER-Tavrida | (16h 21m 09.45s , +17d 55m 56.4s) | C | 60 | 17.0 | 123420 | 2020-11-06 15:47:37 | MASTER-Tavrida | (16h 27m 17.90s , +15d 55m 18.0s) | C | 60 | 13.8 | 123500 | 2020-11-06 15:48:57 | MASTER-Tavrida | (16h 21m 10.43s , +17d 55m 33.6s) | C | 60 | 13.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. GRB 201104B: MASTER optical observation // GRB Coordinates Network, 2020, V. 28826, p. 1
MASTER-SAAO started GRB 201104B (Sbarufatti et al. GCN 28825, Ttrig=2020-11-04 17:33:46) observation by MASTER-II (2x4sq.deg.) in 2020-11-04 19:14:43UT (unfiltered, manual pointing) and by MASTER very wide field cameras (Lipunov et al. 2010, Advances in Astronomy,vol.2010, 30L), started at 48deg. altitude in clouds (the sun altitude was -25deg) There is no OT at Swift-XRT position with mlim=16.1 Observation and reduction will continue.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201104A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28824, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 201104A (Fermi GBM team, GCN 28823) errorbox 80 sec after trigger time at 2020-11-04 00:02:17 UT, with upper limit up to 17.8 mag. Observations started at twilight. The observations began at zenith distance = 59 deg. The sun altitude is -13.0 deg. The galactic latitude b = -38 deg., longitude l = 287 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1475503 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 90 | 2020-11-04 00:02:17 | MASTER-OAFA | (03h 58m 14.15s , -74d 30m 15.1s) | C | 20 | 17.4 | 130 | 2020-11-04 00:02:56 | MASTER-OAFA | (03h 58m 07.55s , -74d 31m 15.8s) | C | 20 | 17.3 | 174 | 2020-11-04 00:03:35 | MASTER-OAFA | (03h 58m 15.37s , -74d 30m 56.0s) | C | 30 | 17.4 | 228 | 2020-11-04 00:04:25 | MASTER-OAFA | (03h 58m 11.98s , -74d 29m 19.8s) | C | 40 | 17.6 | 293 | 2020-11-04 00:05:24 | MASTER-OAFA | (03h 58m 12.40s , -74d 30m 55.2s) | C | 50 | 17.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201103A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28821, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 201103A (Fermi GBM team, GCN 28820) errorbox 284 sec after notice time and 343 sec after trigger time at 2020-11-03 06:18:53 UT, with upper limit up to 16.7 mag. Observations started at twilight. The observations began at zenith distance = 73 deg. The sun altitude is -13.0 deg. The galactic latitude b = 36 deg., longitude l = 103 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1474580 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 374 | 2020-11-03 06:18:53 | MASTER-IAC | (16h 09m 29.35s , +70d 02m 37.3s) | C | 60 | 16.6 | 453 | 2020-11-03 06:20:13 | MASTER-IAC | (15h 22m 24.94s , +70d 04m 21.2s) | C | 60 | 16.7 | 533 | 2020-11-03 06:21:32 | MASTER-IAC | (16h 12m 13.39s , +66d 00m 40.5s) | C | 60 | 16.5 | 612 | 2020-11-03 06:22:52 | MASTER-IAC | (15h 27m 31.40s , +68d 03m 55.2s) | C | 60 | 16.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 201031A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28819, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the Swift GRB 201031A (S. Laha et al., GCN 28814) errorbox 34924 sec after notice time and 35035 sec after trigger time at 2020-11-01 00:03:50 UT, with upper limit up to 16.6 mag. Observations started at twilight. The observations began at zenith distance = 76 deg. The sun altitude is -13.9 deg. The galactic latitude b = 20 deg., longitude l = 11 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1472957 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 35125 | MASTER-OAFA | C | 180 | 16.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Pogrosheva, T., Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., et al. MASTER: anti-transient with ampl>8.5m in 1 day // The Astronomer's Telegram, 2020, V. 14159, p. 1

MASTER-Tavrida auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 06h 29m 28.51s +77d 16m 19.1s on 2020-10-28.98075 UT. The OT unfiltered magnitude is 17.2m (mlim=18.2).This star has m=8.7 at 2020-10-27 21:29:00UT The MASTER light curve since 2010-01-25 11:14:55 didn't demonstrate other eclipse with this amplitude Spectral observations are required.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-10-29 // Transient Name Server Discovery Report, 2020, V. 2020-3292, p. 1

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Chasovnikov, A., Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., et al. MASTER Transient Discovery Report for 2020-10-29 // Transient Name Server Discovery Report, 2020, V. 2020-3291, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-28 // Transient Name Server Discovery Report, 2020, V. 2020-3283, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-10-28 // Transient Name Server Discovery Report, 2020, V. 2020-3282, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-28 // Transient Name Server Discovery Report, 2020, V. 2020-3281, p. 1

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Tiurina, N., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-27 // Transient Name Server Discovery Report, 2020, V. 2020-3270, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-10-26 // Transient Name Server Discovery Report, 2020, V. 2020-3257, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-25 // Transient Name Server Discovery Report, 2020, V. 2020-3250, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-10-25 // Transient Name Server Discovery Report, 2020, V. 2020-3249, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-25 // Transient Name Server Discovery Report, 2020, V. 2020-3248, p. 1

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Pogrosheva, T., Balanutsa, P., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., et al. MASTER Transient Discovery Report for 2020-10-25 // Transient Name Server Discovery Report, 2020, V. 2020-3247, p. 1

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Pogroheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-25 // Transient Name Server Discovery Report, 2020, V. 2020-3246, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-24 // Transient Name Server Discovery Report, 2020, V. 2020-3237, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-10-21 // Transient Name Server Discovery Report, 2020, V. 2020-3196, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-18 // Transient Name Server Discovery Report, 2020, V. 2020-3163, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-10-16 // Transient Name Server Discovery Report, 2020, V. 2020-3144, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-12 // Transient Name Server Discovery Report, 2020, V. 2020-3091, p. 1

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Kechin, Y., Svinkin, D., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., et al. MASTER Transient Discovery Report for 2020-10-11 // Transient Name Server Discovery Report, 2020, V. 2020-3082, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-09 // Transient Name Server Discovery Report, 2020, V. 2020-3067, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-06 // Transient Name Server Discovery Report, 2020, V. 2020-3035, p. 1

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Pogroshevam, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-02 // Transient Name Server Discovery Report, 2020, V. 2020-2998, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-02 // Transient Name Server Discovery Report, 2020, V. 2020-2997, p. 1

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Chasovnikov, A., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-10-02 // Transient Name Server Discovery Report, 2020, V. 2020-2996, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201031B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28817, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 201031B (Fermi GBM team, GCN 28815) errorbox 9553 sec after notice time and 9640 sec after trigger time at 2020-10-31 20:32:04 UT, with upper limit up to 16.8 mag. The observations began at zenith distance = 53 deg. The sun altitude is -29.8 deg. The galactic latitude b = -3 deg., longitude l = 141 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1473043 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 9670 | 2020-10-31 20:32:04 | MASTER-IAC | (02h 28m 29.48s , +51d 55m 57.7s) | C | 60 | 16.8 | 9750 | 2020-10-31 20:33:24 | MASTER-IAC | (02h 41m 30.02s , +51d 57m 11.9s) | C | 60 | 16.7 | 10166 | 2020-10-31 20:40:20 | MASTER-IAC | (02h 54m 30.92s , +51d 55m 46.5s) | C | 60 | 16.7 | 10257 | 2020-10-31 20:41:51 | MASTER-IAC | (03h 05m 47.75s , +51d 56m 15.9s) | C | 60 | 16.7 | 10509 | 2020-10-31 20:46:03 | MASTER-IAC | (02h 41m 34.50s , +51d 56m 15.3s) | C | 60 | 16.7 | 10777 | 2020-10-31 20:50:31 | MASTER-IAC | (03h 05m 43.26s , +51d 56m 35.1s) | C | 60 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 201029A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28811, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) was pointed to the Swift GRB 201029A (S. Dichiara et al., GCN 28803) errorbox 103 sec after trigger time at 2020-10-29 20:23:35 UT, with upper limit up to 17.3 mag. The observations began at zenith distance = 77 deg. The sun altitude is -27.6 deg. The galactic latitude b = 56 deg., longitude l = 73 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1471870 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 113 | MASTER-IAC | C | 20 | 15.9 | 148 | MASTER-IAC | C | 90 | 16.6 | Coadd 338 | MASTER-IAC | C | 470 | 17.3 | Coadd 146 | MASTER-IAC | C | 30 | 16.0 | 197 | MASTER-IAC | C | 40 | 16.0 | 253 | MASTER-IAC | C | 50 | 16.3 | 343 | MASTER-IAC | C | 230 | 17.0 | Coadd 322 | MASTER-IAC | C | 60 | 16.4 | 672 | MASTER-IAC | C | 120 | 16.5 | 817 | MASTER-IAC | C | 150 | 16.6 | 997 | MASTER-IAC | C | 510 | 16.6 | Coadd 993 | MASTER-IAC | C | 180 | 16.4 | 1193 | MASTER-IAC | C | 180 | 16.4 | 1392 | MASTER-IAC | C | 180 | 16.1 | 1572 | MASTER-IAC | C | 540 | 16.6 | Coadd 1591 | MASTER-IAC | C | 180 | 16.0 | 1791 | MASTER-IAC | C | 180 | 15.9 | 1991 | MASTER-IAC | C | 180 | 15.7 | 2601 | MASTER-IAC | C | 180 | 15.3 | 83049 | MASTER-IAC | C | 60 | 16.8 | 84836 | MASTER-IAC | C | 60 | 16.5 | 85552 | MASTER-IAC | C | 60 | 16.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 625695596: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28804, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB201029.85 (trigger No 625695596,14h 48m 48.00s , +51d 37m 58.8s, R=22.18) errorbox 109 sec after trigger time at 2020-10-29 20:21:41 UT, with upper limit up to 16.6 mag. The observations began at zenith distance = 81 deg. The sun altitude is -27.2 deg. The galactic latitude b = 57 deg., longitude l = 88 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1471861 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 119 | 2020-10-29 20:21:41 | MASTER-IAC | (14h 30m 38.24s , +49d 07m 10.3s) | C | 20 | 14.9 | 164 | 2020-10-29 20:22:20 | MASTER-IAC | (14h 30m 33.21s , +49d 06m 08.4s) | C | 30 | 15.1 | 234 | 2020-10-29 20:23:35 | MASTER-IAC | (15h 17m 43.60s , +44d 30m 26.7s) | C | 20 | 15.9 | 269 | 2020-10-29 20:23:35 | MASTER-IAC | (15h 17m 43.60s , +44d 30m 26.6s) | C | 90 | 16.6 | Coadd 267 | 2020-10-29 20:24:03 | MASTER-IAC | (15h 17m 43.56s , +44d 29m 03.5s) | C | 30 | 16.0 | 318 | 2020-10-29 20:24:49 | MASTER-IAC | (15h 17m 46.49s , +44d 30m 11.2s) | C | 40 | 16.0 | 374 | 2020-10-29 20:25:40 | MASTER-IAC | (15h 17m 40.74s , +44d 29m 33.1s) | C | 50 | 16.3 | 442 | 2020-10-29 20:26:44 | MASTER-IAC | (15h 17m 40.34s , +44d 30m 33.0s) | C | 60 | 16.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 201027.41: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28795, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Baksan Neutrino Observatory Alert 201027.41 (trigger No 1654508715,21h 50m 48.00s , -28d 54m 00.0s, R=3) errorbox 28531 sec after notice time and 29731 sec after trigger time at 2020-10-27 18:00:46 UT, with upper limit up to 18.1 mag. Observations started at twilight. The observations began at zenith distance = 1 deg. The sun altitude is -12.9 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the Baksan Neutrino Observatory Alert 201027.41 errorbox 32890 sec after notice time and 34091 sec after trigger time at 2020-10-27 19:13:25 UT, with upper limit up to 16.1 mag. Observations started at twilight. The observations began at zenith distance = 62 deg. The sun altitude is -11.9 deg. The galactic latitude b = -51 deg., longitude l = 20 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1470084 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 29762 | 2020-10-27 18:00:46 | MASTER-SAAO | (21h 40m 26.15s , -32d 03m 16.9s) | C | 60 | 13.9 | 29762 | 2020-10-27 18:00:46 | MASTER-SAAO | (21h 39m 26.19s , -32d 04m 00.1s) | C | 60 | 13.9 | 29863 | 2020-10-27 18:02:27 | MASTER-SAAO | (21h 31m 54.36s , -30d 04m 07.8s) | C | 60 | 18.0 | 29863 | 2020-10-27 18:02:27 | MASTER-SAAO | (21h 30m 55.70s , -30d 04m 56.7s) | C | 60 | 18.1 | 30117 | 2020-10-27 18:06:41 | MASTER-SAAO | (21h 40m 26.27s , -32d 03m 21.2s) | C | 60 | 17.0 | 30117 | 2020-10-27 18:06:41 | MASTER-SAAO | (21h 39m 26.18s , -32d 04m 06.6s) | C | 60 | 17.0 | 30197 | 2020-10-27 18:08:01 | MASTER-SAAO | (21h 31m 50.60s , -30d 05m 09.2s) | C | 60 | 17.9 | 30197 | 2020-10-27 18:08:01 | MASTER-SAAO | (21h 30m 51.78s , -30d 05m 58.6s) | C | 60 | 17.9 | 34121 | 2020-10-27 19:13:25 | MASTER-IAC | (21h 36m 06.20s , -32d 04m 37.7s) | C | 60 | 16.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB201027.05: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28787, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB201027.05 (trigger No 1002158,10h 23m 53.76s , -05d 30m 54.0s, R=0.05) errorbox 50 sec after trigger time at 2020-10-27 01:08:34 UT, with upper limit up to 15.6 mag. The observations began at zenith distance = 81 deg. The sun altitude is -30.2 deg. The galactic latitude b = 42 deg., longitude l = 251 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1469802 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 55 | MASTER-SAAO | P/ | 10 | 15.6 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB201026.94: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28783, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) was pointed to the Swift GRB201026.94 (trigger No 1002103,13h 06m 39.36s , +83d 45m 39.6s, R=0.05) errorbox 665 sec after trigger time at 2020-10-26 22:48:39 UT, with upper limit up to 16.9 mag. The observations began at zenith distance = 68 deg. The sun altitude is -58.5 deg. The galactic latitude b = 34 deg., longitude l = 122 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1469722 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 731 | MASTER-IAC | C | 130 | 16.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V. GRB 201024A: MASTER correction to GCN 28760 // GRB Coordinates Network, 2020, V. 28762, p. 1
T-Tmid Date Time Expt. Ra Dec Mag ---------|---------|-------|---------|---------|----- 66 2020-10-24 02:51:20 10 (08h 23m 48.58s, +03d 21m 13.8s) 14.9 The OT position is coincident with UVOT and XRT position. The afterglow appears to be fading rapidly.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB201024A: Global MASTER-Net OT detection // GRB Coordinates Network, 2020, V. 28760, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB201024A (trigger 1001514) 36 sec after notice time and 66 sec after trigger time at 2020-10-24 02:51:20 UT. On our first (10s exposure) set we found 1 optical transient within Swift error-box (ra=125.95 dec=3.35444 r=0.05) brighter than 16.5. T-Tmid Date Time Expt. Ra Dec Mag ---------|---------|-------|---------|---------|----- 229 2020-09-25 21:54:16 40 (08h 23m 48.58s, +03d 21m 13.8s) 14.9 The 5-sigma upper limit has been about 17mag The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB201024.12: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28759, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB201024.12 (trigger No 1001514,08h 23m 47.52s , +03d 22m 37.2s, R=0.05) errorbox 28 sec after notice time and 43 sec after trigger time at 2020-10-24 02:49:43 UT, with upper limit up to 16.2 mag. Observations started at twilight. The observations began at zenith distance = 46 deg. The sun altitude is -12.7 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) was pointed to the Swift GRB201024.12 errorbox 146 sec after notice time and 161 sec after trigger time at 2020-10-24 02:51:40 UT, with upper limit up to 16.9 mag. The observations began at zenith distance = 67 deg. The sun altitude is -56.7 deg. The galactic latitude b = 23 deg., longitude l = 221 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1467863 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 49 | MASTER-SAAO | P/ | 10 | 16.0 | 49 | MASTER-SAAO | P\ | 10 | 16.2 | 78 | MASTER-SAAO | P/ | 10 | 15.9 | 78 | MASTER-SAAO | P\ | 10 | 16.1 | 171 | MASTER-IAC | C | 20 | 16.7 | 206 | MASTER-IAC | C | 20 | 16.5 | 242 | MASTER-IAC | C | 30 | 16.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 201022.66: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28752, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Baksan Neutrino Observatory Alert 201022.66 (trigger No 1654098938,06h 36m 48.00s , +35d 42m 00.0s, R=3) errorbox 7683 sec after notice time and 8262 sec after trigger time at 2020-10-22 18:13:20 UT, with upper limit up to 17.6 mag. The observations began at zenith distance = 80 deg. The sun altitude is -37.1 deg. The galactic latitude b = 13 deg., longitude l = 179 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1467031 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 8293 | 2020-10-22 18:13:20 | MASTER-Tavrida | (06h 31m 42.02s , +40d 06m 56.4s) | C | 60 | 16.8 | 8463 | 2020-10-22 18:16:11 | MASTER-Tavrida | (06h 20m 51.39s , +38d 08m 07.9s) | C | 60 | 16.9 | 11055 | 2020-10-22 18:59:23 | MASTER-Tavrida | (06h 31m 48.40s , +40d 08m 27.7s) | C | 60 | 17.5 | 11136 | 2020-10-22 19:00:43 | MASTER-Tavrida | (06h 42m 15.16s , +40d 06m 57.0s) | C | 60 | 17.4 | 11313 | 2020-10-22 19:03:41 | MASTER-Tavrida | (06h 20m 48.45s , +38d 08m 03.6s) | C | 60 | 17.6 | 11394 | 2020-10-22 19:05:01 | MASTER-Tavrida | (06h 31m 03.87s , +38d 07m 16.8s) | C | 60 | 17.6 | 11825 | 2020-10-22 19:12:12 | MASTER-

Tavrida | (06h 42m 12.91s , +40d 08m 51.7s) | C | 60 | 17.6 | 11905 | 2020-10-22 19:13:33 | MASTER-Tavrida | (06h 30m 41.03s , +36d 06m 09.0s) | C | 60 | 17.6 | 11986 | 2020-10-22 19:14:53 | MASTER-Tavrida | (06h 40m 35.85s , +34d 07m 58.4s) | C | 60 | 17.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. GRB 201021C: MASTER optical synchronously observation // GRB Coordinates Network, 2020, V. 28733, p. 1
MASTER-SAAO started GRB 201021C (Lien et al. GCN 28730) observation by MASTER-II (2x4sq.deg.) in 2020-10-21 20:31:04UT and also detected OT at Swift-UVOT position (Lien et al. GCN 28730) in 2 polarization filters. MASTER very wide field cameras (Lipunov et al. 2010, Advances in Astronomy, vol.2010, 30L) observed this GRB _synchronously_ . Observation and reduction will continue.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB201021.85: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28731, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB201021.85 (trigger No 1001130,00h 50m 12.00s , -55d 50m 20.4s, R=0.05) errorbox 73 sec after notice time and 295 sec after trigger time at 2020-10-21 20:32:14 UT, with upper limit up to 17.8 mag. The observations began at zenith distance = 26 deg. The sun altitude is -39.5 deg. The galactic latitude b = -62 deg., longitude l = 303 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1466597 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 325 | MASTER-SAAO | P/ | 60 | 17.7 | 325 | MASTER-SAAO | P\ | 60 | 17.8 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MAXI GRB201021.68: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28728, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the MAXI GRB201021.68 (trigger No 143544224,00h 14m 16.08s , -63d 29m 31.2s, R=1) errorbox 9280 sec after notice time and 13381 sec after trigger time at 2020-10-21 20:02:07 UT, with upper limit up to 20.2 mag. The observations began at zenith distance = 33 deg. The sun altitude is -35.3 deg. The galactic latitude b = -53 deg., longitude l = 309 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1466520 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 13471 | 2020-10-21 20:02:07 | MASTER-SAAO | (00h 15m 17.20s , -63d 33m 50.4s) | C | 180 | 19.9 | 13471 | 2020-10-21 20:02:07 | MASTER-SAAO | (00h 13m 23.07s , -63d 34m 18.3s) | C | 180 | 19.8 | 13671 | 2020-10-21 20:05:27 | MASTER-SAAO | (00h 15m 23.28s , -63d 34m 57.6s) | C | 180 | 20.1 | 13671 | 2020-10-21 20:05:27 | MASTER-SAAO | (00h 13m 29.09s , -63d 35m 25.1s) | C | 180 | 19.9 | 13871 | 2020-10-21 20:08:46 | MASTER-SAAO | (00h 15m 17.91s , -63d 36m 02.6s) | C | 180 | 20.2 | 13871 | 2020-10-21 20:08:46 | MASTER-SAAO | (00h 13m 23.46s , -63d 36m 29.5s) | C | 180 | 20.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 201021.28: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28722, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the IceCube Alert 201021.28 (trigger No 31008065,17h 22m 45.36s , +14d 39m 10.8s, R=0.51) errorbox 32837 sec after notice time and 32892 sec after trigger time at 2020-10-21 15:45:59 UT, with upper limit up to 17.5 mag. Observations started at twilight. The observations began at zenith distance = 45 deg. The sun altitude is -10.9 deg. The galactic latitude b = 26 deg., longitude l = 37 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1466141 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 32982 | 2020-10-21 15:45:59 | MASTER-Tavrida | (17h 20m 39.25s , +14d 38m 17.4s) | C | 180 | 16.7 | 33384 | 2020-10-21 15:52:41 | MASTER-Tavrida | (17h 20m 35.68s , +14d 38m 01.9s) | C | 180 | 17.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. GRB 201020B: MASTER bright optical afterglow detection // GRB Coordinates Network, 2020, V. 28718, p. 1
MASTER-Tavrida wide field robotic-telescope (Lipunov et al. GCN 28704) and very wide field cameras observed in alert mode Fermi GRB201020B (GBM GCN 28703, LAT GCN 28716 https://gcn.gsfc.nasa.gov/other/201020B.gcn3) MASTER auto-detection system (Lipunov et al. 2010, Advances in Astronomy, vol. 2010, 30L) discovered MASTER OT J050152.74+770406.3 with afterglow light curve at (RA, Dec2000) = 05h 01m 52.74s +77d 04m 06.3s with m_OT=13.7 at 2020-10-20.73413 UT. The OT is seen in 35 images with afterglow behaviour. We have reference image on 2020-01-02.78682 UT with unfiltered mlim=19.5m.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201020B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28704, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 201020B (Fermi GBM team, GCN 28702) errorbox 116 sec after notice time and 145 sec after trigger time at 2020-10-20 17:36:19 UT, with upper limit up to 19.0 mag. The observations began at zenith distance = 51 deg. The sun altitude is -30.3 deg. The galactic latitude b = 20 deg., longitude l = 135 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1465475 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 160 | 2020-10-20 17:36:19 | MASTER-Tavrida | (05h 02m 15.44s , +77d 01m 50.6s) | C | 30 | 18.1 | 205 | 2020-10-20 17:36:19 | MASTER-Tavrida | (05h 02m 15.47s , +77d 01m 50.6s) | C | 120 | 19.0 | Coadd 216 | 2020-10-20 17:37:09 | MASTER-Tavrida | (05h 02m 09.73s , +77d 00m 53.6s) | C | 40 | 18.4 | 281 | 2020-10-20 17:38:10 | MASTER-Tavrida | (05h 02m 16.10s , +77d 01m 14.1s) | C | 50 | 18.4 | 356 | 2020-10-20 17:39:20 | MASTER-Tavrida | (05h 02m 11.94s , +77d 02m 41.5s) | C | 60 | 18.5 | 447 | 2020-10-20 17:40:41 | MASTER-Tavrida | (05h 02m 11.08s , +77d 01m 36.7s) | C | 80 | 18.7 | 557 | 2020-10-20 17:42:21 | MASTER-Tavrida | (04h 48m 10.21s , +76d 33m 54.4s) | C | 100 | 18.8 | 688 | 2020-10-20 17:44:21 | MASTER-Tavrida | (04h 48m 02.35s , +76d 33m 21.4s) | C | 120 | 18.9 | 843 | 2020-10-20 17:46:42 | MASTER-Tavrida | (04h 48m 00.81s , +76d 34m 32.4s) | C | 150 | 18.6 | 1029 | 2020-10-20 17:49:33 | MASTER-Tavrida | (04h 48m 05.91s , +76d 33m 45.8s) | C | 180 | 18.6 | 1230 | 2020-10-20 17:52:54 | MASTER-Tavrida | (04h 47m 57.59s , +76d 33m 01.0s) | C | 180 | 18.6 | 1431 | 2020-10-20 17:56:14 | MASTER-Tavrida | (04h 48m 03.67s , +76d 33m 39.0s) | C | 180 | 18.6 | 1631 | 2020-10-20 17:59:35 | MASTER-Tavrida | (04h 47m 58.81s , +76d 35m 03.2s) | C | 180 | 18.6 | 1772 | 2020-10-20 18:02:56 | MASTER-Tavrida | (04h 50m 47.49s , +78d 02m 09.0s) | C | 60 | 18.6 | 1852 | 2020-10-20 18:04:16 | MASTER-Tavrida | (04h 09m 27.94s , +76d 03m 59.8s) | C | 60 | 18.8 | 2013 | 2020-10-20 18:06:57 | MASTER-Tavrida | (05h 15m 54.03s , +76d 01m 47.7s) | C | 60 | 18.6 | 4831 | 2020-10-20 18:53:55 | MASTER-Tavrida | (04h 50m 27.27s , +78d 03m 32.9s) | C | 60 | 18.3 | 4912 | 2020-10-20 18:55:16 | MASTER-Tavrida | (05h 29m 10.28s , +78d 03m 58.0s) | C | 60 | 18.6 | 4992 | 2020-10-20 18:56:36 | MASTER-Tavrida | (04h 09m 07.67s , +76d 04m 40.5s) | C | 60 | 18.7 | 5073 | 2020-10-20 18:57:56 | MASTER-Tavrida | (04h 42m 20.94s , +76d 05m 39.8s) | C | 60 | 18.7 | 5233 | 2020-10-20 19:00:37 | MASTER-Tavrida | (05h 01m 52.50s , +80d 03m 12.9s) | C | 60 | 18.9 | 5315 | 2020-10-20 19:01:58 | MASTER-Tavrida | (05h

15m 37.60s , +76d 03m 36.6s) | C | 60 | 18.7 | 5814 | 2020-10-20 19:10:18 | MASTER-Tavrida | (05h 29m 01.57s , +78d 05m 11.8s) | C | 60 | 18.4 | 5895 | 2020-10-20 19:11:38 | MASTER-Tavrida | (04h 42m 17.73s , +76d 04m 03.6s) | C | 60 | 18.6 | 6260 | 2020-10-20 19:17:44 | MASTER-Tavrida | (04h 36m 28.16s , +74d 04m 22.2s) | C | 60 | 18.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 201020A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28700, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB 201020A (E. Ambrosi et al., GCN 28696) errorbox 35426 sec after notice time and 35521 sec after trigger time at 2020-10-20 15:39:27 UT, with upper limit up to 17.6 mag. Observations started at twilight. The observations began at zenith distance = 32 deg. The sun altitude is -9.4 deg. The galactic latitude b = 31 deg., longitude l = 55 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1464820 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 35612 | MASTER-Tavrida | C | 180 | 16.4 | 36013 | MASTER-Tavrida | C | 180 | 17.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 201017A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28667, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) was pointed to the Swift GRB 201017A (A. D'Ai et al., GCN 28666) errorbox 7302 sec after notice time and 7410 sec after trigger time at 2020-10-17 11:50:02 UT, with upper limit up to 19.1 mag. Observations started at twilight. The observations began at zenith distance = 44 deg. The sun altitude is -16.4 deg. The galactic latitude b = 6 deg., longitude l = 132 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1463193 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 7501 | MASTER-Tunka | C | 180 | 19.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201016B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28643, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 201016B (Fermi GBM team, GCN 28640) errorbox 559 sec after notice time and 718 sec after trigger time at 2020-10-16 03:28:19 UT, with upper limit up to 19.5 mag. The observations began at zenith distance = 2 deg. The sun altitude is -48.2 deg. The galactic latitude b = -84 deg., longitude l = 342 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1462348 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 748 | 2020-10-16 03:28:19 | MASTER-OAFA | (00h 30m 50.26s , -29d 26m 27.2s) | C | 60 | 19.5 | 828 | 2020-10-16 03:29:38 | MASTER-OAFA | (00h 30m 09.35s , -27d 25m 42.9s) | C | 60 | 19.3 | 907 | 2020-10-16 03:30:58 | MASTER-OAFA | (00h 31m 34.87s , -31d 25m 41.9s) | C | 60 | 19.4 | 986 | 2020-10-16 03:32:17 | MASTER-OAFA | (00h 29m 43.09s , -25d 26m 20.1s) | C | 60 | 19.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 201015A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28634, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB 201015A (V. D'Elia et al., GCN 28632) errorbox 88 sec after trigger time at 2020-10-15 22:51:41 UT, with upper limit up to 18.5 mag. The observations began at zenith distance = 33 deg. The sun altitude is -50.5 deg. The galactic latitude b = -8 deg., longitude l = 112 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1462183 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 98 | MASTER-Tavrida | C | 20 | 17.8 | 123 | MASTER-Tavrida | C | 70 | 18.5 | Coadd 138 | MASTER-Tavrida | C | 20 | 17.9 | 184 | MASTER-Tavrida | C | 30 | 18.1 | 239 | MASTER-Tavrida | C | 40 | 18.3 | 305 | MASTER-Tavrida | C | 50 | 18.4 | 385 | MASTER-Tavrida | C | 70 | 18.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Kuvshinov, D., Tyurina, N., Balanutsa, P., Kuznetsov, A., Chazov, V. V., State Moscow Lomonosov Vlasenko University, D., et al. Swift GRB201015.95: Global MASTER-Net OT detection // GRB Coordinates Network, 2020, V. 28633, p. 1
A. Tlatov, V.Senik, A.V. Parhomenko, D. Dormidontov Kislovodsk Solar Station of the Pulkovo Observatory K. Ivanov, O. Gres, N.M. Budnev, S. Yazev, O. Chuvalaev, V. Poleshchuk Irkutsk State University V. Yurkov, A. Gabovich, Yu. Sergienko Blagoveschensk Educational State University, Blagoveschensk R. Podesta, Carlos Lopez and F. Podesta Observatorio Astronomico Felix Aguilar (OAFA) R. Rebolo, M. Serra, N. Lodieu, G. Israelian, L. Suarez-Andres The Instituto de Astrofisica de Canarias D. Buckley, S. Potter, A. Kniazev, M. Kotze South African Astronomical Observatory MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the GRB201015.95 67 sec after notice time and 88 sec after trigger time at 2020-10-15 22:51:41 UT. On our 3-th (30s exposure) set , obtained 168 sec after tigger time at 2020-10-15 22:53:01 UT, we found 1 optical transient within Swift error-box (ra=354.342 dec=53.3925 r=0.05) brighter than 17.6. T-Tmid Date Time Expt. Ra Dec Mag --------|--------------------|-------|-----------------|-----------------|------- 183 2020-10-15 22:53:01 30 (23h 37m 16.42s , +53d 24m 55.8s) 16.9 The 5-sigma upper limit has been about 17.6mag The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 201014.09: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28627, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) was pointed to the IceCube Alert 201014.09 (trigger No 66310113,14h 41m 31.68s , +14d 25m 01.2s, R=0.68) errorbox 1 days 33013 sec after notice time and 1 days 33079 sec after trigger time at 2020-10-15 11:24:46 UT, with upper limit up to 16.8 mag. Observations started at twilight. The observations began at zenith distance = 71 deg. The sun altitude is -11.8 deg. The galactic latitude b = 61 deg., longitude l = 12 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1461072 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 119569 | 2020-10-15 11:24:46 | MASTER-Tunka | (14h 45m 08.21s , +14d 50m 19.4s) | C | 180 | 16.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 201013A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28612, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB 201013A (K. L. Page et al., GCN 28607) errorbox 51437 sec after notice time and 51478 sec after trigger time at 2020-10-13 18:04:29 UT, with upper limit up to 18.1 mag. The observations began at zenith distance = 73 deg. The sun altitude is -33.0 deg. The galactic latitude b = 25 deg., longitude l = 160 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1460562 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment
_____|_____|_____|_____ 51569 | MASTER-Tavrida | C | 180 | 18.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 624139481: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28602, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB201011.84 (trigger No 624139481,19h 22m 52.80s , -11d 27m 00.0s, R=9.59) errorbox 84 sec after notice time and 146 sec after trigger time at 2020-10-11 20:07:03 UT, with upper limit up to 17.7 mag. The observations began at zenith distance = 35 deg. The sun altitude is -20.5 deg. The galactic latitude b = -13 deg., longitude l = 27 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1459936 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 162 | 2020-10-11 20:07:03 | MASTER-IAC | (19h 10m 45.99s , -02d 24m 40.9s) | C | 30 | 17.1 | 207 | 2020-10-11 20:07:03 | MASTER-IAC | (19h 10m 45.99s , -02d 24m 40.8s) | C | 120 | 17.7 | Coadd 216 | 2020-10-11 20:07:52 | MASTER-IAC | (19h 10m 45.90s , -02d 26m 16.0s) | C | 40 | 17.3 | 281 | 2020-10-11 20:08:52 | MASTER-IAC | (19h 10m 48.37s , -02d 24m 53.5s) | C | 50 | 17.3 | 355 | 2020-10-11 20:10:01 | MASTER-IAC | (19h 10m 41.82s , -02d 25m 41.9s) | C | 60 | 17.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 624121589: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28600, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB201011.63 (trigger No 624121589,18h 44m 12.00s , -05d 43m 12.0s, R=2.38) errorbox 7808 sec after notice time and 7854 sec after trigger time at 2020-10-11 17:17:19 UT, with upper limit up to 17.0 mag. The observations began at zenith distance = 58 deg. The sun altitude is -24.3 deg. The galactic latitude b = -2 deg., longitude l = 27 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1459829 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 7945 | 2020-10-11 17:17:19 | MASTER-Tavrida | (18h 42m 41.90s , -05d 44m 37.6s) | C | 180 | 16.8 | 8145 | 2020-10-11 17:20:39 | MASTER-Tavrida | (18h 42m 35.72s , -05d 45m 42.1s) | C | 180 | 17.0 | 8325 | 2020-10-11 17:20:39 | MASTER-Tavrida | (18h 42m 35.72s , -05d 45m 42.1s) | C | 540 | 17.0 | Coadd 8346 | 2020-10-11 17:24:00 | MASTER-Tavrida | (18h 42m 35.39s , -05d 44m 48.4s) | C | 180 | 17.0 | 8547 | 2020-10-11 17:27:21 | MASTER-Tavrida | (18h 42m 41.17s , -05d 45m 54.9s) | C | 180 | 16.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB201010.62: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28595, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB201010.62 (trigger No 999571,18h 30m 42.00s , -06d 45m 28.8s, R=0.05) errorbox 11339 sec after notice time and 11364 sec after trigger time at 2020-10-10 17:58:48 UT, with upper limit up to 16.6 mag. The observations began at zenith distance = 66 deg. The sun altitude is -31.1 deg. The galactic latitude b = 1 deg., longitude l = 25 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1459250 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment
_____|_____|_____|_____ 11454 | MASTER-Tavrida | C | 180 | 16.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 623846261: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28581, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB201008.44 (trigger No 623846261,10h 41m 55.20s , +47d 39m 00.0s, R=3.33) errorbox 27862 sec after notice time and 27870 sec after trigger time at 2020-10-08 18:22:07 UT, with upper limit up to 15.8 mag. The observations began at zenith distance = 70 deg. The sun altitude is -41.6 deg. The galactic latitude b = 58 deg., longitude l = 165 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1458009 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 27900 | 2020-10-08 18:22:07 | MASTER-Tunka | (10h 38m 38.56s , +47d 47m 29.8s) | C | 60 | 14.5 | 27980 | 2020-10-08 18:23:26 | MASTER-Tunka | (10h 39m 49.70s , +49d 47m 34.0s) | C | 60 | 15.8 | 28059 | 2020-10-08 18:24:46 | MASTER-Tunka | (11h 01m 08.85s , +45d 45m 21.4s) | C | 60 | 13.9 | 28139 | 2020-10-08 18:26:05 | MASTER-Tunka | (10h 14m 38.76s , +47d 47m 51.2s) | C | 60 | 13.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 623873165: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28580, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB201008.75 (trigger No 623873165,06h 12m 38.40s , +38d 27m 00.0s, R=3.1) errorbox 92 sec after notice time and 181 sec after trigger time at 2020-10-08 18:09:02 UT, with upper limit up to 14.2 mag. The observations began at zenith distance = 43 deg. The sun altitude is -42.5 deg. The galactic latitude b = 10 deg., longitude l = 175 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1458233 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 201 | 2020-10-08 18:09:02 | MASTER-Tunka | (06h 11m 31.03s , +38d 12m 22.4s) | P| | 40 | 14.2 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Baksan Neutrino Observatory Alert 201008.47: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28578, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Baksan Neutrino Observatory Alert 201008.47 (trigger No 1652872203,23h 08m 00.00s , -20d 18m 00.0s, R=3) errorbox 3695 sec after notice time and 4296 sec after trigger time at 2020-10-08 12:21:39 UT, with upper limit up to 16.2 mag. The observations began

at zenith distance = 79 deg. The sun altitude is -18.3 deg. The galactic latitude b = -66 deg., longitude l = 45 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1457971 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 4326 | 2020-10-08 12:21:39 | MASTER-Tunka | (22h 53m 53.20s , -20d 19m 15.8s) | C | 60 | 15.0 | 4863 | 2020-10-08 12:30:35 | MASTER-Tunka | (22h 54m 10.63s , -18d 19m 00.1s) | C | 60 | 15.7 | 4942 | 2020-10-08 12:31:55 | MASTER-Tunka | (23h 11m 06.59s , -18d 20m 18.9s) | C | 60 | 16.2 | 5101 | 2020-10-08 12:34:34 | MASTER-Tunka | (23h 10m 48.27s , -20d 19m 21.8s) | C | 60 | 15.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 201007.92: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28574, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the IceCube Alert 201007.92 (trigger No 31638233,17h 40m 13.92s , +05d 22m 55.2s, R=0.51) errorbox 6125 sec after notice time and 6243 sec after trigger time at 2020-10-07 23:45:52 UT, with upper limit up to 18.5 mag. Observations started at twilight. The observations began at zenith distance = 52 deg. The sun altitude is -14.5 deg. The galactic latitude b = 18 deg., longitude l = 30 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1457577 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 6333 | 2020-10-07 23:45:52 | MASTER-OAFA | (17h 38m 52.42s , +04d 43m 10.7s) | C | 180 | 18.4 | 6475 | 2020-10-07 23:49:14 | MASTER-OAFA | (17h 36m 26.15s , +05d 18m 21.0s) | C | 60 | 17.9 | 6615 | 2020-10-07 23:50:34 | MASTER-OAFA | (17h 38m 57.45s , +04d 41m 32.3s) | C | 180 | 18.5 | 7063 | 2020-10-07 23:59:01 | MASTER-OAFA | (17h 36m 32.87s , +05d 19m 48.8s) | C | 60 | 17.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 201007A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28570, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: %http://observ.pereplet.ru, Lipunov et al., 2010, Advances in %Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of %San Juan National University) started inspect of the Fermi GRB %201007A (Fermi GBM team, GCN 28569) errorbox 22 sec after notice %time and 92 sec after trigger time at 2020-10-07 02:58:10 UT, with %upper limit up to 18.2 mag. The observations began at zenith %distance = 63 deg. The sun altitude is -48.3 deg.

The galactic latitude b = -12 deg., longitude l = 42 deg.

Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1457091

We obtain a following upper limits.

Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment

102 | 2020-10-07 02:58:10 | MASTER-OAFA | (19h 41m 51.88s

, +02d 16m 42.9s) | C | 20 | 17.0 |

127 | 2020-10-07 02:58:10 | MASTER-OAFA | (19h 41m 51.88s

, +02d 16m 42.9s) | C | 70 | 17.6 | Coadd

141 | 2020-10-07 02:58:49 | MASTER-OAFA | (19h 41m 51.38s

, +02d 17m 43.0s) | C | 20 | 17.1 |

186 | 2020-10-07 02:59:29 | MASTER-OAFA | (19h 41m 57.45s

, +02d 16m 44.4s) | C | 30 | 17.2 |

241 | 2020-10-07 03:00:19 | MASTER-OAFA | (19h 41m 52.34s

, +02d 15m 45.3s) | C | 40 | 17.4 |

301 | 2020-10-07 03:00:19 | MASTER-OAFA | (19h 41m 52.34s

, +02d 15m 45.4s) | C | 160 | 17.9 | Coadd

306 | 2020-10-07 03:01:18 | MASTER-OAFA | (19h 41m 58.36s

, +02d 16m 14.1s) | C | 50 | 17.5 |

385 | 2020-10-07 03:02:28 | MASTER-OAFA | (19h 41m 55.03s

, +02d 17m 35.1s) | C | 70 | 17.5 |

472 | 2020-10-07 03:04:00 | MASTER-OAFA | (19h 39m 25.87s

, +01d 16m 37.7s) | C | 60 | 17.4 |

551 | 2020-10-07 03:05:19 | MASTER-OAFA | (19h 41m 30.80s

, +03d 16m 34.9s) | C | 60 | 17.3 |

661 | 2020-10-07 03:06:39 | MASTER-OAFA | (19h 46m 32.52s

, +01d 49m 05.4s) | C | 120 | 17.7 |

826 | 2020-10-07 03:06:39 | MASTER-OAFA | (19h 46m 32.52s

, +01d 49m 05.5s) | C | 450 | 18.2 | Coadd

815 | 2020-10-07 03:08:58 | MASTER-OAFA | (19h 46m 25.19s

, +01d 48m 05.3s) | C | 150 | 17.8 |

1000 | 2020-10-07 03:11:48 | MASTER-OAFA | (19h 46m 31.54s

, +01d 48m 27.0s) | C | 180 | 17.8 |

1199 | 2020-10-07 03:15:07 | MASTER-OAFA | (19h 46m 28.53s

, +01d 49m 41.8s) | C | 180 | 17.7 | Filter C is a clear (unfiltred) band.

The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 201006.88: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28566, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Baksan Neutrino Observatory Alert 201006.88 (trigger No 1652734969,18h 52m 00.00s , -62d 12m 00.0s, R=3) errorbox 5 sec after notice time and 1130 sec after trigger time at 2020-10-06 21:21:40 UT, with upper limit up to 19.5 mag. The observations began at zenith distance = 55 deg. The sun altitude is -49.5 deg. The galactic latitude b = -24 deg., longitude l = 334 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1456934 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 1221 | 2020-10-06 21:21:40 | MASTER-SAAO | (18h 49m 33.50s , -62d 14m 22.5s) | C | 180 | 19.4 | 1221 | 2020-10-06 21:21:40 | MASTER-SAAO | (18h 47m 48.42s , -62d 14m 02.9s) | C | 180 | 19.0 | 1421 | 2020-10-06 21:25:00 | MASTER-SAAO | (18h 49m 30.58s , -62d 13m 00.5s) | C | 180 | 19.5 | 1421 | 2020-10-06 21:25:00 | MASTER-SAAO | (18h 47m 45.58s , -62d 12m 40.1s) | C | 180 | 19.2 | 1620 | 2020-10-06 21:28:19 | MASTER-SAAO | (18h 49m 29.79s , -62d 14m 33.3s) | C | 180 | 19.5 | 1620 | 2020-10-06 21:28:19 | MASTER-SAAO | (18h 47m 44.84s , -62d 14m 12.8s) | C | 180 | 19.1 | 1820 | 2020-10-06 21:31:38 | MASTER-SAAO | (18h 49m 31.41s , -62d 13m 06.4s) | C | 180 | 19.5 | 1820 | 2020-10-06 21:31:38 | MASTER-SAAO | (18h 47m 46.67s , -62d 12m 45.4s) | C | 180 | 19.2 | 1959 | 2020-10-06 21:34:58 | MASTER-SAAO | (18h 42m 06.24s , -62d 01m 33.7s) | C | 60 | 18.5 | 1959 | 2020-10-06 21:34:58 | MASTER-SAAO | (18h 40m 22.46s , -62d 01m 11.8s) | C | 60 | 18.2 | 2039 | 2020-10-06 21:36:18 | MASTER-SAAO | (18h 48m 45.71s , -64d 00m 44.9s) | C | 60 | 19.2 | 2039 | 2020-10-06 21:36:18 | MASTER-SAAO | (18h 46m 54.45s , -64d 00m 22.7s) | C | 60 | 18.8 | 2118 | 2020-10-06 21:37:37 | MASTER-SAAO | (18h 37m 36.77s , -60d 01m 30.0s) | C | 60 | 18.8 | 2118 | 2020-10-06 21:37:37 | MASTER-SAAO | (18h 35m 59.53s , -60d 01m 07.1s) | C | 60 | 18.5 | 2198 | 2020-10-06 21:38:57 | MASTER-SAAO | (19h 16m 15.07s , -62d 03m 29.6s) | C | 60 | 19.3 | 2198 | 2020-10-06 21:38:57 | MASTER-SAAO | (19h 14m 30.63s , -62d 03m 08.7s) | C | 60 | 18.9 | 2278 | 2020-10-06 21:40:17 | MASTER-SAAO | (18h 42m 10.44s , -62d 02m 18.6s) | C | 60 | 19.0 | 2278 | 2020-10-06 21:40:17 | MASTER-SAAO | (18h 40m 26.58s , -62d 01m 55.4s) | C | 60 | 18.6 | 2357 | 2020-10-06 21:41:36 | MASTER-SAAO | (18h 48m 48.84s , -64d 01m 12.8s) | C | 60 | 19.2 | 2357 | 2020-10-06 21:41:36 | MASTER-SAAO | (18h 46m 57.60s , -64d 00m 50.0s) | C | 60 | 18.8 | 2437 | 2020-10-06 21:42:56 | MASTER-SAAO | (18h 37m 32.77s , -60d 02m 06.8s) | C | 60 | 18.9 | 2437 | 2020-10-06 21:42:56 | MASTER-SAAO | (18h 35m 55.46s , -60d 01m 43.4s) | C | 60 | 18.5 | 2517 | 2020-10-06 21:44:16 | MASTER-SAAO | (19h 16m 20.20s , -62d 01m 51.9s) | C | 60 | 19.3 | 2517 | 2020-10-06 21:44:16 | MASTER-SAAO | (19h 14m 35.86s , -62d 01m 30.3s) | C | 60 | 18.9 | 2597 | 2020-10-06 21:45:36 | MASTER-SAAO | (19h 09m 34.75s , -60d 02m 23.6s) | C | 60 | 19.2 | 2597 | 2020-10-06 21:45:36 | MASTER-SAAO | (19h 07m 56.97s , -60d 02m 01.9s) | C | 60 | 18.7 | 2677 | 2020-10-06 21:46:55 | MASTER-SAAO | (18h 57m 58.80s , -66d 01m 05.7s) | C | 60 | 19.1 | 2677 | 2020-10-06 21:46:55 | MASTER-SAAO | (18h 55m 58.93s , -66d 00m 42.8s) | C | 60 | 18.8 | 2756 | 2020-10-06 21:48:15 | MASTER-SAAO | (19h 23m 35.96s , -64d 02m 25.5s) | C | 60 | 19.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB201006.05: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28559, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB201006.05 (trigger No 998907,04h 07m 31.20s , +65d 09m 00.0s, R=0.05) errorbox 66 sec after trigger time at 2020-10-06 01:18:58 UT, with upper limit up to 18.0 mag. The observations began at zenith distance = 22 deg. The sun altitude is -26.9 deg. The galactic latitude b = 10 deg., longitude l = 142 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1455690 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 71 | MASTER-Tavrida | C | 10 | 17.1 | 107 | MASTER-Tavrida | C | 20 | 17.5 | 152 | MASTER-Tavrida | C | 30 | 17.8 | 207 | MASTER-Tavrida | C | 40 | 18.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 623470566: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28558, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB201004.09 (trigger No 623470566,16h 56m 21.60s , +01d 04m 12.0s, R=8.69) errorbox 54147 sec after notice time and 54233 sec after trigger time at 2020-10-04 17:19:54 UT, with upper limit up to 19.4 mag. Observations started at twilight. The observations began at zenith distance = 51 deg. The sun altitude is -8.6 deg. The galactic latitude b = 25 deg., longitude l = 20 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1454508 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 54264 | 2020-10-04 17:19:54 | MASTER-SAAO | (16h 46m 17.74s , +00d 03m 50.3s) | C | 60 | 15.9 | 54344 | 2020-10-04 17:21:14 | MASTER-SAAO | (17h 02m 51.37s , +02d 02m 40.8s) | C | 60 | 16.8 | 54424 | 2020-10-04 17:22:34 | MASTER-SAAO | (17h 02m 17.52s , +00d 02m 51.6s) | C | 60 | 17.3 | 54503 | 2020-10-04 17:23:54 | MASTER-SAAO | (16h 46m 51.42s , +02d 04m 50.1s) | C | 60 | 17.1 | 54583 | 2020-10-04 17:25:14 | MASTER-SAAO | (16h 46m 13.15s , +00d 03m 07.9s) | C | 60 | 17.1 | 54663 | 2020-10-04 17:26:34 | MASTER-SAAO | (17h 02m 55.66s , +02d 04m 30.3s) | C | 60 | 17.4 | 54743 | 2020-10-04 17:27:54 | MASTER-SAAO | (17h 02m 10.78s , +00d 03m 33.1s) | C | 60 | 18.0 | 54823 | 2020-10-04 17:29:14 | MASTER-SAAO | (16h 48m 40.21s , +04d 05m 02.6s) | C | 60 | 17.7 | 54903 | 2020-10-04 17:30:33 | MASTER-SAAO | (17h 02m 53.47s , -01d 56m 39.2s) | C | 60 | 18.1 | 54983 | 2020-10-04 17:31:53 | MASTER-SAAO | (16h 46m 45.71s , -01d 57m 25.1s) | C | 60 | 17.8 | 55063 | 2020-10-04 17:33:13 | MASTER-SAAO | (17h 04m 50.08s , +04d 02m 54.9s) | C | 60 | 18.0 | 55142 | 2020-10-04 17:34:33 | MASTER-SAAO | (16h 48m 42.28s , +04d 04m 30.6s) | C | 60 | 18.3 | 55222 | 2020-10-04 17:35:53 | MASTER-SAAO | (17h 02m 50.14s , -01d 57m 35.0s) | C | 60 | 18.5 | 55302 | 2020-10-04 17:37:13 | MASTER-SAAO | (16h 46m 52.27s , -01d 55m 57.9s) | C | 60 | 18.3 | 55382 | 2020-10-04 17:38:33 | MASTER-SAAO | (16h 51m 46.63s , +06d 03m 55.2s) | C | 60 | 18.4 | 55462 | 2020-10-04 17:39:53 | MASTER-SAAO | (17h 04m 42.83s , +04d 04m 40.7s) | C | 60 | 18.5 | 55542 | 2020-10-04 17:41:12 | MASTER-SAAO | (16h 30m 15.68s , +00d 03m 35.7s) | C | 60 | 18.5 | 55622 | 2020-10-04 17:42:32 | MASTER-SAAO | (16h 30m 45.21s , +02d 02m 37.5s) | C | 60 | 18.6 | 55702 | 2020-10-04 17:43:52 | MASTER-SAAO | (16h 51m 52.36s , +06d 03m 08.6s) | C | 60 | 18.6 | 55781 | 2020-10-04 17:45:12 | MASTER-SAAO | (16h 32m 38.87s , +04d 04m 12.8s) | C | 60 | 18.9 | 55861 | 2020-10-04 17:46:32 | MASTER-SAAO | (16h 30m 11.73s , +00d 02m 50.8s) | C | 60 | 18.7 | 55941 | 2020-10-04 17:47:51 | MASTER-SAAO | (16h 35m 46.20s , +06d 04m 16.5s) | C | 60 | 19.0 | 56020 | 2020-10-04 17:49:11 | MASTER-SAAO | (16h 30m 44.03s , -01d 56m 46.3s) | C | 60 | 19.0 | 56100 | 2020-10-04 17:50:31 | MASTER-SAAO | (16h 48m 36.21s , -03d 55m 58.0s) | C | 60 | 19.1 | 56180 | 2020-10-04 17:51:50 | MASTER-SAAO | (17h 18m 17.17s , +00d 03m 00.2s) | C | 60 | 19.3 | 56260 | 2020-10-04 17:53:10 | MASTER-SAAO | (16h 30m 46.54s , +02d 02m 12.0s) | C | 60 | 19.0 | 56339 | 2020-10-

04 17:54:30 | MASTER-SAAO | (16h 32m 41.91s , +04d 02m 21.6s) | C | 60 | 19.4 | 56419 | 2020-10-04 17:55:49 | MASTER-SAAO | (16h 35m 42.77s , +06d 04m 06.4s) | C | 60 | 19.3 | 56499 | 2020-10-04 17:57:09 | MASTER-SAAO | (16h 30m 47.95s , -01d 57m 58.8s) | C | 60 | 19.2 | 56579 | 2020-10-04 17:58:29 | MASTER-SAAO | (16h 48m 40.58s , -03d 56m 24.2s) | C | 60 | 19.1 | 56659 | 2020-10-04 17:59:49 | MASTER-SAAO | (17h 18m 10.11s , +00d 02m 53.1s) | C | 60 | 19.3 | 56744 | 2020-10-04 18:01:14 | MASTER-SAAO | (17h 07m 50.74s , +06d 04m 15.6s) | C | 60 | 19.1 | 56823 | 2020-10-04 18:02:34 | MASTER-SAAO | (17h 04m 44.27s , -03d 57m 20.9s) | C | 60 | 19.2 | 56903 | 2020-10-04 18:03:54 | MASTER-SAAO | (16h 56m 08.22s , +08d 02m 04.4s) | C | 60 | 19.3 | 56983 | 2020-10-04 18:05:14 | MASTER-SAAO | (17h 18m 54.36s , +02d 02m 24.7s) | C | 60 | 19.3 | 57063 | 2020-10-04 18:06:33 | MASTER-SAAO | (17h 07m 53.75s , +06d 03m 44.1s) | C | 60 | 19.2 | 57142 | 2020-10-04 18:07:53 | MASTER-SAAO | (17h 04m 40.64s , -03d 58m 20.7s) | C | 60 | 19.3 | 57222 | 2020-10-04 18:09:13 | MASTER-SAAO | (16h 56m 14.32s , +08d 03m 48.9s) | C | 60 | 19.3 | 57302 | 2020-10-04 18:10:33 | MASTER-SAAO | (17h 18m 47.20s , +02d 02m 48.6s) | C | 60 | 19.3 | 57382 | 2020-10-04 18:11:53 | MASTER-SAAO | (16h 51m 41.32s , -05d 56m 39.5s) | C | 60 | 19.1 | 57462 | 2020-10-04 18:13:13 | MASTER-SAAO | (16h 32m 40.89s , -03d 57m 41.5s) | C | 60 | 19.2 | 57542 | 2020-10-04 18:14:33 | MASTER-SAAO | (17h 20m 43.05s , +04d 01m 48.0s) | C | 60 | 19.4 | 57622 | 2020-10-04 18:15:52 | MASTER-SAAO | (17h 12m 22.49s , +08d 01m 54.6s) | C | 60 | 19.1 | 57702 | 2020-10-04 18:17:12 | MASTER-SAAO | (16h 51m 44.08s , -05d 57m 01.8s) | C | 60 | 19.0 | 57781 | 2020-10-04 18:18:32 | MASTER-SAAO | (16h 32m 38.13s , -03d 58m 48.9s) | C | 60 | 19.2 | 57861 | 2020-10-04 18:19:52 | MASTER-SAAO | (17h 20m 48.59s , +04d 03m 38.1s) | C | 60 | 19.3 | 57941 | 2020-10-04 18:21:12 | MASTER-SAAO | (17h 12m 18.09s , +08d 02m 33.4s) | C | 60 | 19.1 | 58021 | 2020-10-04 18:22:32 | MASTER-SAAO | (17h 07m 46.58s , -05d 56m 58.6s) | C | 60 | 19.2 | 58101 | 2020-10-04 18:23:51 | MASTER-SAAO | (17h 18m 52.83s , -01d 57m 46.2s) | C | 60 | 19.3 | 58180 | 2020-10-04 18:25:11 | MASTER-SAAO | (16h 35m 37.60s , -05d 59m 08.0s) | C | 60 | 19.0 | 58260 | 2020-10-04 18:26:31 | MASTER-SAAO | (17h 24m 01.61s , +06d 01m 43.8s) | C | 60 | 19.2 | 58340 | 2020-10-04 18:27:51 | MASTER-SAAO | (17h 07m 49.27s , -05d 57m 19.1s) | C | 60 | 19.1 | 58420 | 2020-10-04 18:29:11 | MASTER-SAAO | (17h 18m 49.21s , -01d 58m 42.8s) | C | 60 | 19.2 | 58500 | 2020-10-04 18:30:31 | MASTER-SAAO | (16h 35m 44.59s , -05d 57m 43.6s) | C | 60 | 18.9 | 58580 | 2020-10-04 18:31:50 | MASTER-SAAO | (17h 23m 55.71s , +06d 02m 17.5s) | C | 60 | 19.0 | 58660 | 2020-10-04 18:33:10 | MASTER-SAAO | (16h 56m 03.55s , -07d 57m 21.8s) | C | 60 | 19.2 | 58740 | 2020-10-04 18:34:30 | MASTER-SAAO | (17h 20m 45.77s , -03d 58m 11.4s) | C | 60 | 19.3 | 58819 | 2020-10-04 18:35:50 | MASTER-SAAO | (16h 39m 54.86s , -07d 59m 29.6s) | C | 60 | 19.0 | 58899 | 2020-10-04 18:37:10 | MASTER-SAAO | (17h 12m 17.86s , -07d 59m 18.5s) | C | 60 | 19.2 | 58979 | 2020-10-04 18:38:30 | MASTER-SAAO | (17h 28m 29.72s , +08d 02m 40.4s) | C | 60 | 18.9 | 59059 | 2020-10-04 18:39:50 | MASTER-SAAO | (17h 34m 51.13s , +02d 01m 23.7s) | C | 60 | 18.9 | 59139 | 2020-10-04 18:41:09 | MASTER-SAAO | (17h 36m 51.03s , +04d 02m 49.4s) | C | 60 | 18.9 | 59219 | 2020-10-04 18:42:29 | MASTER-SAAO | (16h 56m 03.24s , -07d 58m 38.4s) | C | 60 | 19.2 | 59299 | 2020-10-04 18:43:49 | MASTER-SAAO | (17h 20m 40.28s , -03d 57m 27.2s) | C | 60 | 19.3 | 59379 | 2020-10-04 18:45:09 | MASTER-SAAO | (16h 40m 03.15s , -07d 58m 48.9s) | C | 60 | 19.0 | 59458 | 2020-10-04 18:46:29 | MASTER-SAAO | (17h 12m 12.67s , -07d 59m 44.0s) | C | 60 | 19.2 | 59538 | 2020-10-04 18:47:49 | MASTER-SAAO | (17h 28m 32.95s , +08d 01m 02.5s) | C | 60 | 18.8 | 59618 | 2020-10-04 18:49:09 | MASTER-SAAO | (17h 34m 51.05s , +02d 02m 40.0s) | C | 60 | 18.9 | 59698 | 2020-10-04 18:50:29 | MASTER-SAAO | (17h 36m 48.37s , +04d 00m 58.1s) | C | 60 | 18.8 | 59778 | 2020-10-04 18:51:49 | MASTER-SAAO | (17h 34m 52.15s , -01d 58m 01.1s) | C | 60 | 18.9 | 59858 | 2020-10-04 18:53:08 | MASTER-SAAO | (17h 23m 52.17s , -05d 58m 50.5s) | C | 60 | 19.1 | 59938 | 2020-10-04 18:54:28 | MASTER-SAAO | (17h 34m 09.68s , +00d 02m 24.4s) | C | 60 | 18.9 | 60097 | 2020-10-04 18:57:08 | MASTER-SAAO | (17h 34m 47.60s , -01d 59m 45.3s) | C | 60 | 18.9 | 60501 | 2020-10-04 19:03:52 | MASTER-SAAO | (17h 23m 51.72s , -05d 59m 11.5s) | C | 60 | 19.1 | 60581 | 2020-10-04 19:05:12 | MASTER-SAAO | (17h 34m 10.00s , +00d 01m 58.3s) | C | 60 | 18.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 623493962: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28556, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB201004.37 (trigger No 623493962,02h 24m 36.00s , +63d 15m 00.0s, R=7.77) errorbox 10243 sec after notice time and 10314 sec after trigger time at 2020-10-04 11:37:52 UT, with upper limit up to 18.8 mag. Observations started at twilight. The observations began at zenith distance = 51 deg. The sun altitude is -10.2 deg. The galactic latitude b = 3 deg., longitude l = 134 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1454650 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 10345 | 2020-10-04 11:37:52 | MASTER-Tunka | (02h 15m 20.01s , +63d 35m 20.1s) | C | 60 | 17.5 | 10424 | 2020-10-04 11:39:11 | MASTER-Tunka | (02h 06m 24.83s , +61d 37m 04.3s) | C | 60 | 17.6 | 10504 | 2020-10-04 11:40:31 | MASTER-Tunka | (02h 25m 58.44s , +65d 37m 08.3s) | C | 60 | 17.8 | 10583 | 2020-10-04 11:41:50 | MASTER-Tunka | (02h 40m 19.29s , +61d 37m 19.2s) | C | 60 | 17.5 | 10663 | 2020-10-04 11:43:10 | MASTER-Tunka | (02h 15m 26.22s , +63d 36m 25.7s) | C | 60 | 18.0 | 10742 | 2020-10-04 11:44:29 | MASTER-Tunka | (02h 33m 30.30s , +63d 35m 22.6s) | C | 60 | 17.9 | 10822 | 2020-10-04 11:45:49 | MASTER-Tunka | (02h 06m 28.05s , +61d 35m 35.6s) | C | 60 | 18.1 | 10901 | 2020-10-04 11:47:08 | MASTER-Tunka | (02h 23m 23.71s , +61d 37m 18.0s) | C | 60 | 18.1 | 10981 | 2020-10-04 11:48:28 | MASTER-Tunka | (02h 25m 55.34s , +65d 35m 51.9s) | C | 60 | 18.5 | 11068 | 2020-10-04 11:49:55 | MASTER-Tunka | (02h 45m 32.32s , +65d 37m 13.9s) | C | 60 | 18.4 | 11148 | 2020-10-04 11:51:15 | MASTER-Tunka | (02h 40m 19.03s , +61d 36m 28.3s) | C | 60 | 18.0 | 11227 | 2020-10-04 11:52:34 | MASTER-Tunka | (02h 57m 18.88s , +61d 37m 28.4s) | C | 60 | 18.0 | 11306 | 2020-10-04 11:53:54 | MASTER-Tunka | (02h 33m 38.61s , +63d 36m 32.7s) | C | 60 | 18.4 | 11386 | 2020-10-04 11:55:13 | MASTER-Tunka | (02h 23m 21.09s , +61d 35m 35.9s) | C | 60 | 18.4 | 11474 | 2020-10-04 11:56:41 | MASTER-Tunka | (02h 45m 33.56s , +65d 35m 34.8s) | C | 60 | 18.6 | 11553 | 2020-10-04 11:58:00 | MASTER-Tunka | (02h 57m 21.91s , +61d 37m 17.9s) | C | 60 | 17.7 | 11633 | 2020-10-04 11:59:20 | MASTER-Tunka | (02h 30m 38.04s , +59d 37m 32.4s) | C | 60 | 18.3 | 11714 | 2020-10-04 12:00:41 | MASTER-Tunka | (01h 58m 40.50s , +59d 37m 52.4s) | C | 60 | 18.5 | 11802 | 2020-10-04 12:02:10 | MASTER-Tunka | (01h 46m 43.99s , +65d 35m 57.4s) | C | 60 | 18.8 | 11890 | 2020-10-04 12:03:37 | MASTER-Tunka | (01h 39m 03.90s , +63d 37m 50.9s) | C | 60 | 18.6 | 11969 | 2020-10-04 12:04:57 | MASTER-Tunka | (02h 51m 48.79s , +63d 37m 30.7s) | C | 60 | 18.3 | 12468 | 2020-10-04 12:13:15 | MASTER-Tunka | (02h 30m 38.15s , +59d 37m 17.3s) | C | 60 | 18.2 | 12549 | 2020-10-04 12:14:36 | MASTER-Tunka | (02h 46m 30.65s , +59d 36m 12.3s) | C | 60 | 17.9 | 12628 | 2020-10-04 12:15:55 | MASTER-Tunka | (01h 58m 46.80s , +59d 36m 35.8s) | C | 60 | 18.4 | 12707 | 2020-10-04 12:17:14 | MASTER-Tunka | (02h 14m 39.72s , +59d 37m 51.8s) | C | 60 | 18.2 | 12787 | 2020-10-04 12:18:34 | MASTER-Tunka | (01h 46m 46.87s , +65d 36m 41.1s) | C | 60 | 18.7 | 12867 | 2020-10-04 12:19:54 | MASTER-Tunka | (02h 06m 25.66s , +65d 38m 14.9s) | C | 60 | 18.7 | 12947 | 2020-10-04 12:21:14 | MASTER-Tunka | (01h 39m 00.01s , +63d 37m 38.1s) | C | 60 | 18.4 | 13026 | 2020-10-04 12:22:33 | MASTER-Tunka | (01h 57m 10.98s , +63d 38m 31.0s) | C | 60 | 18.4 | 13105 | 2020-10-04 12:23:53 | MASTER-Tunka | (02h 51m 50.71s , +63d 37m 16.6s) | C | 60 | 18.1 | 13185 | 2020-10-04 12:25:12 | MASTER-Tunka | (03h 09m 54.46s , +63d 36m 16.6s) | C | 60 | 18.1 | 13336 | 2020-10-04 12:27:43 | MASTER-Tunka | (02h 14m 42.31s , +59d 38m 31.1s) | C | 60 | 18.1 | 13416 | 2020-10-04 12:29:03 | MASTER-Tunka | (02h 06m 19.51s , +65d 37m 34.8s) | C | 60 | 18.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. MASTER OT J050152.74+770406.3: bright optical counterpart of GRB 201020B // The Astronomer's Telegram, 2020, V. 14107, p. 1
AT2020xss MASTER Global Robotic Net http://observ.pereplet.ru is equipped by identical twin wide field telescope MASTER-II (2*4sq.degrees) and twin very wide field (~2*400sq.deg.) cameras MASTER-VWFC at every MASTER observatory (Lipunov et al. 2010) MASTER-Tavrida wide field robotic-telescope (Lipunov et al. GCN #28704) and very wide field cameras observed in alert mode Fermi GRB201020B(GBM GCN #28703, LAT GCN #28716) MASTER auto-detection system (Lipunov et al. 2010, Advances in Astronomy, v.2010, 30L) discovered bright MASTER OT J050152.74+770406.3 (Lipunov et al. GCN #20718) at (RA, Dec2000) = 05h 01m 52.74s +77d 04m 06.3s with m_OT=13.7 at 2020-10-20.73413 UT. We have reference image on 2020-01-02.78682 UT with unfiltered mlim=19.5m.

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-09-26 // Transient Name Server Discovery Report, 2020, V. 2020-2944, p. 1

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Vladimirov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-09-22 // Transient Name Server Discovery Report, 2020, V. 2020-2892, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-09-22 // Transient Name Server Discovery Report, 2020, V. 2020-2891, p. 1

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Vladimirov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-09-18 // Transient Name Server Discovery Report, 2020, V. 2020-2846, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-09-18 // Transient Name Server Discovery Report, 2020, V. 2020-2845, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-09-15 // Transient Name Server Discovery Report, 2020, V. 2020-2804, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-09-10 // Transient Name Server Discovery Report, 2020, V. 2020-2770, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-09-07 // Transient Name Server Discovery Report, 2020, V. 2020-2745, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-09-07 // Transient Name Server Discovery Report, 2020, V. 2020-2744, p. 1

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Tiurina, N., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-09-02 // Transient Name Server Discovery Report, 2020, V. 2020-2701, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200929.74: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28529, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) was pointed to the IceCube Alert 200929.74 (trigger No 68615710,01h 56m 11.52s , +03d 04m 51.6s, R=0.51) errorbox 2654 sec after notice time and 2722 sec after trigger time at 2020-09-29 18:33:59 UT, with upper limit up to 18.2 mag. The observations began at zenith distance = 48 deg. The sun altitude is -37.6 deg. The galactic latitude b = -55 deg., longitude l = 154 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1452099 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 2812 | 2020-09-29 18:33:59 | MASTER-Tunka | (01h 55m 20.08s , +02d 47m 06.9s) | C | 180 | 18.2 | 3547 | 2020-09-29 18:46:13 | MASTER-Tunka | (01h 55m 19.91s , +02d 46m 12.9s) | C | 180 | 18.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200929A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28527, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200929A (Fermi GBM team, GCN 28525) errorbox 45480 sec after notice time and 45547 sec after trigger time at 2020-09-29 17:32:19 UT, with upper limit up to 18.4 mag. Observations started at twilight. The observations began at zenith distance = 62 deg. The sun altitude is -11.9 deg. The galactic latitude b = 24 deg., longitude l = 326 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1450924 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 45577 | 2020-09-29 17:32:19 | MASTER-SAAO | (14h 27m 12.44s , -33d 55m 11.0s) | C | 60 | 17.9 | 45577 | 2020-09-29 17:32:19 | MASTER-SAAO | (14h 26m 11.75s , -33d 55m 20.0s) | C | 60 | 17.7 | 45657 | 2020-09-29 17:33:39 | MASTER-SAAO | (14h 28m 59.16s , -35d 56m 07.4s) | C | 60 | 18.1 | 45657 | 2020-09-29 17:33:39 | MASTER-SAAO | (14h 27m 56.97s , -35d 56m 15.7s) | C | 60 | 17.9 | 45737 | 2020-09-29 17:34:59 | MASTER-SAAO | (14h 26m 37.00s , -31d 57m 15.2s) | C | 60 | 17.9 | 45737 | 2020-09-29 17:34:59 | MASTER-SAAO | (14h 25m 37.92s , -31d 57m 22.3s) | C | 60 | 17.8 | 45816 | 2020-09-29 17:36:18 | MASTER-SAAO | (14h 31m 52.47s , -37d 57m 00.0s) | C | 60 | 18.2 | 45816 | 2020-09-29 17:36:18 | MASTER-SAAO | (14h 30m 48.73s , -37d 57m 07.2s) | C | 60 | 18.0 | 45896 | 2020-09-29 17:37:38 | MASTER-SAAO | (14h 27m 14.63s , -33d 55m 18.4s) | C | 60 | 18.2 | 45896 | 2020-09-29 17:37:38 | MASTER-SAAO | (14h 26m 14.28s , -33d 55m 24.6s) | C | 60 | 18.0 | 45976 | 2020-09-29 17:38:58 | MASTER-SAAO | (14h 28m 56.76s , -35d 56m 55.7s) | C | 60 | 18.4 | 45976 | 2020-09-29 17:38:58 | MASTER-SAAO | (14h 27m 54.81s , -35d 57m 01.7s) | C | 60 | 18.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200926.94: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28516, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the IceCube Alert 200926.94 (trigger No 41069485,12h 19m 00.00s , +32d 55m 48.0s, R=1.81) errorbox 50393 sec after notice time and 50557 sec after trigger time at 2020-09-27 12:38:06 UT, with upper limit up to 16.8 mag. Observations started at twilight. The observations began at zenith distance = 77 deg. The sun altitude is -16.9 deg. The galactic latitude b = 81 deg., longitude l = 171 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1449850 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 50647 | 2020-09-27 12:38:06 | MASTER-Tunka | (12h 35m 32.98s , +32d 25m 36.7s) | C | 180 | 12.8 | 81373 | 2020-09-27 21:11:12 | MASTER-Tunka | (12h 27m 03.60s , +33d 47m 34.1s) | C | 60 | 16.8 | 82175 | 2020-09-27 21:24:33 | MASTER-Tunka | (12h 13m 31.51s , +29d 47m 44.2s) | C | 60 | 16.7 | 82339 | 2020-09-27 21:27:18 | MASTER-Tunka | (12h 29m 10.01s , +31d 47m 54.7s) | C | 60 | 16.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200926.33: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28510, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the IceCube Alert 200926.33 (trigger No 53384881,06h 26m 17.52s , -04d 12m 18.0s, R=0.51) errorbox 59270 sec after notice time and 59334 sec after trigger time at 2020-09-27 00:23:06 UT, with upper limit up to 16.9 mag. The observations began at zenith distance = 66 deg. The sun altitude is -33.5 deg. The galactic latitude b = -7 deg., longitude l = 214 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1449387 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 59424 | 2020-09-27 00:23:06 | MASTER-Tavrida | (06h 25m 45.93s , -04d 10m 21.3s) | C | 180 | 14.1 | 59604 | 2020-09-27 00:23:06 | MASTER-Tavrida | (06h 25m 45.95s , -04d 10m 21.5s) | C | 540 | 16.9 | Coadd 59625 | 2020-09-27 00:26:26 | MASTER-Tavrida | (06h 25m 53.40s , -04d 11m 23.8s) | C | 180 | 16.4 | 59826 | 2020-09-27 00:29:47 | MASTER-Tavrida | (06h 25m 46.55s , -04d 12m 25.1s) | C | 180 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200925B: Global MASTER-Net OT detection // GRB Coordinates Network, 2020, V. 28502, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB200925A (trigger No 997453,16h 27m 24.24s , +78d 23m 38.4s, R=0.05) errorbox 14 sec after notice time and 58 sec after trigger time at 2020-09-25 21:51:35 UT, with upper limit up to 18.4 mag. The observations began at zenith distance = 53 deg. The sun altitude is -47.0 deg. On our 4-th (40s exposure) set , obtained 229 sec after tigger time at 2020-09-25 21:54:16 UT, we found an optical transient within Swift error-box (ra=246.851 dec=+78.394 r=0.05). T-Tmid Date Time Expt. Ra Dec Mag ---------|---------------------|-------|-----------------|-----------------|----- 229 2020-09-25 21:54:16 40 (246.7866 d, +78.3896 d) 17.9 The OT position in within enhanced XRT position (GCN 28500) and is coincident with OSN afterglow candidate position (A. de Ugarte Postigo et al, GCN 28501) The 5-sigma upper limit has been about 18.4 mag The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200925.91: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28498, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB200925.91 (trigger No 997453,16h 27m 24.24s , +78d 23m 38.4s, R=0.05) errorbox 14 sec after notice time and 58 sec after trigger time at 2020-09-25 21:51:35 UT, with upper limit up to 17.9 mag. The observations began at zenith distance = 53 deg. The sun altitude is -47.0 deg. The galactic latitude b = 34 deg., longitude l = 112 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1449109 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 64 | MASTER-Tavrida | C | 10 | 17.1 | 99 | MASTER-Tavrida | C | 20 | 17.9 | 139 | MASTER-Tavrida | C | 20 | 17.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200925A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28497, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB 200925A (Fermi GBM team, GCN 28496) errorbox 108 sec after notice time and 146 sec after trigger time at 2020-09-25 14:40:29 UT, with upper limit up to 18.2 mag. The observations began at zenith distance = 80 deg. The sun altitude is -32.2 deg. The galactic latitude b = 8 deg., longitude l = 181 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1448925 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 162 | 2020-09-25 14:40:29 | MASTER-Tunka | (05h 49m 18.34s , +33d 03m 21.2s) | P| | 30 | 15.6 | 216 | 2020-09-25 14:41:19 | MASTER-Tunka | (05h 49m 25.59s , +33d 02m 22.8s) | P| | 40 | 15.8 | 281 | 2020-09-25 14:42:18 | MASTER-Tunka | (05h 49m 18.49s , +33d 01m 25.3s) | P| | 50 | 16.0 | 356 | 2020-09-25 14:43:28 | MASTER-Tunka | (05h 49m 24.92s , +33d 01m 42.2s) | P| | 60 | 16.1 | 625 | 2020-09-25 14:47:57 | MASTER-Tunka | (05h 41m 20.99s , +33d 40m 09.3s) | C | 60 | 17.2 | 704 | 2020-09-25 14:49:16 | MASTER-Tunka | (05h 49m 54.30s , +35d 40m 14.4s) | C | 60 | 17.6 | 944 | 2020-09-25 14:53:17 | MASTER-Tunka | (06h 00m 43.95s , +33d 40m 25.8s) | C | 60 | 17.5 | 1266 | 2020-09-25 14:58:38 | MASTER-Tunka | (05h 40m 01.57s , +35d 39m 22.7s) | C | 60 | 17.8 | 1427 | 2020-09-25 15:01:19 | MASTER-Tunka | (05h 49m 05.70s , +37d 40m 29.4s) | C | 60 | 17.8 | 1589 | 2020-09-25 15:04:01 | MASTER-Tunka | (05h 52m 36.69s , +31d 39m 53.6s) | C | 60 | 17.0 | 1668 | 2020-09-25 15:05:21 | MASTER-Tunka | (05h 45m 13.96s , +29d 40m 30.4s) | C | 60 | 17.2 | 1831 | 2020-09-25 15:08:03 | MASTER-Tunka | (05h 40m 02.08s , +35d 40m 32.1s) | C | 60 | 17.9 | 1910 | 2020-09-25 15:09:22 | MASTER-Tunka | (05h 49m 06.27s , +37d 39m 39.3s) | C | 60 | 17.7 | 2073 | 2020-09-25 15:12:06 | MASTER-Tunka | (05h 59m 14.54s , +37d 40m 05.8s) | C | 60 | 17.9 | 2238 | 2020-09-25 15:14:50 | MASTER-Tunka | (06h 09m 35.88s , +35d 40m 57.4s) | C | 60 | 17.8 | 2401 | 2020-09-25 15:17:33 | MASTER-Tunka | (05h 59m 12.36s , +37d 40m 10.1s) | C | 60 | 18.0 | 2481 | 2020-09-25 15:18:53 | MASTER-Tunka | (06h 09m 24.29s , +37d 41m 53.7s) | C | 60 | 17.9 | 2565 | 2020-09-25 15:20:17 | MASTER-Tunka | (06h 11m 28.89s , +31d 41m 50.1s) | C | 60 | 17.4 | 2724 | 2020-09-25 15:22:56 | MASTER-Tunka | (06h 03m 48.95s , +29d 41m 01.2s) | C | 60 | 16.8 | 2803 | 2020-09-25 15:24:15 | MASTER-Tunka | (06h 09m 18.37s , +37d 40m 08.5s) | C | 60 | 17.9 | 3047 | 2020-09-25 15:28:19 | MASTER-Tunka | (05h 56m 50.08s , +27d 40m 30.9s) | C | 60 | 17.1 | 3126 | 2020-09-25 15:29:39 | MASTER-Tunka | (05h 59m 04.82s , +39d 41m 53.6s) | C | 60 | 18.2 | 3368 | 2020-09-25 15:33:40 | MASTER-Tunka | (06h 20m 00.76s , +33d 40m 39.0s) | C | 60 | 17.7 | 3447 | 2020-09-25 15:34:59 | MASTER-Tunka | (05h 59m 07.43s , +39d 42m 15.0s) | C | 60 | 18.2 | 5109 | 2020-09-25 16:02:41 | MASTER-Tunka | (06h 09m 35.35s , +39d 41m 25.8s) | C | 60 | 15.3 | 5191 | 2020-09-25 16:04:03 | MASTER-Tunka | (06h 19m 31.73s , +37d 41m 19.3s) | C | 60 | 13.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200924A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28494, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200924A (Fermi GBM team, GCN 28489) errorbox 60129 sec after notice time and 60192 sec after trigger time at 2020-09-25 01:58:33 UT, with upper limit up to 15.3 mag. The observations began at zenith distance = 27 deg. The sun altitude is -42.6 deg. The galactic latitude b = -42 deg., longitude l = 340 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1448070 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 60223 | 2020-09-25 01:58:33 | MASTER-OAFA | (20h 49m 51.22s , -56d 45m 39.8s) | C | 60 | 14.1 | 60302 | 2020-09-25 01:59:52 | MASTER-OAFA | (20h 58m 38.41s , -58d 46m 15.3s) | C | 60 | 14.4 | 60382 | 2020-09-25 02:01:12 | MASTER-OAFA | (21h 18m 29.02s , -56d 46m 11.2s) | C | 60 | 14.7 | 60461 | 2020-09-25 02:02:32 | MASTER-OAFA | (21h 10m 38.64s , -54d 48m 00.6s) | C | 60 | 14.4 | 60541 | 2020-09-25 02:03:51 | MASTER-OAFA | (20h 49m 54.34s , -56d 47m 10.7s) | C | 60 | 14.0 | 60620 | 2020-09-25 02:05:11 | MASTER-OAFA | (21h 04m 11.26s , -56d 45m 59.3s) | C | 60 | 14.3 | 60700 | 2020-09-25 02:06:30 | MASTER-OAFA | (20h 58m 35.48s , -58d 47m 45.6s) | C | 60 | 14.2 | 60779 | 2020-09-25 02:07:50 | MASTER-OAFA | (21h 13m 45.91s , -58d 46m 14.1s) | C | 60 | 14.4 | 60859 | 2020-09-25 02:09:09 | MASTER-OAFA | (21h 18m 29.63s , -56d 47m 10.6s) | C | 60 | 14.5 | 60938 | 2020-09-25 02:10:29 | MASTER-OAFA | (21h 32m 50.07s , -56d 46m 25.7s) | C | 60 | 14.9 | 61018 | 2020-09-25 02:11:48 | MASTER-OAFA | (20h 43m 22.03s , -54d 47m 26.8s) | C | 60 | 14.1 | 61098 | 2020-09-25 02:13:08 | MASTER-OAFA | (21h 09m 59.77s , -60d 46m 15.1s) | C | 60 | 14.4 | 61177 | 2020-09-25 02:14:28 | MASTER-OAFA | (21h 10m 42.46s , -54d 47m 36.9s) | C | 60 | 14.5 | 61257 | 2020-09-25 02:15:47 | MASTER-OAFA | (21h 24m 24.41s , -54d 46m 37.7s) | C | 60 | 14.9 | 61337 | 2020-09-25 02:17:07 | MASTER-OAFA | (21h 04m 07.90s , -56d 46m 53.8s) | C |

60 | 14.8 | 61416 | 2020-09-25 02:18:27 | MASTER-OAFA | (21h 13m 40.79s , -58d 46m 06.5s) | C | 60 | 15.3 | 61496 | 2020-09-25 02:19:46 | MASTER-OAFA | (21h 32m 54.91s , -56d 47m 24.9s) | C | 60 | 15.0 | 61775 | 2020-09-25 02:24:25 | MASTER-OAFA | (20h 43m 28.21s , -54d 47m 10.1s) | C | 60 | 14.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 622618714: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28491, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB200924.24 (trigger No 622618714,21h 19m 40.80s , +08d 42m 36.0s, R=4.88) errorbox 8518 sec after notice time and 23051 sec after trigger time at 2020-09-24 12:02:40 UT, with upper limit up to 17.5 mag. Observations started at twilight. The observations began at zenith distance = 50 deg. The sun altitude is -10.5 deg. The galactic latitude b = -28 deg., longitude l = 61 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1448090 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 23081 | 2020-09-24 12:02:40 | MASTER-Tunka | (21h 11m 28.70s , +07d 41m 38.3s) | C | 60 | 17.3 | 23161 | 2020-09-24 12:04:00 | MASTER-Tunka | (21h 18m 35.74s , +09d 43m 06.5s) | C | 60 | 17.3 | 23242 | 2020-09-24 12:05:21 | MASTER-Tunka | (21h 27m 43.45s , +07d 42m 37.0s) | C | 60 | 17.0 | 23321 | 2020-09-24 12:06:40 | MASTER-Tunka | (21h 10m 55.24s , +11d 43m 34.6s) | C | 60 | 17.4 | 23400 | 2020-09-24 12:07:59 | MASTER-Tunka | (21h 22m 05.64s , +05d 41m 19.1s) | C | 60 | 17.5 | 23480 | 2020-09-24 12:09:19 | MASTER-Tunka | (21h 11m 34.72s , +07d 41m 42.3s) | C | 60 | 17.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200923A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28488, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200923A (Fermi GBM team, GCN 28486) errorbox 19833 sec after notice time and 19860 sec after trigger time at 2020-09-23 23:28:43 UT, with upper limit up to 15.7 mag. Observations started at twilight. The observations began at zenith distance = 81 deg. The sun altitude is -13.0 deg. The galactic latitude b = -9 deg., longitude l = 270 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1447664 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 19890 | 2020-09-23 23:28:43 | MASTER-OAFA | (08h 21m 14.47s , -67d 19m 15.6s) | C | 60 | 13.2 | 20169 | 2020-09-23 23:33:22 | MASTER-OAFA | (09h 03m 53.41s , -67d 17m 40.0s) | C | 60 | 14.5 | 20735 | 2020-09-23 23:42:48 | MASTER-OAFA | (08h 42m 35.32s , -67d 19m 14.3s) | C | 60 | 14.5 | 30169 | 2020-09-24 02:20:02 | MASTER-OAFA | (07h 41m 44.86s , -66d 39m 20.2s) | C | 60 | 15.7 | 30466 | 2020-09-24 02:24:59 | MASTER-OAFA | (07h 08m 15.95s , -63d 18m 27.3s) | C | 60 | 15.2 | 30832 | 2020-09-24 02:31:06 | MASTER-OAFA | (07h 41m 46.93s , -65d 17m 08.2s) | C | 60 | 14.3 | 30926 | 2020-09-24 02:32:39 | MASTER-OAFA | (08h 01m 22.93s , -66d 39m 47.6s) | C | 60 | 14.4 | 31019 | 2020-09-24 02:34:12 | MASTER-OAFA | (07h 08m 22.08s , -63d 18m 00.7s) | C | 60 | 14.1 | 31110 | 2020-09-24 02:35:43 | MASTER-OAFA | (07h 26m 40.63s , -64d 38m 46.6s) | C | 60 | 13.0 | 31766 | 2020-09-24 02:46:39 | MASTER-OAFA | (08h 01m 25.36s , -65d 17m 24.8s) | C | 60 | 14.0 | 31858 | 2020-09-24 02:48:12 | MASTER-OAFA | (07h 26m 40.84s , -64d 38m 47.1s) | C | 60 | 14.4 | 31954 | 2020-09-24 02:49:47 | MASTER-OAFA | (06h 56m 51.23s , -61d 17m 48.9s) | C | 60 | 13.6 | 32451 | 2020-09-24 02:58:04 | MASTER-OAFA | (07h 44m 51.93s , -64d 39m 59.0s) | C | 60 | 13.6 | 32544 | 2020-09-24 02:59:38 | MASTER-OAFA | (07h 13m 52.80s , -61d 15m 49.9s) | C | 60 | 13.4 | 32646 | 2020-09-24 03:01:19 | MASTER-OAFA | (08h 21m 06.58s , -66d 37m 21.4s) | C | 60 | 13.8 | 32742 | 2020-09-24 03:02:55 | MASTER-OAFA | (06h 54m 21.05s , -57d 15m 33.1s) | C | 60 | 12.9 | 32836 | 2020-09-24 03:04:29 | MASTER-OAFA | (07h 44m 58.07s , -64d 38m 59.6s) | C | 60 | 14.9 | 32934 | 2020-09-24 03:06:07 | MASTER-OAFA | (08h 02m 56.16s , -63d 17m 01.2s) | C | 60 | 13.7 | 33030 | 2020-09-24 03:07:43 | MASTER-OAFA | (07h 14m 07.48s , -62d 40m 29.8s) | C | 60 | 15.4 | 33122 | 2020-09-24 03:09:15 | MASTER-OAFA | (07h 30m 53.96s , -61d 15m 34.1s) | C | 60 | 14.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200921.80: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28487, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) was pointed to the IceCube Alert 200921.80 (trigger No 71996695,13h 00m 47.28s , +26d 25m 48.0s, R=0.51) errorbox 1 days 64942 sec after notice time and 1 days 65023 sec after trigger time at 2020-09-23 13:10:56 UT, with upper limit up to 17.4 mag. The observations began at zenith distance = 80 deg. The sun altitude is -20.2 deg. The galactic latitude b = 87 deg., longitude l = 13 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1445930 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 151514 | 2020-09-23 13:10:56 | MASTER-Tunka | (13h 01m 31.51s , +26d 37m 02.0s) | C | 180 | 17.1 | 151713 | 2020-09-23 13:14:15 | MASTER-Tunka | (13h 01m 36.54s , +26d 35m 50.5s) | C | 180 | 17.1 | 151913 | 2020-09-23 13:17:35 | MASTER-Tunka | (13h 01m 30.54s , +26d 34m 42.7s) | C | 180 | 17.4 | 152112 | 2020-09-23 13:20:54 | MASTER-Tunka | (13h 01m 36.71s , +26d 34m 39.1s) | C | 180 | 17.4 | 152311 | 2020-09-23 13:24:14 | MASTER-Tunka | (13h 01m 33.97s , +26d 36m 08.7s) | C | 180 | 16.9 | 152511 | 2020-09-23 13:27:33 | MASTER-Tunka | (13h 01m 34.00s , +26d 34m 54.3s) | C | 180 | 17.0 | 152710 | 2020-09-23 13:30:53 | MASTER-Tunka | (13h 01m 37.00s , +26d 35m 54.6s) | C | 180 | 16.9 | 152910 | 2020-09-23 13:34:12 | MASTER-Tunka | (13h 01m 31.81s , +26d 35m 18.6s) | C | 180 | 16.7 | 153109 | 2020-09-23 13:37:31 | MASTER-Tunka | (13h 01m 31.93s , +26d 36m 14.7s) | C | 180 | 16.5 | 153308 | 2020-09-23 13:40:51 | MASTER-Tunka | (13h 01m 38.44s , +26d 35m 09.0s) | C | 180 | 16.5 | 153508 | 2020-09-23 13:44:10 | MASTER-Tunka | (13h 01m 32.31s , +26d 34m 02.6s) | C | 180 | 16.4 | 153707 | 2020-09-23 13:47:30 | MASTER-Tunka | (13h 01m 38.05s , +26d 34m 17.3s) | C | 180 | 15.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200922B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28479, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200922B (Fermi GBM team, GCN 28474) errorbox 21798 sec after notice time and 21839 sec after trigger time at 2020-09-23 00:08:23 UT, with upper limit up to 18.4 mag. The observations began at zenith distance = 68 deg. The sun altitude is -34.4 deg. The galactic latitude b = 41 deg., longitude l = 199 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1446888 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 21870 | 2020-09-23 00:08:23 | MASTER-Tavrida | (08h 36m 30.75s , +34d 09m 50.2s) | C | 60 | 16.6 | 23399 | 2020-09-23 00:33:53 | MASTER-Tavrida | (08h 36m 23.42s , +34d 10m 38.4s) | C | 60 | 17.2 | 23479 | 2020-09-23 00:35:13 | MASTER-Tavrida | (08h 46m 03.52s , +34d 11m 46.5s) | C | 60 | 17.3 | 24445 | 2020-09-23 00:51:19 | MASTER-Tavrida | (08h 46m 05.47s , +34d 11m 44.6s) | C | 60 | 17.3 | 24928 | 2020-09-23 00:59:22 | MASTER-Tavrida | (08h 22m 53.43s , +28d 10m 32.3s) | C | 60 | 17.5 | 25090 | 2020-09-23 01:02:04 | MASTER-Tavrida | (08h 31m 56.63s , +26d 09m 57.6s) | C | 60 | 17.3 | 25412 | 2020-09-23 01:07:26 | MASTER-Tavrida | (08h 33m 24.20s , +22d 09m 32.1s) | C | 60 | 15.9 | 25574 | 2020-09-23 01:10:08 | MASTER-Tavrida | (08h 41m 12.35s , +24d 11m 36.8s) | C | 60 | 16.7 | 26138 | 2020-09-23 01:19:31 | MASTER-Tavrida | (08h 32m 21.69s , +24d 10m 00.1s) | C | 60 | 17.7 | 26218 | 2020-09-23 01:20:52 | MASTER-Tavrida | (08h 22m 58.97s , +28d 11m 40.2s) | C | 60 | 17.6 | 26299 | 2020-09-23 01:22:12 | MASTER-Tavrida | (08h 31m 57.34s , +28d 10m 57.1s) | C | 60 | 17.5 | 26540 | 2020-09-23 01:26:14 | MASTER-Tavrida | (08h 31m 49.14s , +26d 09m 56.2s) | C | 60 | 17.8 | 26620 | 2020-09-23 01:27:34 | MASTER-Tavrida | (08h 40m 50.75s , +26d 10m 29.9s) | C | 60 | 17.5 | 27023 | 2020-09-23 01:34:17 | MASTER-Tavrida | (08h 33m 22.71s , +22d 11m 58.5s) | C | 60 | 17.6 | 27103 | 2020-09-23 01:35:37 | MASTER-Tavrida | (08h 42m 06.53s , +22d 11m 02.7s) | C | 60 | 17.6 | 27345 | 2020-09-23 01:39:38 | MASTER-Tavrida | (08h 41m 06.24s , +24d 11m 41.3s) | C | 60 | 17.7 | 27425 | 2020-09-23 01:40:59 | MASTER-Tavrida | (08h 49m 52.69s , +24d 10m 39.1s) | C | 60 | 17.5 | 27747 | 2020-09-23 01:46:21 | MASTER-Tavrida | (08h 32m 23.48s , +24d 11m 10.4s) | C | 60 | 18.1 | 27828 | 2020-09-23 01:47:41 | MASTER-Tavrida | (08h 31m 55.23s , +28d 10m 16.6s) | C | 60 | 17.7 | 27989 | 2020-09-23 01:50:22 | MASTER-Tavrida | (08h 40m 45.11s , +26d 12m 11.2s) | C | 60 | 17.7 | 28557 | 2020-09-23 01:59:51 | MASTER-Tavrida | (08h 41m 55.78s , +22d 12m 24.1s) | C | 60 | 18.0 | 28718 | 2020-09-23

02:02:32 | MASTER-Tavrida | (08h 49m 45.23s , +24d 10m 33.2s) | C | 60 | 17.9 | 28799 | 2020-09-23 02:03:52 | MASTER-Tavrida | (08h 32m 38.80s , +30d 12m 09.9s) | C | 60 | 18.4 | 28960 | 2020-09-23 02:06:33 | MASTER-Tavrida | (08h 40m 53.70s , +28d 12m 34.6s) | C | 60 | 18.2 | 29281 | 2020-09-23 02:11:55 | MASTER-Tavrida | (08h 32m 35.75s , +30d 11m 37.1s) | C | 60 | 18.3 | 29362 | 2020-09-23 02:13:16 | MASTER-Tavrida | (08h 41m 51.02s , +30d 12m 44.8s) | C | 60 | 18.4 | 29603 | 2020-09-23 02:17:17 | MASTER-Tavrida | (08h 41m 00.02s , +28d 11m 02.3s) | C | 60 | 18.1 | 29684 | 2020-09-23 02:18:37 | MASTER-Tavrida | (08h 50m 01.33s , +28d 12m 31.5s) | C | 60 | 18.1 | 29845 | 2020-09-23 02:21:18 | MASTER-Tavrida | (08h 34m 06.10s , +32d 12m 22.7s) | C | 60 | 18.1 | 30246 | 2020-09-23 02:28:00 | MASTER-Tavrida | (08h 41m 55.45s , +30d 11m 23.4s) | C | 60 | 17.9 | 30407 | 2020-09-23 02:30:41 | MASTER-Tavrida | (08h 50m 00.34s , +28d 11m 00.9s) | C | 60 | 17.7 | 30488 | 2020-09-23 02:32:02 | MASTER-Tavrida | (08h 34m 05.77s , +32d 12m 41.2s) | C | 60 | 17.5 | 30971 | 2020-09-23 02:40:04 | MASTER-Tavrida | (08h 49m 29.25s , +26d 13m 02.7s) | C | 60 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200922A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28477, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB 200922A (M. J. Moss et al., GCN 28471) errorbox 37015 sec after notice time and 37039 sec after trigger time at 2020-09-22 22:24:05 UT, with upper limit up to 20.5 mag. The observations began at zenith distance = 48 deg. The sun altitude is -57.9 deg. The galactic latitude b = -30 deg., longitude l = 343 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1446564 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 37129 | MASTER-SAAO | C | 180 | 20.5 | 37129 | MASTER-SAAO | C | 180 | 20.4 | 37329 | MASTER-SAAO | C | 180 | 20.5 | 37329 | MASTER-SAAO | C | 180 | 20.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200919C: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28462, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200919C (Fermi GBM team, GCN 28461) errorbox 92 sec after notice time and 120 sec after trigger time at 2020-09-19 23:10:23 UT, with upper limit up to 17.6 mag. Observations started at twilight. The observations began at zenith distance = 9 deg. The sun altitude is -9.6 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200919C errorbox 119 sec after notice time and 147 sec after trigger time at 2020-09-19 23:10:50 UT, with upper limit up to 14.2 mag. The observations began at zenith distance = 80 deg. The sun altitude is -57.8 deg. The galactic latitude b = -3 deg., longitude l = 8 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1444890 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 131 | 2020-09-19 23:10:23 | MASTER-OAFA | (18h 19m 08.51s , -22d 37m 56.3s) | C | 20 | 15.9 | 162 | 2020-09-19 23:10:50 | MASTER-SAAO | (18h 19m 36.27s , -22d 32m 15.4s) | C | 30 | 12.7 | 175 | 2020-09-19 23:11:02 | MASTER-OAFA | (18h 15m 37.21s , -23d 14m 33.1s) | C | 30 | 16.2 | 220 | 2020-09-19 23:11:02 | MASTER-OAFA | (18h 15m 37.22s , -23d 14m 33.0s) | C | 120 | 16.7 | Coadd 217 | 2020-09-19 23:11:39 | MASTER-SAAO | (18h 19m 42.17s , -22d 33m 13.2s) | C | 40 | 14.2 | 230 | 2020-09-19 23:11:52 | MASTER-OAFA | (18h 15m 40.83s , -23d 12m 39.1s) | C | 40 | 16.3 | 281 | 2020-09-19 23:12:38 | MASTER-SAAO | (18h 19m 37.00s , -22d 34m 10.9s) | C | 50 | 13.8 | 294 | 2020-09-19 23:12:51 | MASTER-OAFA | (18h 15m 33.60s , -23d 13m 34.7s) | C | 50 | 16.5 | 356 | 2020-09-19 23:13:48 | MASTER-SAAO | (18h 19m 41.80s , -22d 33m 51.0s) | C | 60 | 13.8 | 374 | 2020-09-19 23:14:01 | MASTER-OAFA | (18h 15m 34.31s , -23d 12m 34.4s) | C | 70 | 16.6 | 464 | 2020-09-19 23:14:01 | MASTER-OAFA | (18h 15m 34.30s , -23d 12m 34.4s) | C | 250 | 17.0 | Coadd 445 | 2020-09-19 23:15:08 | MASTER-SAAO | (18h 19m 38.75s , -22d 32m 04.7s) | C | 80 | 12.7 | 469 | 2020-09-19 23:15:31 | MASTER-OAFA | (18h 15m 40.04s , -23d 13m 34.7s) | C | 80 | 16.8 | 555 | 2020-09-19 23:16:47 | MASTER-SAAO | (18h 19m 38.69s , -22d 33m 57.1s) | C | 100 | 13.6 | 578 | 2020-09-19 23:17:10 | MASTER-OAFA | (18h 15m 33.16s , -23d 14m 34.6s) | C | 100 | 16.9 | 685 | 2020-09-19 23:18:47 | MASTER-SAAO | (18h 16m 01.39s , -23d 13m 46.8s) | C | 120 | 12.1 | 712 | 2020-09-19 23:19:10 | MASTER-OAFA | (18h 11m 58.22s , -23d 56m 21.3s) | C | 130 | 17.3 | 882 | 2020-09-19 23:19:10 | MASTER-OAFA | (18h 11m 58.22s , -23d 56m 21.3s) | C | 470 | 17.5 | Coadd 839 | 2020-09-19 23:21:06 | MASTER-SAAO | (18h 15m 54.46s , -23d 14m 35.1s) | C | 150 | 12.5 | 877 | 2020-09-19 23:21:39 | MASTER-OAFA | (18h 11m 55.67s , -23d 54m 35.7s) | C | 160 | 17.4 | 1024 | 2020-09-19 23:23:56 | MASTER-SAAO | (18h 15m 53.68s , -23d 13m 25.4s) | C | 180 | 12.3 | 1066 | 2020-09-19 23:24:39 | MASTER-OAFA | (18h 11m 55.63s , -23d 56m 13.8s) | C | 180 | 17.5 | 1266 | 2020-09-19 23:27:58 | MASTER-OAFA | (18h 11m 58.50s , -23d 54m 40.9s) | C | 180 | 17.6 | 1465 | 2020-09-19 23:31:18 | MASTER-OAFA | (18h 11m 52.71s , -23d 55m 31.2s) | C | 180 | 17.5 | 1665 | 2020-09-19 23:34:37 | MASTER-OAFA | (18h 11m 51.61s , -23d 54m 31.9s) | C | 180 | 17.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200919B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28459, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200919B (Fermi GBM team, GCN 28457) errorbox 11193 sec after notice time and 11243 sec after trigger time at 2020-09-19 16:46:14 UT, with upper limit up to 17.3 mag. Observations started at twilight. The observations began at zenith distance = 79 deg. The sun altitude is -11.6 deg. The galactic latitude b = -15 deg., longitude l = 158 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1444610 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 11273 | 2020-09-19 16:46:14 | MASTER-Tavrida | (02h 52m 32.33s , +40d 01m 18.7s) | C | 60 | 16.2 | 11434 | 2020-09-19 16:48:55 | MASTER-Tavrida | (02h 57m 52.35s , +42d 00m 59.1s) | C | 60 | 16.3 | 11837 | 2020-09-19 16:55:37 | MASTER-Tavrida | (02h 52m 28.23s , +40d 02m 15.8s) | C | 60 | 17.0 | 11917 | 2020-09-19 16:56:58 | MASTER-Tavrida | (02h 57m 53.34s , +42d 01m 29.4s) | C | 60 | 16.8 | 12159 | 2020-09-19 17:01:00 | MASTER-Tavrida | (02h 57m 49.58s , +38d 00m 39.2s) | C | 60 | 16.9 | 12321 | 2020-09-19 17:03:41 | MASTER-Tavrida | (03h 02m 58.94s , +40d 01m 29.9s) | C | 60 | 17.2 | 12482 | 2020-09-19 17:06:22 | MASTER-Tavrida | (02h 57m 49.81s , +38d 01m 47.5s) | C | 60 | 17.0 | 12562 | 2020-09-19 17:07:43 | MASTER-Tavrida | (03h 07m 57.80s , +38d 00m 41.9s) | C | 60 | 16.8 | 12905 | 2020-09-19 17:13:25 | MASTER-Tavrida | (03h 03m 02.43s , +40d 01m 29.2s) | C | 60 | 17.3 | 12985 | 2020-09-19 17:14:46 | MASTER-Tavrida | (03h 13m 21.88s , +40d 00m 43.2s) | C | 60 | 17.1 | 13227 | 2020-09-19 17:18:47 | MASTER-Tavrida | (03h 08m 01.60s , +38d 00m 30.1s) | C | 60 | 17.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. GRB 200916B: MASTER optical observation // GRB Coordinates Network, 2020, V. 28456, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of short GRB200916B (Ridnaia et al. GCN 28440) errorbox 85399s after notice time (2 days 6634s after trigger time) at 2020-09-18 17:32:03 UT, with upper limit to 19.4 mag. The observations began at zenith distance = 45 deg. The sun altitude was -13.4 deg. The galactic latitude b = -60 deg., longitude l = 98 deg. Real time updated cover map: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11529 We obtained following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 179525 | 2020-09-18 17:32:03 | MASTER-SAAO | (15h 02m 46.17s , -37d 57m 43.2s) | C | 180 | 19.4 | 180925 | 2020-09-18 17:55:23 | MASTER-SAAO | (14h 49m 20.69s , -39d 56m 18.2s) | C | 180 | 19.3 | 181124 | 2020-09-18 17:58:43 | MASTER-SAAO | (14h 49m 16.07s , -39d 57m 17.9s) | C | 180 | 19.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200919.08: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28455, p. 1

MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB200919.08 (trigger No 996503,11h 15m 39.84s , +32d 27m 25.2s, R=0.05) errorbox 15 sec after notice time and 83 sec after trigger time at 2020-09-19 01:53:44 UT, with upper limit up to 17.1 mag. The observations began at zenith distance = 79 deg. The sun altitude is -17.1 deg. The galactic latitude b = 69 deg., longitude l = 193 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1444350 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 93 | MASTER-Tavrida | C | 20 | 16.3 | 118 | MASTER-Tavrida | C | 70 | 16.9 | Coadd 134 | MASTER-Tavrida | C | 20 | 16.3 | 179 | MASTER-Tavrida | C | 30 | 16.3 | 235 | MASTER-Tavrida | C | 40 | 16.8 | 300 | MASTER-Tavrida | C | 50 | 16.9 | 381 | MASTER-Tavrida | C | 70 | 17.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200917A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28442, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB 200917A (E. Sonbas et al., GCN 28435) errorbox 46136 sec after notice time and 46245 sec after trigger time at 2020-09-17 16:43:13 UT, with upper limit up to 15.9 mag. Observations started at twilight. The observations began at zenith distance = 64 deg. The sun altitude is -10.4 deg. The galactic latitude b = 37 deg., longitude l = 2 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1443272 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 46335 | MASTER-Tavrida | C | 180 | 15.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200916.86: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28437, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the IceCube Alert 200916.86 (trigger No 12605830,07h 17m 36.48s , +14d 20m 56.4s, R=0.66) errorbox 39362 sec after notice time and 39399 sec after trigger time at 2020-09-17 07:37:10 UT, with upper limit up to 17.6 mag. The observations began at zenith distance = 78 deg. The sun altitude is -37.2 deg. The galactic latitude b = 13 deg., longitude l = 203 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1443110 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 39490 | 2020-09-17 07:37:10 | MASTER-OAFA | (07h 16m 11.12s , +13d 40m 52.7s) | C | 180 | 17.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200916A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28432, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200916A (Fermi GBM team, GCN 28431) errorbox 40 sec after notice time and 52 sec after trigger time at 2020-09-16 19:29:32 UT, with upper limit up to 17.7 mag. The observations began at zenith distance = 82 deg. The sun altitude is -37.6 deg. The galactic latitude b = -54 deg., longitude l = 179 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1443073 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 58 | 2020-09-16 19:29:32 | MASTER-SAAO | (02h 12m 36.56s , -05d 40m 53.8s) | C | 10 | 16.7 | 93 | 2020-09-16 19:30:02 | MASTER-SAAO | (02h 12m 42.52s , -05d 40m 30.0s) | C | 20 | 17.5 | 132 | 2020-09-16 19:30:42 | MASTER-SAAO | (02h 12m 39.48s , -05d 39m 05.4s) | C | 20 | 17.5 | 177 | 2020-09-16 19:31:21 | MASTER-SAAO | (02h 12m 39.15s , -05d 40m 39.6s) | C | 30 | 17.7 | 231 | 2020-09-16 19:32:11 | MASTER-SAAO | (02h 12m 42.72s , -05d 39m 20.7s) | C | 40 | 17.7 | 296 | 2020-09-16 19:33:10 | MASTER-SAAO | (02h 12m 35.54s , -05d 39m 57.2s) | C | 50 | 16.5 | 375 | 2020-09-16 19:34:20 | MASTER-SAAO | (02h 14m 44.42s , -05d 38m 54.0s) | C | 70 | 17.0 | 1734 | 2020-09-16 19:56:04 | MASTER-SAAO | (02h 14m 46.30s , -05d 00m 42.7s) | C | 180 | 17.5 | 1934 | 2020-09-16 19:59:23 | MASTER-SAAO | (02h 14m 56.05s , -05d 01m 39.7s) | C | 180 | 16.1 | 2134 | 2020-09-16 20:02:43 | MASTER-SAAO | (02h 22m 52.09s , -05d 02m 38.3s) | C | 180 | 16.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 621893860: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28430, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200915.85 (trigger No 621893860,10h 15m 00.00s , +25d 08m 24.0s, R=59.02) errorbox 24216 sec after notice time and 24248 sec after trigger time at 2020-09-16 03:01:43 UT, with upper limit up to 18.2 mag. The observations began at zenith distance = 68 deg. The sun altitude is -20.8 deg. The galactic latitude b = 56 deg., longitude l = 208 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1442250 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 24339 | 2020-09-16 03:01:43 | MASTER-SAAO | (08h 30m 07.24s , -03d 57m 39.6s) | B | 180 | 18.2 | 24339 | 2020-09-16 03:01:43 | MASTER-SAAO | (08h 30m 58.49s , -03d 57m 44.5s) | V | 180 | 17.3 | 24538 | 2020-09-16 03:05:03 | MASTER-SAAO | (08h 30m 11.23s , -03d 57m 26.0s) | C | 180 | 17.8 | 24538 | 2020-09-16 03:05:03 | MASTER-SAAO | (08h 31m 02.42s , -03d 57m 31.1s) | C | 180 | 18.2 | 25310 | 2020-09-16 03:17:54 | MASTER-SAAO | (08h 30m 07.20s , -03d 57m 43.0s) | B | 180 | 17.0 | 25310 | 2020-09-16 03:17:54 | MASTER-SAAO | (08h 31m 02.17s , -03d 57m 38.2s) | V | 180 | 16.7 | 25509 | 2020-09-16 03:21:14 | MASTER-SAAO | (08h 30m 03.34s , -03d 56m 07.5s) | C | 180 | 16.8 | 25509 | 2020-09-16 03:21:14 | MASTER-SAAO | (08h 30m 58.35s , -03d 56m 16.8s) | C | 180 | 17.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 621833240: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28429, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB200915.14 (trigger No 621833240,23h 38m 38.40s , +34d 57m 00.0s, R=16.65) errorbox 22698 sec after notice time and 68655 sec after trigger time at 2020-09-15 22:31:31 UT, with upper limit up to 19.7 mag. The observations began at zenith distance = 4 deg. The sun altitude is -41.8 deg. The galactic latitude b = -25 deg., longitude l = 107 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1441980 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 68746 | 2020-09-15 22:31:31 | MASTER-Tavrida | (00h 42m 37.75s , +41d 16m 10.4s) | C | 180 | 19.7 | 68947 | 2020-09-15 22:34:52 | MASTER-Tavrida | (00h 42m 31.61s , +41d 15m 37.9s) | C | 180 | 19.7 | 69148 | 2020-09-15 22:38:12 | MASTER-Tavrida | (00h 42m 32.43s , +41d 16m 35.5s) | C | 180 | 19.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Integral GRB200914.53: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28428, p. 1

MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the Integral GRB200914.53 (trigger No 8711,16h 57m 59.03s , -36d 18m 59.5s, R=0.0495) errorbox 38109 sec after notice time and 38209 sec after trigger time at 2020-09-14 23:25:20 UT, with upper limit up to 18.1 mag. Observations started at twilight. The observations began at zenith distance = 20 deg. The sun altitude is -13.4 deg. The galactic latitude b = 3 deg., longitude l = 349 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1440713 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 38300 | MASTER-OAFA | C | 180 | 17.7 | 38480 | MASTER-OAFA | C | 540 | 18.0 | Coadd 39110 | MASTER-OAFA | C | 1800 | 18.1 | Coadd 38499 | MASTER-OAFA | C | 180 | 17.9 | 38698 | MASTER-OAFA | C | 180 | 17.9 | 38898 | MASTER-OAFA | C | 180 | 17.9 | 39078 | MASTER-OAFA | C | 540 | 18.1 | Coadd 39098 | MASTER-OAFA | C | 180 | 18.0 | 39298 | MASTER-OAFA | C | 180 | 17.9 | 39497 | MASTER-OAFA | C | 180 | 18.0 | 39677 | MASTER-OAFA | C | 540 | 18.1 | Coadd 39697 | MASTER-OAFA | C | 180 | 17.9 | 39896 | MASTER-OAFA | C | 180 | 17.9 | 40096 | MASTER-OAFA | C | 180 | 18.0 | 40276 | MASTER-OAFA | C | 540 | 18.1 | Coadd 40295 | MASTER-OAFA | C | 180 | 18.0 | 40494 | MASTER-OAFA | C | 180 | 18.0 | 40694 | MASTER-OAFA | C | 180 | 18.0 | 40874 | MASTER-OAFA | C | 540 | 18.1 | Coadd 40893 | MASTER-OAFA | C | 180 | 18.0 | 41093 | MASTER-OAFA | C | 180 | 18.0 | 41292 | MASTER-OAFA | C | 180 | 18.0 | 41472 | MASTER-OAFA | C | 540 | 18.1 | Coadd 41492 | MASTER-OAFA | C | 180 | 18.0 | 41691 | MASTER-OAFA | C | 180 | 18.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200914A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28427, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200914A (Fermi GBM team, GCN 28417) errorbox 38039 sec after notice time and 38210 sec after trigger time at 2020-09-14 23:25:20 UT, with upper limit up to 18.1 mag. Observations started at twilight. The observations began at zenith distance = 20 deg. The sun altitude is -13.4 deg. The galactic latitude b = 2 deg., longitude l = 348 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1440752 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 38301 | 2020-09-14 23:25:20 | MASTER-OAFA | (16h 56m 29.13s , -36d 56m 30.6s) | C | 180 | 17.7 | 38481 | 2020-09-14 23:25:20 | MASTER-OAFA | (16h 56m 29.13s , -36d 56m 30.6s) | C | 540 | 18.0 | Coadd 39111 | 2020-09-14 23:25:20 | MASTER-OAFA | (16h 56m 29.13s , -36d 56m 30.6s) | C | 1800 | 18.1 | Coadd 38500 | 2020-09-14 23:28:40 | MASTER-OAFA | (16h 56m 34.98s , -36d 57m 34.1s) | C | 180 | 17.9 | 38700 | 2020-09-14 23:31:59 | MASTER-OAFA | (16h 56m 29.91s , -36d 58m 36.1s) | C | 180 | 17.9 | 38899 | 2020-09-14 23:35:19 | MASTER-OAFA | (16h 56m 34.57s , -36d 58m 21.9s) | C | 180 | 17.9 | 39079 | 2020-09-14 23:35:19 | MASTER-OAFA | (16h 56m 34.57s , -36d 58m 22.0s) | C | 540 | 18.1 | Coadd 39099 | 2020-09-14 23:38:39 | MASTER-OAFA | (16h 56m 32.35s , -36d 57m 01.7s) | C | 180 | 18.0 | 39299 | 2020-09-14 23:41:58 | MASTER-OAFA | (16h 56m 32.25s , -36d 58m 28.7s) | C | 180 | 17.9 | 39498 | 2020-09-14 23:45:18 | MASTER-OAFA | (16h 56m 35.42s , -36d 56m 54.9s) | C | 180 | 18.0 | 39678 | 2020-09-14 23:45:18 | MASTER-OAFA | (16h 56m 35.42s , -36d 56m 54.9s) | C | 540 | 18.1 | Coadd 39698 | 2020-09-14 23:48:37 | MASTER-OAFA | (16h 56m 29.19s , -36d 57m 42.1s) | C | 180 | 17.9 | 39897 | 2020-09-14 23:51:57 | MASTER-OAFA | (16h 56m 28.00s , -36d 56m 42.3s) | C | 180 | 17.9 | 40097 | 2020-09-14 23:55:16 | MASTER-OAFA | (16h 56m 35.44s , -36d 57m 43.0s) | C | 180 | 18.0 | 40277 | 2020-09-14 23:55:16 | MASTER-OAFA | (16h 56m 35.44s , -36d 57m 43.0s) | C | 540 | 18.1 | Coadd 40296 | 2020-09-14 23:58:36 | MASTER-OAFA | (16h 56m 27.73s , -36d 58m 42.5s) | C | 180 | 18.0 | 40495 | 2020-09-15 00:01:55 | MASTER-OAFA | (16h 56m 34.80s , -36d 58m 34.5s) | C | 180 | 18.0 | 40695 | 2020-09-15 00:05:15 | MASTER-OAFA | (16h 56m 31.42s , -36d 56m 51.9s) | C | 180 | 18.0 | 40875 | 2020-09-15 00:05:15 | MASTER-OAFA | (16h 56m 31.42s , -36d 56m 51.9s) | C | 540 | 18.1 | Coadd 40894 | 2020-09-15 00:08:34 | MASTER-OAFA | (16h 56m 31.25s , -36d 58m 30.5s) | C | 180 | 18.0 | 41094 | 2020-09-15 00:11:53 | MASTER-OAFA | (16h 56m 33.29s , -36d 56m 54.6s) | C | 180 | 18.0 | 41293 | 2020-09-15 00:15:13 | MASTER-OAFA | (16h 56m 27.73s , -36d 57m 44.2s) | C | 180 | 18.0 | 41473 | 2020-09-15 00:15:13 | MASTER-OAFA | (16h 56m 27.73s , -36d 57m 44.2s) | C | 540 | 18.1 | Coadd 41493 | 2020-09-15 00:18:32 | MASTER-OAFA | (16h 56m 26.87s , -36d 56m 44.4s) | C | 180 | 18.0 | 41692 | 2020-09-15 00:21:52 | MASTER-OAFA | (16h 56m 34.63s , -36d 57m 44.6s) | C | 180 | 18.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200914.00: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28423, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the IceCube Alert 200914.00 (trigger No 12345,03h 24m 26.40s , +38d 06m 36.0s, R=5) errorbox 29612 sec after trigger time at 2020-09-14 08:13:32 UT, with upper limit up to 19.5 mag. The observations began at zenith distance = 67 deg. The sun altitude is -30.7 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the IceCube Alert 200914.00 errorbox 68324 sec after trigger time at 2020-09-14 18:58:44 UT, with upper limit up to 19.6 mag. The observations began at zenith distance = 71 deg. The sun altitude is -30.9 deg. The galactic latitude b = -15 deg., longitude l = 154 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1440983 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 29703 | 2020-09-14 08:13:32 | MASTER-OAFA | (03h 06m 32.08s , +36d 13m 39.1s) | C | 180 | 19.4 | 29902 | 2020-09-14 08:16:52 | MASTER-OAFA | (03h 06m 32.13s , +36d 14m 41.8s) | C | 180 | 19.4 | 30102 | 2020-09-14 08:20:11 | MASTER-OAFA | (03h 06m 36.75s , +38d 13m 42.6s) | C | 180 | 19.0 | 30301 | 2020-09-14 08:23:31 | MASTER-OAFA | (03h 06m 31.97s , +38d 12m 42.9s) | C | 180 | 19.0 | 30501 | 2020-09-14 08:26:50 | MASTER-OAFA | (03h 18m 37.73s , +38d 13m 29.2s) | C | 180 | 19.1 | 30700 | 2020-09-14 08:30:10 | MASTER-OAFA | (03h 18m 33.98s , +38d 14m 44.5s) | C | 180 | 19.1 | 30900 | 2020-09-14 08:33:29 | MASTER-OAFA | (03h 30m 33.35s , +38d 13m 23.5s) | C | 180 | 19.4 | 31099 | 2020-09-14 08:36:49 | MASTER-OAFA | (03h 30m 36.61s , +38d 15m 12.0s) | C | 180 | 19.3 | 31299 | 2020-09-14 08:40:08 | MASTER-OAFA | (03h 42m 28.90s , +38d 14m 32.2s) | C | 180 | 19.2 | 31498 | 2020-09-14 08:43:28 | MASTER-OAFA | (03h 42m 29.11s , +38d 15m 32.7s) | C | 180 | 19.2 | 31698 | 2020-09-14 08:46:47 | MASTER-OAFA | (03h 42m 37.55s , +36d 14m 34.3s) | C | 180 | 19.3 | 31897 | 2020-09-14 08:50:07 | MASTER-OAFA | (03h 42m 31.65s , +36d 13m 34.3s) | C | 180 | 19.2 | 32097 | 2020-09-14 08:53:27 | MASTER-OAFA | (03h 32m 39.50s , +33d 43m 34.9s) | C | 180 | 19.5 | 32296 | 2020-09-14 08:56:46 | MASTER-OAFA | (03h 32m 36.52s , +33d 45m 12.3s) | C | 180 | 19.5 | 32496 | 2020-09-14 09:00:06 | MASTER-OAFA | (03h 42m 36.15s , +33d 43m 54.5s) | C | 180 | 19.4 | 32954 | 2020-09-14 09:07:43 | MASTER-OAFA | (03h 42m 32.06s , +33d 44m 30.9s) | C | 180 | 19.3 | 33153 | 2020-09-14 09:11:03 | MASTER-OAFA | (03h 22m 32.72s , +33d 45m 07.6s) | C | 180 | 19.5 | 33352 | 2020-09-14 09:14:22 | MASTER-OAFA | (03h 22m 39.27s , +33d 44m 08.8s) | C | 180 | 19.5 | 33552 | 2020-09-14 09:17:41 | MASTER-OAFA | (03h 12m 34.54s , +33d 42m 57.1s) | C | 180 | 19.5 | 33751 | 2020-09-14 09:21:00 | MASTER-OAFA | (03h 12m 38.93s , +33d 43m 13.6s) | C | 180 | 19.5 | 33950 | 2020-09-14 09:24:20 | MASTER-OAFA | (02h 58m 36.76s , +33d 44m 30.0s) | C | 180 | 19.4 | 34149 | 2020-09-14 09:27:39 | MASTER-OAFA | (02h 58m 36.65s , +33d 43m 00.0s) | C | 180 | 19.3 | 34349 | 2020-09-14 09:30:59 | MASTER-OAFA | (02h 58m 39.57s , +33d 44m 17.4s) | C | 180 | 19.2 | 34549 | 2020-09-14 09:34:18 | MASTER-OAFA | (02h 58m 32.65s , +33d 43m 41.6s) | C | 180 | 19.1 | 68414 | 2020-09-14 18:58:44 | MASTER-Tavrida | (03h 30m 20.68s , +37d 46m 49.0s) | C | 180 | 18.2 | 68615 | 2020-09-14 19:02:05 | MASTER-Tavrida | (03h 30m 14.00s , +37d 45m 44.6s) | C | 180 | 18.6 | 68795 | 2020-09-14 19:02:05 | MASTER-Tavrida | (03h 30m 13.99s , +37d 45m 44.6s) | C | 540 | 19.4 | Coadd 68816 | 2020-09-14 19:05:26 | MASTER-Tavrida | (03h 30m 14.53s , +37d 46m 41.7s) | C | 180 | 18.6 | 69017 | 2020-09-14 19:08:47 | MASTER-Tavrida | (03h 30m 20.07s , +37d 45m 40.5s) | C | 180 | 18.6 | 69218 | 2020-09-14 19:12:07 | MASTER-Tavrida | (03h 30m 14.80s , +37d 44m 40.1s) | C | 180 | 18.6 | 69398 | 2020-09-14 19:12:07 | MASTER-Tavrida | (03h 30m 14.80s , +37d 44m 40.0s) | C | 540 | 19.2 | Coadd 69419 | 2020-09-14 19:15:28 | MASTER-Tavrida | (03h 30m 20.94s , +37d 44m 58.0s) | C | 180 | 18.5 | 69620 | 2020-09-14 19:18:49 | MASTER-Tavrida | (03h 30m 17.48s , +37d 46m 28.9s) | C | 180 | 18.5 | 69821 | 2020-09-14 19:22:10 | MASTER-Tavrida | (03h 30m 17.30s , +37d 44m 52.9s) | C | 180 | 18.6 | 70021 | 2020-09-14 19:25:31 | MASTER-Tavrida | (03h 30m 20.24s , +37d 46m 28.0s) | C | 180 | 18.7 | 74314 | 2020-09-14 20:36:49 | MASTER-Tavrida | (03h 29m 52.43s , +37d 47m 09.7s) | C | 210 | 19.3 | 74635 | 2020-09-14 20:42:09 | MASTER-Tavrida | (03h 29m 51.76s , +37d 45m 06.1s) | C | 210 | 19.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200911.60: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28414, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the IceCube Alert 200911.60 (trigger No 27754576,02h 48m 40.80s , +38d 07m 58.8s, R=0.54)

errorbox 24990 sec after notice time and 25033 sec after trigger time at 2020-09-11 21:17:00 UT, with upper limit up to 19.1 mag. The observations began at zenith distance = 43 deg. The sun altitude is -41.5 deg. The galactic latitude b = -19 deg., longitude l = 147 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1438587 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 25124 | 2020-09-11 21:17:00 | MASTER-Tavrida | (02h 48m 45.05s , +38d 09m 31.6s) | C | 180 | 19.1 | 25533 | 2020-09-11 21:23:49 | MASTER-Tavrida | (02h 48m 41.01s , +38d 11m 42.3s) | C | 180 | 19.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200909.97: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28407, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the Swift GRB200909.97 (trigger No 995288,11h 40m 42.24s , -31d 10m 44.4s, R=0.05) errorbox 28 sec after notice time and 49 sec after trigger time at 2020-09-09 23:18:00 UT, with upper limit up to 15.9 mag. Observations started at twilight. The observations began at zenith distance = 79 deg. The sun altitude is -12.4 deg. The galactic latitude b = 29 deg., longitude l = 286 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1437483 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 55 | MASTER-OAFA | C | 10 | 15.0 | 84 | MASTER-OAFA | C | 10 | 15.0 | 122 | MASTER-OAFA | C | 20 | 15.3 | 166 | MASTER-OAFA | C | 30 | 15.5 | 220 | MASTER-OAFA | C | 40 | 15.7 | 285 | MASTER-OAFA | C | 50 | 15.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200909A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28403, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200909A (Fermi GBM team, GCN 28401) errorbox 43 sec after notice time and 54 sec after trigger time at 2020-09-09 04:02:16 UT, with upper limit up to 15.4 mag. Observations started at twilight. The observations began at zenith distance = 78 deg. The sun altitude is -10.0 deg. MASTER-OAFA robotic telescope located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200909A errorbox 78 sec after notice time and 89 sec after trigger time at 2020-09-09 04:02:51 UT, with upper limit up to 17.2 mag. The observations began at zenith distance = 11 deg. The sun altitude is -63.4 deg. The galactic latitude b = -57 deg., longitude l = 46 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1436974 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 59 | 2020-09-09 04:02:16 | MASTER-SAAO | (22h 42m 59.37s , -19d 50m 01.9s) | C | 10 | 15.1 | 94 | 2020-09-09 04:02:45 | MASTER-SAAO | (22h 42m 55.65s , -19d 48m 15.1s) | C | 20 | 15.4 | 99 | 2020-09-09 04:02:51 | MASTER-OAFA | (22h 39m 23.38s , -20d 28m 57.0s) | C | 20 | 13.1 | 143 | 2020-09-09 04:03:30 | MASTER-SAAO | (22h 42m 55.72s , -19d 49m 40.7s) | C | 30 | 14.6 | 139 | 2020-09-09 04:03:31 | MASTER-OAFA | (22h 39m 22.97s , -20d 27m 57.2s) | C | 20 | 12.1 | 183 | 2020-09-09 04:04:10 | MASTER-OAFA | (22h 39m 28.01s , -20d 28m 57.3s) | C | 30 | 13.2 | 193 | 2020-09-09 04:04:20 | MASTER-SAAO | (22h 42m 58.41s , -19d 48m 30.9s) | C | 30 | 15.2 | 238 | 2020-09-09 04:05:00 | MASTER-OAFA | (22h 39m 21.89s , -20d 29m 57.9s) | C | 40 | 13.7 | 302 | 2020-09-09 04:05:59 | MASTER-OAFA | (22h 39m 28.76s , -20d 29m 34.4s) | C | 50 | 14.5 | 382 | 2020-09-09 04:07:08 | MASTER-OAFA | (22h 39m 25.88s , -20d 28m 22.2s) | C | 70 | 15.0 | 466 | 2020-09-09 04:08:38 | MASTER-OAFA | (22h 36m 37.57s , -20d 46m 37.4s) | C | 60 | 15.6 | 545 | 2020-09-09 04:09:57 | MASTER-OAFA | (22h 37m 07.72s , -18d 46m 33.2s) | C | 60 | 16.0 | 655 | 2020-09-09 04:11:17 | MASTER-OAFA | (22h 34m 10.35s , -17d 03m 07.9s) | C | 120 | 16.6 | 809 | 2020-09-09 04:13:36 | MASTER-OAFA | (22h 34m 04.21s , -17d 04m 09.3s) | C | 150 | 16.6 | 994 | 2020-09-09 04:16:26 | MASTER-OAFA | (22h 34m 09.95s , -17d 04m 09.0s) | C | 180 | 17.2 | 1193 | 2020-09-09 04:19:45 | MASTER-OAFA | (22h 34m 07.04s , -17d 02m 18.3s) | C | 180 | 16.5 | 1592 | 2020-09-09 04:26:24 | MASTER-OAFA | (22h 47m 32.69s , -18d 34m 44.7s) | C | 180 | 17.0 | 1792 | 2020-09-09 04:29:44 | MASTER-OAFA | (22h 47m 25.82s , -18d 35m 41.9s) | C | 180 | 16.4 | 1991 | 2020-09-09 04:33:03 | MASTER-OAFA | (22h 47m 26.51s , -18d 34m 43.0s) | C | 180 | 15.0 | 2191 | 2020-09-09 04:36:23 | MASTER-OAFA | (22h 47m 32.60s , -18d 35m 44.5s) | C | 180 | 16.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200908A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28399, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200908A (Fermi GBM team, GCN 28396) errorbox 8 sec after notice time and 65 sec after trigger time at 2020-09-08 21:16:47 UT, with upper limit up to 18.3 mag. The observations began at zenith distance = 81 deg. The sun altitude is -57.5 deg. The galactic latitude b = -6 deg., longitude l = 294 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1436605 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 71 | 2020-09-08 21:16:47 | MASTER-SAAO | (11h 55m 12.24s , -63d 29m 16.0s) | C | 10 | 16.0 | 71 | 2020-09-08 21:16:47 | MASTER-SAAO | (12h 11m 02.18s , -63d 28m 35.7s) | C | 10 | 16.7 | 105 | 2020-09-08 21:17:16 | MASTER-SAAO | (11h 55m 19.60s , -63d 30m 11.7s) | C | 20 | 16.3 | 105 | 2020-09-08 21:17:16 | MASTER-SAAO | (12h 11m 09.55s , -63d 29m 32.8s) | C | 20 | 17.0 | 150 | 2020-09-08 21:17:56 | MASTER-SAAO | (11h 55m 13.14s , -63d 31m 08.5s) | C | 30 | 16.5 | 150 | 2020-09-08 21:17:56 | MASTER-SAAO | (12h 11m 03.27s , -63d 30m 31.0s) | C | 30 | 17.2 | 204 | 2020-09-08 21:18:45 | MASTER-SAAO | (11h 55m 18.92s , -63d 30m 41.6s) | C | 40 | 16.5 | 204 | 2020-09-08 21:18:45 | MASTER-SAAO | (12h 11m 08.42s , -63d 30m 05.5s) | C | 40 | 17.3 | 269 | 2020-09-08 21:19:45 | MASTER-SAAO | (11h 55m 17.05s , -63d 29m 11.6s) | C | 50 | 16.5 | 269 | 2020-09-08 21:19:45 | MASTER-SAAO | (12h 11m 05.54s , -63d 28m 38.1s) | C | 50 | 17.3 | 343 | 2020-09-08 21:20:54 | MASTER-SAAO | (11h 55m 16.70s , -63d 30m 42.2s) | C | 60 | 16.7 | 343 | 2020-09-08 21:20:54 | MASTER-SAAO | (12h 11m 05.96s , -63d 30m 09.1s) | C | 60 | 17.4 | 423 | 2020-09-08 21:22:14 | MASTER-SAAO | (11h 53m 28.22s , -71d 52m 51.2s) | C | 60 | 18.0 | 423 | 2020-09-08 21:22:14 | MASTER-SAAO | (12h 16m 10.18s , -71d 51m 50.2s) | C | 60 | 18.3 | 513 | 2020-09-08 21:23:44 | MASTER-SAAO | (13h 02m 08.68s , -69d 51m 59.6s) | C | 60 | 17.7 | 593 | 2020-09-08 21:25:04 | MASTER-SAAO | (13h 05m 00.17s , -71d 49m 42.8s) | C | 60 | 17.8 | 593 | 2020-09-08 21:25:04 | MASTER-SAAO | (12h 42m 20.79s , -71d 50m 07.4s) | C | 60 | 18.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200907B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28392, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB 200907B (A. P. Beardmore et al., GCN 28384) errorbox 22142 sec after notice time and 22169 sec after trigger time at 2020-09-08 01:00:40 UT, with upper limit up to 17.6 mag. The observations began at zenith distance = 59 deg. The sun altitude is -23.0 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB 200907B errorbox 22375 sec after notice time and 22402 sec after trigger time at 2020-09-08 01:04:33 UT, with upper limit up to 15.9 mag. The observations began at zenith distance = 73 deg. The sun altitude is -46.6 deg. The galactic latitude b = -8 deg., longitude l = 201 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1435309 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 22260 | MASTER-Tavrida | C | 180 | 17.3 | 22461 | MASTER-Tavrida | C | 180 | 17.6 | 22493 | MASTER-SAAO | C | 180 | 15.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200907C: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28390, p. 1

MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200907C (Fermi GBM team, GCN 28389) errorbox 69 sec after trigger time at 2020-09-07 22:58:37 UT, with upper limit up to 18.5 mag. Observations started at twilight. The observations began at zenith distance = 67 deg. The sun altitude is -8.5 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200907C errorbox 109 sec after notice time and 211 sec after trigger time at 2020-09-07 23:00:59 UT, with upper limit up to 20.3 mag. The observations began at zenith distance = 48 deg. The sun altitude is -63.1 deg. The galactic latitude b = -38 deg., longitude l = 297 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1435444 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 74 | 2020-09-07 22:58:37 | MASTER-OAFA | (01h 55m 11.92s , -77d 24m 44.7s) | C | 10 | 15.8 | 179 | 2020-09-07 23:00:12 | MASTER-OAFA | (01h 55m 35.91s , -76d 03m 45.6s) | C | 30 | 16.8 | 231 | 2020-09-07 23:00:59 | MASTER-SAAO | (02h 03m 44.94s , -77d 08m 12.6s) | C | 40 | 19.3 | 231 | 2020-09-07 23:00:59 | MASTER-SAAO | (02h 35m 28.31s , -77d 06m 11.2s) | C | 40 | 19.5 | 255 | 2020-09-07 23:01:18 | MASTER-OAFA | (02h 17m 07.16s , -77d 51m 43.1s) | C | 50 | 16.2 | 296 | 2020-09-07 23:01:59 | MASTER-SAAO | (02h 03m 51.69s , -77d 09m 14.7s) | C | 50 | 19.5 | 296 | 2020-09-07 23:01:59 | MASTER-SAAO | (02h 35m 37.20s , -77d 07m 12.5s) | C | 50 | 19.6 | 342 | 2020-09-07 23:02:39 | MASTER-OAFA | (02h 17m 29.35s , -76d 30m 31.9s) | C | 60 | 17.1 | 375 | 2020-09-07 23:03:08 | MASTER-SAAO | (02h 03m 45.07s , -77d 10m 17.2s) | C | 70 | 19.6 | 375 | 2020-09-07 23:03:08 | MASTER-SAAO | (02h 35m 32.76s , -77d 08m 14.1s) | C | 70 | 19.7 | 441 | 2020-09-07 23:04:09 | MASTER-OAFA | (02h 17m 11.19s , -77d 52m 09.7s) | C | 80 | 16.9 | 486 | 2020-09-07 23:04:48 | MASTER-SAAO | (02h 32m 06.95s , -77d 06m 18.4s) | C | 90 | 19.7 | 486 | 2020-09-07 23:04:48 | MASTER-SAAO | (02h 00m 23.44s , -77d 06m 45.2s) | C | 90 | 19.7 | 563 | 2020-09-07 23:06:00 | MASTER-OAFA | (02h 17m 26.50s , -76d 29m 44.2s) | C | 100 | 17.6 | 605 | 2020-09-07 23:06:38 | MASTER-SAAO | (02h 32m 02.21s , -77d 04m 44.4s) | C | 110 | 19.9 | 605 | 2020-09-07 23:06:38 | MASTER-SAAO | (02h 00m 23.10s , -77d 05m 11.5s) | C | 110 | 19.9 | 707 | 2020-09-07 23:08:09 | MASTER-OAFA | (02h 17m 47.88s , -79d 11m 04.3s) | C | 130 | 17.1 | 745 | 2020-09-07 23:08:47 | MASTER-SAAO | (02h 34m 29.36s , -78d 25m 33.1s) | C | 130 | 20.1 | 745 | 2020-09-07 23:08:47 | MASTER-SAAO | (01h 59m 12.63s , -78d 25m 58.6s) | C | 130 | 20.1 | 884 | 2020-09-07 23:10:51 | MASTER-OAFA | (02h 18m 18.57s , -77d 48m 52.0s) | C | 160 | 18.0 | 909 | 2020-09-07 23:11:17 | MASTER-SAAO | (02h 34m 30.87s , -78d 23m 59.1s) | C | 160 | 20.1 | 909 | 2020-09-07 23:11:17 | MASTER-SAAO | (01h 59m 18.43s , -78d 24m 25.3s) | C | 160 | 20.3 | 1083 | 2020-09-07 23:14:00 | MASTER-OAFA | (02h 17m 49.90s , -79d 12m 59.2s) | C | 180 | 17.8 | 1099 | 2020-09-07 23:14:16 | MASTER-SAAO | (02h 34m 26.50s , -78d 24m 41.3s) | C | 180 | 20.2 | 1099 | 2020-09-07 23:14:16 | MASTER-SAAO | (01h 59m 11.69s , -78d 25m 08.0s) | C | 180 | 20.2 | 1298 | 2020-09-07 23:17:35 | MASTER-OAFA | (02h 18m 17.36s , -77d 49m 41.9s) | C | 180 | 18.5 | 1298 | 2020-09-07 23:17:36 | MASTER-SAAO | (02h 34m 25.02s , -78d 23m 39.5s) | C | 180 | 20.3 | 1298 | 2020-09-07 23:17:36 | MASTER-SAAO | (01h 59m 13.37s , -78d 24m 06.7s) | C | 180 | 20.3 | 1498 | 2020-09-07 23:20:55 | MASTER-SAAO | (02h 34m 32.62s , -78d 24m 37.4s) | C | 180 | 20.2 | 1498 | 2020-09-07 23:20:55 | MASTER-SAAO | (01h 59m 18.34s , -78d 25m 04.9s) | C | 180 | 20.3 | 1512 | 2020-09-07 23:21:09 | MASTER-OAFA | (02h 17m 54.08s , -79d 11m 10.8s) | C | 180 | 18.5 | 1697 | 2020-09-07 23:24:15 | MASTER-SAAO | (02h 34m 27.96s , -78d 25m 35.1s) | C | 180 | 20.3 | 1697 | 2020-09-07 23:24:15 | MASTER-SAAO | (01h 59m 10.75s , -78d 26m 03.2s) | C | 180 | 20.2 | 1728 | 2020-09-07 23:24:46 | MASTER-OAFA | (02h 18m 14.46s , -77d 49m 22.9s) | C | 180 | 18.5 | 1842 | 2020-09-07 23:27:40 | MASTER-SAAO | (02h 25m 47.29s , -76d 02m 26.8s) | C | 60 | 19.5 | 1842 | 2020-09-07 23:27:40 | MASTER-SAAO | (01h 56m 26.65s , -76d 02m 58.5s) | C | 60 | 19.6 | 1922 | 2020-09-07 23:28:59 | MASTER-SAAO | (02h 49m 55.80s , -78d 00m 43.0s) | C | 60 | 19.5 | 1922 | 2020-09-07 23:28:59 | MASTER-SAAO | (02h 15m 51.06s , -78d 01m 13.2s) | C | 60 | 19.7 | 2081 | 2020-09-07 23:31:39 | MASTER-SAAO | (01h 32m 21.36s , -78d 01m 20.6s) | C | 60 | 19.5 | 2641 | 2020-09-07 23:40:58 | MASTER-SAAO | (02h 25m 38.90s , -76d 02m 34.7s) | C | 60 | 19.5 | 2641 | 2020-09-07 23:40:58 | MASTER-SAAO | (01h 56m 17.85s , -76d 03m 08.1s) | C | 60 | 19.7 | 2721 | 2020-09-07 23:42:18 | MASTER-SAAO | (02h 49m 56.97s , -78d 01m 56.9s) | C | 60 | 19.6 | 2721 | 2020-09-07 23:42:18 | MASTER-SAAO | (02h 15m 48.99s , -78d 02m 29.5s) | C | 60 | 19.7 | 2880 | 2020-09-07 23:44:58 | MASTER-SAAO | (01h 32m 19.62s , -78d 03m 03.1s) | C | 60 | 19.5 | 2960 | 2020-09-07 23:46:17 | MASTER-SAAO | (01h 50m 56.24s , -80d 01m 02.0s) | C | 60 | 19.5 | 3130 | 2020-09-07 23:49:07 | MASTER-SAAO | (02h 47m 32.47s , -80d 03m 50.6s) | C | 60 | 19.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200906A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28386, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200906A (Fermi GBM team, GCN 28370) errorbox 1 days 28040 sec after notice time and 1 days 28073 sec after trigger time at 2020-09-07 20:59:46 UT, with upper limit up to 18.7 mag. The observations began at zenith distance = 41 deg. The sun altitude is -39.4 deg. The galactic latitude b = 30 deg., longitude l = 99 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1434684 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 114563 | 2020-09-07 20:59:46 | MASTER-Tavrida | (18h 06m 25.68s , +67d 46m 47.4s) | C | 180 | 18.6 | 114764 | 2020-09-07 21:03:07 | MASTER-Tavrida | (18h 06m 28.97s , +67d 47m 45.3s) | C | 180 | 18.7 | 114965 | 2020-09-07 21:06:28 | MASTER-Tavrida | (18h 06m 23.16s , +67d 46m 55.2s) | C | 180 | 18.6 | 115166 | 2020-09-07 21:09:49 | MASTER-Tavrida | (18h 06m 25.23s , +67d 47m 41.8s) | C | 180 | 18.7 | 115366 | 2020-09-07 21:13:09 | MASTER-Tavrida | (18h 06m 30.87s , +67d 46m 28.9s) | C | 180 | 18.7 | 115567 | 2020-09-07 21:16:30 | MASTER-Tavrida | (18h 06m 25.58s , +67d 45m 15.3s) | C | 180 | 18.6 | 115769 | 2020-09-07 21:19:52 | MASTER-Tavrida | (18h 06m 32.36s , +67d 45m 24.9s) | C | 180 | 18.6 | 115970 | 2020-09-07 21:23:13 | MASTER-Tavrida | (18h 06m 30.08s , +67d 46m 46.7s) | C | 180 | 18.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200905.99: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28369, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Baksan Neutrino Observatory Alert 200905.99 (trigger No 1650067106,09h 21m 12.00s , -55d 48m 00.0s, R=3) errorbox 22 sec after notice time and 424 sec after trigger time at 2020-09-06 00:05:30 UT, with upper limit up to 16.2 mag. The observations began at zenith distance = 87 deg. The sun altitude is -23.0 deg. The galactic latitude b = -4 deg., longitude l = 277 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1434451 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 464 | 2020-09-06 00:05:30 | MASTER-OAFA | (09h 19m 45.41s , -55d 01m 18.1s) | C | 80 | 16.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. Fermi GRB 200904A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28366, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200904A (Fermi GBM team, GCN 28365) errorbox 533 sec after notice time and 651 sec after trigger time at 2020-09-04 02:13:46 UT, with upper limit up to 17.2 mag. The observations began at zenith distance = 62 deg. The sun altitude is -49.5 deg. The galactic latitude b = -78 deg., longitude l = 140 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1433460 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 742 | 2020-09-04 02:13:46 | MASTER-OAFA | (01h 00m 58.86s , -16d 47m 45.9s) | C | 180 | 17.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. Fermi GRB 200903C: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28364, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200903C (Fermi GBM team, GCN 28361) errorbox 8291 sec after notice time

and 8323 sec after trigger time at 2020-09-03 23:57:42 UT, with upper limit up to 17.9 mag. The observations began at zenith distance = 77 deg. The sun altitude is -21.6 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200903C errorbox 11113 sec after notice time and 11145 sec after trigger time at 2020-09-04 00:44:44 UT, with upper limit up to 16.5 mag. The observations began at zenith distance = 51 deg. The sun altitude is -24.3 deg. The galactic latitude b = -65 deg., longitude l = 117 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1433346 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 8414 | 2020-09-03 23:57:42 | MASTER-OAFA | (23h 45m 43.67s , -12d 49m 48.0s) | C | 180 | 17.9 | 10209 | 2020-09-04 00:27:37 | MASTER-OAFA | (00h 02m 47.84s , -16d 48m 14.1s) | C | 180 | 17.1 | 11236 | 2020-09-04 00:44:44 | MASTER-Tavrida | (00h 44m 08.68s , -04d 02m 46.7s) | C | 180 | 15.4 | 11437 | 2020-09-04 00:48:05 | MASTER-Tavrida | (01h 00m 04.67s , -04d 03m 05.0s) | C | 180 | 14.9 | 11637 | 2020-09-04 00:51:25 | MASTER-Tavrida | (01h 08m 06.78s , -04d 01m 49.9s) | C | 180 | 15.4 | 11838 | 2020-09-04 00:54:46 | MASTER-Tavrida | (00h 44m 09.09s , -04d 04m 10.7s) | C | 180 | 16.5 | 12039 | 2020-09-04 00:58:07 | MASTER-Tavrida | (00h 52m 02.97s , -04d 04m 55.6s) | C | 180 | 16.3 | 12241 | 2020-09-04 01:01:29 | MASTER-Tavrida | (01h 08m 11.79s , -04d 03m 50.0s) | C | 180 | 15.7 | 12441 | 2020-09-04 01:04:50 | MASTER-Tavrida | (00h 44m 29.40s , -08d 05m 45.3s) | C | 180 | 15.8 | 12642 | 2020-09-04 01:08:10 | MASTER-Tavrida | (00h 52m 09.85s , -04d 03m 39.9s) | C | 180 | 15.9 | 13245 | 2020-09-04 01:18:13 | MASTER-Tavrida | (00h 52m 32.44s , -08d 06m 10.8s) | C | 180 | 15.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. Fermi GRB 200903B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28353, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200903B (Fermi GBM team, GCN 28352) errorbox 3567 sec after notice time and 3594 sec after trigger time at 2020-09-03 03:42:35 UT, with upper limit up to 18.6 mag. The observations began at zenith distance = 76 deg. The sun altitude is -63.6 deg. The galactic latitude b = -49 deg., longitude l = 201 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1432912 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 3625 | 2020-09-03 03:42:35 | MASTER-OAFA | (03h 28m 58.40s , -14d 45m 45.9s) | C | 60 | 17.0 | 3704 | 2020-09-03 03:43:55 | MASTER-OAFA | (03h 27m 18.24s , -12d 45m 19.8s) | C | 60 | 16.9 | 3784 | 2020-09-03 03:45:14 | MASTER-OAFA | (03h 25m 48.38s , -10d 45m 20.8s) | C | 60 | 16.8 | 3863 | 2020-09-03 03:46:34 | MASTER-OAFA | (03h 30m 56.48s , -16d 47m 17.0s) | C | 60 | 17.4 | 3943 | 2020-09-03 03:47:53 | MASTER-OAFA | (03h 29m 01.54s , -14d 46m 52.6s) | C | 60 | 17.0 | 4022 | 2020-09-03 03:49:12 | MASTER-OAFA | (03h 37m 13.53s , -14d 45m 29.6s) | C | 60 | 17.0 | 4101 | 2020-09-03 03:50:32 | MASTER-OAFA | (03h 27m 16.64s , -12d 47m 17.9s) | C | 60 | 17.0 | 4181 | 2020-09-03 03:51:52 | MASTER-OAFA | (03h 35m 29.34s , -12d 45m 27.2s) | C | 60 | 17.0 | 4261 | 2020-09-03 03:53:11 | MASTER-OAFA | (03h 25m 48.73s , -10d 46m 18.9s) | C | 60 | 16.9 | 4340 | 2020-09-03 03:54:30 | MASTER-OAFA | (03h 33m 55.58s , -10d 45m 06.4s) | C | 60 | 16.8 | 4420 | 2020-09-03 03:55:50 | MASTER-OAFA | (03h 31m 02.58s , -16d 46m 16.2s) | C | 60 | 17.6 | 4499 | 2020-09-03 03:57:09 | MASTER-OAFA | (03h 39m 16.24s , -16d 47m 03.1s) | C | 60 | 17.3 | 4579 | 2020-09-03 03:58:29 | MASTER-OAFA | (03h 37m 16.08s , -14d 46m 44.3s) | C | 60 | 17.1 | 4658 | 2020-09-03 03:59:48 | MASTER-OAFA | (03h 35m 27.61s , -12d 45m 28.7s) | C | 60 | 17.2 | 4737 | 2020-09-03 04:01:08 | MASTER-OAFA | (03h 33m 58.65s , -10d 46m 56.7s) | C | 60 | 16.9 | 4817 | 2020-09-03 04:02:27 | MASTER-OAFA | (03h 39m 20.96s , -16d 45m 19.2s) | C | 60 | 17.3 | 4896 | 2020-09-03 04:03:47 | MASTER-OAFA | (03h 43m 35.39s , -12d 44m 52.8s) | C | 60 | 17.0 | 4976 | 2020-09-03 04:05:06 | MASTER-OAFA | (03h 45m 26.48s , -14d 46m 50.6s) | C | 60 | 17.3 | 5055 | 2020-09-03 04:06:26 | MASTER-OAFA | (03h 42m 06.23s , -10d 45m 08.7s) | C | 60 | 17.1 | 5367 | 2020-09-03 04:11:37 | MASTER-OAFA | (03h 43m 34.98s , -12d 46m 01.5s) | C | 60 | 17.3 | 5447 | 2020-09-03 04:12:57 | MASTER-OAFA | (03h 51m 46.34s , -12d 44m 45.1s) | C | 60 | 17.4 | 5526 | 2020-09-03 04:14:17 | MASTER-OAFA | (03h 45m 31.39s , -14d 45m 55.5s) | C | 60 | 17.4 | 5606 | 2020-09-03 04:15:36 | MASTER-OAFA | (03h 53m 39.63s , -14d 46m 40.4s) | C | 60 | 17.4 | 5685 | 2020-09-03 04:16:55 | MASTER-OAFA | (03h 42m 09.36s , -10d 46m 41.4s) | C | 60 | 17.3 | 5764 | 2020-09-03 04:18:15 | MASTER-OAFA | (03h 50m 13.42s , -10d 44m 50.3s) | C | 60 | 17.1 | 6049 | 2020-09-03 04:22:59 | MASTER-OAFA | (03h 10m 52.85s , -12d 46m 48.3s) | C | 60 | 17.5 | 6333 | 2020-09-03 04:27:44 | MASTER-OAFA | (03h 51m 51.53s , -12d 45m 51.5s) | C | 60 | 17.5 | 6413 | 2020-09-03 04:29:03 | MASTER-OAFA | (03h 53m 39.74s , -14d 46m 47.5s) | C | 60 | 17.6 | 6492 | 2020-09-03 04:30:23 | MASTER-OAFA | (03h 50m 15.88s , -10d 46m 19.3s) | C | 60 | 17.3 | 6774 | 2020-09-03 04:35:04 | MASTER-OAFA | (03h 10m 55.15s , -12d 47m 29.0s) | C | 60 | 17.6 | 6853 | 2020-09-03 04:36:24 | MASTER-OAFA | (03h 19m 08.73s , -12d 45m 44.6s) | C | 60 | 17.4 | 6933 | 2020-09-03 04:37:43 | MASTER-OAFA | (03h 12m 27.24s , -14d 45m 44.8s) | C | 60 | 17.6 | 7012 | 2020-09-03 04:39:02 | MASTER-OAFA | (03h 14m 17.38s , -16d 47m 43.3s) | C | 60 | 17.5 | 7092 | 2020-09-03 04:40:22 | MASTER-OAFA | (03h 33m 16.32s , -18d 45m 28.1s) | C | 60 | 18.4 | 7374 | 2020-09-03 04:45:05 | MASTER-OAFA | (03h 19m 08.22s , -12d 46m 08.8s) | C | 60 | 17.3 | 7454 | 2020-09-03 04:46:24 | MASTER-OAFA | (03h 12m 27.33s , -14d 46m 47.0s) | C | 60 | 17.6 | 7533 | 2020-09-03 04:47:44 | MASTER-OAFA | (03h 20m 40.64s , -14d 45m 34.4s) | C | 60 | 17.6 | 7613 | 2020-09-03 04:49:03 | MASTER-OAFA | (03h 14m 21.97s , -16d 46m 43.1s) | C | 60 | 17.9 | 7693 | 2020-09-03 04:50:23 | MASTER-OAFA | (03h 22m 36.75s , -16d 47m 31.2s) | C | 60 | 17.9 | 7773 | 2020-09-03 04:51:43 | MASTER-OAFA | (03h 33m 20.11s , -18d 47m 09.7s) | C | 60 | 18.5 | 7852 | 2020-09-03 04:53:03 | MASTER-OAFA | (03h 41m 41.33s , -18d 45m 33.0s) | C | 60 | 18.3 | 8134 | 2020-09-03 04:57:45 | MASTER-OAFA | (03h 20m 47.96s , -14d 45m 54.7s) | C | 60 | 17.6 | 8214 | 2020-09-03 04:59:04 | MASTER-OAFA | (03h 22m 36.50s , -16d 46m 33.5s) | C | 60 | 17.8 | 8293 | 2020-09-03 05:00:23 | MASTER-OAFA | (03h 41m 38.88s , -18d 45m 07.4s) | C | 60 | 18.3 | 8378 | 2020-09-03 05:01:49 | MASTER-OAFA | (03h 47m 34.14s , -16d 46m 57.2s) | C | 60 | 17.8 | 8458 | 2020-09-03 05:03:08 | MASTER-OAFA | (03h 40m 51.81s , -08d 45m 31.3s) | C | 60 | 17.7 | 8537 | 2020-09-03 05:04:27 | MASTER-OAFA | (03h 24m 44.53s , -08d 45m 36.5s) | C | 60 | 17.3 | 8616 | 2020-09-03 05:05:47 | MASTER-OAFA | (03h 09m 33.05s , -10d 45m 43.1s) | C | 60 | 17.5 | 8775 | 2020-09-03 05:08:26 | MASTER-OAFA | (03h 47m 42.19s , -16d 46m 49.2s) | C | 60 | 17.6 | 8855 | 2020-09-03 05:09:45 | MASTER-OAFA | (03h 55m 57.66s , -16d 45m 11.5s) | C | 60 | 17.9 | 8935 | 2020-09-03 05:11:05 | MASTER-OAFA | (03h 40m 52.13s , -08d 46m 46.6s) | C | 60 | 17.7 | 9014 | 2020-09-03 05:12:25 | MASTER-OAFA | (03h 48m 59.79s , -08d 44m 49.3s) | C | 60 | 17.6 | 9094 | 2020-09-03 05:13:44 | MASTER-OAFA | (03h 24m 39.80s , -08d 46m 23.1s) | C | 60 | 17.4 | 9173 | 2020-09-03 05:15:03 | MASTER-OAFA | (03h 32m 44.88s , -08d 45m 12.0s) | C | 60 | 17.5 | 9252 | 2020-09-03 05:16:23 | MASTER-OAFA | (03h 09m 40.92s , -10d 46m 42.5s) | C | 60 | 17.7 | 9332 | 2020-09-03 05:17:42 | MASTER-OAFA | (03h 17m 40.79s , -10d 47m 32.5s) | C | 60 | 17.6 | 9491 | 2020-09-03 05:20:21 | MASTER-OAFA | (03h 24m 51.97s , -18d 45m 38.1s) | C | 60 | 18.6 | 9571 | 2020-09-03 05:21:41 | MASTER-OAFA | (03h 55m 57.80s , -16d 46m 17.3s) | C | 60 | 18.0 | 9650 | 2020-09-03 05:23:00 | MASTER-OAFA | (03h 48m 59.38s , -08d 45m 05.6s) | C | 60 | 17.8 | 9729 | 2020-09-03 05:24:19 | MASTER-OAFA | (03h 32m 45.09s , -08d 46m 09.7s) | C | 60 | 17.5 | 9809 | 2020-09-03 05:25:39 | MASTER-OAFA | (03h 17m 41.51s , -10d 45m 29.1s) | C | 60 | 17.6 | 9888 | 2020-09-03 05:26:58 | MASTER-OAFA | (03h 24m 54.71s , -18d 46m 23.2s) | C | 60 | 18.5 | 9967 | 2020-09-03 05:28:18 | MASTER-OAFA | (03h 50m 10.43s , -18d 46m 28.7s) | C | 60 | 18.2 | 10127 | 2020-09-03 05:30:57 | MASTER-OAFA | (03h 39m 51.52s , -06d 45m 56.6s) | C | 60 | 17.5 | 10285 | 2020-09-03 05:33:36 | MASTER-OAFA | (03h 50m 03.83s , -18d 46m 49.8s) | C | 60 | 18.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. Swift GRB200903.03: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28351, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB200903.03 (trigger No 994389,10h 57m 14.64s , +50d 30m 03.6s, R=0.05) errorbox 33 sec after notice time and 788 sec after trigger time at 2020-09-03 00:57:31 UT, with upper limit up to 14.0 mag. The observations began at zenith distance = 77 deg. The sun altitude is -22.2 deg. The galactic latitude b = 59 deg., longitude l = 158 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1432852 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 869 | MASTER-Tavrida | C | 160 | 14.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. GRB 200901A: MASTER OT early detection // GRB Coordinates Network, 2020, V. 28348, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, v.2010, 30L) started in alert mode (Lipunov et al. GCN 28334) Swift GRB 200901A (Simpson et al. GCN 28335, Sakamoto et al. GCN 28344) errorbox observation 25s after notice time (46s after trigger

time) at 2020-09-01 03:48:18 UT. There is OT at XRT (Kennea et al. GNC 28341) and UVOT (Breeveld et al. GCN 28342) position first 20 minutes after trigger time. Data analysis will continue.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. Swift GRB200901.16: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28334, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the Swift GRB200901.16 (trigger No 994143,04h 07m 01.92s , -59d 52m 48.0s, R=0.05) errorbox 25 sec after notice time and 46 sec after trigger time at 2020-09-01 03:48:18 UT, with upper limit up to 16.9 mag. The observations began at zenith distance = 65 deg. The sun altitude is -64.8 deg. The galactic latitude b = -43 deg., longitude l = 271 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1431471 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 52 | MASTER-OAFA | C | 10 | 16.4 | 81 | MASTER-OAFA | C | 10 | 16.5 | 116 | MASTER-OAFA | C | 20 | 16.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Pogrosheva, T., Lipunov, V., Podesta, R., Buckley, D., Gorbovskoy, E., Kornilov, V., Gress, O., Tiurina, N., Vladimirov, V., et al. MASTER discovery of bright OT with amplitude more then 8m // The Astronomer's Telegram, 2020, V. 14041, p. 1
AT2020ugj MASTER-OAFA auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 21h 39m 08.79s +16d 12m 40.2s on 2020-09-26.03850 UT. The OT magnitude (unfiltered, automatic photometry) are 2020-09-26 00:55:26 16.1 2020-09-26 01:08:42 15.6 2020-09-26 01:46:46 15.5 2020-09-26 01:52:55 15.5 The nearest in time image without OT was in MASTER-Tavrida with mlim=18.1 at 2020-09-24 21:31:59UT There is no minor planet at this place.

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Buckley, D. A. H., Bagnulo, S., Britto, R. J., Mao, J., Kann, D. A., Cooper, J., Lipunov, V., Hewitt, D. M., Razzaque, S., et al. Spectropolarimetry, photometry and radio detection of the early afterglow of the gamma-ray burst GRB191221B // arXiv e-prints, 2020, V. p. arXiv:2009.14081
We report on results of spectropolarimetry of the afterglow of the long gamma-ray burst GRB 191221B, obtained with SALT/RSS and VLT/FORS2, as well as photometry from two telescopes in the MASTER Global Robotic Network, at the MASTER-SAAO (South Africa) and MASTER-OAFA (Argentina) stations. Prompt optical emission was detected by MASTER-SAAO 38 s after the alert, which dimmed from a magnitude (white-light) of ~10 to 16.2 mag over a period of ~10 ks, followed by a plateau phase lasting ~10 ks and then a decline to ~18 mag after 80 ks. The light curve shows complex structure, with four or five distinct breaks in the power-law decline rate. SALT/RSS linear spectropolarimetry of the afterglow began ~2.9 h after the burst, during the early part of the plateau phase of the light curve. Absorption lines seen at ~6010Å and 5490Å are identified with the Mg II 2799Å line from the host galaxy at z=1.15 and an intervening system located at z=0.96. The mean linear polarization measured over 3400-8000Å was ~1.5% at a mean position angle of θ ~65°. VLT/FORS2 spectropolarimetry was obtained ~10 h post-burst, during a period of slow decline ($\alpha=-0.44$), and the polarization was measured to be p=1.2% and $\theta=60^{\circ}$. A short (40 min) observation with the MeerKAT radio telescope taken one month post-burst detected the afterglow at a peak flux density of 69 ± 10 μJy/beam. We interpret the light curve and polarization of this long GRB in terms of a slow-cooling forward-shock.

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-29 // Transient Name Server Discovery Report, 2020, V. 2020-2656, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-28 // Transient Name Server Discovery Report, 2020, V. 2020-2641, p. 1

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Vladimirov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-27 // Transient Name Server Discovery Report, 2020, V. 2020-2626, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-08-26 // Transient Name Server Discovery Report, 2020, V. 2020-2614, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-26 // Transient Name Server Discovery Report, 2020, V. 2020-2613, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-24 // Transient Name Server Discovery Report, 2020, V. 2020-2592, p. 1

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Gress, O., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-23 // Transient Name Server Discovery Report, 2020, V. 2020-2581, p. 1

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Zhirkov, K., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-23 // Transient Name Server Discovery Report, 2020, V. 2020-2580, p. 1

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Pozdnyakov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-21 // Transient Name Server Discovery Report, 2020, V. 2020-2567, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-19 // Transient Name Server Discovery Report, 2020, V. 2020-2546, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-19 // Transient Name Server Discovery Report, 2020, V. 2020-2545, p. 1

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Gress, O., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-18 // Transient Name Server Discovery Report, 2020, V. 2020-2529, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-17 // Transient Name Server Discovery Report, 2020, V. 2020-2516, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-14 // Transient Name Server Discovery Report, 2020, V. 2020-2487, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-13 // Transient Name Server Discovery Report, 2020, V. 2020-2475, p. 1

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Pozdnyakov, A., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-13 // Transient Name Server Discovery Report, 2020, V. 2020-2474, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-08-11 // Transient Name Server Discovery Report, 2020, V. 2020-2451, p. 1

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Zhirkov, K., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-10 // Transient Name Server Discovery Report, 2020, V. 2020-2444, p. 1

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Pozdnyakov, A., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-10 // Transient Name Server Discovery Report, 2020, V. 2020-2443, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-09 // Transient Name Server Discovery Report, 2020, V. 2020-2433, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-09 // Transient Name Server Discovery Report, 2020, V. 2020-2432, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-09 // Transient Name Server Discovery Report, 2020, V. 2020-2431, p. 1

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Zhirkov, K., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-09 // Transient Name Server Discovery Report, 2020, V. 2020-2430, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-08 // Transient Name Server Discovery Report, 2020, V. 2020-2425, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-07 // Transient Name Server Discovery Report, 2020, V. 2020-2413, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-07 // Transient Name Server Discovery Report, 2020, V. 2020-2412, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-07 // Transient Name Server Discovery Report, 2020, V. 2020-2411, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-07 // Transient Name Server Discovery Report, 2020, V. 2020-2410, p. 1

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Pozdnyakov, A., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-07 // Transient Name Server Discovery Report, 2020, V. 2020-2409, p. 1

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Vladimirov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-06 // Transient Name Server Discovery Report, 2020, V. 2020-2401, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-06 // Transient Name Server Discovery Report, 2020, V. 2020-2400, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-06 // Transient Name Server Discovery Report, 2020, V. 2020-2399, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-06 // Transient Name Server Discovery Report, 2020, V. 2020-2398, p. 1

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Pozdnyakov, A., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-08-04 // Transient Name Server Discovery Report, 2020, V. 2020-2376, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-08-03 // Transient Name Server Discovery Report, 2020, V. 2020-2368, p. 1

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Podestá, R. C., Lipunov, V. M., Podestá, F. M., Quinteros, J., Pacheco, A. M., González, E. P. A., Francile, C. N., Pérez, J., Marmolejo, L., et al. OAFA: The Place Under the Sky of the Andes that Houses the MASTER // Revista Mexicana de Astronomia y Astrofisica Conference Series, 2020, V. 52, p. 29
This paper shows the infrastructure and discoveries made by Russian instruments installed in the Carlos U. Cesco high altitude station.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. Fermi GRB 200830A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28327, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200830A (Fermi GBM team, GCN 28320) errorbox 26966 sec after notice time and 26992 sec after trigger time at 2020-08-30 17:24:11 UT, with upper limit up to 17.8 mag. Observations started at twilight. The observations began at zenith distance = 40 deg. The sun altitude is -11.4 deg. The galactic latitude b = -3 deg., longitude l = 108 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1430319 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 27023 | 2020-08-30 17:24:11 | MASTER-Tavrida | (22h 18m 55.98s , +49d 54m 04.7s) | C | 60 | 17.0 | 27103 | 2020-08-30 17:25:31 | MASTER-Tavrida | (22h 26m 08.03s , +51d 53m 06.1s) | C | 60 | 16.9 | 27184 | 2020-08-30 17:26:52 | MASTER-Tavrida | (22h 43m 43.82s , +49d 53m 04.9s) | C | 60 | 17.2 | 27345 | 2020-08-30 17:29:33 | MASTER-Tavrida | (22h 18m 49.49s , +49d 55m 01.4s) | C | 60 | 17.3 | 27425 | 2020-08-30 17:30:53 | MASTER-Tavrida | (22h 31m 20.87s , +49d 53m 49.1s) | C | 60 | 17.3 | 27506 | 2020-08-30 17:32:14 | MASTER-Tavrida | (22h 26m 02.03s , +51d 52m 56.0s) | C | 60 | 17.2 | 27586 | 2020-08-30 17:33:34 | MASTER-Tavrida | (22h 39m 05.41s , +51d 52m 58.3s) | C | 60 | 17.3 | 27667 | 2020-08-30 17:34:55 | MASTER-Tavrida | (22h 43m 43.82s , +49d 54m 30.6s) | C | 60 | 17.5 | 27748 | 2020-08-30 17:36:16 | MASTER-Tavrida | (22h 56m 09.16s , +49d 52m 33.7s) | C | 60 | 17.8 | 27828 | 2020-08-30 17:37:36 | MASTER-Tavrida | (22h 37m 46.61s , +47d 54m 37.7s) | C | 60 | 17.4 | 27908 | 2020-08-30 17:38:56 | MASTER-Tavrida | (22h 49m 34.87s , +47d 53m 33.4s) | C | 60 | 17.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. GRB 200829A: Global MASTER-Net OT detection // GRB Coordinates Network, 2020, V. 28315, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB 200829A (M. H. Siegel et al., GCN 28307) errorbox 12423 sec after notice time and 12502 sec after trigger time at 2020-08-29 17:27:56 UT, with upper limit up to 18.5 mag. We see OT at Swift/UVOT position (Kuin et al GCN 28311). Datetime: 2020-08-29 17:36:40 Coord: 16h 44m 48.88s , +72d 19m 45s.8 Mag: 18.1 Observations started at twilight. The observations began at zenith distance = 30 deg. The sun altitude is -11.7 deg.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. Fermi trigger No 620402299: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28310, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB200829.58 (trigger No 620402299,18h 18m 24.00s , +78d 34m 58.8s, R=11.17) errorbox 12410 sec after notice time and 12420 sec after trigger time at 2020-08-29 17:25:15 UT, with upper limit up to 18.9 mag. Observations started at twilight. The observations began at zenith distance = 34 deg. The sun altitude is -11.2 deg. The galactic latitude b = 28 deg., longitude l = 110 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1429734 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 12451 | 2020-08-29 17:25:15 | MASTER-Tavrida | (17h 50m 48.66s , +78d 01m 03.9s) | C | 60 | 17.5 | 12531 | 2020-08-29 17:26:36 | MASTER-Tavrida | (18h 18m 38.44s , +79d 59m 10.4s) | C | 60 | 17.6 | 12672 | 2020-08-29 17:27:56 | MASTER-Tavrida | (16h 52m 03.42s , +72d 23m 19.9s) | C | 180 | 18.5 | 12813 | 2020-08-29 17:31:18 | MASTER-Tavrida | (17h 50m 44.92s , +78d 00m 16.0s) | C | 60 | 18.0 | 12894 | 2020-08-29 17:32:38 | MASTER-Tavrida | (18h 29m 20.44s , +78d 00m 22.7s) | C | 60 | 17.9 | 12974 | 2020-08-29 17:33:58 | MASTER-Tavrida | (18h 18m 35.53s , +80d 00m 07.6s) | C | 60 | 18.0 | 13055 | 2020-08-29 17:35:19 | MASTER-Tavrida | (19h 04m 42.40s , +79d 59m 34.0s) | C | 60 | 18.2 | 13195 | 2020-08-29 17:36:40 | MASTER-Tavrida | (16h 52m 07.15s , +72d 22m 32.7s) | C | 180 | 18.9 | 13337 | 2020-08-29 17:40:01 | MASTER-Tavrida | (18h 29m 12.99s , +77d 58m 54.3s) | C | 60 | 18.2 | 13417 | 2020-08-29 17:41:21 | MASTER-Tavrida | (19h 04m 43.23s , +79d 57m 48.2s) | C | 60 | 18.4 | 13699 | 2020-08-29 17:46:03 | MASTER-Tavrida | (17h 32m 03.25s , +76d 01m 46.5s) | C | 60 | 18.5 | 13790 | 2020-08-29 17:47:34 | MASTER-Tavrida | (16h 10m 28.57s , +80d 01m 30.2s) | C | 60 | 18.6 | 13871 | 2020-08-29 17:48:55 | MASTER-Tavrida | (18h 37m 59.60s , +77d 57m 28.4s) | C | 60 | 18.3 | 13951 | 2020-08-29 17:50:16 | MASTER-Tavrida | (16h 22m 00.59s , +82d 00m 16.7s) | C | 60 | 18.4 | 14032 | 2020-08-29 17:51:36 | MASTER-Tavrida | (17h 06m 17.52s , +76d 01m 16.7s) | C | 60 | 18.6 | 14521 | 2020-08-29 17:59:45 | MASTER-Tavrida | (18h 05m 23.94s , +76d 00m 30.7s) | C | 60 | 18.6 | 14610 | 2020-08-29 18:01:14 | MASTER-Tavrida | (16h 10m 20.51s , +80d 00m 32.0s) | C | 60 | 18.6 | 14691 | 2020-08-29 18:02:35 | MASTER-Tavrida | (16h 56m 44.31s , +79d 59m 45.8s) | C | 60 | 18.6 | 14853 | 2020-08-29 18:05:17 | MASTER-Tavrida | (18h 38m 14.31s , +77d 57m 23.6s) | C | 60 | 18.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Balanutsa, P., Kuznetsov, A., Zhirkov, K., Balakin, F., Vladimirov, V., et al. Swift GRB 200829A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28309, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB 200829A (M. H. Siegel et al., GCN 28307) errorbox 12423 sec after notice time and 12502 sec after trigger time at 2020-08-29 17:27:56 UT, with upper limit up to 18.5 mag. Observations started at twilight. The observations began at zenith distance = 30 deg. The sun altitude is -11.7 deg. The galactic latitude b = 35 deg., longitude l = 104 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1429750 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 12592 | MASTER-Tavrida | C | 180 | 18.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200826B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28297, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200826B (Fermi GBM team, GCN 28292) errorbox 640 sec after notice time and 669 sec after trigger time at 2020-08-26 22:20:51 UT, with upper limit up to 16.4 mag. The observations began at zenith distance = 83 deg. The sun altitude is -35.3 deg. The galactic latitude b = 51 deg., longitude l = 163 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1427827 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 734 | 2020-08-26 22:20:51 | MASTER-Tavrida | (10h 05m 19.01s , +51d 55m 00.9s) | C | 130 | 14.7 | 1129 | 2020-08-26 22:27:01 | MASTER-Tavrida | (10h 05m 18.37s , +51d 52m 53.7s) | C | 180 | 14.8 | 1558 | 2020-08-26 22:34:11 | MASTER-Tavrida | (10h 05m 22.98s , +51d 54m 35.8s) | C | 180 | 14.6 | 5955 | 2020-08-26 23:48:27 | MASTER-Tavrida | (10h 17m 44.99s , +52d 12m 40.0s) | C | 60 | 13.0 | 6197 | 2020-08-26 23:52:29 | MASTER-Tavrida | (09h 51m 23.97s , +50d 11m 34.2s) | C | 60 | 14.8 | 9451 | 2020-08-27 00:46:43 | MASTER-Tavrida | (10h 16m 17.78s , +50d 10m 53.5s) | C | 60 | 15.0 | 13932 | 2020-08-27 02:01:24 | MASTER-Tavrida | (10h 06m 27.15s , +54d 08m 38.9s) | C | 60 | 16.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200824A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28296, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200824A (Fermi GBM team, GCN 28283) errorbox 2 days 40217 sec after notice time and 2 days 40245 sec after trigger time at 2020-08-27 01:26:24 UT, with upper limit up to 16.4 mag. Observations started at twilight. The observations began at zenith distance = 64 deg. The sun altitude is -16.3 deg. MASTER-OAFA robotic telescope located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200824A errorbox 2 days 68646 sec after notice time and 2 days 68673 sec after trigger time at 2020-08-27 09:20:12 UT, with upper limit up to 17.7 mag. The observations began at zenith distance = 66 deg. The sun altitude is -21.4 deg. The galactic latitude b = 18 deg., longitude l = 211 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1425935 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 213075 | 2020-08-27 01:26:24 | MASTER-Tavrida | (07h 12m 38.47s , +24d 02m 24.8s) | C | 60 | 14.7 | 214850 | 2020-08-27 01:55:58 | MASTER-Tavrida | (07h 19m 46.57s , +26d 02m 10.0s) | C | 60 | 16.4 | 214931 | 2020-08-27 01:57:19 | MASTER-Tavrida | (07h 17m 32.19s , +20d 00m 58.9s) | C | 60 | 15.2 | 215011 | 2020-08-27 01:58:40 | MASTER-Tavrida | (07h 07m 36.58s , +16d 00m 47.4s) | C | 60 | 14.0 | 215418 | 2020-08-27 02:05:26 | MASTER-Tavrida | (06h 47m 06.52s , +14d 01m 43.5s) | C | 60 | 15.4 | 215579 | 2020-08-27 02:08:08 | MASTER-Tavrida | (06h 50m 54.44s , +16d 02m 17.9s) | C | 60 | 15.3 | 241503 | 2020-08-27 09:20:12 | MASTER-OAFA | (07h 22m 58.21s , -02d 39m 33.4s) | C | 60 | 17.7 | 244022 | 2020-08-27 10:02:11 | MASTER-OAFA | (07h 22m 58.79s , -02d 38m 33.0s) | C | 60 | 17.4 | 244102 | 2020-08-27 10:03:30 | MASTER-OAFA | (07h 30m 54.12s , -02d 39m 18.0s) | C | 60 | 17.4 | 244397 | 2020-08-27 10:08:26 | MASTER-OAFA | (06h 46m 38.15s , +13d 20m 22.5s) | C | 60 | 17.2 | 244477 | 2020-08-27 10:09:45 | MASTER-OAFA | (07h 03m 11.85s , +13d 20m 43.8s) | C | 60 | 16.7 | 244558 | 2020-08-27 10:11:06 | MASTER-OAFA | (06h 54m 48.45s , +17d 20m 41.9s) | C | 60 | 16.7 | 244638 | 2020-08-27 10:12:26 | MASTER-OAFA | (07h 07m 02.70s , +15d 19m 02.3s) | C | 60 | 16.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200826A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28285, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200826A (Fermi GBM team, GCN 28284) errorbox 18 sec after notice time and 46 sec after trigger time at 2020-08-26 04:30:38 UT, with upper limit up to 18.3 mag. The observations began at zenith distance = 76 deg. The sun altitude is -69.3 deg. The galactic latitude b = -24 deg., longitude l = 116 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1427181 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 51 | 2020-08-26 04:30:38 | MASTER-OAFA | (00h 16m 30.99s , +38d 58m 23.2s) | C | 10 | 16.5 | 102 | 2020-08-26 04:31:24 | MASTER-OAFA | (00h 16m 59.22s , +35d 52m 18.4s) | C | 20 | 17.0 | 159 | 2020-08-26 04:32:16 | MASTER-OAFA | (00h 18m 21.45s , +36d 49m 55.4s) | C | 30 | 17.2 | 214 | 2020-08-26 04:33:06 | MASTER-OAFA | (00h 18m 17.46s , +36d 48m 57.2s) | C | 40 | 17.5 | 278 | 2020-08-26 04:34:05 | MASTER-OAFA | (00h 18m 22.91s , +36d 49m 03.8s) | C | 50 | 17.6 | 353 | 2020-08-26 04:35:15 | MASTER-OAFA | (00h 18m 20.27s , +36d 50m 58.1s) | C | 60 | 17.8 | 442 | 2020-08-26 04:36:34 | MASTER-OAFA | (00h 18m 20.68s , +36d

49m 32.1s) | C | 80 | 17.9 | 552 | 2020-08-26 04:38:14 | MASTER-OAFA | (00h 18m 23.06s , +36d 50m 57.8s) | C | 100 | 17.8 | 683 | 2020-08-26 04:40:15 | MASTER-OAFA | (00h 17m 00.73s , +35d 50m 57.2s) | C | 120 | 18.1 | 837 | 2020-08-26 04:42:34 | MASTER-OAFA | (00h 17m 02.07s , +35d 51m 59.4s) | C | 150 | 18.2 | 1022 | 2020-08-26 04:45:24 | MASTER-OAFA | (00h 17m 08.96s , +35d 51m 02.3s) | C | 180 | 18.3 | 1221 | 2020-08-26 04:48:43 | MASTER-OAFA | (00h 17m 02.21s , +35d 50m 06.3s) | C | 180 | 18.3 | 1421 | 2020-08-26 04:52:03 | MASTER-OAFA | (00h 17m 08.56s , +35d 50m 36.7s) | C | 180 | 18.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200821.55: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28280, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB200821.55 (trigger No 992444,23h 34m 16.80s , -48d 16m 37.2s, R=0.05) errorbox 15204 sec after notice time and 15279 sec after trigger time at 2020-08-21 17:29:45 UT, with upper limit up to 19.3 mag. Observations started at twilight. The observations began at zenith distance = 74 deg. The sun altitude is -16.3 deg. The galactic latitude b = -65 deg., longitude l = 333 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1423846 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 15370 | MASTER-SAAO | C | 180 | 19.3 | 15370 | MASTER-SAAO | C | 180 | 17.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Zhirkov, K., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. GRB 200815A: MASTER optical observations // GRB Coordinates Network, 2020, V. 28275, p. 1
MASTER Global Robotic Net (Lipunov et al., 2010, Advances in Astronomy, vol. 2010, p.30L) started GRB 2008015A (IPN triangulation, Hurley et al. GCN 28274) errorbox observations 22881 sec after notice time (1 days 3261 sec after trigger time) at 2020-08-16 21:57:09 UT in MASTER-Tavrida, with upper limit up to 19.0 mag. The observations began at zenith distance = 76 deg. The sun altitude was -32.5 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the IPN GRB200815.88 errorbox 26435 sec after notice time and 1 days 6815 sec after trigger time at 2020-08-16 22:56:23 UT, with upper limit up to 17.4 mag. The observations began at zenith distance = 82 deg. The sun altitude is -37.9 deg. The galactic latitude b = -60 deg., longitude l = 98 deg. We didn't find OT. Real time updated cover map is available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11510 We obtained the following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 89752 | 2020-08-16 21:57:09 | MASTER-Tavrida | (23h 39m 20.64s , -28d 07m 25.9s) | C | 180 | 19.0 | 89952 | 2020-08-16 22:00:30 | MASTER-Tavrida | (23h 48m 25.29s , -28d 08m 52.4s) | C | 180 | 18.8 | 90803 | 2020-08-16 22:14:41 | MASTER-Tavrida | (23h 48m 28.58s , -28d 07m 39.8s) | C | 180 | 18.9 | 93305 | 2020-08-16 22:56:23 | MASTER-IAC | (23h 45m 32.32s , -28d 00m 54.2s) | C | 180 | 17.1 | 93915 | 2020-08-16 23:06:33 | MASTER-IAC | (23h 45m 29.43s , -28d 00m 38.4s) | C | 180 | 17.4 | Filter C is a clear (unfiltred) band. Cover map is available at http://master.sai.msu.ru/static/images/MASTERGRB200815Acmap.png The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200819.88: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28268, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Baksan Neutrino Observatory Alert 200819.88 (trigger No 1648587875,17h 16m 00.00s , -32d 54m 00.0s, R=3) errorbox 72 sec after notice time and 951 sec after trigger time at 2020-08-19 21:20:26 UT, with upper limit up to 19.1 mag. The observations began at zenith distance = 43 deg. The sun altitude is -62.9 deg. The galactic latitude b = 3 deg., longitude l = 354 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1422805 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 1042 | 2020-08-19 21:20:26 | MASTER-SAAO | (17h 10m 02.16s , -32d 53m 15.3s) | C | 180 | 17.5 | 1042 | 2020-08-19 21:20:26 | MASTER-SAAO | (17h 18m 23.28s , -32d 52m 36.9s) | C | 180 | 18.9 | 1241 | 2020-08-19 21:23:46 | MASTER-SAAO | (17h 09m 56.22s , -32d 54m 07.4s) | C | 180 | 17.5 | 1241 | 2020-08-19 21:23:46 | MASTER-SAAO | (17h 18m 17.42s , -32d 53m 29.7s) | C | 180 | 19.1 | 1441 | 2020-08-19 21:27:05 | MASTER-SAAO | (17h 09m 55.50s , -32d 53m 07.0s) | C | 180 | 17.6 | 1441 | 2020-08-19 21:27:05 | MASTER-SAAO | (17h 18m 16.59s , -32d 52m 30.2s) | C | 180 | 19.1 | 1640 | 2020-08-19 21:30:25 | MASTER-SAAO | (17h 18m 24.21s , -32d 53m 30.9s) | C | 180 | 19.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200819A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28264, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) was pointed to the Swift GRB 200819A (S. Dichiara et al., GCN 28263) errorbox 80 sec after notice time and 149 sec after trigger time at 2020-08-19 15:46:22 UT, with upper limit up to 17.7 mag. The observations began at zenith distance = 39 deg. The sun altitude is -23.8 deg. The galactic latitude b = 1 deg., longitude l = 127 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1422693 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 165 | MASTER-Tunka | P| | 30 | 16.3 | 465 | MASTER-Tunka | P| | 630 | 17.7 | Coadd 219 | MASTER-Tunka | P| | 40 | 16.5 | 284 | MASTER-Tunka | P| | 50 | 16.7 | 358 | MASTER-Tunka | P| | 60 | 16.9 | 448 | MASTER-Tunka | P| | 80 | 17.0 | 557 | MASTER-Tunka | P| | 100 | 16.8 | 687 | MASTER-Tunka | P| | 120 | 16.6 | 841 | MASTER-Tunka | P| | 150 | 16.1 | 1026 | MASTER-Tunka | P| | 180 | 16.1 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200819.09: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28262, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Baksan Neutrino Observatory Alert 200819.09 (trigger No 1648520072,16h 13m 12.00s , -01d 18m 00.0s, R=3) errorbox 353 sec after notice time and 685 sec after trigger time at 2020-08-19 02:25:57 UT, with upper limit up to 18.7 mag. The observations began at zenith distance = 57 deg. The sun altitude is -54.5 deg. The galactic latitude b = 33 deg., longitude l = 11 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1422364 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 715 | 2020-08-19 02:25:57 | MASTER-OAFA | (16h 11m 13.22s , -02d 39m 15.1s) | C | 60 | 18.7 | 795 | 2020-08-19 02:27:17 | MASTER-OAFA | (16h 10m 43.53s , -00d 39m 12.9s) | C | 60 | 18.6 | 1281 | 2020-08-19 02:35:23 | MASTER-OAFA | (16h 11m 16.05s , -02d 38m 23.8s) | C | 60 | 18.7 | 1361 | 2020-08-19 02:36:43 | MASTER-OAFA | (16h 19m 16.26s , -02d 40m 04.4s) | C | 60 | 18.5 | 1441 | 2020-08-19 02:38:02 | MASTER-OAFA | (16h 10m 43.32s , -00d 38m 21.5s) | C | 60 | 18.6 | 1523 | 2020-08-19 02:39:25 | MASTER-OAFA | (16h 18m 38.25s , -00d 39m 21.4s) | C | 60 | 18.4 | 1603 | 2020-08-19 02:40:45 | MASTER-OAFA | (16h 13m 05.09s , -04d 39m 09.9s) | C | 60 | 18.4 | 1895 | 2020-08-19 02:45:36 | MASTER-OAFA | (16h 19m 19.52s , -02d 40m 21.2s) | C | 60 | 18.1 | 1974 | 2020-08-19 02:46:56 | MASTER-OAFA | (16h 18m 40.53s , -00d 38m 46.2s) | C | 60 | 18.4 | 2054 | 2020-08-19 02:48:16 | MASTER-OAFA | (16h 13m 01.63s , -04d 39m 50.1s) | C | 60 | 18.6 | 2134 | 2020-08-19 02:49:35 | MASTER-OAFA | (16h 21m 04.87s , -04d 38m 39.6s) | C | 60 | 18.6 | 2217 | 2020-08-19 02:50:59 | MASTER-OAFA | (16h 11m 12.97s , +01d 21m 49.7s) | C | 60 | 18.5 | 2297 | 2020-08-19 02:52:19 | MASTER-OAFA | (15h 54m 36.89s , -00d 39m 41.8s) | C | 60 | 18.6 | 2377 | 2020-08-19 02:53:38 | MASTER-OAFA | (15h 55m 14.04s , -02d 37m 58.1s) | C | 60 | 18.7 | 2456 | 2020-08-19 02:54:58 | MASTER-OAFA | (16h 21m 02.57s , -04d 39m 52.7s) | C | 60 | 18.5 | 2536 | 2020-08-19 02:56:18 | MASTER-OAFA | (16h 11m 20.40s , +01d 21m 29.1s) | C | 60 | 18.5 | 2616 | 2020-08-19 02:57:38 | MASTER-OAFA | (16h 19m 14.32s , +01d 20m 39.3s) | C | 60 | 18.3 | 2696 | 2020-08-19 02:58:57 | MASTER-OAFA | (15h 54m 35.87s , -00d 37m 39.4s) | C | 60 | 18.5 | 2775 | 2020-08-19 03:00:17 |

MASTER-OAFA | (16h 02m 43.94s , -00d 38m 52.2s) | C | 60 | 18.7 | 2855 | 2020-08-19 03:01:37 | MASTER-OAFA | (15h 55m 10.87s , -02d 39m 36.3s) | C | 60 | 18.5 | 2937 | 2020-08-19 03:02:58 | MASTER-OAFA | (16h 03m 16.72s , -02d 39m 25.7s) | C | 60 | 18.7 | 3016 | 2020-08-19 03:04:18 | MASTER-OAFA | (16h 19m 16.65s , +01d 21m 11.8s) | C | 60 | 18.3 | 3096 | 2020-08-19 03:05:38 | MASTER-OAFA | (16h 02m 39.78s , -00d 39m 21.8s) | C | 60 | 18.4 | 3255 | 2020-08-19 03:08:17 | MASTER-OAFA | (16h 03m 11.14s , -02d 37m 47.7s) | C | 60 | 18.4 | 3414 | 2020-08-19 03:10:56 | MASTER-OAFA | (16h 26m 40.28s , -00d 38m 36.2s) | C | 60 | 18.3 | 3574 | 2020-08-19 03:13:35 | MASTER-OAFA | (16h 05m 01.25s , -04d 38m 13.6s) | C | 60 | 17.9 | 3733 | 2020-08-19 03:16:15 | MASTER-OAFA | (16h 03m 12.95s , +01d 22m 04.5s) | C | 60 | 17.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 619487843: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28260, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB200818.99 (trigger No 619487843,13h 50m 26.40s , +22d 07m 12.0s, R=11.79) errorbox 448 sec after notice time and 458 sec after trigger time at 2020-08-19 00:04:57 UT, with upper limit up to 17.9 mag. The observations began at zenith distance = 73 deg. The sun altitude is -24.9 deg. The galactic latitude b = 75 deg., longitude l = 16 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1422310 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 489 | 2020-08-19 00:04:57 | MASTER-OAFA | (14h 08m 54.57s , +25d 22m 49.4s) | C | 60 | 17.9 | 569 | 2020-08-19 00:06:16 | MASTER-OAFA | (14h 22m 35.81s , +29d 22m 39.9s) | C | 60 | 17.8 | 648 | 2020-08-19 00:07:36 | MASTER-OAFA | (14h 24m 06.58s , +27d 23m 37.4s) | C | 60 | 17.8 | 728 | 2020-08-19 00:08:56 | MASTER-OAFA | (14h 12m 41.98s , +23d 23m 44.0s) | C | 60 | 17.0 | 808 | 2020-08-19 00:10:16 | MASTER-OAFA | (14h 08m 48.51s , +25d 22m 39.5s) | C | 60 | 15.1 | 888 | 2020-08-19 00:11:36 | MASTER-OAFA | (14h 17m 48.70s , +25d 22m 55.9s) | C | 60 | 16.3 | 967 | 2020-08-19 00:12:55 | MASTER-OAFA | (14h 22m 35.47s , +29d 24m 17.4s) | C | 60 | 16.9 | 1047 | 2020-08-19 00:14:15 | MASTER-OAFA | (14h 31m 50.37s , +29d 22m 40.9s) | C | 60 | 17.6 | 1130 | 2020-08-19 00:15:38 | MASTER-OAFA | (14h 24m 11.92s , +27d 24m 06.6s) | C | 60 | 17.3 | 1210 | 2020-08-19 00:16:58 | MASTER-OAFA | (14h 33m 09.17s , +27d 23m 31.6s) | C | 60 | 17.4 | 1290 | 2020-08-19 00:18:17 | MASTER-OAFA | (14h 12m 34.68s , +23d 24m 39.7s) | C | 60 | 17.9 | 1369 | 2020-08-19 00:19:37 | MASTER-OAFA | (14h 21m 28.45s , +23d 23m 37.3s) | C | 60 | 17.9 | 1449 | 2020-08-19 00:20:57 | MASTER-OAFA | (14h 17m 42.85s , +25d 22m 33.0s) | C | 60 | 17.8 | 1528 | 2020-08-19 00:22:16 | MASTER-OAFA | (14h 31m 52.34s , +29d 22m 52.4s) | C | 60 | 17.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200817A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28256, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB 200817A (Fermi GBM team, GCN 28254) errorbox 14716 sec after notice time and 14749 sec after trigger time at 2020-08-17 13:31:09 UT, with upper limit up to 18.3 mag. Observations started at twilight. The observations began at zenith distance = 43 deg. The sun altitude is -10.0 deg. The galactic latitude b = 66 deg., longitude l = 120 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1421422 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 14780 | 2020-08-17 13:31:09 | MASTER-Tunka | (12h 57m 56.42s , +58d 23m 36.8s) | C | 60 | 16.9 | 14859 | 2020-08-17 13:32:29 | MASTER-Tunka | (13h 14m 28.63s , +56d 23m 12.7s) | C | 60 | 17.1 | 14939 | 2020-08-17 13:33:49 | MASTER-Tunka | (12h 45m 43.50s , +56d 22m 38.3s) | C | 60 | 17.2 | 15018 | 2020-08-17 13:35:08 | MASTER-Tunka | (13h 02m 54.40s , +54d 23m 36.1s) | C | 60 | 17.4 | 15098 | 2020-08-17 13:36:27 | MASTER-Tunka | (12h 57m 48.21s , +58d 24m 27.1s) | C | 60 | 17.3 | 15177 | 2020-08-17 13:37:47 | MASTER-Tunka | (13h 13m 04.06s , +58d 23m 38.4s) | C | 60 | 17.5 | 15257 | 2020-08-17 13:39:07 | MASTER-Tunka | (13h 14m 22.85s , +56d 22m 39.2s) | C | 60 | 17.7 | 15337 | 2020-08-17 13:40:26 | MASTER-Tunka | (13h 28m 48.70s , +56d 22m 54.9s) | C | 60 | 17.7 | 15416 | 2020-08-17 13:41:46 | MASTER-Tunka | (12h 45m 42.90s , +56d 23m 42.2s) | C | 60 | 17.7 | 15496 | 2020-08-17 13:43:06 | MASTER-Tunka | (13h 00m 03.48s , +56d 22m 46.0s) | C | 60 | 17.8 | 15577 | 2020-08-17 13:44:27 | MASTER-Tunka | (13h 03m 00.68s , +54d 24m 04.9s) | C | 60 | 18.0 | 15657 | 2020-08-17 13:45:47 | MASTER-Tunka | (13h 16m 32.39s , +54d 23m 33.9s) | C | 60 | 18.2 | 15737 | 2020-08-17 13:47:06 | MASTER-Tunka | (13h 12m 57.57s , +58d 24m 26.9s) | C | 60 | 18.1 | 15816 | 2020-08-17 13:48:26 | MASTER-Tunka | (13h 28m 47.54s , +56d 23m 39.4s) | C | 60 | 18.1 | 15895 | 2020-08-17 13:49:45 | MASTER-Tunka | (12h 59m 59.01s , +56d 22m 13.0s) | C | 60 | 18.2 | 15975 | 2020-08-17 13:51:05 | MASTER-Tunka | (13h 16m 37.84s , +54d 22m 52.0s) | C | 60 | 18.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200816.17: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28252, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the Swift GRB200816.17 (trigger No 989458,13h 29m 50.64s , -22d 35m 24.0s, R=0.05) errorbox 68989 sec after notice time and 69033 sec after trigger time at 2020-08-16 23:17:55 UT, with upper limit up to 19.4 mag. Observations started at twilight. The observations began at zenith distance = 40 deg. The sun altitude is -15.1 deg. The galactic latitude b = 39 deg., longitude l = 315 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1420724 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 69123 | MASTER-OAFA | C | 180 | 19.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 619270776: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28251, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB200816.49 (trigger No 619270776,20h 00m 31.92s , -30d 13m 58.8s, R=19.17) errorbox 22943 sec after notice time and 22970 sec after trigger time at 2020-08-16 18:02:22 UT, with upper limit up to 18.0 mag. Observations started at twilight. The observations began at zenith distance = 74 deg. The sun altitude is -13.1 deg. The galactic latitude b = -28 deg., longitude l = 11 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1420890 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 23001 | 2020-08-16 18:02:22 | MASTER-Tavrida | (20h 03m 14.73s , -24d 03m 38.1s) | C | 60 | 15.3 | 23324 | 2020-08-16 18:07:45 | MASTER-Tavrida | (20h 20m 45.47s , -20d 03m 18.8s) | C | 60 | 16.1 | 23404 | 2020-08-16 18:09:05 | MASTER-Tavrida | (20h 11m 53.97s , -24d 03m 50.0s) | C | 60 | 14.6 | 23789 | 2020-08-16 18:15:30 | MASTER-Tavrida | (20h 20m 46.82s , -20d 04m 53.1s) | C | 60 | 17.1 | 23870 | 2020-08-16 18:16:51 | MASTER-Tavrida | (20h 29m 13.95s , -20d 03m 27.6s) | C | 60 | 16.4 | 24334 | 2020-08-16 18:24:35 | MASTER-Tavrida | (20h 29m 11.82s , -20d 03m 10.2s) | C | 60 | 17.4 | 24496 | 2020-08-16 18:27:17 | MASTER-Tavrida | (20h 37m 16.16s , -22d 04m 52.4s) | C | 60 | 15.2 | 24576 | 2020-08-16 18:28:37 | MASTER-Tavrida | (20h 02m 43.85s , -22d 04m 18.8s) | C | 60 | 17.9 | 24737 | 2020-08-16 18:31:18 | MASTER-Tavrida | (20h 22m 59.74s , -18d 04m 10.6s) | C | 60 | 18.0 | 24818 | 2020-08-16 18:32:39 | MASTER-Tavrida | (20h 37m 11.09s , -22d 05m 25.1s) | C | 60 | 16.5 | 24898 | 2020-08-16 18:33:59 | MASTER-Tavrida | (20h 45m 55.37s , -22d 05m 11.4s) | C | 60 | 13.2 | 24979 | 2020-08-16 18:35:20 | MASTER-Tavrida | (20h 02m 43.60s , -22d 03m 15.9s) | C | 60 | 17.9 | 25059 | 2020-08-16 18:36:40 | MASTER-Tavrida | (20h 11m 21.66s , -22d 04m 47.9s) | C | 60 | 18.0 | 25140 | 2020-08-16 18:38:01 | MASTER-Tavrida | (20h 26m 56.21s , -28d 03m 39.8s) | C | 60 | 13.1 | 25301 | 2020-08-16 18:40:42 | MASTER-Tavrida | (20h 22m 53.80s , -18d 03m 15.7s) | C | 60 | 18.0 | 25382 | 2020-08-16 18:42:03 | MASTER-Tavrida | (20h 31m 23.61s , -18d 04m 26.5s) | C | 60 | 18.0 | 25462 | 2020-08-16 18:43:23 | MASTER-Tavrida | (20h 45m 49.88s , -22d 05m 41.2s) | C | 60 | 16.9 | 25542 | 2020-08-16 18:44:43 | MASTER-Tavrida | (20h 11m 24.79s , -22d 05m 04.8s) | C | 60 | 18.0 | 25703 | 2020-08-16 18:47:24 | MASTER-Tavrida | (20h 31m 20.86s , -18d 05m 18.0s) | C | 60 | 18.0 | 25784 | 2020-08-16 18:48:45 | MASTER-Tavrida | (20h 37m 42.47s , -20d 04m 37.2s) | C | 60 | 17.9 | 25865 | 2020-08-16 18:50:06 | MASTER-Tavrida | (20h 40m 52.69s , -26d 04m 41.2s) | C | 60 | 16.3 | 25945 | 2020-08-16 18:51:26 | MASTER-Tavrida | (20h 05m 16.68s , -26d 04m 37.9s) | C | 60 | 17.8 | 26026 | 2020-08-16 18:52:48 | MASTER-Tavrida | (19h 50m

40.47s , -28d 04m 38.2s) | C | 60 | 17.9 | 26107 | 2020-08-16 18:54:08 | MASTER-Tavrida | (20h 37m 48.30s , -20d 04m 02.0s) | C | 60 | 17.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Zhirkov, K., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. HAWC alert 200815.26: MASTER optical observations // GRB Coordinates Network, 2020, V. 28249, p. 1
MASTER Global Robotic Net (Lipunov et al., "MASTER Global Robotic Net",Advances in Astronomy, 2010, 30L) started HAWC alert 200815.26 (Ttrigger=2020-08-15 06:20:17UT, Tnotice=2020-08-15 06:21:34UT) observations 92s after notice time at 2020-08-15 06:23:06UT at altitude 42 deg (sun altitude -60deg) with unfiltered upper limit 20.0m. Observations and analysis will be continued. The cover map is (and far information will be) available at https://master.sai.msu.ru/site/master2/event.php?id=1420231

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200809B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28243, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200809B (Fermi GBM team, GCN 28236) errorbox 27196 sec after notice time and 27226 sec after trigger time at 2020-08-09 23:15:13 UT, with upper limit up to 18.3 mag. Observations started at twilight. The observations began at zenith distance = 71 deg. The sun altitude is -15.3 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200809B errorbox 1 days 4224 sec after notice time and 1 days 4253 sec after trigger time at 2020-08-10 16:52:21 UT, with upper limit up to 17.9 mag. Observations started at twilight. The observations began at zenith distance = 65 deg. The sun altitude is -9.8 deg. The galactic latitude b = -40 deg., longitude l = 307 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1416521 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 27316 | 2020-08-09 23:15:13 | MASTER-OAFA | (01h 02m 46.23s , -74d 39m 11.1s) | C | 180 | 18.0 | 27749 | 2020-08-09 23:22:26 | MASTER-OAFA | (01h 02m 47.91s , -74d 41m 22.8s) | C | 180 | 18.1 | 28173 | 2020-08-09 23:29:29 | MASTER-OAFA | (01h 02m 50.85s , -74d 39m 24.3s) | C | 180 | 18.2 | 28598 | 2020-08-09 23:36:34 | MASTER-OAFA | (01h 02m 54.25s , -74d 39m 46.9s) | C | 180 | 18.2 | 29023 | 2020-08-09 23:43:40 | MASTER-OAFA | (01h 02m 49.90s , -74d 39m 21.1s) | C | 180 | 18.0 | 29448 | 2020-08-09 23:50:44 | MASTER-OAFA | (01h 02m 50.04s , -74d 41m 20.6s) | C | 180 | 18.0 | 31197 | 2020-08-10 00:19:53 | MASTER-OAFA | (01h 02m 59.48s , -74d 39m 21.9s) | C | 180 | 18.3 | 31618 | 2020-08-10 00:26:55 | MASTER-OAFA | (01h 02m 53.37s , -74d 39m 10.0s) | C | 180 | 18.3 | 57541 | 2020-08-10 07:38:58 | MASTER-OAFA | (01h 02m 58.89s , -74d 41m 01.4s) | C | 180 | 16.8 | 57741 | 2020-08-10 07:42:17 | MASTER-OAFA | (01h 02m 56.20s , -74d 39m 38.4s) | C | 180 | 17.1 | 57940 | 2020-08-10 07:45:37 | MASTER-OAFA | (01h 02m 56.15s , -74d 41m 07.6s) | C | 180 | 17.4 | 58140 | 2020-08-10 07:48:57 | MASTER-OAFA | (01h 02m 59.81s , -74d 39m 27.4s) | C | 180 | 17.2 | 58340 | 2020-08-10 07:52:16 | MASTER-OAFA | (01h 02m 53.24s , -74d 40m 19.7s) | C | 180 | 16.6 | 58539 | 2020-08-10 07:55:36 | MASTER-OAFA | (01h 02m 53.57s , -74d 39m 21.4s) | C | 180 | 16.5 | 90684 | 2020-08-10 16:52:21 | MASTER-SAAO | (23h 43m 25.70s , -78d 04m 51.2s) | C | 60 | 17.5 | 90684 | 2020-08-10 16:52:21 | MASTER-SAAO | (00h 17m 44.42s , -78d 03m 55.8s) | C | 60 | 17.4 | 90763 | 2020-08-10 16:53:40 | MASTER-SAAO | (23h 43m 26.71s , -78d 04m 49.1s) | C | 60 | 17.6 | 90763 | 2020-08-10 16:53:40 | MASTER-SAAO | (00h 17m 45.09s , -78d 03m 53.9s) | C | 60 | 17.5 | 90843 | 2020-08-10 16:55:00 | MASTER-SAAO | (23h 40m 17.20s , -80d 05m 50.2s) | C | 60 | 17.7 | 90843 | 2020-08-10 16:55:00 | MASTER-SAAO | (00h 21m 30.38s , -80d 04m 52.9s) | C | 60 | 17.6 | 90923 | 2020-08-10 16:56:20 | MASTER-SAAO | (00h 15m 05.09s , -76d 03m 10.0s) | C | 60 | 17.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 618642276: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28233, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB200809.21 (trigger No 618642276,15h 46m 40.08s , -42d 36m 00.0s, R=30.72) errorbox 284 sec after notice time and 312 sec after trigger time at 2020-08-09 05:09:43 UT, with upper limit up to 17.4 mag. The observations began at zenith distance = 64 deg. The sun altitude is -73.4 deg. The galactic latitude b = 9 deg., longitude l = 334 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1416263 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 342 | 2020-08-09 05:09:43 | MASTER-OAFA | (16h 23m 31.69s , -41d 13m 46.0s) | C | 60 | 17.3 | 421 | 2020-08-09 05:11:02 | MASTER-OAFA | (16h 11m 38.74s , -43d 15m 21.2s) | C | 60 | 17.3 | 501 | 2020-08-09 05:12:22 | MASTER-OAFA | (16h 15m 03.33s , -39d 13m 53.7s) | C | 60 | 17.4 | 580 | 2020-08-09 05:13:42 | MASTER-OAFA | (16h 02m 08.45s , -41d 13m 35.9s) | C | 60 | 17.1 | 660 | 2020-08-09 05:15:01 | MASTER-OAFA | (16h 23m 31.84s , -41d 14m 45.6s) | C | 60 | 17.3 | 739 | 2020-08-09 05:16:20 | MASTER-OAFA | (16h 34m 16.65s , -41d 14m 04.2s) | C | 60 | 17.2 | 819 | 2020-08-09 05:17:40 | MASTER-OAFA | (16h 11m 44.50s , -43d 14m 19.5s) | C | 60 | 17.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200808A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28231, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB 200808A (Fermi GBM team, GCN 28230) errorbox 15558 sec after notice time and 15585 sec after trigger time at 2020-08-08 15:35:43 UT, with upper limit up to 15.1 mag. The observations began at zenith distance = 48 deg. The sun altitude is -19.8 deg. The galactic latitude b = 2 deg., longitude l = 125 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1415866 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 15616 | 2020-08-08 15:35:43 | MASTER-Tunka | (01h 17m 33.52s , +55d 38m 40.5s) | C | 60 | 15.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200806A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28212, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB 200806A (E. Ambrosi et al., GCN 28211) errorbox 17964 sec after notice time and 17986 sec after trigger time at 2020-08-06 20:28:36 UT, with upper limit up to 17.5 mag. The observations began at zenith distance = 80 deg. The sun altitude is -26.8 deg. The galactic latitude b = -15 deg., longitude l = 156 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1414905 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 18076 | MASTER-Tavrida | C | 180 | 16.8 | 21887 | MASTER-Tavrida | C | 180 | 17.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200806.58: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28209, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) was pointed to the IceCube Alert 200806.58 (trigger No 59221243,10h 28m 28.32s , +47d 43m 01.2s, R=0.51)

errorbox 3743 sec after notice time and 3789 sec after trigger time at 2020-08-06 14:54:06 UT, with upper limit up to 17.8 mag. Observations started at twilight. The observations began at zenith distance = 70 deg. The sun altitude is -16.0 deg. The galactic latitude b = 56 deg., longitude l = 167 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1414858 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 3880 | 2020-08-06 14:54:06 | MASTER-Tunka | (10h 28m 41.70s , +48d 02m 12.2s) | C | 180 | 17.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Zhirkov, K., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. GRB 200803B: MASTER possibly OT discovery // GRB Coordinates Network, 2020, V. 28208, p. 1
MASTER Global Robotic Net started Fermi GRB 200803B(Fermi GBM team, GCN 28201) errorbox 27 sec after notice time (55 sec after trigger time) at 2020-08-03 16:53:38 UT, with upper limit up to 18.6 mag. (GCN 28204) Observations started at twilight at zenith distance = 10 deg, the sun altitude was -10.9 deg. The cover map with discovered OT is at alert page https://master.sai.msu.ru/site/master2/event.php?id=1413139 MASTER OT J144603.45-413156.7 discovery (AT2020qvn) During these alert observations (Fermi inspection, open mode for twin MASTER, and fast coverage of large error-box by 8 square deg.) MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 14h 46m 03.45s -41d 31m 56.7s on 2020-08-03.70644 UT. The OT unfiltered magnitude is 17.9m (mlim=18.1). The OT is seen in 5 images. There is no any known sources in VIZIER and minor planet at this place We have reference image on 2017-05-28.87608 UT with unfiltered mlim=20.9m. Spectral observations are required (it also can be MilkyWay's CV, PSN in 52" from 6df galaxy (z=0.05128, B=16.96,R=15.97, too far for PSN but can be). The discovery and reference images are available at: http://master.sai.msu.ru/static/OT/144603.45-413156.7.png Spectral observations and deep photometry are required.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200803B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28204, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200803B (Fermi GBM team, GCN 28201) errorbox 558 sec after notice time and 586 sec after trigger time at 2020-08-03 17:02:29 UT, with upper limit up to 18.9 mag. Observations started at twilight. The observations began at zenith distance = 25 deg. The sun altitude is -12.7 deg. The galactic latitude b = 20 deg., longitude l = 308 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1413147 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 646 | 2020-08-03 17:02:29 | MASTER-SAAO | (13h 17m 10.58s , -42d 23m 09.6s) | C | 120 | 18.1 | 807 | 2020-08-03 17:04:55 | MASTER-SAAO | (13h 17m 11.44s , -42d 22m 10.7s) | C | 150 | 18.2 | 807 | 2020-08-03 17:04:55 | MASTER-SAAO | (13h 07m 35.82s , -42d 23m 16.8s) | C | 150 | 18.7 | 991 | 2020-08-03 17:07:45 | MASTER-SAAO | (13h 17m 16.35s , -42d 23m 11.8s) | C | 180 | 18.2 | 991 | 2020-08-03 17:07:45 | MASTER-SAAO | (13h 07m 40.58s , -42d 24m 18.0s) | C | 180 | 18.9 | 1191 | 2020-08-03 17:11:04 | MASTER-SAAO | (13h 17m 11.97s , -42d 24m 13.2s) | C | 180 | 18.1 | 1191 | 2020-08-03 17:11:04 | MASTER-SAAO | (13h 07m 36.04s , -42d 25m 19.1s) | C | 180 | 18.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. GRB 200803A: MASTER optical counterpart discovery // GRB Coordinates Network, 2020, V. 28202, p. 1
MASTER Global Robotic Net inspected GRB 200803A (MASTER Lipunov et al. GCN 28198, Fermi LAT GCN 28199) The result is optical counterpart discovery with classical OT decay MASTER OT J204422.34-625641.8 discovery MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 20h 44m 22.34s -62d 56m 41.8s on 2020-08-03.15015 UT. The OT unfiltered magnitude is 15.8m (mlim=17.7). The OT is seen in 13 images. There is no minor planet at this place. We have reference image on 2015-04-04.15164 UT with unfiltered mlim= 19.9m. Spectral observations are required.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LAT GRB200803.15: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28199, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the LAT GRB200803.15 (trigger No 200803149,20h 45m 09.60s , -63d 04m 48.0s, R=0.46) errorbox 107 sec after trigger time at 2020-08-03 03:36:13 UT, with upper limit up to 18.4 mag. The observations began at zenith distance = 54 deg. The sun altitude is -23.5 deg. The galactic latitude b = -37 deg., longitude l = 333 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1413058 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 117 | 2020-08-03 03:36:13 | MASTER-SAAO | (20h 58m 19.87s , -62d 07m 21.8s) | C | 20 | 17.4 | 117 | 2020-08-03 03:36:13 | MASTER-SAAO | (20h 43m 15.94s , -62d 08m 01.9s) | C | 20 | 17.3 | 162 | 2020-08-03 03:36:52 | MASTER-SAAO | (20h 58m 19.46s , -62d 06m 21.5s) | C | 30 | 17.7 | 162 | 2020-08-03 03:36:53 | MASTER-SAAO | (20h 43m 16.07s , -62d 07m 01.3s) | C | 30 | 17.5 | 217 | 2020-08-03 03:37:42 | MASTER-SAAO | (20h 58m 25.16s , -62d 07m 20.7s) | C | 40 | 17.7 | 217 | 2020-08-03 03:37:42 | MASTER-SAAO | (20h 43m 21.25s , -62d 08m 01.0s) | C | 40 | 17.7 | 281 | 2020-08-03 03:38:42 | MASTER-SAAO | (20h 58m 18.78s , -62d 08m 20.2s) | C | 50 | 17.3 | 281 | 2020-08-03 03:38:42 | MASTER-SAAO | (20h 43m 14.45s , -62d 09m 00.3s) | C | 50 | 17.4 | 356 | 2020-08-03 03:39:51 | MASTER-SAAO | (20h 58m 23.73s , -62d 08m 19.8s) | C | 60 | 18.0 | 356 | 2020-08-03 03:39:51 | MASTER-SAAO | (20h 43m 19.42s , -62d 08m 59.6s) | C | 60 | 17.8 | 639 | 2020-08-03 03:44:05 | MASTER-SAAO | (20h 59m 38.80s , -62d 04m 25.4s) | C | 120 | 18.4 | 639 | 2020-08-03 03:44:05 | MASTER-SAAO | (20h 44m 36.50s , -62d 05m 05.2s) | C | 120 | 18.1 | 789 | 2020-08-03 03:46:24 | MASTER-SAAO | (20h 59m 38.20s , -62d 03m 23.4s) | C | 140 | 18.2 | 789 | 2020-08-03 03:46:24 | MASTER-SAAO | (20h 44m 36.56s , -62d 04m 02.7s) | C | 140 | 18.1 | 964 | 2020-08-03 03:49:04 | MASTER-SAAO | (20h 59m 44.87s , -62d 04m 22.3s) | C | 170 | 18.3 | 964 | 2020-08-03 03:49:04 | MASTER-SAAO | (20h 44m 42.77s , -62d 05m 01.8s) | C | 170 | 18.1 | 1158 | 2020-08-03 03:52:14 | MASTER-SAAO | (20h 59m 38.04s , -62d 05m 21.5s) | C | 180 | 18.4 | 1158 | 2020-08-03 03:52:14 | MASTER-SAAO | (20h 44m 35.46s , -62d 06m 00.8s) | C | 180 | 18.2 | 1357 | 2020-08-03 03:55:33 | MASTER-SAAO | (20h 59m 42.62s , -62d 05m 06.0s) | C | 180 | 18.3 | 1357 | 2020-08-03 03:55:33 | MASTER-SAAO | (20h 44m 40.17s , -62d 05m 44.4s) | C | 180 | 18.2 | 1557 | 2020-08-03 03:58:52 | MASTER-SAAO | (20h 59m 39.66s , -62d 03m 31.5s) | C | 180 | 18.2 | 1557 | 2020-08-03 03:58:52 | MASTER-SAAO | (20h 44m 38.10s , -62d 04m 09.5s) | C | 180 | 18.1 | 1756 | 2020-08-03 04:02:12 | MASTER-SAAO | (20h 59m 39.41s , -62d 05m 01.5s) | C | 180 | 18.2 | 1756 | 2020-08-03 04:02:12 | MASTER-SAAO | (20h 44m 37.33s , -62d 05m 39.6s) | C | 180 | 18.1 | 1896 | 2020-08-03 04:05:32 | MASTER-SAAO | (20h 46m 24.22s , -64d 02m 24.8s) | C | 60 | 18.1 | 1896 | 2020-08-03 04:05:32 | MASTER-SAAO | (20h 30m 19.82s , -64d 02m 58.5s) | C | 60 | 18.0 | 2148 | 2020-08-03 04:09:43 | MASTER-SAAO | (20h 51m 06.05s , -62d 04m 36.1s) | C | 60 | 17.7 | 2227 | 2020-08-03 04:11:03 | MASTER-SAAO | (20h 46m 17.65s , -64d 04m 27.7s) | C | 60 | 18.0 | 2227 | 2020-08-03 04:11:03 | MASTER-SAAO | (20h 30m 12.34s , -64d 05m 00.7s) | C | 60 | 17.9 | 2387 | 2020-08-03 04:13:42 | MASTER-SAAO | (20h 31m 48.01s , -62d 02m 08.5s) | C | 60 | 17.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200803A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28198, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200803A (Fermi GBM team, GCN 28196) errorbox 47 sec after notice time and 74 sec after trigger time at 2020-08-03 03:35:40 UT, with upper limit up to 18.4 mag. The observations began at zenith distance = 50 deg. The sun altitude is -23.6 deg. The galactic latitude b = -37 deg., longitude l = 330 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1412844 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit|

Comment 79 | 2020-08-03 03:35:40 | MASTER-SAAO | (21h 32m 06.21s , -63d 47m 40.4s) | C | 10 | 17.1 | 79 | 2020-08-03 03:35:40 | MASTER-SAAO | (21h 16m 08.66s , -63d 48m 22.1s) | C | 10 | 17.0 | 117 | 2020-08-03 03:36:13 | MASTER-SAAO | (20h 58m 19.87s , -62d 07m 21.8s) | C | 20 | 17.4 | 117 | 2020-08-03 03:36:13 | MASTER-SAAO | (20h 43m 15.94s , -62d 08m 01.9s) | C | 20 | 17.3 | 161 | 2020-08-03 03:36:52 | MASTER-SAAO | (20h 58m 19.46s , -62d 06m 21.5s) | C | 30 | 17.7 | 161 | 2020-08-03 03:36:53 | MASTER-SAAO | (20h 43m 16.07s , -62d 07m 01.3s) | C | 30 | 17.5 | 216 | 2020-08-03 03:37:42 | MASTER-SAAO | (20h 58m 25.16s , -62d 07m 20.7s) | C | 40 | 17.7 | 216 | 2020-08-03 03:37:42 | MASTER-SAAO | (20h 43m 21.25s , -62d 08m 01.0s) | C | 40 | 17.7 | 281 | 2020-08-03 03:38:42 | MASTER-SAAO | (20h 58m 18.78s , -62d 08m 20.2s) | C | 50 | 17.3 | 281 | 2020-08-03 03:38:42 | MASTER-SAAO | (20h 43m 14.45s , -62d 09m 00.3s) | C | 50 | 17.4 | 355 | 2020-08-03 03:39:51 | MASTER-SAAO | (20h 58m 23.73s , -62d 08m 19.8s) | C | 60 | 18.0 | 355 | 2020-08-03 03:39:51 | MASTER-SAAO | (20h 43m 19.42s , -62d 08m 59.6s) | C | 60 | 17.8 | 639 | 2020-08-03 03:44:05 | MASTER-SAAO | (20h 59m 38.80s , -62d 04m 25.4s) | C | 120 | 18.4 | 639 | 2020-08-03 03:44:05 | MASTER-SAAO | (20h 44m 36.50s , -62d 05m 05.2s) | C | 120 | 18.1 | 788 | 2020-08-03 03:46:24 | MASTER-SAAO | (20h 59m 38.20s , -62d 03m 23.4s) | C | 140 | 18.2 | 788 | 2020-08-03 03:46:24 | MASTER-SAAO | (20h 44m 36.56s , -62d 04m 02.7s) | C | 140 | 18.1 | 963 | 2020-08-03 03:49:04 | MASTER-SAAO | (20h 59m 44.87s , -62d 04m 22.3s) | C | 170 | 18.3 | 963 | 2020-08-03 03:49:04 | MASTER-SAAO | (20h 44m 42.77s , -62d 05m 01.8s) | C | 170 | 18.1 | 1157 | 2020-08-03 03:52:14 | MASTER-SAAO | (20h 59m 38.04s , -62d 05m 21.5s) | C | 180 | 18.4 | 1157 | 2020-08-03 03:52:14 | MASTER-SAAO | (20h 44m 35.46s , -62d 06m 00.8s) | C | 180 | 18.2 | 1357 | 2020-08-03 03:55:33 | MASTER-SAAO | (20h 59m 42.62s , -62d 05m 06.0s) | C | 180 | 18.3 | 1357 | 2020-08-03 03:55:33 | MASTER-SAAO | (20h 44m 40.17s , -62d 05m 44.4s) | C | 180 | 18.2 | 1556 | 2020-08-03 03:58:52 | MASTER-SAAO | (20h 59m 39.66s , -62d 03m 31.5s) | C | 180 | 18.2 | 1556 | 2020-08-03 03:58:52 | MASTER-SAAO | (20h 44m 38.10s , -62d 04m 09.5s) | C | 180 | 18.1 | 1756 | 2020-08-03 04:02:12 | MASTER-SAAO | (20h 59m 39.41s , -62d 05m 01.5s) | C | 180 | 18.2 | 1756 | 2020-08-03 04:02:12 | MASTER-SAAO | (20h 44m 37.33s , -62d 05m 39.6s) | C | 180 | 18.1 | 1895 | 2020-08-03 04:05:32 | MASTER-SAAO | (20h 46m 24.22s , -64d 02m 24.8s) | C | 60 | 18.1 | 1895 | 2020-08-03 04:05:32 | MASTER-SAAO | (20h 30m 19.82s , -64d 02m 58.5s) | C | 60 | 18.0 | 2147 | 2020-08-03 04:09:43 | MASTER-SAAO | (21h 06m 07.28s , -62d 03m 57.9s) | C | 60 | 18.0 | 2147 | 2020-08-03 04:09:43 | MASTER-SAAO | (20h 51m 06.05s , -62d 04m 36.1s) | C | 60 | 17.7 | 2227 | 2020-08-03 04:11:03 | MASTER-SAAO | (20h 46m 17.65s , -64d 04m 27.7s) | C | 60 | 18.0 | 2227 | 2020-08-03 04:11:03 | MASTER-SAAO | (20h 30m 12.34s , -64d 05m 00.7s) | C | 60 | 17.9 | 2307 | 2020-08-03 04:12:23 | MASTER-SAAO | (21h 23m 04.83s , -64d 05m 11.2s) | C | 60 | 18.1 | 2307 | 2020-08-03 04:12:23 | MASTER-SAAO | (21h 06m 58.62s , -64d 05m 49.1s) | C | 60 | 17.9 | 2386 | 2020-08-03 04:13:42 | MASTER-SAAO | (20h 31m 48.01s , -62d 02m 08.5s) | C | 60 | 17.8 | 2386 | 2020-08-03 04:13:42 | MASTER-SAAO | (20h 16m 48.47s , -62d 02m 41.6s) | C | 60 | 17.7 | 2466 | 2020-08-03 04:15:02 | MASTER-SAAO | (21h 04m 46.12s , -66d 04m 21.7s) | C | 60 | 17.9 | 2466 | 2020-08-03 04:15:02 | MASTER-SAAO | (20h 47m 25.31s , -66d 04m 53.5s) | C | 60 | 17.9 | 2546 | 2020-08-03 04:16:22 | MASTER-SAAO | (21h 12m 34.17s , -58d 03m 28.1s) | C | 60 | 17.7 | 2546 | 2020-08-03 04:16:22 | MASTER-SAAO | (20h 59m 16.32s , -58d 04m 09.5s) | C | 60 | 17.5 | 2626 | 2020-08-03 04:17:42 | MASTER-SAAO | (21h 22m 58.71s , -64d 04m 09.6s) | C | 60 | 17.9 | 2626 | 2020-08-03 04:17:42 | MASTER-SAAO | (21h 06m 53.08s , -64d 04m 46.3s) | C | 60 | 17.7 | 2706 | 2020-08-03 04:19:02 | MASTER-SAAO | (20h 31m 44.41s , -62d 02m 04.4s) | C | 60 | 17.8 | 2706 | 2020-08-03 04:19:02 | MASTER-SAAO | (20h 16m 44.79s , -62d 02m 36.9s) | C | 60 | 17.7 | 2785 | 2020-08-03 04:20:21 | MASTER-SAAO | (21h 04m 49.16s , -66d 03m 46.7s) | C | 60 | 18.0 | 2785 | 2020-08-03 04:20:21 | MASTER-SAAO | (20h 47m 28.61s , -66d 04m 17.9s) | C | 60 | 18.0 | 3125 | 2020-08-03 04:26:01 | MASTER-SAAO | (21h 12m 27.15s , -58d 04m 47.1s) | C | 60 | 17.5 | 3125 | 2020-08-03 04:26:01 | MASTER-SAAO | (20h 59m 21.24s , -58d 05m 36.2s) | C | 60 | 17.3 | 3374 | 2020-08-03 04:30:10 | MASTER-SAAO | (21h 40m 16.15s , -62d 03m 51.9s) | C | 60 | 17.4 | 3374 | 2020-08-03 04:30:10 | MASTER-SAAO | (21h 25m 21.18s , -62d 04m 45.3s) | C | 60 | 17.2 | 3454 | 2020-08-03 04:31:30 | MASTER-SAAO | (20h 25m 05.24s , -66d 02m 51.4s) | C | 60 | 17.2 | 3454 | 2020-08-03 04:31:30 | MASTER-SAAO | (20h 07m 53.31s , -66d 03m 26.9s) | C | 60 | 17.1 | 3709 | 2020-08-03 04:35:45 | MASTER-SAAO | (21h 40m 10.66s , -62d 05m 20.6s) | C | 60 | 16.8 | 3709 | 2020-08-03 04:35:45 | MASTER-SAAO | (21h 25m 14.14s , -62d 06m 15.2s) | C | 60 | 16.9 | 3789 | 2020-08-03 04:37:05 | MASTER-SAAO | (20h 25m 09.83s , -66d 03m 27.2s) | C | 60 | 16.7 | 3789 | 2020-08-03 04:37:05 | MASTER-SAAO | (20h 07m 57.18s , -66d 04m 03.3s) | C | 60 | 16.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200801B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28195, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200801B (Fermi GBM team, GCN 28184) errorbox 1 days 31237 sec after notice time and 1 days 31265 sec after trigger time at 2020-08-03 00:16:52 UT, with upper limit up to 17.8 mag. The observations began at zenith distance = 74 deg. The sun altitude is -64.7 deg. The galactic latitude b = -40 deg., longitude l = 235 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1412095 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 117695 | 2020-08-03 00:16:52 | MASTER-SAAO | (04h 34m 14.12s , -34d 00m 12.6s) | C | 60 | 17.2 | 117775 | 2020-08-03 00:18:11 | MASTER-SAAO | (04h 40m 57.39s , -36d 00m 44.9s) | C | 60 | 17.4 | 117855 | 2020-08-03 00:19:31 | MASTER-SAAO | (04h 27m 58.81s , -31d 59m 52.9s) | C | 60 | 16.7 | 118436 | 2020-08-03 00:29:13 | MASTER-SAAO | (04h 34m 12.90s , -34d 00m 26.1s) | C | 60 | 17.4 | 118516 | 2020-08-03 00:30:32 | MASTER-SAAO | (04h 41m 02.38s , -36d 01m 46.2s) | C | 60 | 17.6 | 118596 | 2020-08-03 00:31:52 | MASTER-SAAO | (04h 28m 06.15s , -32d 00m 17.9s) | C | 60 | 17.0 | 118755 | 2020-08-03 00:34:32 | MASTER-SAAO | (04h 38m 34.73s , -32d 00m 30.4s) | C | 60 | 17.0 | 118755 | 2020-08-03 00:34:32 | MASTER-SAAO | (04h 46m 51.81s , -31d 59m 19.5s) | C | 60 | 16.7 | 118835 | 2020-08-03 00:35:52 | MASTER-SAAO | (04h 45m 06.92s , -34d 01m 26.8s) | C | 60 | 17.6 | 118835 | 2020-08-03 00:35:52 | MASTER-SAAO | (04h 53m 35.54s , -34d 00m 14.9s) | C | 60 | 17.3 | 118915 | 2020-08-03 00:37:11 | MASTER-SAAO | (04h 40m 53.02s , -30d 01m 20.5s) | C | 60 | 16.9 | 119074 | 2020-08-03 00:39:51 | MASTER-SAAO | (04h 38m 38.04s , -32d 00m 48.7s) | C | 60 | 17.3 | 119074 | 2020-08-03 00:39:51 | MASTER-SAAO | (04h 46m 55.19s , -31d 59m 37.1s) | C | 60 | 16.9 | 119154 | 2020-08-03 00:41:10 | MASTER-SAAO | (04h 45m 03.41s , -34d 01m 59.9s) | C | 60 | 17.8 | 119154 | 2020-08-03 00:41:10 | MASTER-SAAO | (04h 53m 32.11s , -34d 00m 47.6s) | C | 60 | 17.5 | 119234 | 2020-08-03 00:42:30 | MASTER-SAAO | (04h 40m 59.17s , -29d 59m 21.2s) | C | 60 | 17.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200802A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28194, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200802A (Fermi GBM team, GCN 28190) errorbox 23912 sec after notice time and 23939 sec after trigger time at 2020-08-02 18:25:46 UT, with upper limit up to 18.4 mag. Observations started at twilight. The observations began at zenith distance = 42 deg. The sun altitude is -12.9 deg. The galactic latitude b = 0 deg., longitude l = 101 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1412536 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 23969 | 2020-08-02 18:25:46 | MASTER-Tavrida | (21h 53m 53.03s , +55d 48m 42.6s) | C | 60 | 17.4 | 24050 | 2020-08-02 18:27:06 | MASTER-Tavrida | (21h 44m 23.60s , +53d 47m 50.9s) | C | 60 | 17.6 | 24130 | 2020-08-02 18:28:27 | MASTER-Tavrida | (22h 11m 29.27s , +53d 47m 31.8s) | C | 60 | 17.4 | 24211 | 2020-08-02 18:29:47 | MASTER-Tavrida | (22h 03m 06.05s , +51d 48m 25.7s) | C | 60 | 17.4 | 24292 | 2020-08-02 18:31:08 | MASTER-Tavrida | (21h 53m 46.84s , +55d 49m 41.1s) | C | 60 | 17.8 | 24372 | 2020-08-02 18:32:28 | MASTER-Tavrida | (22h 08m 10.23s , +55d 48m 26.3s) | C | 60 | 17.5 | 24453 | 2020-08-02 18:33:49 | MASTER-Tavrida | (21h 44m 17.10s , +53d 47m 47.6s) | C | 60 | 17.6 | 24533 | 2020-08-02 18:35:09 | MASTER-Tavrida | (21h 57m 56.37s , +53d 47m 37.7s) | C | 60 | 17.6 | 24613 | 2020-08-02 18:36:30 | MASTER-Tavrida | (22h 11m 29.20s , +53d 48m 57.1s) | C | 60 | 17.4 | 24694 | 2020-08-02 18:37:50 | MASTER-Tavrida | (22h 25m 03.70s , +53d 47m 14.3s) | C | 60 | 17.4 | 24774 | 2020-08-02 18:39:11 | MASTER-Tavrida | (22h 03m 10.46s , +51d 49m 20.7s) | C | 60 | 17.5 | 24855 | 2020-08-02 18:40:31 | MASTER-Tavrida | (22h 16m 04.26s , +51d 48m 13.9s) | C | 60 | 17.4 | 24935 | 2020-08-02 18:41:52 | MASTER-Tavrida | (22h 08m 03.50s , +55d 49m 27.6s) | C | 60 | 17.6 | 25016 | 2020-08-02 18:43:12 | MASTER-Tavrida | (21h 57m 56.48s , +53d 48m 34.3s) | C | 60 | 17.7 | 25097 | 2020-08-02 18:44:33 | MASTER-Tavrida | (22h 25m 00.63s , +53d 47m 09.2s) | C | 60 | 17.5 | 25177 | 2020-08-02 18:45:53 | MASTER-Tavrida | (22h 16m 08.72s , +51d 47m 15.5s) | C | 60 | 17.4 | 25257 | 2020-08-02 18:47:14 | MASTER-Tavrida | (22h 06m 02.45s , +57d 47m 54.6s) | C | 60 | 16.1 | 25338 | 2020-08-02 18:48:34 | MASTER-Tavrida | (22h 22m 20.31s , +55d 48m 14.7s) | C | 60 | 15.2 | 25499 | 2020-08-02 18:51:15 | MASTER-Tavrida | (21h 35m 58.27s , +57d 48m 19.6s) | C | 60 | 14.4 | 25579 | 2020-08-02 18:52:36 | MASTER-Tavrida | (22h 06m 02.60s , +57d 49m 15.7s) | C | 60 | 15.4 | 25660 | 2020-08-02 18:53:56 | MASTER-Tavrida | (22h 21m 06.03s , +57d 47m 49.9s) | C | 60 | 17.1 | 25982 | 2020-08-02 18:59:18 | MASTER-Tavrida | (21h 50m 12.78s , +51d 48m 42.9s) | C | 60 | 17.6 | 26062 | 2020-08-02 19:00:39 | MASTER-Tavrida | (21h 35m 52.16s , +57d 48m 12.2s) | C | 60 | 18.1 | 26143 | 2020-08-02 19:01:59 | MASTER-Tavrida | (21h 51m 01.50s , +57d 48m 14.2s) | C | 60 | 18.2 | 26224 | 2020-08-02 19:03:20 | MASTER-Tavrida | (22h 21m 05.95s , +57d 48m 58.5s) | C | 60 | 17.9 | 26385 | 2020-08-02 19:06:01 | MASTER-Tavrida | (21h 50m 11.28s , +51d 49m 36.6s) | C | 60 | 17.9 | 26465 | 2020-08-02 19:07:21 | MASTER-Tavrida | (21h 50m 55.03s , +57d 48m 56.1s) | C | 60 | 17.9 | 27704 | 2020-08-02 19:28:00 | MASTER-Tavrida | (21h 36m 31.11s , +55d 55m

06.0s) | C | 60 | 18.2 | 28469 | 2020-08-02 19:40:45 | MASTER-Tavrida | (21h 36m 31.68s , +55d 55m 09.0s) | C | 60 | 18.2 | 29195 | 2020-08-02 19:52:51 | MASTER-Tavrida | (22h 02m 25.38s , +59d 54m 02.8s) | C | 60 | 18.4 | 29598 | 2020-08-02 19:59:34 | MASTER-Tavrida | (22h 02m 21.74s , +59d 53m 49.1s) | C | 60 | 18.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, . %P ., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200801A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28188, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200801A (Fermi GBM team, GCN 28183) errorbox 34900 sec after notice time and 34953 sec after trigger time at 2020-08-01 18:09:47 UT, with upper limit up to 18.1 mag. Observations started at twilight. The observations began at zenith distance = 52 deg. The sun altitude is -10.5 deg. The galactic latitude b = 24 deg., longitude l = 128 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1411903 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 34983 | 2020-08-01 18:09:47 | MASTER-Tavrida | (04h 52m 24.50s , +83d 37m 44.5s) | C | 60 | 16.8 | 35073 | 2020-08-01 18:11:17 | MASTER-Tavrida | (04h 50m 58.02s , +81d 47m 15.2s) | C | 60 | 16.9 | 35154 | 2020-08-01 18:12:38 | MASTER-Tavrida | (06h 27m 11.91s , +83d 49m 36.9s) | C | 60 | 17.0 | 35244 | 2020-08-01 18:14:08 | MASTER-Tavrida | (06h 00m 13.29s , +79d 40m 02.5s) | C | 60 | 17.0 | 35338 | 2020-08-01 18:15:41 | MASTER-Tavrida | (03h 54m 47.29s , +83d 47m 10.7s) | C | 60 | 17.2 | 35432 | 2020-08-01 18:17:16 | MASTER-Tavrida | (06h 08m 47.59s , +83d 39m 45.9s) | C | 60 | 17.2 | 35525 | 2020-08-01 18:18:49 | MASTER-Tavrida | (04h 50m 50.77s , +81d 46m 56.3s) | C | 60 | 17.2 | 35619 | 2020-08-01 18:20:22 | MASTER-Tavrida | (06h 32m 02.39s , +81d 39m 49.6s) | C | 60 | 17.5 | 35710 | 2020-08-01 18:21:54 | MASTER-Tavrida | (06h 27m 04.12s , +83d 51m 10.0s) | C | 60 | 17.5 | 35791 | 2020-08-01 18:23:15 | MASTER-Tavrida | (07h 43m 53.85s , +83d 51m 37.2s) | C | 60 | 17.7 | 35879 | 2020-08-01 18:24:43 | MASTER-Tavrida | (06h 00m 24.24s , +79d 40m 38.7s) | C | 60 | 17.5 | 35970 | 2020-08-01 18:26:14 | MASTER-Tavrida | (06h 10m 58.25s , +79d 50m 22.2s) | C | 60 | 17.6 | 36061 | 2020-08-01 18:27:44 | MASTER-Tavrida | (06h 08m 50.26s , +83d 40m 42.9s) | C | 60 | 17.6 | 36152 | 2020-08-01 18:29:16 | MASTER-Tavrida | (05h 48m 10.13s , +81d 49m 29.8s) | C | 60 | 17.6 | 36233 | 2020-08-01 18:30:37 | MASTER-Tavrida | (07h 43m 51.48s , +83d 51m 20.6s) | C | 60 | 17.9 | 36324 | 2020-08-01 18:32:07 | MASTER-Tavrida | (06h 46m 25.83s , +79d 40m 23.0s) | C | 60 | 17.7 | 36416 | 2020-08-01 18:33:40 | MASTER-Tavrida | (05h 51m 45.35s , +85d 47m 23.0s) | C | 60 | 18.0 | 36509 | 2020-08-01 18:35:13 | MASTER-Tavrida | (07h 29m 36.27s , +81d 42m 24.0s) | C | 60 | 17.8 | 36607 | 2020-08-01 18:36:51 | MASTER-Tavrida | (03h 53m 21.08s , +79d 46m 52.5s) | C | 60 | 17.7 | 36697 | 2020-08-01 18:38:21 | MASTER-Tavrida | (03h 40m 28.93s , +81d 35m 39.9s) | C | 60 | 17.8 | 36783 | 2020-08-01 18:39:47 | MASTER-Tavrida | (05h 51m 23.79s , +85d 49m 06.8s) | C | 60 | 18.1 | 36864 | 2020-08-01 18:41:08 | MASTER-Tavrida | (07h 46m 32.69s , +85d 50m 35.8s) | C | 60 | 18.1 | 36955 | 2020-08-01 18:42:38 | MASTER-Tavrida | (07h 29m 45.55s , +81d 43m 03.6s) | C | 60 | 17.9 | 37046 | 2020-08-01 18:44:09 | MASTER-Tavrida | (07h 43m 08.60s , +81d 52m 40.4s) | C | 60 | 17.8 | 37131 | 2020-08-01 18:45:34 | MASTER-Tavrida | (04h 28m 33.88s , +79d 38m 31.9s) | C | 60 | 17.9 | 37222 | 2020-08-01 18:47:06 | MASTER-Tavrida | (04h 39m 10.84s , +79d 47m 57.1s) | C | 60 | 17.9 | 37311 | 2020-08-01 18:48:35 | MASTER-Tavrida | (03h 40m 24.02s , +81d 35m 17.2s) | C | 60 | 17.9 | 37401 | 2020-08-01 18:50:05 | MASTER-Tavrida | (03h 53m 50.36s , +81d 45m 42.5s) | C | 60 | 17.9 | 37482 | 2020-08-01 18:51:25 | MASTER-Tavrida | (07h 46m 08.69s , +85d 51m 58.2s) | C | 60 | 18.1 | 37562 | 2020-08-01 18:52:46 | MASTER-Tavrida | (07h 43m 09.17s , +81d 52m 05.9s) | C | 60 | 17.9 | 37648 | 2020-08-01 18:54:12 | MASTER-Tavrida | (05h 14m 32.31s , +79d 39m 29.2s) | C | 60 | 17.8 | 37741 | 2020-08-01 18:55:45 | MASTER-Tavrida | (03h 53m 40.51s , +81d 46m 40.7s) | C | 60 | 17.9 | 37839 | 2020-08-01 18:57:22 | MASTER-Tavrida | (07h 32m 40.93s , +79d 42m 37.1s) | C | 60 | 18.0 | 37934 | 2020-08-01 18:58:58 | MASTER-Tavrida | (05h 48m 24.14s , +77d 48m 58.2s) | C | 60 | 17.7 | 38029 | 2020-08-01 19:00:32 | MASTER-Tavrida | (07h 34m 59.26s , +77d 41m 55.8s) | C | 60 | 17.7 | 38125 | 2020-08-01 19:02:08 | MASTER-Tavrida | (08h 40m 57.58s , +81d 54m 05.9s) | C | 60 | 18.0 | 38214 | 2020-08-01 19:03:38 | MASTER-Tavrida | (07h 32m 37.41s , +79d 43m 33.5s) | C | 60 | 18.0 | 38306 | 2020-08-01 19:05:09 | MASTER-Tavrida | (07h 43m 21.99s , +79d 52m 53.6s) | C | 60 | 17.9 | 38386 | 2020-08-01 19:06:30 | MASTER-Tavrida | (08h 29m 38.12s , +79d 53m 02.5s) | C | 60 | 17.9 | 38474 | 2020-08-01 19:07:57 | MASTER-Tavrida | (06h 18m 00.72s , +77d 41m 32.2s) | C | 60 | 17.5 | 38565 | 2020-08-01 19:09:29 | MASTER-Tavrida | (06h 26m 48.90s , +77d 50m 17.7s) | C | 60 | 17.6 | 38661 | 2020-08-01 19:11:04 | MASTER-Tavrida | (07h 35m 04.96s , +77d 43m 44.5s) | C | 60 | 17.7 | 38753 | 2020-08-01 19:12:36 | MASTER-Tavrida | (07h 43m 49.50s , +77d 53m 04.6s) | C | 60 | 17.8 | 38833 | 2020-08-01 19:13:57 | MASTER-Tavrida | (08h 40m 54.82s , +81d 55m 06.3s) | C | 60 | 18.0 | 38914 | 2020-08-01 19:15:17 | MASTER-Tavrida | (09h 38m 56.99s , +81d 55m 19.2s) | C | 60 | 18.1 | 38995 | 2020-08-01 19:16:38 | MASTER-Tavrida | (07h 43m 18.16s , +79d 51m 50.2s) | C | 60 | 18.0 | 39075 | 2020-08-01 19:17:59 | MASTER-Tavrida | (08h 29m 38.88s , +79d 53m 23.6s) | C | 60 | 17.9 | 39156 | 2020-08-01 19:19:19 | MASTER-Tavrida | (09h 15m 51.15s , +79d 55m 44.5s) | C | 60 | 18.1 | 39244 | 2020-08-01 19:20:48 | MASTER-Tavrida | (06h 56m 29.59s , +77d 40m 51.8s) | C | 60 | 17.6 | 39335 | 2020-08-01 19:22:18 | MASTER-Tavrida | (07h 43m 55.57s , +77d 53m 36.5s) | C | 60 | 17.9 | 39416 | 2020-08-01 19:23:39 | MASTER-Tavrida | (09h 38m 51.67s , +81d 55m 16.0s) | C | 60 | 18.0 | 39496 | 2020-08-01 19:25:00 | MASTER-Tavrida | (09h 15m 48.46s , +79d 56m 00.9s) | C | 60 | 18.0 | 39577 | 2020-08-01 19:26:21 | MASTER-Tavrida | (08h 22m 27.12s , +77d 52m 58.1s) | C | 60 | 18.0 | 39663 | 2020-08-01 19:27:46 | MASTER-Tavrida | (05h 01m 15.10s , +77d 39m 23.8s) | C | 60 | 17.5 | 39755 | 2020-08-01 19:29:19 | MASTER-Tavrida | (04h 59m 27.29s , +75d 49m 30.7s) | C | 60 | 17.5 | 39846 | 2020-08-01 19:30:50 | MASTER-Tavrida | (04h 18m 58.77s , +75d 38m 44.0s) | C | 60 | 17.5 | 39931 | 2020-08-01 19:32:14 | MASTER-Tavrida | (08h 22m 32.13s , +77d 53m 58.7s) | C | 60 | 17.8 | 40013 | 2020-08-01 19:33:36 | MASTER-Tavrida | (09h 01m 06.46s , +77d 53m 50.0s) | C | 60 | 18.0 | 40093 | 2020-08-01 19:34:57 | MASTER-Tavrida | (04h 31m 38.87s , +77d 47m 31.9s) | C | 60 | 17.7 | 40187 | 2020-08-01 19:36:31 | MASTER-Tavrida | (05h 39m 38.29s , +77d 40m 21.8s) | C | 60 | 17.6 | 40280 | 2020-08-01 19:38:04 | MASTER-Tavrida | (04h 59m 26.72s , +75d 48m 05.5s) | C | 60 | 17.5 | 40374 | 2020-08-01 19:39:38 | MASTER-Tavrida | (05h 58m 03.05s , +75d 41m 06.1s) | C | 60 | 17.6 | 40455 | 2020-08-01 19:40:59 | MASTER-Tavrida | (04h 18m 56.67s , +75d 37m 43.9s) | C | 60 | 17.5 | 40536 | 2020-08-01 19:42:19 | MASTER-Tavrida | (04h 51m 58.21s , +75d 39m 27.2s) | C | 60 | 17.1 | 40620 | 2020-08-01 19:43:44 | MASTER-Tavrida | (09h 01m 11.58s , +77d 54m 55.6s) | C | 60 | 17.8 | 40705 | 2020-08-01 19:45:09 | MASTER-Tavrida | (05h 39m 33.70s , +77d 38m 34.7s) | C | 60 | 17.6 | 40797 | 2020-08-01 19:46:41 | MASTER-Tavrida | (05h 32m 30.39s , +75d 49m 15.9s) | C | 60 | 17.6 | 40888 | 2020-08-01 19:48:12 | MASTER-Tavrida | (04h 52m 00.54s , +75d 39m 09.6s) | C | 60 | 17.2 | 40969 | 2020-08-01 19:49:33 | MASTER-Tavrida | (03h 44m 23.28s , +77d 37m 57.2s) | C | 60 | 17.4 | 41050 | 2020-08-01 19:50:54 | MASTER-Tavrida | (02h 56m 37.96s , +79d 41m 26.2s) | C | 60 | 17.5 | 41130 | 2020-08-01 19:52:14 | MASTER-Tavrida | (04h 45m 15.05s , +73d 37m 22.5s) | C | 60 | 17.2 | 41212 | 2020-08-01 19:53:36 | MASTER-Tavrida | (01h 46m 19.83s , +81d 46m 46.6s) | C | 60 | 17.6 | 41379 | 2020-08-01 19:56:22 | MASTER-Tavrida | (03h 44m 15.87s , +77d 37m 45.9s) | C | 60 | 17.5 | 41459 | 2020-08-01 19:57:43 | MASTER-Tavrida | (04h 22m 42.14s , +77d 37m 49.1s) | C | 60 | 17.7 | 41540 | 2020-08-01 19:59:03 | MASTER-Tavrida | (02h 56m 32.46s , +79d 42m 21.3s) | C | 60 | 17.6 | 41620 | 2020-08-01 20:00:24 | MASTER-Tavrida | (03h 42m 28.22s , +79d 36m 56.9s) | C | 60 | 17.6 | 41701 | 2020-08-01 20:01:44 | MASTER-Tavrida | (04h 45m 08.18s , +73d 37m 26.6s) | C | 60 | 17.3 | 41842 | 2020-08-01 20:04:05 | MASTER-Tavrida | (04h 53m 28.85s , +73d 48m 27.0s) | C | 60 | 13.9 | 41926 | 2020-08-01 20:05:30 | MASTER-Tavrida | (01h 46m 29.45s , +81d 47m 10.7s) | C | 60 | 17.8 | 42007 | 2020-08-01 20:06:50 | MASTER-Tavrida | (02h 43m 15.42s , +81d 42m 34.8s) | C | 60 | 17.7 | 42091 | 2020-08-01 20:08:14 | MASTER-Tavrida | (07h 11m 36.93s , +75d 52m 26.4s) | C | 60 | 17.3 | 42178 | 2020-08-01 20:09:42 | MASTER-Tavrida | (04h 22m 42.79s , +77d 38m 52.6s) | C | 60 | 17.6 | 42259 | 2020-08-01 20:11:03 | MASTER-Tavrida | (03h 42m 33.58s , +79d 38m 17.8s) | C | 60 | 17.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200801.84: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28186, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB200801.84 (trigger No 985320,18h 46m 31.20s , -02d 59m 24.0s, R=0.05) errorbox 17 sec after notice time and 35 sec after trigger time at 2020-08-01 20:12:22 UT, with upper limit up to 15.8 mag. The observations began at zenith distance = 30 deg. The sun altitude is -52.8 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB200801.84 errorbox 22 sec after notice time and 40 sec after trigger time at 2020-08-01 20:12:27 UT, with upper limit up to 15.9 mag. The observations began at zenith distance = 47 deg. The sun altitude is -24.3 deg. The galactic latitude b = -1 deg., longitude l = 30 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1412204 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 40 | MASTER-SAAO | P/ | 10 | 15.7 | 40 | MASTER-SAAO | P\ | 10 | 15.8 | 45 | MASTER-Tavrida | C | 10 | 15.9 | 76 | MASTER-Tavrida | C | 10 | 15.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Burgess, J. M., Greiner, J., Bégué, D., Giannios, D., Berlato, F., & Lipunov, V. M. Viewing short Gamma-ray Bursts from a different angle // Frontiers in Astronomy and Space Sciences, 2020, V. 7, p. 40
The detection of a faint, short gamma-ray burst (GRB) in coincidence with the gravitational wave (GW) detection by aLIGO/Virgo is at odds with the expected known luminosity and redshift distribution of short GRBs (sGRB). Examining the observer-frame parameter space of all Fermi-GBM sGRBs shows that the sGRB associated with GW 170817A is extreme in its combination of flux, spectral softness and temporal structure. We identify a group of similar GRBs, one of which has been associated to a bright galaxy at 75 Mpc. We speculate that a good fraction of the previously detected faint sGRBs is not at large redshifts, but local, at redshift smaller than 0.1, seen off- axis. We incorporate off-axis emission in the estimate of the rates of sGRBs, and predict that the majority of future GW-detections of NS-NS mergers will be accompanied by faint γ-ray emission, contrary to previous thinking. The much more frequent off-axis emission of sGRBs also implies a higher deadly rate of -rays for extraterrestrial life in the Universe.

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Shumkov, V., Lipunov, V., Buckley, D., Gorbovskoy, E., Kornilov, V., Gress, O., Tiurina, N., Vladimirov, V., Zhirkov, K., et al. MASTER: new bright high amplitude OT // The Astronomer's Telegram, 2020, V. 13954, p. 1
AT2020rpo MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 19h 13m 10.16s -47d 24m 58.8s on 2020-08-18.77586 UT. The OT unfiltered magnitude is 15.8m (mlim=20.1).

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Zhirkov, K., Lipunov, V., Buckley, D., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Gress, O., Gabovich, A., et al. MASTER OT J224524.92+211742.0: bright high amplitude OT // The Astronomer's Telegram, 2020, V. 13934, p. 1
AT2020ray MASTER-IAC auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 22h 45m 24.92s +21d 17m 42.0s on 2020-08-10.10981 UT. The OT unfiltered magnitude is 17.0m (mlim=18.1).

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Pogrosheva, T., Zhirkov, K., Lipunov, V., Podesta, R., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Gress, O., et al. MASTER: PSN in PGC895148 and CV outburst // The Astronomer's Telegram, 2020, V. 13926, p. 1
AT2020qzb MASTER-OAFA auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 12h 41m 51.44s -16d 40m 08.2s on 2020-08-08.98620 UT. The OT unfiltered magnitude is 17.2m(mlim=19.3).

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Vladimirov, V., Lipunov, V., Buckley, D., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Gress, O., Gabovich, A., et al. MASTER OT J144603.45-413156.7: GRB 200803B possible optical counterpart // The Astronomer's Telegram, 2020, V. 13920, p. 1
AT2020qvn During Fermi GRB 200803B inspection (Fermi GCN #28201, Lipunov et al. GCN #28208, GCN #28204), started 27 sec after notice time (55 sec after trigger time) at 2020-08-03 16:53:38 UT with upper limit up to 18.6 mag, we found possible optical counterpart , see cover map and OT position MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 14h 46m 03.45s -41d 31m 56.7s on 2020-08-03.70644 UT. The OT unfiltered magnitude is 17.9m (mlim=18.1).

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Lipunov, V., Buckley, D., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Gress, O., Gabovich, A., Kuznetsov, A., et al. MASTER OT J204422.34-625641.8 - optical counterpart of GRB 200803A // The Astronomer's Telegram, 2020, V. 13916, p. 1
During Fermi GBM GRB200803A (GCN #28196, Ttrigger=03:34:26.57UT) alert observations (Lipunov et al. GCN #28198, GCN #28199, MASTER cover map), started 47 sec after notice time (74 sec after trigger time) at 2020-08-03 03:35:40 UT MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 20h 44m 22.34s -62d 56m 41.8s with unfiltered (Lipunov et al. GCN #29202).

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Zhirkov, K., Lipunov, V., Kornilov, V., Rebolo, R., Serra-Ricart, M., Buckley, D., Podesta, R., Podesta, F., Gorbovskoy, E., et al. MASTER: prediscovery images of PGIR20eid / AT2020qmp // The Astronomer's Telegram, 2020, V. 13915, p. 1

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Vladimirov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-29 // Transient Name Server Discovery Report, 2020, V. 2020-2321, p. 1

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Vladimrov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-27 // Transient Name Server Discovery Report, 2020, V. 2020-2294, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-27 // Transient Name Server Discovery Report, 2020, V. 2020-2293, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Zhirkov, K., Balanutsa, P., Kuznetsov, A., Balakin, F., et al. MASTER Transient Discovery Report for 2020-07-27 // Transient Name Server Discovery Report, 2020, V. 2020-2292, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-25 // Transient Name Server Discovery Report, 2020, V. 2020-2267, p. 1

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Zhirkov, K., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-24 // Transient Name Server Discovery Report, 2020, V. 2020-2252, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-07-23 // Transient Name Server Discovery Report, 2020, V. 2020-2239, p. 1

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Vladimirov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-20 // Transient Name Server Discovery Report, 2020, V. 2020-2199, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-20 // Transient Name Server Discovery Report, 2020, V. 2020-2198, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-17 // Transient Name Server Discovery Report, 2020, V. 2020-2163, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-15 // Transient Name Server Discovery Report, 2020, V. 2020-2144, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-12 // Transient Name Server Discovery Report, 2020, V. 2020-2101, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-11 // Transient Name Server Discovery Report, 2020, V. 2020-2092, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-11 // Transient Name Server Discovery Report, 2020, V. 2020-2091, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-07-10 // Transient Name Server Discovery Report, 2020, V. 2020-2079, p. 1

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Shurpakov, S., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-08 // Transient Name Server Discovery Report, 2020, V. 2020-2062, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-04 // Transient Name Server Discovery Report, 2020, V. 2020-2031, p. 1

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Gress, O., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-07-02 // Transient Name Server Discovery Report, 2020, V. 2020-2014, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-07-01 // Transient Name Server Discovery Report, 2020, V. 2020-2002, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200729A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28166, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) was pointed to the Swift GRB 200729A (P. A. Evans et al., GCN 28165) errorbox 3549 sec after notice time and 3617 sec after trigger time at 2020-07-29 20:38:22 UT, with upper limit up to 15.9 mag. Observations started at twilight. The observations began at zenith distance = 48 deg. The sun altitude is -9.7 deg. The galactic latitude b = 71 deg., longitude l = 140 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1410562 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____|_____ 3707 | MASTER-IAC | P- | 180 | 15.3 | 3946 | MASTER-IAC | P- | 180 | 15.9 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200728.35: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28164, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the IceCube Alert 200728.35 (trigger No 10548129,07h 50m 13.20s , -24d 50m 52.8s, R=0.51) errorbox

70580 sec after notice time and 70645 sec after trigger time at 2020-07-29 03:55:17 UT, with upper limit up to 18.3 mag. The observations began at zenith distance = 78 deg. The sun altitude is -20.1 deg. The galactic latitude b = 1 deg., longitude l = 242 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1409244 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 70735 | 2020-07-29 03:55:17 | MASTER-SAAO | (07h 50m 00.35s , -24d 45m 50.2s) | C | 180 | 18.3 | 70735 | 2020-07-29 03:55:17 | MASTER-SAAO | (07h 50m 58.29s , -24d 45m 33.9s) | C | 180 | 17.1 | 71015 | 2020-07-29 03:59:56 | MASTER-SAAO | (07h 49m 59.89s , -24d 46m 17.7s) | C | 180 | 17.9 | 71015 | 2020-07-29 03:59:56 | MASTER-SAAO | (07h 50m 57.46s , -24d 46m 03.2s) | C | 180 | 17.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200726.66: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28162, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Baksan Neutrino Observatory Alert 200726.66 (trigger No 1646495705,04h 52m 48.00s , +27d 00m 00.0s, R=3) errorbox 1 days 41162 sec after notice time and 1 days 41762 sec after trigger time at 2020-07-28 03:31:06 UT, with upper limit up to 19.0 mag. The observations began at zenith distance = 73 deg. The sun altitude is -25.3 deg. The galactic latitude b = -10 deg., longitude l = 175 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1408430 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 128192 | 2020-07-28 03:31:06 | MASTER-SAAO | (04h 35m 39.23s , +23d 58m 25.0s) | C | 60 | 18.8 | 128192 | 2020-07-28 03:31:06 | MASTER-SAAO | (04h 43m 15.40s , +23d 59m 13.2s) | C | 60 | 18.3 | 129657 | 2020-07-28 03:55:31 | MASTER-SAAO | (04h 35m 22.08s , +23d 59m 35.6s) | C | 60 | 17.8 | 129657 | 2020-07-28 03:55:31 | MASTER-SAAO | (04h 42m 57.87s , +24d 00m 31.2s) | C | 60 | 16.4 | 129737 | 2020-07-28 03:56:51 | MASTER-SAAO | (04h 39m 59.87s , +25d 57m 24.2s) | C | 60 | 17.7 | 129737 | 2020-07-28 03:56:51 | MASTER-SAAO | (04h 47m 42.91s , +25d 58m 14.7s) | C | 60 | 17.1 | 129816 | 2020-07-28 03:58:10 | MASTER-SAAO | (04h 45m 12.90s , +27d 58m 25.8s) | C | 60 | 17.4 | 129816 | 2020-07-28 03:58:10 | MASTER-SAAO | (04h 53m 04.09s , +27d 59m 17.6s) | C | 60 | 16.7 | 129896 | 2020-07-28 03:59:30 | MASTER-SAAO | (04h 52m 56.16s , +23d 59m 07.5s) | C | 60 | 17.3 | 129896 | 2020-07-28 03:59:30 | MASTER-SAAO | (05h 00m 31.82s , +23d 59m 59.2s) | C | 60 | 16.0 | 130461 | 2020-07-28 04:08:55 | MASTER-SAAO | (05h 05m 31.51s , +25d 58m 28.2s) | C | 60 | 15.1 | 130541 | 2020-07-28 04:10:15 | MASTER-SAAO | (04h 40m 11.26s , +29d 57m 33.5s) | C | 60 | 16.3 | 131100 | 2020-07-28 04:19:34 | MASTER-SAAO | (04h 39m 47.65s , +25d 57m 31.3s) | C | 60 | 19.0 | 131100 | 2020-07-28 04:19:34 | MASTER-SAAO | (04h 47m 31.02s , +25d 58m 27.1s) | C | 60 | 13.5 | 131180 | 2020-07-28 04:20:54 | MASTER-SAAO | (04h 45m 01.30s , +27d 57m 42.3s) | C | 60 | 18.4 | 131180 | 2020-07-28 04:20:54 | MASTER-SAAO | (04h 52m 52.90s , +27d 58m 36.9s) | C | 60 | 13.4 | 131259 | 2020-07-28 04:22:13 | MASTER-SAAO | (04h 52m 49.13s , +23d 59m 54.3s) | C | 60 | 18.8 | 131259 | 2020-07-28 04:22:13 | MASTER-SAAO | (05h 00m 25.38s , +24d 00m 46.6s) | C | 60 | 15.0 | 131586 | 2020-07-28 04:27:40 | MASTER-SAAO | (04h 57m 37.02s , +26d 00m 01.7s) | C | 60 | 17.6 | 131586 | 2020-07-28 04:27:40 | MASTER-SAAO | (05h 05m 21.80s , +26d 00m 52.0s) | C | 60 | 13.1 | 131666 | 2020-07-28 04:29:00 | MASTER-SAAO | (04h 40m 05.34s , +29d 58m 17.5s) | C | 60 | 15.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200723A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28157, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB 200723A (Fermi GBM team, GCN 28155) errorbox 61 sec after notice time and 87 sec after trigger time at 2020-07-23 16:36:52 UT, with upper limit up to 19.3 mag. The observations began at zenith distance = 12 deg. The sun altitude is -18.6 deg. The galactic latitude b = 33 deg., longitude l = 90 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1406982 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 98 | 2020-07-23 16:36:52 | MASTER-Tunka | (18h 25m 28.78s , +57d 41m 39.0s) | P| | 20 | 16.9 | 138 | 2020-07-23 16:37:33 | MASTER-Tunka | (17h 10m 07.98s , +60d 43m 48.8s) | P| | 20 | 17.3 | 182 | 2020-07-23 16:38:12 | MASTER-Tunka | (17h 10m 03.28s , +60d 42m 46.7s) | P| | 30 | 17.7 | 237 | 2020-07-23 16:39:01 | MASTER-Tunka | (17h 10m 09.23s , +60d 42m 45.4s) | P| | 40 | 17.8 | 301 | 2020-07-23 16:40:00 | MASTER-Tunka | (17h 10m 05.43s , +60d 44m 21.0s) | P| | 50 | 18.1 | 381 | 2020-07-23 16:41:10 | MASTER-Tunka | (17h 10m 05.24s , +60d 42m 58.8s) | P| | 70 | 18.4 | 465 | 2020-07-23 16:42:39 | MASTER-Tunka | (16h 54m 47.92s , +59d 52m 11.4s) | C | 60 | 19.3 | 581 | 2020-07-23 16:44:35 | MASTER-Tunka | (16h 52m 45.47s , +61d 52m 08.0s) | C | 60 | 18.9 | 690 | 2020-07-23 16:45:54 | MASTER-Tunka | (16h 36m 47.21s , +57d 55m 40.5s) | P| | 120 | 18.9 | 845 | 2020-07-23 16:48:14 | MASTER-Tunka | (16h 36m 53.38s , +57d 55m 51.2s) | P| | 150 | 19.0 | 1029 | 2020-07-23 16:51:03 | MASTER-Tunka | (16h 36m 49.68s , +57d 57m 08.3s) | P| | 180 | 19.0 | 1228 | 2020-07-23 16:54:22 | MASTER-Tunka | (16h 36m 49.18s , +57d 55m 45.7s) | P| | 180 | 19.0 | 1538 | 2020-07-23 17:00:33 | MASTER-Tunka | (16h 54m 46.63s , +59d 52m 54.7s) | C | 60 | 19.0 | 1619 | 2020-07-23 17:01:53 | MASTER-Tunka | (17h 10m 54.87s , +59d 51m 40.0s) | C | 60 | 19.0 | 1698 | 2020-07-23 17:03:13 | MASTER-Tunka | (16h 52m 36.95s , +61d 50m 49.9s) | C | 60 | 19.0 | 1778 | 2020-07-23 17:04:32 | MASTER-Tunka | (17h 09m 48.78s , +61d 50m 45.5s) | C | 60 | 19.1 | 2691 | 2020-07-23 17:19:45 | MASTER-Tunka | (17h 10m 50.96s , +59d 50m 26.8s) | C | 60 | 18.5 | 2771 | 2020-07-23 17:21:05 | MASTER-Tunka | (17h 09m 50.15s , +61d 50m 39.3s) | C | 60 | 19.1 | 2867 | 2020-07-23 17:22:42 | MASTER-Tunka | (17h 00m 03.82s , +58d 20m 47.8s) | C | 60 | 19.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200718A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28143, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200718A (Fermi GBM team, GCN 28140) errorbox 24097 sec after notice time and 24129 sec after trigger time at 2020-07-18 21:33:02 UT, with upper limit up to 20.4 mag. The observations began at zenith distance = 32 deg. The sun altitude is -70.4 deg. The galactic latitude b = 10 deg., longitude l = 26 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1403477 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 24220 | 2020-07-18 21:33:02 | MASTER-SAAO | (18h 46m 18.81s , +00d 03m 58.2s) | C | 180 | 19.1 | 24220 | 2020-07-18 21:33:02 | MASTER-SAAO | (18h 39m 29.75s , +00d 03m 03.8s) | C | 180 | 19.3 | 24419 | 2020-07-18 21:36:21 | MASTER-SAAO | (18h 46m 12.45s , +00d 03m 32.9s) | C | 180 | 20.1 | 24419 | 2020-07-18 21:36:21 | MASTER-SAAO | (18h 39m 23.34s , +00d 02m 37.4s) | C | 180 | 19.5 | 24619 | 2020-07-18 21:39:41 | MASTER-SAAO | (18h 46m 13.45s , +00d 04m 39.1s) | B | 180 | 20.4 | 24619 | 2020-07-18 21:39:41 | MASTER-SAAO | (18h 39m 24.06s , +00d 03m 42.6s) | V | 180 | 18.4 | 24819 | 2020-07-18 21:43:01 | MASTER-SAAO | (18h 46m 18.45s , +00d 03m 41.8s) | B | 180 | 20.3 | 24819 | 2020-07-18 21:43:01 | MASTER-SAAO | (18h 39m 29.05s , +00d 02m 44.8s) | V | 180 | 18.4 | 25018 | 2020-07-18 21:46:20 | MASTER-SAAO | (18h 46m 11.15s , +00d 02m 44.3s) | B | 180 | 20.4 | 25018 | 2020-07-18 21:46:20 | MASTER-SAAO | (18h 39m 21.74s , +00d 01m 47.1s) | V | 180 | 18.4 | 25218 | 2020-07-18 21:49:40 | MASTER-SAAO | (18h 46m 17.22s , +00d 03m 07.3s) | R | 180 | 18.5 | 25218 | 2020-07-18 21:49:40 | MASTER-SAAO | (18h 39m 27.79s , +00d 02m 19.8s) | I | 180 | 18.0 | 25418 | 2020-07-18 21:53:00 | MASTER-SAAO | (18h 46m 13.86s , +00d 04m 19.2s) | R | 180 | 18.4 | 25418 | 2020-07-18 21:53:00 | MASTER-SAAO | (18h 39m 24.44s , +00d 03m 31.6s) | I | 180 | 17.8 | 25618 | 2020-07-18 21:56:20 | MASTER-SAAO | (18h 46m 13.32s , +00d 02m 44.8s) | R | 180 | 18.4 | 25618 | 2020-07-18 21:56:20 | MASTER-SAAO | (18h 39m 23.91s , +00d 01m 57.0s) | I | 180 | 17.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200716A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28134, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200716A (Fermi GBM team, GCN 28109) errorbox 55482 sec after notice time and 55509 sec after trigger time at 2020-07-16 16:51:47 UT, with upper limit up to 19.0 mag. Observations started at twilight. The observations began at zenith distance = 63 deg. The sun altitude is -12.5 deg. The galactic latitude b = 9 deg., longitude l = 252 deg. Real time updated cover map and OT discovered available here:

https://master.sai.msu.ru/site/master2/observ.php?id=1402195 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 55539 | 2020-07-16 16:51:47 | MASTER-SAAO | (09h 17m 38.83s , -17d 56m 49.4s) | C | 60 | 18.4 | 55539 | 2020-07-16 16:51:47 | MASTER-SAAO | (09h 10m 28.60s , -17d 57m 40.1s) | C | 60 | 18.1 | 56058 | 2020-07-16 17:00:25 | MASTER-SAAO | (09h 17m 34.76s , -17d 54m 58.7s) | C | 60 | 19.0 | 56058 | 2020-07-16 17:00:25 | MASTER-SAAO | (09h 10m 24.70s , -17d 55m 50.1s) | C | 60 | 18.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Swift GRB200716C: Global MASTER-Net OT detection // GRB Coordinates Network, 2020, V. 28125, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) was pointed to the GRB200716C (Ukwatta et al, GCN 28124) 55 sec after notice time and 79 sec after trigger time at 2020-07-16 22:59:00 UT. On our 5-th (50s exposure) set , obtained 243 sec after tigger time at 2020-07-16 23:01:45 UT, we found an optical transient within Swift error-box (ra=196.012 dec=29.6292 r=0.05) brighter. T-Tmid Date Time Expt. Ra Dec Mag ---------|---------------------|-------|-----------------|-----------------|----- 268 2020-07-16 23:01:45 50 (13h 04m 02.41s , +29d 38m 39.4s) 16.3 The 5-sigma upper limit has been about 16.6mag The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200716.96: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28122, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) was pointed to the Swift GRB200716.96 (trigger No 982707,13h 04m 03.12s , +29d 37m 48.0s, R=0.05) errorbox 55 sec after notice time and 79 sec after trigger time at 2020-07-16 22:59:00 UT, with upper limit up to 16.1 mag. The observations began at zenith distance = 59 deg. The sun altitude is -31.6 deg. The galactic latitude b = 86 deg., longitude l = 68 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1402659 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment
_____|_____|_____|_____ 84 | MASTER-IAC | P| | 10 | 15.5 | 121 | MASTER-IAC | P| | 20 | 16.1 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200716B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28119, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200716B (Fermi GBM team, GCN 28113) errorbox 45224 sec after notice time and 45252 sec after trigger time at 2020-07-16 20:08:40 UT, with upper limit up to 19.8 mag. The observations began at zenith distance = 74 deg. The sun altitude is -53.7 deg. The galactic latitude b = -70 deg., longitude l = 44 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1402322 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 45282 | 2020-07-16 20:08:40 | MASTER-SAAO | (22h 38m 50.10s , -18d 03m 55.3s) | C | 60 | 19.2 | 45282 | 2020-07-16 20:08:40 | MASTER-SAAO | (22h 46m 01.07s , -18d 03m 22.7s) | C | 60 | 17.1 | 45362 | 2020-07-16 20:10:00 | MASTER-SAAO | (22h 38m 13.09s , -20d 03m 06.5s) | C | 60 | 19.2 | 45362 | 2020-07-16 20:10:00 | MASTER-SAAO | (22h 45m 29.21s , -20d 02m 33.4s) | C | 60 | 18.0 | 45442 | 2020-07-16 20:11:20 | MASTER-SAAO | (22h 39m 22.40s , -22d 04m 22.9s) | C | 60 | 19.6 | 45442 | 2020-07-16 20:11:20 | MASTER-SAAO | (22h 46m 44.51s , -22d 03m 48.5s) | C | 60 | 18.4 | 45521 | 2020-07-16 20:12:39 | MASTER-SAAO | (22h 42m 03.41s , -24d 05m 39.3s) | C | 60 | 19.8 | 45521 | 2020-07-16 20:12:39 | MASTER-SAAO | (22h 49m 32.15s , -24d 05m 03.9s) | C | 60 | 19.1 | 45601 | 2020-07-16 20:13:59 | MASTER-SAAO | (22h 46m 43.65s , -26d 05m 52.0s) | C | 60 | 19.8 | 45601 | 2020-07-16 20:13:59 | MASTER-SAAO | (22h 54m 19.84s , -26d 05m 15.2s) | C | 60 | 19.0 | 46905 | 2020-07-16 20:35:43 | MASTER-SAAO | (22h 38m 50.90s , -18d 04m 05.7s) | C | 60 | 19.6 | 46905 | 2020-07-16 20:35:43 | MASTER-SAAO | (22h 46m 01.63s , -18d 03m 33.8s) | C | 60 | 18.9 | 46985 | 2020-07-16 20:37:03 | MASTER-SAAO | (22h 38m 08.68s , -20d 05m 22.3s) | C | 60 | 19.7 | 46985 | 2020-07-16 20:37:03 | MASTER-SAAO | (22h 45m 24.81s , -20d 04m 49.1s) | C | 60 | 19.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200714E: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28106, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 200714E (Fermi GBM team, GCN 28098) errorbox 8778 sec after notice time and 8805 sec after trigger time at 2020-07-14 21:01:50 UT, with upper limit up to 16.5 mag. Observations started at twilight. The observations began at zenith distance = 76 deg. The sun altitude is -12.5 deg. The galactic latitude b = 17 deg., longitude l = 321 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1401343 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 8836 | 2020-07-14 21:01:50 | MASTER-IAC | (14h 49m 10.37s , -47d 53m 55.1s) | C | 60 | 16.3 | 8836 | 2020-07-14 21:01:50 | MASTER-IAC | (14h 37m 06.81s , -47d 49m 28.7s) | C | 60 | 15.8 | 9188 | 2020-07-14 21:07:43 | MASTER-IAC | (14h 49m 16.41s , -47d 55m 48.3s) | C | 60 | 16.5 | 9188 | 2020-07-14 21:07:43 | MASTER-IAC | (14h 37m 12.64s , -47d 51m 21.3s) | C | 60 | 16.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200714D: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28102, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200714D (Fermi GBM team, GCN 28097) errorbox 9313 sec after notice time and 9342 sec after trigger time at 2020-07-14 18:27:58 UT, with upper limit up to 18.7 mag. Observations started at twilight. The observations began at zenith distance = 59 deg. The sun altitude is -10.0 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB 200714D errorbox 11912 sec after notice time and 11940 sec after trigger time at 2020-07-14 19:11:17 UT, with upper limit up to 19.3 mag. The observations began at zenith distance = 59 deg. The sun altitude is -19.3 deg. The galactic latitude b = -8 deg., longitude l = 117 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1401105 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 9372 | 2020-07-14 18:27:58 | MASTER-Tavrida | (23h 40m 26.22s , +63d 46m 42.1s) | C | 60 | 16.5 | 9453 | 2020-07-14 18:29:19 | MASTER-Tavrida | (23h 57m 01.87s , +61d 46m 41.9s) | C | 60 | 16.6 | 9533 | 2020-07-14 18:30:40 | MASTER-Tavrida | (23h 48m 25.51s , +61d 46m 41.7s) | C | 60 | 16.8 | 9614 | 2020-07-14 18:32:00 | MASTER-Tavrida | (23h 32m 54.46s , +65d 46m 18.1s) | C | 60 | 16.9 | 9694 | 2020-07-14 18:33:21 | MASTER-Tavrida | (23h 40m 21.86s , +63d 47m 42.5s) | C | 60 | 16.9 | 9775 | 2020-07-14 18:34:41 | MASTER-Tavrida | (23h 58m 37.81s , +63d 46m 26.9s) | C | 60 | 16.7 | 9856 | 2020-07-14 18:36:02 | MASTER-Tavrida | (23h 56m 56.98s , +61d 46m 10.8s) | C | 60 | 17.0 | 9936 | 2020-07-14 18:37:22 | MASTER-Tavrida | (00h 14m 02.59s , +61d 46m 30.3s) | C | 60 | 17.1 | 10017 | 2020-07-14 18:38:43 | MASTER-Tavrida | (23h 48m 26.20s , +61d 47m 57.3s) | C | 60 | 17.2 | 10097 | 2020-07-14 18:40:03 | MASTER-Tavrida | (00h 05m 24.60s , +61d 46m 37.8s) | C | 60 | 17.2 | 10178 | 2020-07-14 18:41:24 | MASTER-Tavrida | (23h 33m 01.10s , +65d 47m 02.5s) | C | 60 | 17.5 | 10258 | 2020-07-14 18:42:45 | MASTER-Tavrida | (23h 52m 31.76s , +65d 46m 01.4s) | C | 60 | 17.7 | 10339 | 2020-07-14 18:44:05 | MASTER-Tavrida | (23h 58m 31.29s , +63d 47m 34.1s) | C | 60 | 17.3 | 10419 | 2020-07-14 18:45:26 | MASTER-Tavrida | (00h 14m 01.33s , +61d 47m 10.3s) | C | 60 | 17.5 | 10500 | 2020-07-14 18:46:46 | MASTER-Tavrida | (00h 05m 21.87s , +61d 46m 11.5s) | C | 60 | 17.5 | 10580 | 2020-07-14 18:48:07 | MASTER-Tavrida | (23h 57m 07.19s , +59d 48m 41.0s) | C | 60 | 17.8 | 10661

| 2020-07-14 18:49:27 | MASTER-Tavrida | (23h 56m 37.11s , +67d 46m 22.8s) | C | 60 | 17.9 | 10741 | 2020-07-14 18:50:48 | MASTER-Tavrida | (23h 26m 06.10s , +67d 47m 33.4s) | C | 60 | 18.1 | 10822 | 2020-07-14 18:52:08 | MASTER-Tavrida | (00h 35m 53.12s , +65d 44m 12.8s) | C | 60 | 18.0 | 10902 | 2020-07-14 18:53:29 | MASTER-Tavrida | (23h 52m 36.80s , +65d 45m 31.1s) | C | 60 | 18.2 | 10983 | 2020-07-14 18:54:49 | MASTER-Tavrida | (23h 57m 07.55s , +59d 48m 34.7s) | C | 60 | 18.0 | 11063 | 2020-07-14 18:56:09 | MASTER-Tavrida | (00h 13m 03.78s , +59d 47m 19.9s) | C | 60 | 18.0 | 11144 | 2020-07-14 18:57:30 | MASTER-Tavrida | (23h 56m 36.75s , +67d 46m 36.2s) | C | 60 | 18.2 | 11224 | 2020-07-14 18:58:50 | MASTER-Tavrida | (00h 17m 46.73s , +67d 45m 01.1s) | C | 60 | 18.2 | 11305 | 2020-07-14 19:00:11 | MASTER-Tavrida | (23h 26m 05.74s , +67d 47m 49.9s) | C | 60 | 18.5 | 11385 | 2020-07-14 19:01:31 | MASTER-Tavrida | (23h 47m 27.89s , +67d 46m 10.7s) | C | 60 | 18.3 | 11466 | 2020-07-14 19:02:52 | MASTER-Tavrida | (00h 35m 52.80s , +65d 44m 31.3s) | C | 60 | 18.3 | 11546 | 2020-07-14 19:04:13 | MASTER-Tavrida | (00h 55m 35.26s , +65d 44m 33.0s) | C | 60 | 18.2 | 11627 | 2020-07-14 19:05:33 | MASTER-Tavrida | (00h 13m 04.33s , +59d 48m 40.5s) | C | 60 | 18.1 | 11707 | 2020-07-14 19:06:53 | MASTER-Tavrida | (00h 17m 48.58s , +67d 44m 28.7s) | C | 60 | 18.4 | 11788 | 2020-07-14 19:08:14 | MASTER-Tavrida | (23h 56m 49.55s , +63d 46m 54.3s) | C | 60 | 17.9 | 11869 | 2020-07-14 19:09:36 | MASTER-Tavrida | (23h 47m 22.47s , +67d 47m 25.1s) | C | 60 | 18.5 | 11950 | 2020-07-14 19:10:56 | MASTER-Tavrida | (00h 55m 34.12s , +65d 45m 18.3s) | C | 60 | 18.4 | 11971 | 2020-07-14 19:11:17 | MASTER-Kislovodsk | (00h 45m 35.80s , +63d 34m 55.7s) | C | 60 | 18.5 | 11971 | 2020-07-14 19:11:17 | MASTER-Kislovodsk | (00h 27m 04.12s , +64d 03m 49.9s) | C | 60 | 18.0 | 12030 | 2020-07-14 19:12:16 | MASTER-Tavrida | (23h 56m 46.97s , +65d 45m 41.2s) | C | 60 | 18.6 | 12051 | 2020-07-14 19:12:38 | MASTER-Kislovodsk | (00h 12m 00.02s , +69d 34m 32.0s) | C | 60 | 19.2 | 12051 | 2020-07-14 19:12:38 | MASTER-Kislovodsk | (23h 48m 16.56s , +70d 03m 59.3s) | C | 60 | 18.7 | 12110 | 2020-07-14 19:13:37 | MASTER-Tavrida | (23h 56m 53.27s , +63d 47m 42.3s) | C | 60 | 18.0 | 12132 | 2020-07-14 19:13:59 | MASTER-Kislovodsk | (00h 42m 31.29s , +61d 33m 09.4s) | C | 60 | 18.1 | 12133 | 2020-07-14 19:13:59 | MASTER-Kislovodsk | (00h 25m 15.40s , +62d 02m 01.6s) | C | 60 | 17.9 | 12191 | 2020-07-14 19:14:57 | MASTER-Tavrida | (00h 15m 04.13s , +63d 46m 16.9s) | C | 60 | 17.9 | 12213 | 2020-07-14 19:15:20 | MASTER-Kislovodsk | (00h 53m 33.16s , +67d 32m 37.8s) | C | 60 | 18.8 | 12213 | 2020-07-14 19:15:20 | MASTER-Kislovodsk | (00h 31m 56.86s , +68d 01m 49.7s) | C | 60 | 18.7 | 12271 | 2020-07-14 19:16:17 | MASTER-Tavrida | (00h 28m 57.73s , +59d 47m 53.5s) | C | 60 | 18.3 | 12294 | 2020-07-14 19:16:40 | MASTER-Kislovodsk | (00h 45m 38.12s , +63d 33m 01.8s) | C | 60 | 18.6 | 12294 | 2020-07-14 19:16:40 | MASTER-Kislovodsk | (00h 27m 09.53s , +64d 02m 00.9s) | C | 60 | 18.3 | 12351 | 2020-07-14 19:17:38 | MASTER-Tavrida | (23h 56m 40.48s , +65d 47m 44.0s) | C | 60 | 18.7 | 12374 | 2020-07-14 19:18:01 | MASTER-Kislovodsk | (00h 11m 59.20s , +69d 35m 34.0s) | C | 60 | 19.3 | 12374 | 2020-07-14 19:18:01 | MASTER-Kislovodsk | (23h 48m 16.49s , +70d 05m 05.4s) | C | 60 | 18.7 | 12432 | 2020-07-14 19:18:58 | MASTER-Tavrida | (00h 16m 22.05s , +65d 46m 21.5s) | C | 60 | 18.6 | 12455 | 2020-07-14 19:19:21 | MASTER-Kislovodsk | (00h 42m 32.62s , +61d 34m 16.5s) | C | 60 | 18.8 | 12455 | 2020-07-14 19:19:21 | MASTER-Kislovodsk | (00h 25m 16.99s , +62d 03m 09.1s) | C | 60 | 18.4 | 12512 | 2020-07-14 19:20:19 | MASTER-Tavrida | (00h 15m 01.31s , +63d 45m 52.3s) | C | 60 | 18.0 | 12535 | 2020-07-14 19:20:42 | MASTER-Kislovodsk | (00h 53m 27.01s , +67d 34m 26.7s) | C | 60 | 18.8 | 12535 | 2020-07-14 19:20:42 | MASTER-Kislovodsk | (00h 31m 49.89s , +68d 03m 39.4s) | C | 60 | 18.6 | 12593 | 2020-07-14 19:21:39 | MASTER-Tavrida | (00h 29m 02.81s , +59d 46m 53.4s) | C | 60 | 18.4 | 12616 | 2020-07-14 19:22:02 | MASTER-Kislovodsk | (00h 58m 40.96s , +69d 33m 07.4s) | C | 60 | 18.9 | 12616 | 2020-07-14 19:22:02 | MASTER-Kislovodsk | (00h 35m 02.58s , +70d 02m 29.9s) | C | 60 | 18.8 | 12673 | 2020-07-14 19:23:00 | MASTER-Tavrida | (00h 44m 57.63s , +59d 48m 47.6s) | C | 60 | 18.3 | 12777 | 2020-07-14 19:24:43 | MASTER-Kislovodsk | (23h 25m 58.19s , +61d 36m 20.2s) | C | 60 | 18.8 | 12777 | 2020-07-14 19:24:43 | MASTER-Kislovodsk | (23h 08m 37.45s , +62d 05m 19.5s) | C | 60 | 18.7 | 12857 | 2020-07-14 19:26:03 | MASTER-Kislovodsk | (23h 35m 26.42s , +69d 37m 08.0s) | C | 60 | 19.1 | 13018 | 2020-07-14 19:28:44 | MASTER-Kislovodsk | (23h 52m 44.46s , +63d 36m 59.4s) | C | 60 | 18.7 | 13018 | 2020-07-14 19:28:44 | MASTER-Kislovodsk | (23h 34m 10.74s , +64d 06m 06.5s) | C | 60 | 18.6 | 13098 | 2020-07-14 19:30:05 | MASTER-Kislovodsk | (00h 58m 36.39s , +69d 33m 26.6s) | C | 60 | 18.9 | 13098 | 2020-07-14 19:30:05 | MASTER-Kislovodsk | (00h 34m 56.85s , +70d 02m 50.8s) | C | 60 | 18.6 | 13259 | 2020-07-14 19:32:46 | MASTER-Kislovodsk | (23h 25m 59.05s , +61d 37m 28.3s) | C | 60 | 18.8 | 13259 | 2020-07-14 19:32:46 | MASTER-Kislovodsk | (23h 08m 36.68s , +62d 06m 26.2s) | C | 60 | 18.7 | 13340 | 2020-07-14 19:34:06 | MASTER-Kislovodsk | (23h 35m 23.46s , +69d 35m 32.9s) | C | 60 | 18.9 | 13501 | 2020-07-14 19:36:47 | MASTER-Kislovodsk | (23h 52m 43.40s , +63d 37m 13.6s) | C | 60 | 18.7 | 13501 | 2020-07-14 19:36:47 | MASTER-Kislovodsk | (23h 34m 08.64s , +64d 06m 18.7s) | C | 60 | 18.6 | 13581 | 2020-07-14 19:38:07 | MASTER-Kislovodsk | (23h 46m 09.87s , +65d 36m 00.7s) | C | 60 | 19.0 | 13581 | 2020-07-14 19:38:07 | MASTER-Kislovodsk | (23h 26m 09.29s , +66d 05m 15.2s) | C | 60 | 18.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200714A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28101, p. 1

MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200714A (Fermi GBM team, GCN 28091) errorbox 45106 sec after notice time and 45116 sec after trigger time at 2020-07-14 18:27:58 UT, with upper limit up to 18.7 mag. Observations started at twilight. The observations began at zenith distance = 59 deg. The sun altitude is -10.0 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB 200714A errorbox 47705 sec after notice time and 47715 sec after trigger time at 2020-07-14 19:11:17 UT, with upper limit up to 19.0 mag. The observations began at zenith distance = 59 deg. The sun altitude is -19.3 deg. The galactic latitude b = -4 deg., longitude l = 120 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1400744 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 45147 | 2020-07-14 18:27:58 | MASTER-Tavrida | (23h 40m 26.22s , +63d 46m 42.1s) | C | 60 | 16.5 | 45227 | 2020-07-14 18:29:19 | MASTER-Tavrida | (23h 57m 01.87s , +61d 46m 41.9s) | C | 60 | 16.6 | 45308 | 2020-07-14 18:30:40 | MASTER-Tavrida | (23h 48m 25.51s , +61d 46m 41.7s) | C | 60 | 16.8 | 45388 | 2020-07-14 18:32:00 | MASTER-Tavrida | (23h 32m 54.46s , +65d 46m 18.1s) | C | 60 | 16.9 | 45469 | 2020-07-14 18:33:21 | MASTER-Tavrida | (23h 40m 21.86s , +63d 47m 42.5s) | C | 60 | 16.9 | 45549 | 2020-07-14 18:34:41 | MASTER-Tavrida | (23h 58m 37.81s , +63d 46m 26.9s) | C | 60 | 16.7 | 45630 | 2020-07-14 18:36:02 | MASTER-Tavrida | (23h 56m 56.98s , +61d 46m 10.8s) | C | 60 | 17.0 | 45711 | 2020-07-14 18:37:22 | MASTER-Tavrida | (00h 14m 02.59s , +61d 46m 30.3s) | C | 60 | 17.1 | 45791 | 2020-07-14 18:38:43 | MASTER-Tavrida | (23h 48m 26.20s , +61d 47m 57.3s) | C | 60 | 17.2 | 45872 | 2020-07-14 18:40:03 | MASTER-Tavrida | (00h 05m 24.60s , +61d 46m 37.8s) | C | 60 | 17.2 | 45952 | 2020-07-14 18:41:24 | MASTER-Tavrida | (23h 33m 01.10s , +65d 47m 02.5s) | C | 60 | 17.5 | 46033 | 2020-07-14 18:42:45 | MASTER-Tavrida | (23h 52m 31.76s , +65d 46m 01.4s) | C | 60 | 17.7 | 46113 | 2020-07-14 18:44:05 | MASTER-Tavrida | (23h 58m 31.29s , +63d 47m 34.1s) | C | 60 | 17.3 | 46194 | 2020-07-14 18:45:26 | MASTER-Tavrida | (00h 14m 01.33s , +61d 47m 10.3s) | C | 60 | 17.5 | 46274 | 2020-07-14 18:46:46 | MASTER-Tavrida | (00h 05m 21.87s , +61d 46m 11.5s) | C | 60 | 17.5 | 46355 | 2020-07-14 18:48:07 | MASTER-Tavrida | (23h 57m 07.19s , +59d 48m 41.0s) | C | 60 | 17.8 | 46435 | 2020-07-14 18:49:27 | MASTER-Tavrida | (23h 56m 37.11s , +67d 46m 22.8s) | C | 60 | 17.9 | 46596 | 2020-07-14 18:52:08 | MASTER-Tavrida | (00h 35m 53.12s , +65d 44m 12.8s) | C | 60 | 18.0 | 46677 | 2020-07-14 18:53:29 | MASTER-Tavrida | (23h 52m 36.80s , +65d 45m 31.1s) | C | 60 | 18.2 | 46757 | 2020-07-14 18:54:49 | MASTER-Tavrida | (23h 57m 07.55s , +59d 48m 34.7s) | C | 60 | 18.0 | 46838 | 2020-07-14 18:56:09 | MASTER-Tavrida | (00h 13m 03.78s , +59d 47m 19.9s) | C | 60 | 18.0 | 46918 | 2020-07-14 18:57:30 | MASTER-Tavrida | (23h 56m 36.75s , +67d 46m 36.2s) | C | 60 | 18.2 | 46999 | 2020-07-14 18:58:50 | MASTER-Tavrida | (00h 17m 46.73s , +67d 45m 01.1s) | C | 60 | 18.2 | 47160 | 2020-07-14 19:01:31 | MASTER-Tavrida | (23h 47m 27.89s , +67d 46m 10.7s) | C | 60 | 18.3 | 47241 | 2020-07-14 19:02:52 | MASTER-Tavrida | (00h 35m 52.80s , +65d 44m 31.3s) | C | 60 | 18.3 | 47321 | 2020-07-14 19:04:13 | MASTER-Tavrida | (00h 55m 35.26s , +65d 44m 33.0s) | C | 60 | 18.2 | 47401 | 2020-07-14 19:05:33 | MASTER-Tavrida | (00h 13m 04.33s , +59d 48m 40.5s) | C | 60 | 18.1 | 47482 | 2020-07-14 19:06:53 | MASTER-Tavrida | (00h 17m 48.58s , +67d 44m 28.7s) | C | 60 | 18.4 | 47562 | 2020-07-14 19:08:14 | MASTER-Tavrida | (23h 56m 49.55s , +63d 46m 54.3s) | C | 60 | 17.9 | 47644 | 2020-07-14 19:09:36 | MASTER-Tavrida | (23h 47m 22.47s , +67d 47m 25.1s) | C | 60 | 18.5 | 47724 | 2020-07-14 19:10:56 | MASTER-Tavrida | (00h 55m 34.12s , +65d 45m 18.3s) | C | 60 | 18.4 | 47745 | 2020-07-14 19:11:17 | MASTER-Kislovodsk | (00h 45m 35.80s , +63d 34m 55.7s) | C | 60 | 18.5 | 47745 | 2020-07-14 19:11:17 | MASTER-Kislovodsk | (00h 27m 04.12s , +64d 03m 49.9s) | C | 60 | 18.0 | 47805 | 2020-07-14 19:12:16 | MASTER-Tavrida | (23h 56m 46.97s , +65d 45m 41.2s) | C | 60 | 18.6 | 47885 | 2020-07-14 19:13:37 | MASTER-Tavrida | (23h 56m 53.27s , +63d 47m 42.3s) | C | 60 | 18.0 | 47907 | 2020-07-14 19:13:59 | MASTER-Kislovodsk | (00h 42m 31.29s , +61d 33m 09.4s) | C | 60 | 18.1 | 47907 | 2020-07-14 19:13:59 | MASTER-Kislovodsk | (00h 25m 15.40s , +62d 02m 01.6s) | C | 60 | 17.9 | 47965 | 2020-07-14 19:14:57 | MASTER-Tavrida | (00h 15m 04.13s , +63d 46m 16.9s) | C | 60 | 17.9 | 47988 | 2020-07-14 19:15:20 | MASTER-Kislovodsk | (00h 53m 33.16s , +67d 32m 37.8s) | C | 60 | 18.8 | 47988 | 2020-07-14 19:15:20 | MASTER-Kislovodsk | (00h 31m 56.86s , +68d 01m 49.7s) | C | 60 | 18.7 | 48046 | 2020-07-14 19:16:17 | MASTER-Tavrida | (00h 28m 57.73s , +59d 47m 53.5s) | C | 60 | 18.3 | 48068 | 2020-07-14 19:16:40 | MASTER-Kislovodsk | (00h 45m 38.12s , +63d 33m 01.8s) | C | 60 | 18.6 | 48068 | 2020-07-14 19:16:40 | MASTER-Kislovodsk | (00h 27m 09.53s , +64d 02m 00.9s) | C | 60 | 18.3 | 48126 | 2020-07-14 19:17:38 | MASTER-Tavrida | (23h 56m 40.48s , +65d 47m 44.0s) | C | 60 | 18.7 | 48206 | 2020-07-14 19:18:58 | MASTER-Tavrida | (00h 16m 22.05s , +65d 46m 21.5s) | C | 60 | 18.6 | 48230 | 2020-07-14 19:19:21 | MASTER-Kislovodsk | (00h 42m 32.62s , +61d 34m 16.5s) | C | 60 | 18.8 | 48230 | 2020-07-14 19:19:21 | MASTER-Kislovodsk | (00h 25m 16.99s , +62d 03m 09.1s) | C | 60 | 18.4 | 48287 | 2020-07-14 19:20:19 | MASTER-Tavrida | (00h 15m 01.31s , +63d 45m 52.3s) | C | 60 | 18.0 | 48310 | 2020-07-14 19:20:42 | MASTER-Kislovodsk | (00h 53m 27.01s , +67d 34m 26.7s) | C | 60 | 18.8 | 48310 | 2020-07-14 19:20:42 | MASTER-Kislovodsk | (00h 31m 49.89s , +68d 03m 39.4s) | C | 60 | 18.6 | 48367 | 2020-07-14 19:21:39 | MASTER-Tavrida | (00h 29m 02.81s , +59d 46m 53.4s) | C | 60 | 18.4 | 48448 | 2020-07-14 19:23:00 | MASTER-Tavrida | (00h 44m 57.63s , +59d 48m 47.6s) | C | 60 | 18.3 | 48551 | 2020-07-14 19:24:43 | MASTER-Kislovodsk | (23h 25m 58.19s , +61d 36m 20.2s) | C | 60 | 18.8 | 48551 | 2020-07-14 19:24:43 | MASTER-Kislovodsk | (23h 08m 37.45s , +62d 05m 19.5s) | C | 60 | 18.7 | 48793 | 2020-07-14 19:28:44 | MASTER-Kislovodsk | (23h 52m 44.46s , +63d 36m

59.4s) | C | 60 | 18.7 | 48793 | 2020-07-14 19:28:44 | MASTER-Kislovodsk | (23h 34m 10.74s , +64d 06m 06.5s) | C | 60 | 18.6 | 49034 | 2020-07-14 19:32:46 | MASTER-Kislovodsk | (23h 25m 59.05s , +61d 37m 28.3s) | C | 60 | 18.8 | 49034 | 2020-07-14 19:32:46 | MASTER-Kislovodsk | (23h 08m 36.68s , +62d 06m 26.2s) | C | 60 | 18.7 | 49275 | 2020-07-14 19:36:47 | MASTER-Kislovodsk | (23h 52m 43.40s , +63d 37m 13.6s) | C | 60 | 18.7 | 49275 | 2020-07-14 19:36:47 | MASTER-Kislovodsk | (23h 34m 08.64s , +64d 06m 18.7s) | C | 60 | 18.6 | 49355 | 2020-07-14 19:38:07 | MASTER-Kislovodsk | (23h 46m 09.87s , +65d 36m 00.7s) | C | 60 | 19.0 | 49355 | 2020-07-14 19:38:07 | MASTER-Kislovodsk | (23h 26m 09.29s , +66d 05m 15.2s) | C | 60 | 18.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 616370565: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28090, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB200713.92 (trigger No 616370565,15h 11m 33.60s , -32d 35m 24.0s, R=11.84) errorbox 456 sec after notice time and 487 sec after trigger time at 2020-07-13 22:10:47 UT, with upper limit up to 18.2 mag. The observations began at zenith distance = 58 deg. The sun altitude is -24.3 deg. The galactic latitude b = 21 deg., longitude l = 335 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1400417 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 517 | 2020-07-13 22:10:47 | MASTER-IAC | (15h 27m 13.82s , -27d 55m 25.6s) | C | 60 | 18.1 | 517 | 2020-07-13 22:10:47 | MASTER-IAC | (15h 18m 02.66s , -27d 50m 40.3s) | C | 60 | 17.9 | 636 | 2020-07-13 22:12:46 | MASTER-IAC | (15h 46m 33.34s , -31d 57m 24.2s) | C | 60 | 18.0 | 636 | 2020-07-13 22:12:46 | MASTER-IAC | (15h 37m 00.67s , -31d 52m 47.2s) | C | 60 | 17.8 | 757 | 2020-07-13 22:14:46 | MASTER-IAC | (14h 53m 29.91s , -35d 55m 21.1s) | C | 60 | 18.2 | 757 | 2020-07-13 22:14:46 | MASTER-IAC | (14h 43m 30.47s , -35d 50m 49.8s) | C | 60 | 18.0 | 880 | 2020-07-13 22:16:49 | MASTER-IAC | (15h 27m 11.14s , -27d 56m 33.5s) | C | 60 | 18.2 | 880 | 2020-07-13 22:16:49 | MASTER-IAC | (15h 18m 01.05s , -27d 51m 58.3s) | C | 60 | 18.0 | 1240 | 2020-07-13 22:22:50 | MASTER-IAC | (15h 46m 36.94s , -31d 56m 45.2s) | C | 60 | 18.0 | 1240 | 2020-07-13 22:22:50 | MASTER-IAC | (15h 37m 03.99s , -31d 52m 08.4s) | C | 60 | 18.0 | 1363 | 2020-07-13 22:24:52 | MASTER-IAC | (14h 53m 24.33s , -35d 57m 03.9s) | C | 60 | 18.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200711A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28079, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB 200711A (F. E. Marshall et al., GCN 28078) errorbox 26829 sec after notice time and 26854 sec after trigger time at 2020-07-11 18:32:11 UT, with upper limit up to 15.9 mag. Observations started at twilight. The observations began at zenith distance = 59 deg. The sun altitude is -10.2 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) was pointed to the Swift GRB 200711A errorbox 26939 sec after notice time and 26964 sec after trigger time at 2020-07-11 18:34:00 UT, with upper limit up to 16.7 mag. Observations started at twilight. The observations began at zenith distance = 54 deg. The sun altitude is -15.0 deg. The galactic latitude b = -3 deg., longitude l = 35 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1399126 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 26945 | MASTER-Tavrida | C | 180 | 15.9 | 26994 | MASTER-Kislovodsk | C | 60 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 615741133: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28067, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB200706.63 (trigger No 615741133,08h 27m 00.00s , -06d 09m 00.0s, R=26.9) errorbox 27043 sec after notice time and 27070 sec after trigger time at 2020-07-06 22:43:18 UT, with upper limit up to 17.8 mag. Observations started at twilight. The observations began at zenith distance = 70 deg. The sun altitude is -12.1 deg. The galactic latitude b = 18 deg., longitude l = 230 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1396776 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 27160 | 2020-07-06 22:43:18 | MASTER-OAFA | (08h 34m 44.95s , -04d 01m 14.4s) | C | 180 | 16.2 | 28216 | 2020-07-06 23:00:54 | MASTER-OAFA | (08h 34m 43.02s , -04d 01m 43.8s) | C | 180 | 17.8 | 29272 | 2020-07-06 23:18:29 | MASTER-OAFA | (08h 34m 46.08s , -04d 03m 32.0s) | C | 180 | 17.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200705A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28064, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200705A (Fermi GBM team, GCN 28062) errorbox 33087 sec after notice time and 33114 sec after trigger time at 2020-07-06 01:21:47 UT, with upper limit up to 18.4 mag. The observations began at zenith distance = 67 deg. The sun altitude is -53.9 deg. The galactic latitude b = -71 deg., longitude l = 241 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1396328 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 33144 | 2020-07-06 01:21:47 | MASTER-SAAO | (03h 48m 30.12s , -52d 03m 51.2s) | C | 60 | 17.9 | 33144 | 2020-07-06 01:21:47 | MASTER-SAAO | (03h 59m 34.11s , -52d 02m 39.2s) | C | 60 | 17.7 | 35195 | 2020-07-06 01:55:58 | MASTER-SAAO | (03h 48m 32.31s , -52d 03m 46.0s) | C | 60 | 18.1 | 35195 | 2020-07-06 01:55:58 | MASTER-SAAO | (03h 59m 36.25s , -52d 02m 29.2s) | C | 60 | 18.0 | 35762 | 2020-07-06 02:05:24 | MASTER-SAAO | (03h 48m 30.20s , -52d 02m 33.4s) | C | 60 | 18.4 | 35762 | 2020-07-06 02:05:24 | MASTER-SAAO | (03h 59m 33.43s , -52d 01m 15.9s) | C | 60 | 18.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200702A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28057, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200702A (Fermi GBM team, GCN 28056) errorbox 2633 sec after notice time and 2660 sec after trigger time at 2020-07-02 22:08:39 UT, with upper limit up to 17.4 mag. The observations began at zenith distance = 56 deg. The sun altitude is -78.2 deg. MASTER-OAFA robotic telescope located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200702A errorbox 4891 sec after notice time and 4918 sec after trigger time at 2020-07-02 22:46:17 UT, with upper limit up to 16.1 mag. Observations started at twilight. The observations began at zenith distance = 57 deg. The sun altitude is -13.1 deg. The galactic latitude b = -20 deg., longitude l = 324 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1394636 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 2750 | 2020-07-02 22:08:39 | MASTER-SAAO | (23h 24m 08.23s , -67d 49m 09.3s) | C | 180 | 17.4 | 5009 | 2020-07-02 22:46:17 | MASTER-OAFA | (08h 24m 50.56s , -83d 12m 13.3s) | C | 180 | 15.9 | 5431 | 2020-07-02 22:53:19 | MASTER-OAFA | (09h 32m 08.12s , -83d 10m 44.3s) | C | 180 | 16.1 | 5642 | 2020-07-02 22:56:50 | MASTER-OAFA | (10h 55m 46.36s , -83d 10m 36.9s) | C | 180 | 15.1 | 5853 | 2020-07-02 23:00:21 | MASTER-OAFA | (12h 02m 42.06s , -83d 10m 11.7s) | C | 180 | 15.4 | 6064 | 2020-07-02 23:03:52 | MASTER-OAFA | (09h 40m 30.39s , -83d 09m 58.7s) | C | 180 | 15.4 | 6487 | 2020-07-02 23:10:56 | MASTER-OAFA | (10h 47m 30.09s , -83d 08m 45.3s) | C | 180 | 15.8 | 6698 | 2020-07-02 23:14:27 | MASTER-OAFA | (08h 24m 48.11s , -83d 12m 12.8s) | C | 180 | 15.9 | 6910 | 2020-07-02

23:17:58 | MASTER-OAFA | (09h 32m 01.22s , -83d 09m 46.7s) | C | 180 | 16.1 | 7121 | 2020-07-02 23:21:29 | MASTER-OAFA | (10h 55m 51.35s , -83d 09m 36.8s) | C | 180 | 15.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Zhirkov, K., Lipunov, V., Kornilov, V., Rebolo, R., Serra-Ricart, M., Buckley, D., Podesta, R., Podesta, F., Gorbovskoy, E., et al. MASTER optical activity detection of PKS B1406-076 // The Astronomer's Telegram, 2020, V. 13887, p. 1
MASTER Global Robotic Net (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) reports on an enhanced optical activity of the flaring blazar PKS B1406-076 detected by Fermi-LAT (Buson et al. ATel #13882).

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Pogrosheva, T., Lipunov, V., Buckley, D., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Gress, O., Gabovich, A., et al. MASTER: 2 new optical sources outburst // The Astronomer's Telegram, 2020, V. 13862, p. 1
AT2020omv MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 19h 01m 28.31s -39d 47m 44.1s on 2020-07-07.93287 UT. The OT unfiltered magnitude is 16.3m (mlim18.3=).

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Gress, O., Lipunov, V., Buckley, D., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Gress, O., Kuznetsov, A., et al. MASTER OT J005428.52-475548.0 outburst // The Astronomer's Telegram, 2020, V. 13855, p. 1
AT2020nwi MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 00h 54m 28.52s -47d 55m 48.0s on 2020-07-02.12272 UT. The OT unfiltered magnitude is 17.6m (mlim=19.7).

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Balanutsa, P., Lipunov, V., Buckley, D., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Gress, O., Kuznetsov, A., et al. Master: Psn in PGC072962 // The Astronomer's Telegram, 2020, V. 13851, p. 1
2020nvi MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 23h 56m 29.22s -35d 29m 54.5s on 2020-06-30.11782 UT. The OT unfiltered magnitude is 17.6m (mlim=20.4).

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Buckley, D. A. H., Gromadzki, M., Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., & Balakin, F. MASTER OT J233317.85-674248.4 is a SNIa in low luminosity unknown galaxy discovered during Fermi BALROG localization inspection // The Astronomer's Telegram, 2020, V. 13846, p. 1
We report on SALT spectroscopy of MASTER OT J233317.85-674248.4 (AT2020ntu , Minkina et al. ATel #13841) discovered inside the Fermi GRB200629A BALROG localization (GCN #28039, GCN #28040) inspected by MASTER (GCN #28041, cover map) on 2020-06-29.976 , under the SALT Large Science Programme on transients (2018-2-LSP-001).

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-30 // Transient Name Server Discovery Report, 2020, V. 2020-1992, p. 1

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Minkina, E., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-30 // Transient Name Server Discovery Report, 2020, V. 2020-1991, p. 1

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Balanutsa, P., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-29 // Transient Name Server Discovery Report, 2020, V. 2020-1978, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-06-28 // Transient Name Server Discovery Report, 2020, V. 2020-1964, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-28 // Transient Name Server Discovery Report, 2020, V. 2020-1963, p. 1

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Gress, O., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-27 // Transient Name Server Discovery Report, 2020, V. 2020-1953, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-25 // Transient Name Server Discovery Report, 2020, V. 2020-1930, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-24 // Transient Name Server Discovery Report, 2020, V. 2020-1915, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-23 // Transient Name Server Discovery Report, 2020, V. 2020-1900, p. 1

Tiurina, N., Lipunov, V., Gorbovskoy, E., Kornilov, V., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-06-23 // Transient Name Server Discovery Report, 2020, V. 2020-1899, p. 1

Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-22 // Transient Name Server Discovery Report, 2020, V. 2020-1882, p. 1

Vlasenko, D., Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., et al. MASTER Transient Discovery Report for 2020-06-22 // Transient Name Server Discovery Report, 2020, V. 2020-1881, p. 1

Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-06-21 // Transient Name Server Discovery Report, 2020, V. 2020-1871, p. 1

Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-21 // Transient Name Server Discovery Report, 2020, V. 2020-1870, p. 1

Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-06-18 // Transient Name Server Discovery Report, 2020, V. 2020-1839, p. 1

Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-18 // Transient Name Server Discovery Report, 2020, V. 2020-1838, p. 1

Minkina, E., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-16 // Transient Name Server Discovery Report, 2020, V. 2020-1818, p. 1

Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-06-15 // Transient Name Server Discovery Report, 2020, V. 2020-1804, p. 1

Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-13 // Transient Name Server Discovery Report, 2020, V. 2020-1777, p. 1

Pogorsheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-13 // Transient Name Server Discovery Report, 2020, V. 2020-1776, p. 1

Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-06-12 // Transient Name Server Discovery Report, 2020, V. 2020-1762, p. 1

Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-10 // Transient Name Server Discovery Report, 2020, V. 2020-1742, p. 1

Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-08 // Transient Name Server Discovery Report, 2020, V. 2020-1713, p. 1

Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-08 // Transient Name Server Discovery Report, 2020, V. 2020-1712, p. 1

Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-07 // Transient Name Server Discovery Report, 2020, V. 2020-1704, p. 1

Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-06-05 // Transient Name Server Discovery Report, 2020, V. 2020-1692, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-02 // Transient Name Server Discovery Report, 2020, V. 2020-1660, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-06-01 // Transient Name Server Discovery Report, 2020, V. 2020-1644, p. 1

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Oknyansky, V. L., Winkler, H., Tsygankov, S. S., Lipunov, V. M., Gorbovskoy, E. S., van Wyk, F., Buckley, D. A. H., Jiang, B. W., & Tyurina, N. V. The post-maximum behaviour of the changing-look Seyfert galaxy NGC 1566 // Monthly Notices of the Royal Astronomical Society, 2020, V. 498, p. 718-727
We present results of the long-term multiwavelength study of optical, UV, and X-ray variability of the nearby changing-look (CL) Seyfert NGC 1566 observed with the Swift Observatory and the MASTER Global Robotic Network from 2007 to 2019. We started spectral observations with South African Astronomical Observatory 1.9-m telescope soon after the brightening was discovered in July 2018 and present here the data for the interval between 2018 August and 2019 September. This paper concentrates on the remarkable post-maximum behaviour after 2018 July when all bands decreased with some fluctuations. We observed three significant re-brightenings in the post-maximum period during 2018 November 17-2019 January 10, 2019 April 29-2019 June 19, and 2019 July 27-2019 August 6. An X-ray flux minimum occurred in 2019 March. The UV minimum occurred about 3 months later. It was accompanied by a decrease of the L_{UV}/L_{X-ray} ratio. New post-maximum spectra covering (2018 November 31-2019 September 23) show dramatic changes compared to 2018 August 2, with fading of the broad lines and [Fe X] λ6374 until 2019 March. These lines became somewhat brighter in 2019 August-September. Effectively, two CL states were observed for this object: changing to type 1.2 and then returning to the low state as a type 1.8 Sy. We suggest that the changes are due mostly to fluctuations in the energy generation. The estimated Eddington ratios are about 0.055 ${{\ \rm per\ cent}}$ for minimum in 2014 and 2.8 ${{\ \rm per\ cent}}$ for maximum in 2018.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 615174580: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28042, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200630.08 (trigger No 615174580,05h 46m 14.40s , -62d 57m 00.0s, R=7.5) errorbox 250 sec after notice time and 277 sec after trigger time at 2020-06-30 01:54:13 UT, with upper limit up to 19.4 mag. The observations began at zenith distance = 69 deg. The sun altitude is -47.0 deg. The galactic latitude b = -31 deg., longitude l = 272 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1392855 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 308 | 2020-06-30 01:54:13 | MASTER-SAAO | (04h 41m 40.88s , -59d 59m 48.7s) | C | 60 | 19.4 | 308 | 2020-06-30 01:54:13 | MASTER-SAAO | (04h 55m 19.51s , -59d 58m 49.9s) | C | 60 | 19.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200629A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28041, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200629A (Fermi GBM team, GCN 28040) errorbox 13771 sec after notice time and 13907 sec after trigger time at 2020-06-29 16:41:36 UT, with upper limit up to 18.0 mag. Observations started at twilight. The observations began at zenith distance = 80 deg. The sun altitude is -11.9 deg. The galactic latitude b = -46 deg., longitude l = 322 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1392622 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 13998 | 2020-06-29 16:41:36 | MASTER-SAAO | (22h 29m 03.34s , -64d 53m 38.3s) | C | 180 | 17.5 | 13998 | 2020-06-29 16:41:36 | MASTER-SAAO | (22h 45m 05.94s , -64d 52m 58.7s) | C | 180 | 17.4 | 14197 | 2020-06-29 16:44:56 | MASTER-SAAO | (22h 29m 02.68s , -64d 52m 33.6s) | C | 180 | 17.9 | 14197 | 2020-06-29 16:44:56 | MASTER-SAAO | (22h 45m 04.79s , -64d 51m 54.2s) | C | 180 | 17.6 | 14396 | 2020-06-29 16:48:15 | MASTER-SAAO | (22h 29m 08.28s , -64d 53m 30.0s) | C | 180 | 18.0 | 14396 | 2020-06-29 16:48:15 | MASTER-SAAO | (22h 45m 11.10s , -64d 52m 51.9s) | C | 180 | 17.7 | 14596 | 2020-06-29 16:51:35 | MASTER-SAAO | (22h 29m 00.76s , -64d 54m 27.9s) | C | 180 | 17.8 | 14596 | 2020-06-29 16:51:35 | MASTER-SAAO | (22h 45m 04.15s , -64d 53m 49.3s) | C | 180 | 17.4 | 15055 | 2020-06-29 17:00:13 | MASTER-SAAO | (22h 12m 29.44s , -68d 03m 48.9s) | C | 60 | 17.7 | 15788 | 2020-06-29 17:12:26 | MASTER-SAAO | (22h 12m 34.13s , -68d 04m 47.0s) | C | 60 | 17.8 | 16206 | 2020-06-29 17:18:25 | MASTER-SAAO | (22h 25m 05.83s , -65d 40m 42.3s) | C | 180 | 17.7 | 16206 | 2020-06-29 17:18:25 | MASTER-SAAO | (22h 41m 39.01s , -65d 40m 04.3s) | C | 180 | 17.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200626A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28032, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 200626A (Fermi GBM team, GCN 28030) errorbox 4639 sec after notice time and 4666 sec after trigger time at 2020-06-26 03:49:18 UT, with upper limit up to 17.8 mag. The observations began at zenith distance = 77 deg. The sun altitude is -25.2 deg. The galactic latitude b = -11 deg., longitude l = 175 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1390351 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 4697 | 2020-06-26 03:49:18 | MASTER-IAC | (03h 16m 07.72s , +33d 51m 22.9s) | C | 60 | 14.2 | 4817 | 2020-06-26 03:51:18 | MASTER-IAC | (03h 20m 54.72s , +35d 50m 25.6s) | C | 60 | 16.4 | 5412 | 2020-06-26 04:01:14 | MASTER-IAC | (03h 16m 07.88s , +33d 52m 13.9s) | C | 60 | 17.1 | 5536 | 2020-06-26 04:03:18 | MASTER-IAC | (03h 20m 53.05s , +35d 51m 39.3s) | C | 60 | 17.4 | 6485 | 2020-06-26 04:19:06 | MASTER-IAC | (03h 20m 56.43s , +21d 56m 24.2s) | C | 60 | 17.7 | 6607 | 2020-06-26 04:21:08 | MASTER-IAC | (03h 18m 15.59s , +19d 57m 22.7s) | C | 60 | 17.6 | 7210 | 2020-06-26 04:31:11 | MASTER-IAC | (03h 21m 00.87s , +21d 55m 47.1s) | C | 60 | 17.8 | 7329 | 2020-06-26 04:33:10 | MASTER-IAC | (03h 18m 17.27s , +19d 57m 03.8s) | C | 60 | 17.8 | 7448 | 2020-06-26 04:35:09 | MASTER-IAC | (03h 49m 12.31s , +27d 55m 51.9s) | C | 60 | 17.3 | 7565 | 2020-06-26 04:37:06 | MASTER-IAC | (03h 58m 44.02s , +31d 57m 26.1s) | C | 60 | 17.4 | 7682 | 2020-06-26 04:39:03 | MASTER-IAC | (03h 53m 38.68s , +29d 56m 50.8s) | C | 60 | 17.5 | 7802 | 2020-06-26 04:41:03 | MASTER-IAC | (03h 49m 09.29s , +27d 57m 46.4s) | C | 60 | 17.4 | 7925 | 2020-06-26 04:43:06 | MASTER-IAC | (03h 58m 44.12s , +31d 56m 52.9s) | C | 60 | 17.4 | 8042 | 2020-06-26 04:45:03 | MASTER-IAC | (03h 53m 38.41s , +29d 55m 48.6s) | C | 60 | 17.5 | 8160 | 2020-06-26 04:47:01 | MASTER-IAC | (04h 04m 13.34s , +33d 56m 10.2s) | C | 60 | 17.4 | 8160 | 2020-06-26 04:47:01 | MASTER-IAC | (04h 13m 58.68s , +33d 52m 01.7s) | C | 60 | 13.3 | 8759 | 2020-06-26 04:57:00 | MASTER-IAC | (04h 04m 11.95s , +33d 58m 00.3s) | C | 60 | 17.2 | 8759 | 2020-06-26 04:57:00 | MASTER-IAC | (04h 13m 58.27s , +33d 53m 52.7s) | C | 60 | 16.2 | 8882 | 2020-06-26 04:59:03 | MASTER-IAC | (03h 58m 56.00s , +23d 57m 11.2s) | C | 60 | 17.1 | 9002 | 2020-06-26 05:01:03 | MASTER-IAC | (03h 55m 24.64s , +21d 58m 07.1s) | C | 60 | 16.9 | 9121 | 2020-06-26 05:03:02 | MASTER-IAC | (03h 45m 11.47s , +25d 56m 48.8s) | C | 60 | 16.9 | 9121 | 2020-06-26 05:03:02 | MASTER-IAC | (03h 54m 11.50s , +25d 52m 40.0s) | C | 60 | 14.9 | 9239 | 2020-06-26 05:05:01 | MASTER-IAC | (03h 58m 56.30s , +23d 56m 09.2s) | C | 60 | 16.9 | 9365 | 2020-06-26 05:07:07 | MASTER-IAC | (03h 55m 30.81s , +21d 56m 10.3s) | C | 60 | 16.4 | 9483 | 2020-06-26 05:09:04 | MASTER-IAC | (03h 45m 08.45s , +25d 57m 31.9s) | C | 60 | 16.4 | 9483 | 2020-06-26 05:09:04 | MASTER-IAC | (03h 54m 08.22s , +25d 53m 24.9s) | C | 60 | 15.9 | 9602 | 2020-06-26 05:11:04 | MASTER-IAC | (03h 23m 58.69s , +23d 55m 30.6s) | C | 60 | 16.9 | 9602 | 2020-06-26 05:11:04 | MASTER-IAC | (03h 32m 49.37s , +23d 51m 25.4s) | C | 60 | 16.3 | 9720 | 2020-06-26

05:13:02 | MASTER-IAC | (03h 24m 26.97s , +17d 52m 57.1s) | C | 60 | 16.2 | 9960 | 2020-06-26 05:17:01 | MASTER-IAC | (03h 23m 54.61s , +23d 57m 26.7s) | C | 60 | 16.4 | 9960 | 2020-06-26 05:17:01 | MASTER-IAC | (03h 32m 45.38s , +23d 53m 21.7s) | C | 60 | 15.8 | 10079 | 2020-06-26 05:19:00 | MASTER-IAC | (03h 24m 27.02s , +17d 52m 14.0s) | C | 60 | 15.8 | 10551 | 2020-06-26 05:26:53 | MASTER-IAC | (03h 38m 49.79s , +15d 53m 34.7s) | C | 60 | 14.3 | 10667 | 2020-06-26 05:28:48 | MASTER-IAC | (03h 36m 53.39s , +13d 52m 32.5s) | C | 60 | 14.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200625A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28029, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200625A (Fermi GBM team, GCN 28028) errorbox 14507 sec after notice time and 14536 sec after trigger time at 2020-06-25 16:48:05 UT, with upper limit up to 19.6 mag. Observations started at twilight. The observations began at zenith distance = 35 deg. The sun altitude is -13.4 deg. The galactic latitude b = 14 deg., longitude l = 260 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1389977 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 14567 | 2020-06-25 16:48:05 | MASTER-SAAO | (09h 42m 15.87s , -27d 53m 20.4s) | C | 60 | 19.3 | 14567 | 2020-06-25 16:48:05 | MASTER-SAAO | (09h 34m 31.43s , -27d 54m 33.0s) | C | 60 | 19.0 | 14647 | 2020-06-25 16:49:25 | MASTER-SAAO | (09h 32m 01.48s , -25d 54m 32.3s) | C | 60 | 19.4 | 14647 | 2020-06-25 16:49:25 | MASTER-SAAO | (09h 24m 25.35s , -25d 55m 45.4s) | C | 60 | 19.1 | 14727 | 2020-06-25 16:50:45 | MASTER-SAAO | (09h 49m 43.62s , -25d 55m 02.8s) | C | 60 | 19.4 | 14727 | 2020-06-25 16:50:45 | MASTER-SAAO | (09h 42m 07.31s , -25d 56m 14.8s) | C | 60 | 19.1 | 14806 | 2020-06-25 16:52:05 | MASTER-SAAO | (09h 40m 14.87s , -23d 54m 49.1s) | C | 60 | 19.4 | 14806 | 2020-06-25 16:52:05 | MASTER-SAAO | (09h 32m 46.08s , -23d 56m 01.3s) | C | 60 | 19.2 | 14886 | 2020-06-25 16:53:25 | MASTER-SAAO | (09h 42m 17.87s , -27d 53m 21.8s) | C | 60 | 19.5 | 14886 | 2020-06-25 16:53:25 | MASTER-SAAO | (09h 34m 33.52s , -27d 54m 32.8s) | C | 60 | 19.2 | 14966 | 2020-06-25 16:54:45 | MASTER-SAAO | (09h 31m 58.93s , -25d 55m 27.3s) | C | 60 | 19.5 | 14966 | 2020-06-25 16:54:45 | MASTER-SAAO | (09h 24m 22.77s , -25d 56m 39.4s) | C | 60 | 19.3 | 15046 | 2020-06-25 16:56:04 | MASTER-SAAO | (09h 42m 12.57s , -25d 54m 28.9s) | C | 60 | 19.3 | 15126 | 2020-06-25 16:57:24 | MASTER-SAAO | (09h 40m 09.34s , -23d 54m 15.1s) | C | 60 | 19.6 | 15126 | 2020-06-25 16:57:24 | MASTER-SAAO | (09h 32m 40.58s , -23d 55m 26.8s) | C | 60 | 19.4 | 15206 | 2020-06-25 16:58:44 | MASTER-SAAO | (09h 35m 13.23s , -29d 53m 37.1s) | C | 60 | 19.5 | 15206 | 2020-06-25 16:58:44 | MASTER-SAAO | (09h 27m 19.84s , -29d 54m 47.7s) | C | 60 | 19.3 | 15285 | 2020-06-25 17:00:04 | MASTER-SAAO | (09h 24m 15.09s , -27d 54m 53.3s) | C | 60 | 19.5 | 15285 | 2020-06-25 17:00:04 | MASTER-SAAO | (09h 16m 30.81s , -27d 56m 04.7s) | C | 60 | 19.3 | 15577 | 2020-06-25 17:04:56 | MASTER-SAAO | (09h 35m 20.29s , -29d 55m 08.6s) | C | 60 | 19.5 | 15577 | 2020-06-25 17:04:56 | MASTER-SAAO | (09h 27m 27.09s , -29d 56m 16.9s) | C | 60 | 19.4 | 15657 | 2020-06-25 17:06:16 | MASTER-SAAO | (09h 24m 12.21s , -27d 54m 16.1s) | C | 60 | 19.6 | 15657 | 2020-06-25 17:06:16 | MASTER-SAAO | (09h 16m 28.28s , -27d 55m 25.3s) | C | 60 | 19.3 | 15737 | 2020-06-25 17:07:35 | MASTER-SAAO | (09h 53m 43.70s , -29d 54m 39.3s) | C | 60 | 19.6 | 15737 | 2020-06-25 17:07:35 | MASTER-SAAO | (09h 45m 50.32s , -29d 55m 46.5s) | C | 60 | 19.5 | 15817 | 2020-06-25 17:08:55 | MASTER-SAAO | (10h 00m 26.93s , -27d 53m 20.6s) | C | 60 | 19.6 | 15817 | 2020-06-25 17:08:55 | MASTER-SAAO | (09h 52m 42.64s , -27d 54m 28.0s) | C | 60 | 19.4 | 15896 | 2020-06-25 17:10:15 | MASTER-SAAO | (09h 57m 37.66s , -23d 53m 52.2s) | C | 60 | 19.5 | 15896 | 2020-06-25 17:10:15 | MASTER-SAAO | (09h 50m 08.91s , -23d 55m 00.8s) | C | 60 | 19.4 | 15977 | 2020-06-25 17:11:35 | MASTER-SAAO | (09h 31m 34.82s , -21d 53m 30.1s) | C | 60 | 19.6 | 15977 | 2020-06-25 17:11:35 | MASTER-SAAO | (09h 24m 13.01s , -21d 54m 40.5s) | C | 60 | 19.4 | 16057 | 2020-06-25 17:12:55 | MASTER-SAAO | (09h 45m 52.65s , -29d 55m 20.0s) | C | 60 | 19.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200623B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28018, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200623B (Fermi GBM team, GCN 28017) errorbox 552 sec after notice time and 590 sec after trigger time at 2020-06-23 18:12:39 UT, with upper limit up to 18.9 mag. The observations began at zenith distance = 74 deg. The sun altitude is -30.9 deg. The galactic latitude b = -43 deg., longitude l = 328 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1388895 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 620 | 2020-06-23 18:12:39 | MASTER-SAAO | (21h 51m 50.01s , -64d 03m 54.4s) | C | 60 | 18.6 | 713 | 2020-06-23 18:14:12 | MASTER-SAAO | (22h 08m 29.53s , -66d 03m 58.4s) | C | 60 | 18.9 | 713 | 2020-06-23 18:14:12 | MASTER-SAAO | (22h 25m 14.90s , -66d 03m 19.6s) | C | 60 | 18.6 | 793 | 2020-06-23 18:15:32 | MASTER-SAAO | (22h 37m 18.63s , -68d 05m 13.2s) | C | 60 | 18.9 | 793 | 2020-06-23 18:15:32 | MASTER-SAAO | (22h 55m 31.23s , -68d 04m 31.7s) | C | 60 | 18.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200623A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28012, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 200623A (Fermi GBM team, GCN 28011) errorbox 924 sec after notice time and 957 sec after trigger time at 2020-06-23 03:33:58 UT, with upper limit up to 18.8 mag. The observations began at zenith distance = 63 deg. The sun altitude is -27.3 deg. The galactic latitude b = 45 deg., longitude l = 98 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1387999 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 988 | 2020-06-23 03:33:58 | MASTER-IAC | (15h 03m 20.96s , +60d 01m 51.3s) | C | 60 | 18.8 | 988 | 2020-06-23 03:33:58 | MASTER-IAC | (14h 46m 59.24s , +60d 06m 59.1s) | C | 60 | 18.3 | 1108 | 2020-06-23 03:35:59 | MASTER-IAC | (14h 53m 55.06s , +62d 00m 52.3s) | C | 60 | 18.5 | 1108 | 2020-06-23 03:35:59 | MASTER-IAC | (14h 36m 29.92s , +62d 06m 01.8s) | C | 60 | 18.2 | 1226 | 2020-06-23 03:37:56 | MASTER-IAC | (15h 12m 34.01s , +58d 01m 45.3s) | C | 60 | 18.6 | 1226 | 2020-06-23 03:37:56 | MASTER-IAC | (14h 57m 07.88s , +58d 06m 52.4s) | C | 60 | 18.3 | 1346 | 2020-06-23 03:39:56 | MASTER-IAC | (15h 03m 20.54s , +60d 00m 47.4s) | C | 60 | 18.7 | 1346 | 2020-06-23 03:39:56 | MASTER-IAC | (14h 46m 59.37s , +60d 05m 55.7s) | C | 60 | 18.5 | 1466 | 2020-06-23 03:41:56 | MASTER-IAC | (14h 53m 54.70s , +61d 59m 46.6s) | C | 60 | 18.5 | 1466 | 2020-06-23 03:41:56 | MASTER-IAC | (14h 36m 30.27s , +62d 04m 56.3s) | C | 60 | 18.2 | 1587 | 2020-06-23 03:43:57 | MASTER-IAC | (15h 12m 38.65s , +57d 59m 56.1s) | C | 60 | 18.6 | 1587 | 2020-06-23 03:43:58 | MASTER-IAC | (14h 57m 13.35s , +58d 05m 03.5s) | C | 60 | 18.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Zhirkov, K., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. IceCube-200620A: MASTER previous detection of ZTF20abgvabi/AT2020ncr // GRB Coordinates Network, 2020, V. 28007, p. 1
MASTER Global Robotic Net (http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) started IceCube-200620A inspection (The IceCube Collaboration GCN 27997) 8560 sec after trigger time at 2020-06-20 16:32:52 UT (Lipunov et al. GCN 28001, see cover map and error-box altitude at alert time and inspect time at https://master.sai.msu.ru/site/master2/observ.php?id=1386385) ZTF candidate ZTF20abgvabi/AT 2020ncr with RA,Dec(2000)=162.5306820 +12.1462203 (Reusch et al. GCN 28005) presents at MASTER archive images on 2015-12-25 (60s exposition). MASTER database (2006-2020) analysis will be continued.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200620.13: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 28001, p. 1

MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the IceCube Alert 200620.13 (trigger No 33533447,10h 48m 26.40s , +11d 57m 00.0s, R=0.68) errorbox 48529 sec after notice time and 48560 sec after trigger time at 2020-06-20 16:32:52 UT, with upper limit up to 18.4 mag. Observations started at twilight. The observations began at zenith distance = 46 deg. The sun altitude is -10.7 deg. The galactic latitude b = 58 deg., longitude l = 236 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1386385 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 48650 | 2020-06-20 16:32:52 | MASTER-SAAO | (10h 50m 30.09s , +12d 04m 20.6s) | C | 180 | 18.4 | 48650 | 2020-06-20 16:32:52 | MASTER-SAAO | (10h 43m 31.72s , +12d 03m 09.6s) | C | 180 | 18.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200619B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27995, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 200619B (Fermi GBM team, GCN 27986) errorbox 33291 sec after notice time and 33333 sec after trigger time at 2020-06-19 21:04:16 UT, with upper limit up to 17.6 mag. Observations started at twilight. The observations began at zenith distance = 73 deg. The sun altitude is -12.6 deg. The galactic latitude b = 18 deg., longitude l = 303 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1385756 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 33364 | 2020-06-19 21:04:16 | MASTER-IAC | (13h 02m 42.95s , -43d 52m 47.7s) | C | 60 | 16.8 | 33364 | 2020-06-19 21:04:16 | MASTER-IAC | (12h 51m 30.58s , -43d 48m 31.7s) | C | 60 | 16.5 | 33479 | 2020-06-19 21:06:11 | MASTER-IAC | (12h 40m 35.18s , -43d 53m 58.8s) | C | 60 | 17.1 | 33479 | 2020-06-19 21:06:11 | MASTER-IAC | (12h 29m 22.82s , -43d 49m 45.5s) | C | 60 | 16.6 | 33599 | 2020-06-19 21:08:11 | MASTER-IAC | (12h 59m 07.07s , -41d 55m 02.4s) | C | 60 | 17.1 | 33599 | 2020-06-19 21:08:11 | MASTER-IAC | (12h 48m 15.92s , -41d 50m 44.5s) | C | 60 | 16.7 | 33717 | 2020-06-19 21:10:10 | MASTER-IAC | (13h 02m 47.52s , -43d 55m 04.7s) | C | 60 | 17.4 | 33717 | 2020-06-19 21:10:10 | MASTER-IAC | (12h 51m 34.98s , -43d 50m 47.5s) | C | 60 | 17.0 | 33835 | 2020-06-19 21:12:07 | MASTER-IAC | (12h 40m 32.80s , -43d 53m 38.4s) | C | 60 | 17.4 | 33835 | 2020-06-19 21:12:07 | MASTER-IAC | (12h 29m 20.63s , -43d 49m 25.0s) | C | 60 | 16.9 | 33956 | 2020-06-19 21:14:08 | MASTER-IAC | (12h 59m 10.12s , -41d 54m 43.7s) | C | 60 | 17.6 | 33956 | 2020-06-19 21:14:08 | MASTER-IAC | (12h 48m 19.17s , -41d 50m 26.5s) | C | 60 | 17.1 | 34075 | 2020-06-19 21:16:08 | MASTER-IAC | (12h 37m 44.18s , -41d 53m 32.1s) | C | 60 | 17.4 | 34075 | 2020-06-19 21:16:08 | MASTER-IAC | (12h 26m 53.44s , -41d 49m 18.4s) | C | 60 | 17.0 | 34193 | 2020-06-19 21:18:05 | MASTER-IAC | (12h 56m 39.20s , -39d 54m 15.7s) | C | 60 | 17.6 | 34193 | 2020-06-19 21:18:05 | MASTER-IAC | (12h 46m 07.71s , -39d 49m 58.5s) | C | 60 | 17.2 | 34311 | 2020-06-19 21:20:04 | MASTER-IAC | (13h 20m 37.46s , -41d 53m 18.1s) | C | 60 | 17.5 | 34311 | 2020-06-19 21:20:04 | MASTER-IAC | (13h 09m 46.98s , -41d 48m 58.6s) | C | 60 | 17.4 | 34434 | 2020-06-19 21:22:07 | MASTER-IAC | (12h 37m 43.41s , -41d 54m 19.0s) | C | 60 | 17.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 614239407: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27992, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB200619.25 (trigger No 614239407,15h 00m 36.00s , -10d 23m 24.0s, R=3.34) errorbox 45142 sec after notice time and 45158 sec after trigger time at 2020-06-19 18:36:00 UT, with upper limit up to 17.5 mag. Observations started at twilight. The observations began at zenith distance = 55 deg. The sun altitude is -14.5 deg. The galactic latitude b = 41 deg., longitude l = 348 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1385710 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 45188 | 2020-06-19 18:36:00 | MASTER-Kislovodsk | (14h 55m 51.24s , -11d 29m 26.6s) | C | 60 | 17.5 | 45188 | 2020-06-19 18:36:00 | MASTER-Kislovodsk | (15h 04m 06.06s , -11d 56m 33.2s) | C | 60 | 16.7 | 45268 | 2020-06-19 18:37:20 | MASTER-Kislovodsk | (14h 49m 51.57s , -09d 30m 28.0s) | C | 60 | 16.8 | 45268 | 2020-06-19 18:37:20 | MASTER-Kislovodsk | (14h 58m 04.01s , -09d 57m 33.9s) | C | 60 | 16.7 | 45349 | 2020-06-19 18:38:41 | MASTER-Kislovodsk | (15h 06m 01.94s , -09d 31m 25.0s) | C | 60 | 15.5 | 45349 | 2020-06-19 18:38:41 | MASTER-Kislovodsk | (15h 14m 14.42s , -09d 58m 35.3s) | C | 60 | 14.3 | 45430 | 2020-06-19 18:40:02 | MASTER-Kislovodsk | (15h 01m 05.58s , -07d 31m 08.5s) | C | 60 | 14.2 | 45430 | 2020-06-19 18:40:02 | MASTER-Kislovodsk | (15h 09m 16.34s , -07d 58m 19.3s) | C | 60 | 14.3 | 45510 | 2020-06-19 18:41:22 | MASTER-Kislovodsk | (14h 55m 55.03s , -11d 29m 36.1s) | C | 60 | 13.8 | 45672 | 2020-06-19 18:44:03 | MASTER-Kislovodsk | (15h 14m 18.68s , -09d 56m 59.4s) | C | 60 | 13.8 | 45752 | 2020-06-19 18:45:24 | MASTER-Kislovodsk | (15h 01m 00.22s , -07d 30m 28.8s) | C | 60 | 15.1 | 45752 | 2020-06-19 18:45:24 | MASTER-Kislovodsk | (15h 09m 10.91s , -07d 57m 38.5s) | C | 60 | 15.4 | 45833 | 2020-06-19 18:46:44 | MASTER-Kislovodsk | (14h 44m 52.37s , -07d 29m 35.3s) | C | 60 | 15.2 | 45833 | 2020-06-19 18:46:44 | MASTER-Kislovodsk | (14h 53m 02.99s , -07d 56m 39.5s) | C | 60 | 16.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 614226976: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27984, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB200619.11 (trigger No 614226976,01h 56m 55.92s , +36d 43m 01.2s, R=5.32) errorbox 54 sec after notice time and 82 sec after trigger time at 2020-06-19 02:37:34 UT, with upper limit up to 16.5 mag. The observations began at zenith distance = 79 deg. The sun altitude is -33.9 deg. The galactic latitude b = -24 deg., longitude l = 138 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1385503 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 88 | 2020-06-19 02:37:34 | MASTER-IAC | (01h 54m 42.52s , +36d 36m 55.8s) | P| | 10 | 15.6 | 169 | 2020-06-19 02:38:50 | MASTER-IAC | (01h 54m 48.87s , +36d 36m 58.1s) | P| | 20 | 16.1 | 261 | 2020-06-19 02:40:12 | MASTER-IAC | (01h 54m 45.53s , +36d 38m 42.9s) | P| | 40 | 16.5 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 614103490: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27976, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB200617.68 (trigger No 614103490,08h 32m 45.60s , -64d 24m 36.0s, R=51.1) errorbox 26271 sec after notice time and 26298 sec after trigger time at 2020-06-17 23:36:24 UT, with upper limit up to 18.1 mag. The observations began at zenith distance = 56 deg. The sun altitude is -24.2 deg. The galactic latitude b = -14 deg., longitude l = 279 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1384681 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 26328 | 2020-06-17 23:36:24 | MASTER-OAFA | (07h 45m 26.28s , -63d 58m 14.5s) | C | 60 | 12.4 | 26511 | 2020-06-17 23:39:27 | MASTER-OAFA | (08h 22m 33.63s , -61d 57m 52.6s) | C | 60 | 12.6 | 26603 | 2020-06-17 23:40:58 | MASTER-OAFA | (07h 51m 48.58s , -59d 58m 01.0s) | C | 60 | 16.9 | 26694 | 2020-06-17 23:42:29 | MASTER-OAFA | (07h 45m 18.32s , -63d 57m 08.8s) | C | 60 | 14.8 | 26785 | 2020-06-17 23:44:00 | MASTER-OAFA | (08h 03m 38.11s , -63d 57m 40.4s) | C | 60 | 16.8 | 26876 | 2020-06-17 23:45:31 | MASTER-OAFA | (07h 48m 29.20s , -61d 59m 01.8s) | C | 60 | 17.9 | 26967 | 2020-06-17 23:47:02 | MASTER-OAFA | (08h 05m 34.33s , -61d 58m 07.3s) | C | 60 | 17.8 | 27058 | 2020-06-17 23:48:34 | MASTER-OAFA | (08h 22m 32.84s , -61d 56m 23.5s) | C | 60 | 17.8 | 27149 | 2020-06-17 23:50:05 | MASTER-OAFA | (08h 39m 33.37s , -61d 57m 28.3s) | C | 60 | 17.9 | 27240 | 2020-06-17 23:51:36 | MASTER-OAFA | (07h 51m 53.07s , -59d 57m 11.0s) | C | 60 | 17.8 | 27332 | 2020-06-17 23:53:07 | MASTER-OAFA | (12h 42m 16.27s , -54d 25m 56.4s) | C | 60 | 18.1 | 27514 | 2020-06-17 23:56:09 | MASTER-OAFA | (08h 07m 53.11s , -59d 57m 31.6s) | C | 60 | 17.9 | 27605 | 2020-06-17 23:57:40 | MASTER-OAFA | (08h 03m 31.32s , -63d 58m 37.3s) | C | 60 | 17.9 | 27696 | 2020-06-17 23:59:11 | MASTER-OAFA | (08h 05m 35.09s , -61d 58m 24.3s) | C | 60 | 17.9 | 27787 | 2020-06-18 00:00:42 | MASTER-OAFA | (08h 39m 33.77s , -61d 56m 12.6s) | C | 60 | 17.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200617.47: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27975, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Baksan Neutrino Observatory Alert 200617.47 (trigger No 1643109675,22h 46m 24.00s , +30d 36m 00.0s, R=3) errorbox 13121 sec after notice time and 13974 sec after trigger time at 2020-06-17 15:14:09 UT, with upper limit up to 18.0 mag. Observations started at twilight. The observations began at zenith distance = 72 deg. The sun altitude is -11.5 deg. The galactic latitude b = -25 deg., longitude l = 94 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1384541 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 14004 | 2020-06-17 15:14:09 | MASTER-Tunka | (22h 32m 54.24s , +31d 37m 15.7s) | C | 60 | 16.3 | 14084 | 2020-06-17 15:15:28 | MASTER-Tunka | (22h 51m 41.66s , +31d 36m 21.0s) | C | 60 | 15.5 | 14163 | 2020-06-17 15:16:48 | MASTER-Tunka | (22h 33m 39.14s , +27d 38m 01.9s) | C | 60 | 16.1 | 14243 | 2020-06-17 15:18:07 | MASTER-Tunka | (22h 41m 37.57s , +29d 38m 46.5s) | C | 60 | 16.2 | 14322 | 2020-06-17 15:19:26 | MASTER-Tunka | (22h 50m 56.19s , +29d 37m 28.7s) | C | 60 | 15.0 | 14401 | 2020-06-17 15:20:46 | MASTER-Tunka | (22h 32m 48.53s , +31d 37m 06.6s) | C | 60 | 16.6 | 14480 | 2020-06-17 15:22:05 | MASTER-Tunka | (22h 42m 19.32s , +31d 36m 58.7s) | C | 60 | 16.4 | 14560 | 2020-06-17 15:23:24 | MASTER-Tunka | (22h 51m 41.80s , +31d 38m 13.3s) | C | 60 | 16.7 | 14639 | 2020-06-17 15:24:44 | MASTER-Tunka | (23h 01m 06.85s , +31d 36m 29.9s) | C | 60 | 16.3 | 14719 | 2020-06-17 15:26:03 | MASTER-Tunka | (22h 33m 44.08s , +27d 38m 44.6s) | C | 60 | 16.8 | 14798 | 2020-06-17 15:27:23 | MASTER-Tunka | (22h 42m 40.82s , +27d 37m 54.6s) | C | 60 | 16.7 | 14878 | 2020-06-17 15:28:42 | MASTER-Tunka | (22h 50m 51.06s , +29d 38m 40.4s) | C | 60 | 16.8 | 14957 | 2020-06-17 15:30:02 | MASTER-Tunka | (22h 42m 19.19s , +31d 37m 58.7s) | C | 60 | 14.8 | 15036 | 2020-06-17 15:31:21 | MASTER-Tunka | (23h 01m 03.42s , +31d 36m 24.0s) | C | 60 | 17.0 | 15117 | 2020-06-17 15:32:41 | MASTER-Tunka | (22h 42m 47.78s , +27d 37m 12.9s) | C | 60 | 12.5 | 15196 | 2020-06-17 15:34:01 | MASTER-Tunka | (22h 44m 35.77s , +33d 37m 29.6s) | C | 60 | 16.3 | 15276 | 2020-06-17 15:35:20 | MASTER-Tunka | (22h 51m 45.29s , +27d 37m 48.6s) | C | 60 | 16.9 | 15514 | 2020-06-17 15:39:18 | MASTER-Tunka | (22h 44m 35.93s , +33d 38m 52.4s) | C | 60 | 16.9 | 15593 | 2020-06-17 15:40:37 | MASTER-Tunka | (22h 54m 13.82s , +33d 37m 02.8s) | C | 60 | 17.0 | 15672 | 2020-06-17 15:41:57 | MASTER-Tunka | (22h 51m 50.91s , +27d 38m 45.8s) | C | 60 | 12.8 | 15751 | 2020-06-17 15:43:16 | MASTER-Tunka | (23h 00m 47.29s , +27d 37m 43.2s) | C | 60 | 15.7 | 15905 | 2020-06-17 15:45:49 | MASTER-Tunka | (22h 32m 31.37s , +29d 38m 42.6s) | C | 60 | 17.6 | 15984 | 2020-06-17 15:47:09 | MASTER-Tunka | (23h 00m 06.37s , +29d 36m 49.1s) | C | 60 | 16.9 | 16143 | 2020-06-17 15:49:48 | MASTER-Tunka | (22h 54m 14.30s , +33d 38m 57.4s) | C | 60 | 18.0 | 16223 | 2020-06-17 15:51:07 | MASTER-Tunka | (23h 00m 50.88s , +27d 37m 13.4s) | C | 60 | 16.8 | 16302 | 2020-06-17 15:52:27 | MASTER-Tunka | (22h 32m 31.30s , +29d 39m 44.1s) | C | 60 | 17.8 | 16540 | 2020-06-17 15:56:25 | MASTER-Tunka | (22h 45m 26.52s , +25d 37m 58.5s) | C | 60 | 17.7 | 16861 | 2020-06-17 16:01:46 | MASTER-Tunka | (22h 35m 01.22s , +33d 39m 00.2s) | C | 60 | 17.4 | 16941 | 2020-06-17 16:03:05 | MASTER-Tunka | (22h 45m 20.60s , +25d 37m 42.2s) | C | 60 | 17.0 | 17421 | 2020-06-17 16:11:06 | MASTER-Tunka | (22h 34m 56.12s , +33d 40m 14.6s) | C | 60 | 17.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200616A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27961, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200616A (Fermi GBM team, GCN 27959) errorbox 304 sec after notice time and 338 sec after trigger time at 2020-06-16 01:14:54 UT, with upper limit up to 19.6 mag. The observations began at zenith distance = 72 deg. The sun altitude is -54.7 deg. MASTER-OAFA robotic telescope located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200616A errorbox 601 sec after notice time and 635 sec after trigger time at 2020-06-16 01:19:51 UT, with upper limit up to 17.5 mag. The observations began at zenith distance = 65 deg. The sun altitude is -46.2 deg. The galactic latitude b = -21 deg., longitude l = 293 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1382729 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 369 | 2020-06-16 01:14:54 | MASTER-SAAO | (07h 30m 34.93s , -75d 53m 38.2s) | C | 60 | 19.2 | 369 | 2020-06-16 01:14:54 | MASTER-SAAO | (07h 58m 43.08s , -75d 52m 05.2s) | C | 60 | 19.4 | 449 | 2020-06-16 01:16:14 | MASTER-SAAO | (07h 33m 20.18s , -73d 54m 44.7s) | C | 60 | 19.3 | 449 | 2020-06-16 01:16:14 | MASTER-SAAO | (07h 58m 04.22s , -73d 53m 20.9s) | C | 60 | 19.4 | 529 | 2020-06-16 01:17:34 | MASTER-SAAO | (07h 27m 18.60s , -77d 52m 49.4s) | C | 60 | 19.4 | 529 | 2020-06-16 01:17:34 | MASTER-SAAO | (07h 59m 58.51s , -77d 51m 07.7s) | C | 60 | 19.5 | 639 | 2020-06-16 01:18:54 | MASTER-SAAO | (07h 34m 37.50s , -72d 09m 47.5s) | C | 120 | 19.1 | 639 | 2020-06-16 01:18:54 | MASTER-SAAO | (07h 56m 59.49s , -72d 08m 32.7s) | C | 120 | 19.3 | 666 | 2020-06-16 01:19:51 | MASTER-OAFA | (07h 36m 21.01s , -69d 59m 29.3s) | C | 60 | 17.1 | 789 | 2020-06-16 01:21:14 | MASTER-SAAO | (07h 34m 44.80s , -72d 09m 15.4s) | C | 140 | 19.2 | 789 | 2020-06-16 01:21:14 | MASTER-SAAO | (07h 57m 06.26s , -72d 08m 01.5s) | C | 140 | 19.4 | 848 | 2020-06-16 01:22:53 | MASTER-OAFA | (07h 39m 19.14s , -67d 58m 00.7s) | C | 60 | 16.9 | 963 | 2020-06-16 01:23:53 | MASTER-SAAO | (07h 34m 41.75s , -72d 07m 44.3s) | C | 170 | 19.3 | 963 | 2020-06-16 01:23:53 | MASTER-SAAO | (07h 57m 01.51s , -72d 06m 30.2s) | C | 170 | 19.4 | 939 | 2020-06-16 01:24:24 | MASTER-OAFA | (08h 23m 06.72s , -69d 57m 46.3s) | C | 60 | 17.5 | 1158 | 2020-06-16 01:27:03 | MASTER-SAAO | (07h 34m 40.92s , -72d 09m 17.0s) | C | 180 | 19.4 | 1158 | 2020-06-16 01:27:03 | MASTER-SAAO | (07h 57m 02.85s , -72d 08m 03.5s) | C | 180 | 19.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200615.62: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27953, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the IceCube Alert 200615.62 (trigger No 17593623,09h 33m 48.48s , +03d 47m 20.4s, R=0.92) errorbox 5739 sec after notice time and 5852 sec after trigger time at 2020-06-15 16:26:49 UT, with upper limit up to 18.7 mag. Observations started at twilight. The observations began at zenith distance = 45 deg. The sun altitude is -9.6 deg. The galactic latitude b = 38 deg., longitude l = 231 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1382374 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 5942 | 2020-06-15 16:26:49 | MASTER-SAAO | (09h 30m 17.21s , +03d 46m 48.2s) | C | 180 | 15.8 | 5942 | 2020-06-15 16:26:49 | MASTER-SAAO | (09h 29m 23.02s , +03d 46m 13.0s) | C | 180 | 15.8 | 6370 | 2020-06-15 16:34:57 | MASTER-SAAO | (09h 35m 47.73s , +04d 08m 34.8s) | C | 60 | 17.7 | 6370 | 2020-06-15 16:34:57 | MASTER-SAAO | (09h 34m 53.19s , +04d 08m 01.2s) | C | 60 | 18.0 | 6510 | 2020-06-15 16:36:17 | MASTER-SAAO | (09h 30m 09.71s , +03d 46m 21.7s) | C | 180 | 17.7 | 6510 | 2020-06-15 16:36:17 | MASTER-SAAO | (09h 29m 15.24s , +03d 45m 47.4s) | C | 180 | 18.0 | 6730 | 2020-06-15 16:40:57 | MASTER-SAAO | (09h 35m 42.82s , +04d 07m 50.8s) | C | 60 | 18.7 | 6730 | 2020-06-15 16:40:57 | MASTER-SAAO | (09h 34m 48.55s , +04d 07m 17.1s) | C | 60 | 18.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200615A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27948, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200615A (Fermi GBM team, GCN 27947) errorbox 13375 sec after notice time and 13402 sec after trigger time at 2020-06-15 09:43:27 UT, with upper limit up to 19.1 mag. The observations began at zenith distance = 77 deg. The sun altitude is -22.4 deg. The galactic latitude b = -42 deg., longitude l = 175 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1382183 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 13433 | 2020-06-15 09:43:27 | MASTER-OAFA | (03h 39m 17.15s , +01d 56m 03.2s) | C | 60 | 17.8 | 13524 | 2020-06-15 09:44:59 | MASTER-OAFA | (03h 39m 37.24s , +03d 56m 02.4s) | C | 60 | 17.8 | 13798 | 2020-06-15 09:49:33 | MASTER-OAFA | (03h 39m 10.24s , +01d 55m 41.9s) | C | 60 | 17.8 | 13981 | 2020-06-15 09:52:35 | MASTER-OAFA | (03h 39m 37.53s , +03d 57m 28.7s) | C | 60 | 18.1 | 15194 | 2020-06-15 10:11:49 | MASTER-OAFA | (03h 07m 07.28s , +01d 56m 33.9s) | C | 180 | 19.1 | 15406 | 2020-06-15 10:15:21 | MASTER-OAFA | (03h 07m 01.99s , +01d 56m 01.1s) | C | 180 | 19.1 | 15558 | 2020-06-15 10:18:53 | MASTER-OAFA | (03h 06m 59.90s , +03d 57m 00.7s) | C | 60 | 18.5 | 15649 | 2020-06-15 10:20:24 | MASTER-OAFA | (03h 07m 06.53s , +03d 56m 01.9s) | C | 60 | 18.3 | 15740 | 2020-06-15

10:21:55 | MASTER-OAFA | (02h 59m 00.18s , +03d 54m 52.2s) | C | 60 | 18.3 | 15832 | 2020-06-15 10:23:26 | MASTER-OAFA | (02h 59m 05.64s , +03d 55m 00.4s) | C | 60 | 18.5 | 15923 | 2020-06-15 10:24:57 | MASTER-OAFA | (03h 15m 03.47s , +03d 57m 01.2s) | C | 60 | 18.0 | 16014 | 2020-06-15 10:26:29 | MASTER-OAFA | (03h 15m 03.40s , +03d 55m 27.9s) | C | 60 | 17.9 | 16105 | 2020-06-15 10:27:59 | MASTER-OAFA | (03h 15m 06.22s , +01d 56m 57.7s) | C | 60 | 17.8 | 16196 | 2020-06-15 10:29:30 | MASTER-OAFA | (03h 15m 02.07s , +01d 56m 13.8s) | C | 60 | 17.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200614.34: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27946, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Baksan Neutrino Observatory Alert 200614.34 (trigger No 1642838676,14h 10m 48.00s , -04d 24m 00.0s, R=3) errorbox 44195 sec after notice time and 45204 sec after trigger time at 2020-06-14 20:38:00 UT, with upper limit up to 20.4 mag. The observations began at zenith distance = 34 deg. The sun altitude is -61.9 deg. The galactic latitude b = 53 deg., longitude l = 338 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1381498 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 45295 | 2020-06-14 20:38:00 | MASTER-SAAO | (14h 09m 09.21s , -04d 16m 12.4s) | C | 180 | 20.2 | 45295 | 2020-06-14 20:38:00 | MASTER-SAAO | (14h 08m 13.06s , -04d 16m 30.1s) | C | 180 | 20.1 | 45494 | 2020-06-14 20:41:20 | MASTER-SAAO | (14h 09m 15.06s , -04d 17m 06.4s) | C | 180 | 20.2 | 45494 | 2020-06-14 20:41:20 | MASTER-SAAO | (14h 08m 18.99s , -04d 17m 23.7s) | C | 180 | 20.2 | 45694 | 2020-06-14 20:44:40 | MASTER-SAAO | (14h 09m 08.87s , -02d 17m 56.6s) | C | 180 | 20.3 | 45694 | 2020-06-14 20:44:40 | MASTER-SAAO | (14h 08m 13.08s , -02d 18m 13.0s) | C | 180 | 20.3 | 45894 | 2020-06-14 20:47:59 | MASTER-SAAO | (14h 09m 15.11s , -02d 17m 39.5s) | C | 180 | 20.3 | 45894 | 2020-06-14 20:48:00 | MASTER-SAAO | (14h 08m 19.34s , -02d 17m 55.0s) | C | 180 | 20.3 | 46093 | 2020-06-14 20:51:19 | MASTER-SAAO | (14h 09m 10.02s , -06d 16m 19.4s) | C | 180 | 20.3 | 46093 | 2020-06-14 20:51:19 | MASTER-SAAO | (14h 08m 13.77s , -06d 16m 35.2s) | C | 180 | 20.3 | 46293 | 2020-06-14 20:54:39 | MASTER-SAAO | (14h 09m 09.47s , -06d 17m 52.8s) | C | 180 | 20.3 | 46293 | 2020-06-14 20:54:39 | MASTER-SAAO | (14h 08m 13.21s , -06d 18m 08.6s) | C | 180 | 20.3 | 46492 | 2020-06-14 20:57:58 | MASTER-SAAO | (14h 18m 26.66s , -04d 52m 35.1s) | C | 180 | 20.4 | 46492 | 2020-06-14 20:57:58 | MASTER-SAAO | (14h 17m 30.57s , -04d 52m 50.6s) | C | 180 | 20.3 | 46698 | 2020-06-14 21:01:24 | MASTER-SAAO | (14h 18m 19.57s , -04d 53m 08.0s) | C | 180 | 20.4 | 46698 | 2020-06-14 21:01:24 | MASTER-SAAO | (14h 17m 23.51s , -04d 53m 23.6s) | C | 180 | 20.3 | 46898 | 2020-06-14 21:04:44 | MASTER-SAAO | (14h 18m 20.21s , -02d 51m 59.2s) | C | 180 | 20.2 | 46898 | 2020-06-14 21:04:44 | MASTER-SAAO | (14h 17m 24.44s , -02d 52m 14.5s) | C | 180 | 20.3 | 47098 | 2020-06-14 21:08:04 | MASTER-SAAO | (14h 18m 25.76s , -02d 52m 57.5s) | C | 180 | 20.3 | 47098 | 2020-06-14 21:08:04 | MASTER-SAAO | (14h 17m 30.04s , -02d 53m 12.8s) | C | 180 | 20.3 | 47298 | 2020-06-14 21:11:24 | MASTER-SAAO | (14h 14m 15.47s , -06d 54m 07.5s) | C | 180 | 20.3 | 47298 | 2020-06-14 21:11:24 | MASTER-SAAO | (14h 13m 19.34s , -06d 54m 22.6s) | C | 180 | 20.3 | 47498 | 2020-06-14 21:14:43 | MASTER-SAAO | (14h 14m 21.78s , -06d 53m 49.3s) | C | 180 | 20.3 | 47498 | 2020-06-14 21:14:43 | MASTER-SAAO | (14h 13m 25.70s , -06d 54m 04.1s) | C | 180 | 20.3 | 47697 | 2020-06-14 21:18:03 | MASTER-SAAO | (14h 06m 17.29s , -06d 52m 14.7s) | C | 180 | 20.3 | 47698 | 2020-06-14 21:18:03 | MASTER-SAAO | (14h 05m 21.25s , -06d 52m 29.4s) | C | 180 | 20.2 | 47897 | 2020-06-14 21:21:23 | MASTER-SAAO | (14h 06m 16.97s , -06d 53m 31.0s) | C | 180 | 20.1 | 47897 | 2020-06-14 21:21:23 | MASTER-SAAO | (14h 05m 20.86s , -06d 53m 45.5s) | C | 180 | 20.2 | 48497 | 2020-06-14 21:31:23 | MASTER-SAAO | (14h 11m 52.75s , -05d 48m 33.9s) | C | 180 | 20.3 | 48497 | 2020-06-14 21:31:23 | MASTER-SAAO | (14h 10m 55.76s , -05d 48m 41.5s) | C | 180 | 20.3 | 48696 | 2020-06-14 21:34:42 | MASTER-SAAO | (14h 11m 58.50s , -05d 49m 31.6s) | C | 180 | 20.3 | 48696 | 2020-06-14 21:34:42 | MASTER-SAAO | (14h 11m 01.52s , -05d 49m 38.9s) | C | 180 | 20.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200614.53: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27945, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the IceCube Alert 200614.53 (trigger No 72386329,01h 54m 48.96s , +31d 11m 34.8s, R=1.19) errorbox 17264 sec after notice time and 17313 sec after trigger time at 2020-06-14 17:29:54 UT, with upper limit up to 13.4 mag. Observations started at twilight. The observations began at zenith distance = 82 deg. The sun altitude is -15.5 deg. The galactic latitude b = -29 deg., longitude l = 139 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1381607 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 17403 | 2020-06-14 17:29:54 | MASTER-Tunka | (01h 53m 43.45s , +30d 46m 34.1s) | C | 180 | 13.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200614A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27942, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB 200614A (Fermi GBM team, GCN 27940) errorbox 2103 sec after notice time and 2142 sec after trigger time at 2020-06-14 15:10:37 UT, with upper limit up to 17.1 mag. Observations started at twilight. The observations began at zenith distance = 58 deg. The sun altitude is -11.4 deg. The galactic latitude b = 30 deg., longitude l = 152 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1381664 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 2172 | 2020-06-14 15:10:37 | MASTER-Tunka | (04h 29m 28.78s , +70d 07m 54.4s) | C | 60 | 16.0 | 2590 | 2020-06-14 15:17:35 | MASTER-Tunka | (04h 25m 19.49s , +69d 36m 27.1s) | C | 60 | 15.9 | 2686 | 2020-06-14 15:19:11 | MASTER-Tunka | (04h 52m 44.81s , +70d 08m 40.6s) | C | 60 | 16.0 | 2783 | 2020-06-14 15:20:48 | MASTER-Tunka | (04h 53m 37.47s , +71d 37m 21.8s) | C | 60 | 16.5 | 2881 | 2020-06-14 15:22:26 | MASTER-Tunka | (05h 23m 50.40s , +72d 07m 52.6s) | C | 60 | 16.7 | 2976 | 2020-06-14 15:24:01 | MASTER-Tunka | (04h 31m 21.86s , +73d 35m 32.9s) | C | 60 | 16.9 | 3074 | 2020-06-14 15:25:39 | MASTER-Tunka | (05h 05m 13.03s , +74d 09m 03.4s) | C | 60 | 17.1 | 3170 | 2020-06-14 15:27:15 | MASTER-Tunka | (04h 27m 52.81s , +71d 35m 54.7s) | C | 60 | 15.8 | 3266 | 2020-06-14 15:28:51 | MASTER-Tunka | (04h 52m 54.51s , +70d 08m 13.6s) | C | 60 | 16.1 | 3365 | 2020-06-14 15:30:30 | MASTER-Tunka | (05h 19m 19.13s , +71d 38m 10.9s) | C | 60 | 16.2 | 3464 | 2020-06-14 15:32:09 | MASTER-Tunka | (05h 05m 13.37s , +74d 09m 02.8s) | C | 60 | 16.4 | 3704 | 2020-06-14 15:36:09 | MASTER-Tunka | (05h 12m 00.45s , +69d 38m 43.6s) | C | 60 | 16.0 | 3801 | 2020-06-14 15:37:46 | MASTER-Tunka | (05h 31m 13.21s , +68d 10m 00.0s) | C | 60 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200613A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27933, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB 200613A (Fermi GBM team, GCN 27926) errorbox 44637 sec after notice time and 44665 sec after trigger time at 2020-06-13 17:54:33 UT, with upper limit up to 18.2 mag. Observations started at twilight. The observations began at zenith distance = 42 deg. The sun altitude is -9.8 deg. The galactic latitude b = 51 deg., longitude l = 173 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1380771 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 44756 | 2020-06-13 17:54:33 | MASTER-Kislovodsk | (10h 11m 31.91s , +46d 20m 06.9s) | C | 180 | 17.2 | 44756 | 2020-06-13 17:54:33 | MASTER-Kislovodsk | (10h 11m 44.05s , +45d 51m 37.8s) | C | 180 | 17.0 | 44897 | 2020-06-13 17:57:54 | MASTER-Kislovodsk | (09h 50m 41.65s , +52d 24m 17.7s) | C | 60 | 17.4 | 44897 | 2020-06-13 17:57:54 | MASTER-Kislovodsk | (10h 04m 14.80s , +51d 58m 14.9s) | C | 60 | 17.2 | 44977 | 2020-06-13 17:59:15 | MASTER-Kislovodsk | (09h 50m 35.85s , +50d 23m 21.1s) | C | 60 | 17.5 | 44977 | 2020-06-13 17:59:15 | MASTER-Kislovodsk | (10h 03m 33.20s , +49d 57m 12.1s) | C | 60 | 17.5 | 45138 | 2020-06-13 18:01:55 | MASTER-Kislovodsk | (09h 51m 19.61s , +48d 25m 06.7s) | C | 60 | 17.6 | 45138 | 2020-06-13 18:01:55 | MASTER-Kislovodsk | (10h 03m 45.71s , +47d 58m 51.5s) | C | 60 | 17.5 | 45278 | 2020-06-13 18:03:16 | MASTER-Kislovodsk | (10h 11m 37.07s , +46d 17m 06.7s) | C | 180 | 18.2 | 45278 | 2020-06-13 18:03:16 |

MASTER-Kislovodsk | (10h 11m 44.14s , +45d 48m 54.3s) | C | 180 | 18.2 | 45419 | 2020-06-13 18:06:37 | MASTER-Kislovodsk | (09h 50m 42.12s , +52d 24m 34.5s) | C | 60 | 18.0 | 45419 | 2020-06-13 18:06:37 | MASTER-Kislovodsk | (10h 04m 12.70s , +51d 58m 30.7s) | C | 60 | 17.8 | 45499 | 2020-06-13 18:07:57 | MASTER-Kislovodsk | (09h 50m 36.32s , +50d 23m 57.5s) | C | 60 | 18.1 | 45499 | 2020-06-13 18:07:57 | MASTER-Kislovodsk | (10h 03m 31.39s , +49d 57m 48.8s) | C | 60 | 17.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200611.74: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27928, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Baksan Neutrino Observatory Alert 200611.74 (trigger No 1642614459,03h 35m 36.00s , +01d 18m 00.0s, R=3) errorbox 1 days 55463 sec after notice time and 1 days 56507 sec after trigger time at 2020-06-13 09:29:26 UT, with upper limit up to 17.5 mag. The observations began at zenith distance = 77 deg. The sun altitude is -25.2 deg. The galactic latitude b = -41 deg., longitude l = 184 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1379757 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 142937 | 2020-06-13 09:29:26 | MASTER-OAFA | (03h 23m 39.38s , -00d 04m 31.9s) | C | 60 | 17.5 | 143120 | 2020-06-13 09:32:29 | MASTER-OAFA | (03h 23m 41.29s , +01d 56m 21.3s) | C | 60 | 17.3 | 143211 | 2020-06-13 09:34:00 | MASTER-OAFA | (03h 23m 49.28s , -02d 03m 35.2s) | C | 60 | 17.3 | 143302 | 2020-06-13 09:35:31 | MASTER-OAFA | (03h 23m 33.77s , -00d 04m 33.2s) | C | 60 | 17.5 | 143393 | 2020-06-13 09:37:02 | MASTER-OAFA | (03h 31m 41.74s , -00d 04m 13.9s) | C | 60 | 17.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 613630183: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27918, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB200612.20 (trigger No 613630183,18h 53m 52.08s , -36d 55m 01.2s, R=34.25) errorbox 25 sec after trigger time at 2020-06-12 04:50:04 UT, with upper limit up to 18.9 mag. The observations began at zenith distance = 33 deg. The sun altitude is -81.4 deg. The galactic latitude b = -17 deg., longitude l = 360 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1380117 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 85 | 2020-06-12 04:50:04 | MASTER-OAFA | (20h 09m 37.26s , -45d 26m 59.1s) | C | 120 | 18.5 | 252 | 2020-06-12 04:52:35 | MASTER-OAFA | (20h 09m 33.88s , -45d 25m 35.5s) | C | 150 | 18.6 | 449 | 2020-06-12 04:55:38 | MASTER-OAFA | (20h 09m 34.04s , -45d 27m 14.1s) | C | 180 | 18.7 | 661 | 2020-06-12 04:59:09 | MASTER-OAFA | (20h 09m 37.75s , -45d 25m 33.7s) | C | 180 | 18.8 | 872 | 2020-06-12 05:02:40 | MASTER-OAFA | (20h 09m 30.94s , -45d 26m 22.0s) | C | 180 | 18.9 | 1083 | 2020-06-12 05:06:11 | MASTER-OAFA | (20h 09m 31.75s , -45d 25m 21.9s) | C | 180 | 18.9 | 1295 | 2020-06-12 05:09:43 | MASTER-OAFA | (20h 09m 37.94s , -45d 26m 20.9s) | C | 180 | 18.8 | 1505 | 2020-06-12 05:13:14 | MASTER-OAFA | (20h 09m 31.14s , -45d 27m 20.6s) | C | 180 | 18.9 | 1717 | 2020-06-12 05:16:45 | MASTER-OAFA | (20h 09m 37.75s , -45d 26m 57.9s) | C | 180 | 18.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Kuvshinov, D., Tyurina, N., Balanutsa, P., Kuznetsov, A., Krylov, A. V., Gorbunov, I., et al. Swift GRB200612.19: Global MASTER-Net OT detection // GRB Coordinates Network, 2020, V. 27917, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the GRB200612.19 19 sec after notice time and 495 sec after trigger time at 2020-06-12 04:47:52 UT. On our 4-th (180s exposure) set , obtained 960 sec after tigger time at 2020-06-12 04:55:38 UT, we found 1 optical transient within Swift error-box (ra=302.679 dec=-45.3569 r=0.05)brighter than 18.2.

T-Tmid Date Time Expt. Ra Dec

Mag ---------|----------------------|-------|-----------------|-----------------|-------

1050 2020-06-12 04:55:38 180 (20h 10m 48.64s , -45d 20m

06.7s) 17.9

The 5-sigma upper limit has been about 18.2mag The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200612.19: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27916, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the Swift GRB200612.19 (trigger No 977310,20h 10m 43.44s , -45d 21m 25.2s, R=0.05) errorbox 10 sec after notice time and 495 sec after trigger time at 2020-06-12 04:47:52 UT, with upper limit up to 18.3 mag. The observations began at zenith distance = 33 deg. The sun altitude is -81.6 deg. The galactic latitude b = -33 deg., longitude l = 355 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1380088 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 546 | MASTER-OAFA | C | 100 | 18.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200608A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27908, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB 200608A (M. J. Moss et al., GCN 27906) errorbox 7027 sec after notice time and 7103 sec after trigger time at 2020-06-08 19:27:01 UT, with upper limit up to 18.0 mag. The observations began at zenith distance = 82 deg. The sun altitude is -47.0 deg. The galactic latitude b = -36 deg., longitude l = 13 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1376906 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 7193 | MASTER-SAAO | C | 180 | 14.9 | 17386 | MASTER-SAAO | C | 180 | 18.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200607B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27903, p. 1

MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200607B (Fermi GBM team, GCN 27902) errorbox 24 sec after notice time and 53 sec after trigger time at 2020-06-07 22:07:24 UT, with upper limit up to 17.8 mag. The observations began at zenith distance = 62 deg. The sun altitude is -78.6 deg. The galactic latitude b = -33 deg., longitude l = 301 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1376307 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 59 | 2020-06-07 22:07:24 | MASTER-SAAO | (01h 30m 36.49s , -84d 13m 24.3s) | C | 10 | 17.3 | 59 | 2020-06-07 22:07:24 | MASTER-SAAO | (02h 39m 16.16s , -84d 11m 05.2s) | C | 10 | 17.4 | 88 | 2020-06-07 22:07:54 | MASTER-SAAO | (01h 30m 26.70s , -84d 14m 22.9s) | C | 10 | 17.3 | 88 | 2020-06-07 22:07:54 | MASTER-SAAO | (02h 39m 18.22s , -84d 12m 04.0s) | C | 10 | 17.5 | 123 | 2020-06-07 22:08:23 | MASTER-SAAO | (02h 18m 05.68s , -83d 19m 14.7s) | P/ | 20 | 16.5 | 123 | 2020-06-07 22:08:23 | MASTER-SAAO | (03h 17m 34.57s , -83d 16m 55.7s) | P\ | 20 | 17.0 | 167 | 2020-06-07 22:09:03 | MASTER-SAAO | (02h 18m 00.26s , -83d 20m 43.7s) | P/ | 30 | 16.9 | 167 | 2020-06-07 22:09:03 | MASTER-SAAO | (03h 17m 41.87s , -83d 18m 24.8s) | P\ | 30 | 17.0 | 221 | 2020-06-07 22:09:52 | MASTER-SAAO | (02h 18m 08.05s , -83d 19m 17.0s) | P/ | 40 | 17.0 | 221 | 2020-06-07 22:09:52 | MASTER-SAAO | (03h 17m 36.50s , -83d 16m 57.9s) | P\ | 40 | 17.3 | 286 | 2020-06-07 22:10:52 | MASTER-SAAO | (02h 26m 51.67s , -83d 13m 46.1s) | P/ | 50 | 16.9 | 286 | 2020-06-07 22:10:52 | MASTER-SAAO | (03h 18m 17.49s , -83d 25m 38.3s) | P\ | 50 | 17.3 | 382 | 2020-06-07 22:12:23 | MASTER-SAAO | (03h 17m 30.22s , -83d 16m 50.8s) | P\ | 60 | 17.5 | 605 | 2020-06-07 22:15:41 | MASTER-SAAO | (02h 18m 06.68s , -83d 19m 24.4s) | P/ | 110 | 17.5 | 605 | 2020-06-07 22:15:41 | MASTER-SAAO | (03h 17m 35.17s , -83d 17m 05.0s) | P\ | 110 | 17.8 | 745 | 2020-06-07 22:17:51 | MASTER-SAAO | (02h 18m 02.11s , -83d 20m 47.6s) | P/ | 130 | 17.5 | 745 | 2020-06-07 22:17:51 | MASTER-SAAO | (03h 17m 42.85s , -83d 18m 28.6s) | P\ | 130 | 17.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200607A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27901, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB 200607A (B. Mailyan et al., GCN 27899) errorbox 30030 sec after notice time and 30057 sec after trigger time at 2020-06-07 17:02:46 UT, with upper limit up to 18.4 mag. Observations started at twilight. The observations began at zenith distance = 64 deg. The sun altitude is -16.2 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200607A errorbox 32194 sec after notice time and 32220 sec after trigger time at 2020-06-07 17:38:50 UT, with upper limit up to 19.2 mag. The observations began at zenith distance = 67 deg. The sun altitude is -24.3 deg. The galactic latitude b = 65 deg., longitude l = 185 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1375841 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 30087 | 2020-06-07 17:02:46 | MASTER-Tunka | (11h 19m 14.79s , +30d 21m 40.1s) | C | 60 | 17.9 | 30167 | 2020-06-07 17:04:06 | MASTER-Tunka | (11h 14m 51.86s , +32d 21m 30.0s) | C | 60 | 17.9 | 30246 | 2020-06-07 17:05:25 | MASTER-Tunka | (11h 33m 43.72s , +32d 21m 06.8s) | C | 60 | 18.4 | 30326 | 2020-06-07 17:06:45 | MASTER-Tunka | (11h 24m 24.95s , +28d 20m 56.0s) | C | 60 | 17.8 | 30405 | 2020-06-07 17:08:04 | MASTER-Tunka | (11h 19m 20.60s , +30d 22m 29.1s) | C | 60 | 18.0 | 30484 | 2020-06-07 17:09:24 | MASTER-Tunka | (11h 28m 28.91s , +30d 21m 46.8s) | C | 60 | 18.0 | 30564 | 2020-06-07 17:10:43 | MASTER-Tunka | (11h 14m 45.38s , +32d 22m 20.8s) | C | 60 | 17.7 | 30644 | 2020-06-07 17:12:03 | MASTER-Tunka | (11h 24m 18.98s , +32d 21m 35.8s) | C | 60 | 18.0 | 30723 | 2020-06-07 17:13:22 | MASTER-Tunka | (11h 33m 38.38s , +32d 20m 49.9s) | C | 60 | 18.2 | 30803 | 2020-06-07 17:14:42 | MASTER-Tunka | (11h 43m 10.17s , +32d 21m 22.2s) | C | 60 | 18.0 | 30882 | 2020-06-07 17:16:01 | MASTER-Tunka | (11h 24m 25.14s , +28d 22m 24.4s) | C | 60 | 17.8 | 30961 | 2020-06-07 17:17:21 | MASTER-Tunka | (11h 33m 29.44s , +28d 20m 46.2s) | C | 60 | 17.9 | 31041 | 2020-06-07 17:18:40 | MASTER-Tunka | (11h 28m 35.94s , +30d 22m 04.4s) | C | 60 | 18.0 | 31120 | 2020-06-07 17:19:59 | MASTER-Tunka | (11h 24m 11.55s , +32d 21m 24.4s) | C | 60 | 18.0 | 31200 | 2020-06-07 17:21:19 | MASTER-Tunka | (11h 43m 05.54s , +32d 22m 55.7s) | C | 60 | 18.1 | 31279 | 2020-06-07 17:22:38 | MASTER-Tunka | (11h 33m 31.20s , +28d 21m 37.6s) | C | 60 | 17.8 | 32167 | 2020-06-07 17:37:26 | MASTER-Tunka | (11h 37m 45.49s , +30d 21m 29.3s) | C | 60 | 17.6 | 32247 | 2020-06-07 17:38:46 | MASTER-Tunka | (11h 30m 21.13s , +34d 21m 12.3s) | C | 60 | 18.0 | 32251 | 2020-06-07 17:38:50 | MASTER-SAAO | (11h 18m 09.28s , +34d 09m 11.2s) | C | 60 | 19.0 | 32251 | 2020-06-07 17:38:50 | MASTER-SAAO | (11h 09m 51.38s , +34d 07m 44.7s) | C | 60 | 19.0 | 32326 | 2020-06-07 17:40:05 | MASTER-Tunka | (11h 06m 21.84s , +28d 19m 24.5s) | C | 60 | 17.5 | 32331 | 2020-06-07 17:40:10 | MASTER-SAAO | (11h 07m 30.94s , +30d 08m 33.1s) | C | 60 | 18.9 | 32331 | 2020-06-07 17:40:10 | MASTER-SAAO | (10h 59m 34.25s , +30d 07m 07.5s) | C | 60 | 18.8 | 32406 | 2020-06-07 17:41:25 | MASTER-Tunka | (11h 27m 35.75s , +36d 20m 08.2s) | C | 60 | 17.9 | 32411 | 2020-06-07 17:41:30 | MASTER-SAAO | (11h 36m 37.53s , +26d 09m 17.8s) | C | 60 | 18.7 | 32411 | 2020-06-07 17:41:30 | MASTER-SAAO | (11h 28m 57.87s , +26d 07m 55.8s) | C | 60 | 18.9 | 32485 | 2020-06-07 17:42:44 | MASTER-Tunka | (11h 37m 50.10s , +30d 22m 15.2s) | C | 60 | 17.9 | 32490 | 2020-06-07 17:42:50 | MASTER-SAAO | (11h 49m 16.33s , +28d 08m 10.9s) | C | 60 | 18.7 | 32490 | 2020-06-07 17:42:50 | MASTER-SAAO | (11h 41m 28.53s , +28d 06m 49.8s) | C | 60 | 18.7 | 32565 | 2020-06-07 17:44:04 | MASTER-Tunka | (11h 46m 59.78s , +30d 21m 31.3s) | C | 60 | 17.7 | 32570 | 2020-06-07 17:44:09 | MASTER-SAAO | (11h 18m 02.35s , +34d 07m 25.9s) | C | 60 | 19.0 | 32570 | 2020-06-07 17:44:09 | MASTER-SAAO | (11h 09m 44.67s , +34d 06m 01.5s) | C | 60 | 18.9 | 32644 | 2020-06-07 17:45:23 | MASTER-Tunka | (11h 30m 15.79s , +34d 22m 00.8s) | C | 60 | 17.9 | 32650 | 2020-06-07 17:45:29 | MASTER-SAAO | (11h 07m 36.83s , +30d 07m 40.5s) | C | 60 | 19.0 | 32650 | 2020-06-07 17:45:30 | MASTER-SAAO | (10h 59m 40.20s , +30d 06m 16.6s) | C | 60 | 18.9 | 32724 | 2020-06-07 17:46:43 | MASTER-Tunka | (11h 40m 00.84s , +34d 21m 15.6s) | C | 60 | 18.1 | 32804 | 2020-06-07 17:48:03 | MASTER-Tunka | (11h 06m 14.98s , +28d 19m 11.4s) | C | 60 | 17.3 | 32883 | 2020-06-07 17:49:22 | MASTER-Tunka | (11h 15m 25.37s , +28d 19m 53.6s) | C | 60 | 17.3 | 32930 | 2020-06-07 17:50:09 | MASTER-SAAO | (11h 36m 40.95s , +26d 07m 48.5s) | C | 60 | 18.7 | 32930 | 2020-06-07 17:50:09 | MASTER-SAAO | (11h 29m 01.27s , +26d 06m 25.9s) | C | 60 | 18.9 | 32964 | 2020-06-07 17:50:43 | MASTER-Tunka | (11h 27m 35.91s , +36d 21m 28.5s) | C | 60 | 17.7 | 33010 | 2020-06-07 17:51:29 | MASTER-SAAO | (11h 49m 15.77s , +28d 09m 04.8s) | C | 60 | 18.9 | 33010 | 2020-06-07 17:51:29 | MASTER-SAAO | (11h 41m 27.84s , +28d 07m 43.1s) | C | 60 | 18.8 | 33044 | 2020-06-07 17:52:03 | MASTER-Tunka | (11h 37m 29.56s , +36d 20m 15.5s) | C | 60 | 17.8 | 33089 | 2020-06-07 17:52:48 | MASTER-SAAO | (11h 18m 47.72s , +26d 08m 48.3s) | C | 60 | 19.1 | 33089 | 2020-06-07 17:52:48 | MASTER-SAAO | (11h 11m 08.05s , +26d 07m 25.5s) | C | 60 | 19.1 | 33123 | 2020-06-07 17:53:22 | MASTER-Tunka | (11h 47m 05.33s , +30d 22m 13.3s) | C | 60 | 17.6 | 33169 | 2020-06-07 17:54:08 | MASTER-SAAO | (11h 02m 47.77s , +32d 09m 41.7s) | C | 60 | 18.7 | 33169 | 2020-06-07 17:54:08 | MASTER-SAAO | (10h 54m 40.93s , +32d 08m 17.6s) | C | 60 | 18.6 | 33203 | 2020-06-07 17:54:42 | MASTER-Tunka | (11h 39m 54.98s , +34d 21m 00.3s) | C | 60 | 17.9 | 33249 | 2020-06-07 17:55:28 | MASTER-SAAO | (11h 15m 07.39s , +36d 08m 25.0s) | C | 60 | 18.7 | 33249 | 2020-06-07 17:55:28 | MASTER-SAAO | (11h 06m 37.38s , +36d 07m 01.7s) | C | 60 | 18.6 | 33282 | 2020-06-07 17:56:01 | MASTER-Tunka | (11h 15m 18.72s , +28d 21m 14.0s) | C | 60 | 17.3 | 33329 | 2020-06-07 17:56:48 | MASTER-SAAO | (11h 51m 23.87s , +32d 05m 58.8s) | C | 60 | 18.6 | 33362 | 2020-06-07 17:57:21 | MASTER-Tunka | (11h 37m 31.97s , +36d 20m 51.7s) | C | 60 | 17.8 | 33441 | 2020-06-07 17:58:41 | MASTER-Tunka | (11h 49m 41.09s , +34d 20m 20.6s) | C | 60 | 17.5 | 33521 | 2020-06-07 18:00:00 | MASTER-Tunka | (11h 25m 36.72s , +38d 19m 55.1s) | C | 60 | 17.6 | 33569 | 2020-06-07 18:00:48 | MASTER-SAAO | (11h 02m 50.33s , +32d 09m 39.3s) | C | 60 | 18.7 | 33569 | 2020-06-07 18:00:48 | MASTER-SAAO | (10h 54m 43.55s , +32d 08m 16.5s) | C | 60 | 18.5 | 33607 | 2020-06-07 18:01:26 | MASTER-Tunka | (10h 51m 38.61s , +34d 19m 18.5s) | C | 60 | 17.1 | 33649 | 2020-06-07 18:02:08 | MASTER-SAAO | (11h 15m 04.89s , +36d 07m 43.4s) | C | 60 | 18.5 | 33649 | 2020-06-07 18:02:08 | MASTER-SAAO | (11h 06m 35.02s , +36d 06m 21.1s) | C | 60 | 18.6 | 33729 | 2020-06-07 18:03:28 | MASTER-SAAO | (11h 59m 36.26s , +32d 09m 02.7s) | C | 60 | 18.5 | 33729 | 2020-06-07 18:03:28 | MASTER-SAAO | (11h 51m 29.42s , +32d 07m 44.0s) | C | 60 | 18.6 | 33809 | 2020-06-07 18:04:48 | MASTER-SAAO | (11h 17m 45.36s , +24d 07m 42.0s) | C | 60 | 19.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200605A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27893, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB 200605A (Fermi GBM team, GCN 27892) errorbox 83 sec after notice time and 111 sec after trigger time at 2020-06-05 18:19:33 UT, with upper limit up to 18.0 mag. Observations started at twilight. The observations began at zenith distance = 74 deg. The sun altitude is -13.6 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200605A errorbox 1260 sec after notice time and 1288 sec after trigger time at 2020-06-05 18:39:10 UT, with upper limit up to 16.1 mag. Observations started at twilight. The observations began at zenith distance = 70 deg. The sun altitude is -11.4 deg. The galactic latitude b = 17 deg., longitude l = 161 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1374749 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 121 | 2020-06-05 18:19:33 | MASTER-Kislovodsk | (06h 07m 39.57s , +49d 27m 34.6s) | C | 20 | 16.6 | 156 | 2020-06-05 18:19:33 | MASTER-Kislovodsk | (06h 07m 39.57s , +49d 27m 34.6s) | C | 90 | 17.5 | Coadd 167 | 2020-06-05 18:20:13 | MASTER-Kislovodsk | (06h 07m 44.61s , +49d 28m 01.0s) | C | 30 | 16.8 | 222 | 2020-06-05 18:21:04 | MASTER-Kislovodsk | (06h 07m 42.78s , +49d 29m 23.4s) | C | 40 | 16.9 | 287 | 2020-06-05

18:22:04 | MASTER-Kislovodsk | (06h 07m 42.56s , +49d 27m 30.3s) | C | 50 | 17.0 | 362 | 2020-06-05 18:23:14 | MASTER-Kislovodsk | (06h 07m 44.75s , +49d 29m 07.2s) | C | 60 | 17.0 | 635 | 2020-06-05 18:27:17 | MASTER-Kislovodsk | (06h 18m 33.37s , +53d 25m 33.8s) | C | 120 | 17.3 | 790 | 2020-06-05 18:27:17 | MASTER-Kislovodsk | (06h 18m 33.37s , +53d 25m 33.8s) | C | 430 | 18.0 | Coadd 786 | 2020-06-05 18:29:38 | MASTER-Kislovodsk | (06h 18m 30.63s , +53d 26m 34.7s) | C | 140 | 17.4 | 961 | 2020-06-05 18:32:18 | MASTER-Kislovodsk | (06h 18m 30.43s , +53d 25m 04.7s) | C | 170 | 17.4 | 1157 | 2020-06-05 18:35:29 | MASTER-Kislovodsk | (06h 18m 33.67s , +53d 26m 26.9s) | C | 180 | 17.4 | 1298 | 2020-06-05 18:38:49 | MASTER-Kislovodsk | (06h 18m 54.75s , +49d 51m 28.0s) | C | 60 | 17.1 | 1319 | 2020-06-05 18:39:10 | MASTER-Tavrida | (06h 07m 53.07s , +51d 59m 35.0s) | C | 60 | 16.1 | 1378 | 2020-06-05 18:40:10 | MASTER-Kislovodsk | (06h 06m 27.94s , +49d 52m 07.6s) | C | 60 | 17.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 612988790: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27889, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB200604.78 (trigger No 612988790,00h 32m 48.00s , +18d 31m 58.8s, R=27.48) errorbox 5015 sec after notice time and 5043 sec after trigger time at 2020-06-04 20:03:49 UT, with upper limit up to 16.3 mag. The observations began at zenith distance = 79 deg. The sun altitude is -22.8 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB200604.78 errorbox 13373 sec after notice time and 13401 sec after trigger time at 2020-06-04 22:23:07 UT, with upper limit up to 19.2 mag. The observations began at zenith distance = 71 deg. The sun altitude is -22.8 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200604.78 errorbox 22793 sec after notice time and 22821 sec after trigger time at 2020-06-05 01:00:07 UT, with upper limit up to 17.3 mag. The observations began at zenith distance = 73 deg. The sun altitude is -57.1 deg. The galactic latitude b = -44 deg., longitude l = 118 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1373959 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 5073 | 2020-06-04 20:03:49 | MASTER-Kislovodsk | (23h 54m 17.93s , +44d 01m 14.6s) | C | 60 | 16.2 | 5597 | 2020-06-04 20:12:32 | MASTER-Kislovodsk | (23h 54m 17.22s , +44d 01m 53.9s) | C | 60 | 16.2 | 5677 | 2020-06-04 20:13:52 | MASTER-Kislovodsk | (00h 05m 30.72s , +44d 02m 04.7s) | C | 60 | 16.3 | 7736 | 2020-06-04 20:48:11 | MASTER-Kislovodsk | (00h 05m 23.08s , +44d 02m 59.5s) | C | 60 | 16.2 | 13431 | 2020-06-04 22:23:07 | MASTER-Tavrida | (23h 55m 00.33s , +33d 47m 23.2s) | C | 60 | 15.1 | 13995 | 2020-06-04 22:32:31 | MASTER-Tavrida | (23h 54m 54.36s , +33d 47m 07.9s) | C | 60 | 15.9 | 14076 | 2020-06-04 22:33:51 | MASTER-Tavrida | (00h 04m 37.32s , +33d 47m 15.5s) | C | 60 | 15.2 | 14398 | 2020-06-04 22:39:13 | MASTER-Tavrida | (00h 04m 32.64s , +33d 48m 11.7s) | C | 60 | 15.7 | 19558 | 2020-06-05 00:04:14 | MASTER-Tavrida | (00h 42m 32.03s , +41d 03m 25.8s) | C | 180 | 18.6 | 19738 | 2020-06-05 00:04:14 | MASTER-Tavrida | (00h 42m 32.03s , +41d 03m 25.8s) | C | 540 | 19.2 | Coadd 19759 | 2020-06-05 00:07:34 | MASTER-Tavrida | (00h 42m 29.96s , +41d 05m 21.8s) | C | 180 | 18.5 | 19960 | 2020-06-05 00:10:55 | MASTER-Tavrida | (00h 42m 30.00s , +41d 03m 48.4s) | C | 180 | 18.6 | 22852 | 2020-06-05 01:00:07 | MASTER-SAAO | (23h 43m 26.33s , +03d 56m 17.9s) | C | 60 | 17.3 | 22852 | 2020-06-05 01:00:07 | MASTER-SAAO | (23h 50m 21.88s , +03d 57m 11.0s) | C | 60 | 15.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200604A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27888, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200604A (Fermi GBM team, GCN 27887) errorbox 405 sec after notice time and 432 sec after trigger time at 2020-06-04 20:07:17 UT, with upper limit up to 18.5 mag. The observations began at zenith distance = 45 deg. The sun altitude is -55.5 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB 200604A errorbox 2698 sec after notice time and 2725 sec after trigger time at 2020-06-04 20:45:30 UT, with upper limit up to 17.0 mag. The observations began at zenith distance = 77 deg. The sun altitude is -24.2 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 200604A errorbox 4925 sec after notice time and 4951 sec after trigger time at 2020-06-04 21:22:36 UT, with upper limit up to 17.8 mag. Observations started at twilight. The observations began at zenith distance = 43 deg. The sun altitude is -17.0 deg. The galactic latitude b = 56 deg., longitude l = 279 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1374035 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 462 | 2020-06-04 20:07:17 | MASTER-SAAO | (11h 36m 25.90s , -07d 50m 28.6s) | C | 60 | 18.3 | 462 | 2020-06-04 20:07:17 | MASTER-SAAO | (11h 29m 26.39s , -07d 51m 49.2s) | C | 60 | 18.2 | 542 | 2020-06-04 20:08:37 | MASTER-SAAO | (11h 30m 06.23s , -01d 50m 59.3s) | C | 60 | 18.1 | 542 | 2020-06-04 20:08:37 | MASTER-SAAO | (11h 23m 10.86s , -01d 52m 21.0s) | C | 60 | 18.4 | 622 | 2020-06-04 20:09:57 | MASTER-SAAO | (11h 40m 19.11s , -09d 52m 33.2s) | C | 60 | 18.5 | 622 | 2020-06-04 20:09:57 | MASTER-SAAO | (11h 33m 17.34s , -09d 53m 52.8s) | C | 60 | 18.4 | 702 | 2020-06-04 20:11:16 | MASTER-SAAO | (11h 17m 24.75s , -05d 52m 31.3s) | C | 60 | 18.3 | 702 | 2020-06-04 20:11:16 | MASTER-SAAO | (11h 10m 27.36s , -05d 53m 52.6s) | C | 60 | 18.4 | 1981 | 2020-06-04 20:32:35 | MASTER-SAAO | (11h 36m 24.88s , -07d 52m 49.0s) | C | 60 | 18.1 | 1981 | 2020-06-04 20:32:35 | MASTER-SAAO | (11h 29m 25.59s , -07d 54m 09.2s) | C | 60 | 17.9 | 2060 | 2020-06-04 20:33:55 | MASTER-SAAO | (11h 30m 05.02s , -01d 52m 10.2s) | C | 60 | 17.6 | 2060 | 2020-06-04 20:33:55 | MASTER-SAAO | (11h 23m 09.90s , -01d 53m 31.1s) | C | 60 | 17.7 | 2140 | 2020-06-04 20:35:15 | MASTER-SAAO | (11h 40m 20.68s , -09d 51m 17.8s) | C | 60 | 18.0 | 2140 | 2020-06-04 20:35:15 | MASTER-SAAO | (11h 33m 19.22s , -09d 52m 36.8s) | C | 60 | 18.0 | 2220 | 2020-06-04 20:36:34 | MASTER-SAAO | (11h 17m 22.87s , -05d 52m 53.0s) | C | 60 | 17.0 | 2220 | 2020-06-04 20:36:34 | MASTER-SAAO | (11h 10m 25.83s , -05d 54m 13.3s) | C | 60 | 17.0 | 2300 | 2020-06-04 20:37:54 | MASTER-SAAO | (11h 20m 22.06s , -07d 51m 39.8s) | C | 60 | 17.0 | 2300 | 2020-06-04 20:37:54 | MASTER-SAAO | (11h 13m 23.24s , -07d 52m 59.3s) | C | 60 | 17.0 | 2380 | 2020-06-04 20:39:14 | MASTER-SAAO | (11h 29m 33.39s , +00d 08m 32.3s) | C | 60 | 16.6 | 2380 | 2020-06-04 20:39:14 | MASTER-SAAO | (11h 22m 38.75s , +00d 07m 12.2s) | C | 60 | 16.8 | 2460 | 2020-06-04 20:40:34 | MASTER-SAAO | (11h 15m 15.25s , -03d 51m 11.9s) | C | 60 | 16.5 | 2539 | 2020-06-04 20:41:54 | MASTER-SAAO | (11h 24m 08.89s , -09d 52m 16.9s) | C | 60 | 17.3 | 2539 | 2020-06-04 20:41:54 | MASTER-SAAO | (11h 17m 07.71s , -09d 53m 35.1s) | C | 60 | 17.4 | 2619 | 2020-06-04 20:43:14 | MASTER-SAAO | (11h 20m 15.52s , -07d 53m 17.8s) | C | 60 | 16.5 | 2619 | 2020-06-04 20:43:14 | MASTER-SAAO | (11h 13m 16.69s , -07d 54m 36.0s) | C | 60 | 17.0 | 2699 | 2020-06-04 20:44:33 | MASTER-SAAO | (11h 29m 39.99s , +00d 07m 31.8s) | C | 60 | 16.6 | 2699 | 2020-06-04 20:44:33 | MASTER-SAAO | (11h 22m 45.31s , +00d 06m 12.9s) | C | 60 | 16.7 | 2755 | 2020-06-04 20:45:30 | MASTER-Kislovodsk | (11h 40m 12.42s , -00d 00m 40.0s) | C | 60 | 14.1 | 2778 | 2020-06-04 20:45:53 | MASTER-SAAO | (11h 15m 18.14s , -03d 51m 35.6s) | C | 60 | 16.6 | 2858 | 2020-06-04 20:47:12 | MASTER-SAAO | (11h 24m 07.10s , -09d 53m 10.3s) | C | 60 | 17.2 | 2858 | 2020-06-04 20:47:12 | MASTER-SAAO | (11h 17m 05.85s , -09d 54m 27.6s) | C | 60 | 17.0 | 2938 | 2020-06-04 20:48:32 | MASTER-SAAO | (12h 03m 27.09s , -03d 50m 31.3s) | C | 60 | 17.5 | 2938 | 2020-06-04 20:48:32 | MASTER-SAAO | (11h 56m 30.98s , -03d 51m 48.0s) | C | 60 | 17.2 | 3017 | 2020-06-04 20:49:52 | MASTER-SAAO | (11h 56m 31.63s , -09d 51m 44.8s) | C | 60 | 17.4 | 3017 | 2020-06-04 20:49:52 | MASTER-SAAO | (11h 49m 30.04s , -09d 53m 00.7s) | C | 60 | 17.1 | 3097 | 2020-06-04 20:51:12 | MASTER-SAAO | (11h 14m 01.63s , -01d 51m 36.1s) | C | 60 | 16.2 | 3177 | 2020-06-04 20:52:32 | MASTER-SAAO | (12h 05m 40.98s , -05d 51m 16.4s) | C | 60 | 17.3 | 3177 | 2020-06-04 20:52:32 | MASTER-SAAO | (11h 58m 43.52s , -05d 52m 32.7s) | C | 60 | 17.1 | 3238 | 2020-06-04 20:53:32 | MASTER-Kislovodsk | (12h 12m 37.53s , +01d 59m 42.0s) | C | 60 | 16.6 | 3257 | 2020-06-04 20:53:51 | MASTER-SAAO | (12h 03m 21.61s , -03d 52m 09.9s) | C | 60 | 17.5 | 3257 | 2020-06-04 20:53:51 | MASTER-SAAO | (11h 56m 25.45s , -03d 53m 26.6s) | C | 60 | 17.3 | 3318 | 2020-06-04 20:54:53 | MASTER-Kislovodsk | (12h 00m 10.02s , +05d 59m 17.1s) | C | 60 | 15.4 | 3337 | 2020-06-04 20:55:11 | MASTER-SAAO | (11h 56m 38.57s , -09d 52m 36.6s) | C | 60 | 17.8 | 3337 | 2020-06-04 20:55:11 | MASTER-SAAO | (11h 49m 36.95s , -09d 53m 52.4s) | C | 60 | 17.1 | 3398 | 2020-06-04 20:56:13 | MASTER-Kislovodsk | (12h 14m 02.63s , +03d 59m 04.6s) | C | 60 | 17.0 | 3417 | 2020-06-04 20:56:31 | MASTER-SAAO | (11h 14m 04.32s , -01d 52m 05.9s) | C | 60 | 16.9 | 3496 | 2020-06-04 20:57:51 | MASTER-SAAO | (12h 05m 37.70s , -05d 52m 04.3s) | C | 60 | 17.4 | 3496 | 2020-06-04 20:57:51 | MASTER-SAAO | (11h 58m 40.22s , -05d 53m 20.4s) | C | 60 | 17.1 | 3559 | 2020-06-04 20:58:54 | MASTER-Kislovodsk | (12h 12m 42.50s , +02d 00m 26.2s) | C | 60 | 15.7 | 3576 | 2020-06-04 20:59:11 | MASTER-SAAO | (12h 02m 07.33s , -01d 50m 12.0s) | C | 60 | 16.6 | 3576 | 2020-06-04 20:59:11 | MASTER-SAAO | (11h 55m 11.97s , -01d 51m 28.5s) | C | 60 | 16.9 | 3656 | 2020-06-04 21:00:30 | MASTER-SAAO | (11h 45m 06.76s , -11d 52m 19.2s) | C | 60 | 17.2 | 3656 | 2020-06-04 21:00:30 | MASTER-SAAO | (11h 38m 02.35s , -11d 53m 34.7s) | C | 60 | 17.3 | 3736 | 2020-06-04 21:01:50 | MASTER-SAAO | (11h 28m 45.54s , -11d 51m 44.1s) | C | 60 | 17.5 | 3736 | 2020-06-04 21:01:50 | MASTER-SAAO | (11h 21m 41.28s , -11d 53m 00.0s) | C | 60 | 17.5 | 4982 | 2020-06-04 21:22:36 | MASTER-IAC | (11h 37m 25.56s , -07d 53m 05.4s) | C | 60 | 17.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200603.12: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27885, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Baksan Neutrino Observatory Alert 200603.12 (trigger No 1641869294,10h 56m 00.00s , -23d 54m 00.0s, R=3) errorbox 51879 sec after notice time and 52834 sec after trigger time at 2020-06-03 17:28:48 UT, with upper limit up to 18.0 mag. The observations began at zenith distance = 14 deg. The sun altitude is -22.2 deg. The galactic latitude b = 32 deg., longitude l = 272 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1372763 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 52864 | 2020-06-03 17:28:48 | MASTER-SAAO | (10h 50m 18.06s , -23d 52m 58.3s) | C | 60 | 17.2 | 52864 | 2020-06-03 17:28:48 | MASTER-SAAO | (10h 42m 42.28s , -23d 54m 13.4s) | C | 60 | 17.5 | 52944 | 2020-06-03 17:30:07 | MASTER-SAAO | (10h 58m 03.81s , -21d 52m 48.5s) | C | 60 | 17.2 | 52944 | 2020-06-03 17:30:07 | MASTER-SAAO | (10h 50m 34.62s , -21d 54m 03.7s) | C | 60 | 17.5 | 53024 | 2020-06-03 17:31:27 | MASTER-SAAO | (11h 07m 53.27s , -23d 50m 56.1s) | C | 60 | 17.1 | 53024 | 2020-06-03 17:31:27 | MASTER-SAAO | (11h 00m 17.39s , -23d 52m 09.7s) | C | 60 | 17.4 | 53103 | 2020-06-03 17:32:47 | MASTER-SAAO | (11h 01m 04.85s , -25d 52m 27.9s) | C | 60 | 17.1 | 53103 | 2020-06-03 17:32:47 | MASTER-SAAO | (10h 53m 21.38s , -25d 53m 41.6s) | C | 60 | 17.3 | 53183 | 2020-06-03 17:34:07 | MASTER-SAAO | (10h 50m 24.43s , -23d 50m 59.5s) | C | 60 | 17.2 | 53183 | 2020-06-03 17:34:07 | MASTER-SAAO | (10h 42m 48.56s , -23d 52m 15.0s) | C | 60 | 17.5 | 53263 | 2020-06-03 17:35:26 | MASTER-SAAO | (10h 57m 58.16s , -21d 51m 52.0s) | C | 60 | 17.2 | 53263 | 2020-06-03 17:35:26 | MASTER-SAAO | (10h 50m 28.88s , -21d 53m 07.5s) | C | 60 | 17.5 | 53343 | 2020-06-03 17:36:46 | MASTER-SAAO | (11h 07m 49.81s , -23d 50m 44.9s) | C | 60 | 17.2 | 53343 | 2020-06-03 17:36:46 | MASTER-SAAO | (11h 00m 13.85s , -23d 51m 58.8s) | C | 60 | 17.5 | 53422 | 2020-06-03 17:38:06 | MASTER-SAAO | (11h 01m 06.41s , -25d 51m 51.6s) | C | 60 | 17.5 | 53422 | 2020-06-03 17:38:06 | MASTER-SAAO | (10h 53m 22.92s , -25d 53m 05.6s) | C | 60 | 17.7 | 53502 | 2020-06-03 17:39:26 | MASTER-SAAO | (10h 43m 11.82s , -25d 53m 10.1s) | C | 60 | 17.3 | 53582 | 2020-06-03 17:40:46 | MASTER-SAAO | (10h 54m 54.23s , -27d 52m 47.5s) | C | 60 | 17.2 | 53582 | 2020-06-03 17:40:46 | MASTER-SAAO | (10h 47m 02.37s , -27d 54m 02.0s) | C | 60 | 17.4 | 53662 | 2020-06-03 17:42:05 | MASTER-SAAO | (11h 06m 14.67s , -19d 50m 50.0s) | C | 60 | 17.2 | 53662 | 2020-06-03 17:42:05 | MASTER-SAAO | (10h 58m 51.32s , -19d 52m 05.9s) | C | 60 | 17.6 | 53742 | 2020-06-03 17:43:25 | MASTER-SAAO | (11h 15m 16.20s , -21d 52m 33.7s) | C | 60 | 17.1 | 53742 | 2020-06-03 17:43:25 | MASTER-SAAO | (11h 07m 46.74s , -21d 53m 48.4s) | C | 60 | 17.4 | 53821 | 2020-06-03 17:44:45 | MASTER-SAAO | (10h 43m 17.68s , -25d 51m 32.9s) | C | 60 | 17.2 | 53901 | 2020-06-03 17:46:05 | MASTER-SAAO | (10h 54m 46.80s , -27d 52m 02.1s) | C | 60 | 16.9 | 53901 | 2020-06-03 17:46:05 | MASTER-SAAO | (10h 46m 55.00s , -27d 53m 16.7s) | C | 60 | 17.1 | 53981 | 2020-06-03 17:47:24 | MASTER-SAAO | (11h 06m 09.90s , -19d 50m 46.9s) | C | 60 | 17.1 | 53981 | 2020-06-03 17:47:24 | MASTER-SAAO | (10h 58m 46.59s , -19d 52m 02.8s) | C | 60 | 17.4 | 54061 | 2020-06-03 17:48:44 | MASTER-SAAO | (11h 15m 18.28s , -21d 51m 41.7s) | C | 60 | 17.0 | 54061 | 2020-06-03 17:48:44 | MASTER-SAAO | (11h 07m 48.91s , -21d 52m 56.4s) | C | 60 | 17.2 | 54141 | 2020-06-03 17:50:04 | MASTER-SAAO | (10h 49m 07.51s , -19d 52m 59.6s) | C | 60 | 17.3 | 54220 | 2020-06-03 17:51:24 | MASTER-SAAO | (10h 40m 44.97s , -21d 52m 51.6s) | C | 60 | 17.3 | 54300 | 2020-06-03 17:52:44 | MASTER-SAAO | (11h 11m 07.74s , -25d 52m 12.0s) | C | 60 | 17.3 | 54380 | 2020-06-03 17:54:03 | MASTER-SAAO | (11h 05m 05.60s , -27d 53m 55.5s) | C | 60 | 17.0 | 54459 | 2020-06-03 17:55:23 | MASTER-SAAO | (10h 49m 12.19s , -19d 51m 05.1s) | C | 60 | 17.2 | 54977 | 2020-06-03 18:04:01 | MASTER-SAAO | (10h 40m 38.28s , -21d 51m 19.2s) | C | 60 | 18.0 | 55057 | 2020-06-03 18:05:21 | MASTER-SAAO | (11h 11m 08.51s , -25d 53m 04.5s) | C | 60 | 17.7 | 55137 | 2020-06-03 18:06:41 | MASTER-SAAO | (11h 05m 00.42s , -27d 54m 11.9s) | C | 60 | 17.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200601.42: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27880, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Baksan Neutrino Observatory Alert 200601.42 (trigger No 1641722370,12h 43m 36.00s , -43d 18m 00.0s, R=3) errorbox 23072 sec after notice time and 23405 sec after trigger time at 2020-06-01 16:29:35 UT, with upper limit up to 19.1 mag. Observations started at twilight. The observations began at zenith distance = 28 deg. The sun altitude is -10.1 deg. The galactic latitude b = 19 deg., longitude l = 302 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1370630 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 23435 | 2020-06-01 16:29:35 | MASTER-SAAO | (12h 39m 38.24s , -43d 49m 52.2s) | C | 60 | 18.3 | 23435 | 2020-06-01 16:29:35 | MASTER-SAAO | (12h 29m 57.17s , -43d 50m 55.1s) | C | 60 | 18.5 | 23515 | 2020-06-01 16:30:55 | MASTER-SAAO | (12h 36m 43.84s , -41d 50m 58.7s) | C | 60 | 18.3 | 23515 | 2020-06-01 16:30:55 | MASTER-SAAO | (12h 27m 20.95s , -41d 52m 04.0s) | C | 60 | 18.5 | 23595 | 2020-06-01 16:32:15 | MASTER-SAAO | (12h 58m 15.95s , -41d 50m 28.6s) | C | 60 | 18.5 | 23595 | 2020-06-01 16:32:15 | MASTER-SAAO | (12h 48m 53.16s , -41d 51m 31.6s) | C | 60 | 18.6 | 23675 | 2020-06-01 16:33:34 | MASTER-SAAO | (12h 43m 33.53s , -45d 48m 56.8s) | C | 60 | 18.6 | 23675 | 2020-06-01 16:33:34 | MASTER-SAAO | (12h 33m 31.64s , -45d 49m 59.6s) | C | 60 | 18.8 | 23755 | 2020-06-01 16:34:54 | MASTER-SAAO | (12h 39m 35.87s , -43d 50m 38.4s) | C | 60 | 18.8 | 23755 | 2020-06-01 16:34:54 | MASTER-SAAO | (12h 29m 54.09s , -43d 51m 42.9s) | C | 60 | 18.9 | 23834 | 2020-06-01 16:36:14 | MASTER-SAAO | (12h 36m 51.11s , -41d 49m 07.2s) | C | 60 | 18.6 | 23834 | 2020-06-01 16:36:14 | MASTER-SAAO | (12h 27m 28.02s , -41d 50m 13.4s) | C | 60 | 18.8 | 23914 | 2020-06-01 16:37:34 | MASTER-SAAO | (12h 58m 11.87s , -41d 49m 55.6s) | C | 60 | 18.7 | 23914 | 2020-06-01 16:37:34 | MASTER-SAAO | (12h 48m 48.76s , -41d 50m 59.2s) | C | 60 | 18.9 | 23994 | 2020-06-01 16:38:53 | MASTER-SAAO | (12h 43m 30.79s , -45d 48m 42.6s) | C | 60 | 18.8 | 23994 | 2020-06-01 16:38:53 | MASTER-SAAO | (12h 33m 28.64s , -45d 49m 45.7s) | C | 60 | 19.1 | 24074 | 2020-06-01 16:40:13 | MASTER-SAAO | (13h 01m 48.73s , -43d 49m 48.6s) | C | 60 | 18.8 | 24074 | 2020-06-01 16:40:13 | MASTER-SAAO | (12h 52m 06.98s , -43d 50m 50.6s) | C | 60 | 19.0 | 24154 | 2020-06-01 16:41:34 | MASTER-SAAO | (12h 55m 48.79s , -39d 51m 03.3s) | C | 60 | 18.8 | 24154 | 2020-06-01 16:41:34 | MASTER-SAAO | (12h 46m 42.02s , -39d 52m 08.6s) | C | 60 | 19.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200601A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27877, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 200601A (Fermi GBM team, GCN 27876) errorbox 8734 sec after notice time and 8763 sec after trigger time at 2020-06-01 04:45:53 UT, with upper limit up to 17.6 mag. Observations started at twilight. The observations began at zenith distance = 72 deg. The sun altitude is -16.1 deg. The galactic latitude b = -26 deg., longitude l = 122 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1370430 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 8794 | 2020-06-01 04:45:53 | MASTER-IAC | (02h 08m 25.01s , +33d 54m 13.3s) | C | 60 | 17.5 | 8794 | 2020-06-01 04:45:53 | MASTER-IAC | (02h 18m 15.55s , +33d 49m 56.3s) | C | 60 | 16.7 | 8919 | 2020-06-01 04:47:58 | MASTER-IAC | (02h 11m 40.38s , +35d 55m 25.3s) | C | 60 | 17.5 | 8919 | 2020-06-01 04:47:58 | MASTER-IAC | (02h 21m 45.69s , +35d 51m 10.0s) | C | 60 | 17.0 | 9037 | 2020-06-01 04:49:57 | MASTER-IAC | (02h 05m 27.38s , +31d 54m 52.6s) | C | 60 | 17.6 | 9038 | 2020-06-01 04:49:57 | MASTER-IAC | (02h 15m 04.89s , +31d 50m 35.2s) | C | 60 | 16.8 | 9398 | 2020-06-01 04:55:58 | MASTER-IAC | (02h 08m 21.31s , +33d 53m 58.1s) | C | 60 | 17.3 | 9398 | 2020-06-01 04:55:58 | MASTER-IAC | (02h 18m 11.77s , +33d 49m 43.5s) | C | 60 | 16.7 | 9517 | 2020-06-01 04:57:56 | MASTER-IAC | (02h 11m 40.42s , +35d 54m 00.0s) | C | 60 | 17.2 | 9517 | 2020-06-01 04:57:56 | MASTER-IAC | (02h 21m 45.36s , +35d 49m 46.7s) | C | 60 | 16.7 | 9637 | 2020-06-01 04:59:56 | MASTER-IAC | (02h 15m 07.94s , +31d 51m 13.5s) | C | 60 | 16.5 | 9763 | 2020-06-01 05:02:03 | MASTER-IAC | (02h 21m 20.94s , +29d 54m 07.3s) | C | 60 | 16.7 | 9763 | 2020-06-01 05:02:03 | MASTER-IAC | (02h 30m 46.39s , +29d 49m 46.6s) | C | 60 | 14.5 | 9879 | 2020-06-01 05:03:59 | MASTER-IAC | (02h 15m 12.84s , +37d 55m 29.6s) | C | 60 | 16.6 | 9879 | 2020-06-01 05:03:59 | MASTER-IAC | (02h 25m 33.63s , +37d 51m 16.9s) | C | 60 | 16.0 | 9997 | 2020-06-01 05:05:56 | MASTER-IAC | (02h 02m 50.92s , +29d 54m 53.3s) | C | 60 | 16.8 | 9997 | 2020-06-01 05:05:56 | MASTER-IAC | (02h 12m 15.86s , +29d 50m 37.2s) | C | 60 | 16.0 | 10116 | 2020-06-01 05:07:56 | MASTER-IAC | (02h 21m 17.05s , +29d 56m 07.0s) | C | 60 | 16.2 | 10116 | 2020-06-01 05:07:56 | MASTER-IAC | (02h 30m 42.39s , +29d 51m 47.8s) | C | 60 | 15.5 | 10247 | 2020-06-01 05:10:06 | MASTER-IAC | (02h 15m 13.90s , +37d 54m 53.3s) | C | 60 | 16.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Minkina, E., Lipunov, V., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Gress, O., Balanutsa, P., Kuznetsov, A., et al. MASTER OT J233317.85-674248.4 outburst // The Astronomer's Telegram, 2020, V. 13841, p. 1

AT2020nut During Fermi GRB 200629A / trigger 615127794 (BALROG localization by Biltzinger et al. GCN #28039, Fermi GCN #28040) inspection (Lipunov et al. GCN #28041 , see cover map) MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source (preliminary not connected with GRB) at (RA, Dec) = 23h 33m 17.85s -67d 42m 48.4s on 2020-06-29.97618 UT. The OT unfiltered magnitude is 16.8m (mlim=19.3).

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Gress, O., Lipunov, V., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Pogrosheva, T., Balanutsa, P., Kuznetsov, A., et al. MASTER OT J224453.60-473223.6 short flare // The Astronomer's Telegram, 2020, V. 13837, p. 1
AT 2020not During Fermi GRB200623B inspection (Lipunov et al. GCN #28018 with cover map and OT position) MASTER-IAC auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 22h 44m 53.60s -47d 32m 23.6s on 2020-06-24.16403 UT (but preliminary not connected with this GRB).

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Gress, O., Balanutsa, P., Kuznetsov, A., et al. MASTER: PSNe in NGC 997 and in unnamed galaxy // The Astronomer's Telegram, 2020, V. 13826, p. 1
AT 2020nej MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 02h 37m 17.57s +07d 17m 36.1s on 2020-06-22.15671 UT. The OT unfiltered magnitude is 17.0m (mlim=18.9).

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Lipunov, V., Pogrosheva, T., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Gress, O., Balanutsa, P., Kuznetsov, A., et al. Prediscovery image of PGIR20duo / AT2020kvq / MASTER OTJ184353.33+000350.9 // The Astronomer's Telegram, 2020, V. 13822, p. 1
MASTER OT J184353.33+000350.9 was discovered on 2020-05-21.17855 UT with unfiltered m_OT=15.9 by MASTER-IAC auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) at (RA, Dec) = 18h 43m 53.33s +00d 03m 50.9s on 2020-05-21.17855 UT (AT 2020kvq).

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Gress, O., Balanutsa, P., Kuznetsov, A., et al. MASTER: new OT inside Fermi 614103490 error-box // The Astronomer's Telegram, 2020, V. 13821, p. 1
AT2020ncx During MASTER inspection (Lipunov et al. GCN #27976) of Fermi trigger 614103490 (short GRB, see MASTER coverage map) MASTER-OAFA auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 09h 55m 02.14s -61d 33m 25.7s on 2020-06-18.03112 UT. The OT unfiltered magnitude is 15.7m (mlim=17.2).

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Gress, O., Balanutsa, P., Kuznetsov, A., et al. MASTER: bright fast high amplitude OT // The Astronomer's Telegram, 2020, V. 13812, p. 1
MASTER-OAFA auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 19h 28m 56.03s -55d 05m 46.9s on 2020-06-14.33005 UT. The OT outburst magnitudes (unfiltered) are Date,T_start_expos.

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Tiurina, N., Gress, O., Balanutsa, P., Kuznetsov, A., et al. MASTER: new high amplitude OT outburst (>6m) // The Astronomer's Telegram, 2020, V. 13809, p. 1
MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 13h 11m 55.99s -48d 28m 15.1s on 2020-06-15.84429 UT. The OT unfiltered magnitude is 17.7m (mlim=20.2).

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Lipunov, V., Tiurina, N., Gorbovskoy, E., Kornilov, V., Gorbunov, I., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER: new OT with ampl>6.5m inside BAKSAN neutrino alert error-box // The Astronomer's Telegram, 2020, V. 13806, p. 1
AT2020mqn During inspection of High Energy Muon Neutrinos alert [1,2] BAKSAN200614.34 (Lipunov et al. GCN #27946) MASTER-OAFA auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 14h 03m 56.92s -09d 56m 36.6s on 2020-06-14.96831 UT. The OT magnitude in unfiltered is 17.5m(mlim=19.3).

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Lipunov, V., Svinkin, D., Podesta, R., Gorbovskoy, E., Kornilov, V., Tyurina, N., Gorbunov, I., Balanutsa, P., Kuznetsov, A., et al. MASTER: unique late maximum of optical counterpart from ultralong GRB 200612A // The Astronomer's Telegram, 2020, V. 13803, p. 1
MASTER Global Robotic Net (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) started alert observation of Swift GRB 200612A (Sonbas et al. GCN #27915) (Lipunov et al. GCN #27916, GCN #27917, GCN #27920) at 2020-06-12 04:47:52 UT (495 sec after trigger time).

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Lipunov, V., Minkina, E., Kornilov, V., Gorbovskoy, E., Tiurina, N., Zhirkov, K., Gress, O., Balanutsa, P., Gorbunov, I., et al. MASTER optical observations of UTMOST FRB 200607 // The Astronomer's Telegram, 2020, V. 13793, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the UTMOST Alert 200607.44 (Gupta et al. ATel #13788, trigger No 19,13h 41m 41.00s , -05d 08m 24.1s, R=1) errorbox 3883 sec after notice(=ATel) time and 16030 sec after trigger time at 2020-06-07 15:04:31 UT, with upper limit up to 18.1 mag. Observations started at twilight.

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Pogrosheva, T., Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Zhirkov, K., Gress, O., Balanutsa, P., Gorbunov, I., et al. MASTER: QSO/CV bright outbursts // The Astronomer's Telegram, 2020, V. 13792, p. 1
MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 17h 04m 22.65s -65d 15m 32.6s on 2020-06-06.92183 UT. The OT unfiltered magnitude is 15.2m (mlim=18.3).

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Pogrosheva, T., Lipunov, V., Kornilov, V., Gorbovskoy, E., Tiurina, N., Zhirkov, K., Gress, O., Balanutsa, P., Gorbunov, I., et al. MASTER-SAAO: new OT with amplitude more then 5.4m // The Astronomer's Telegram, 2020, V. 13787, p. 1
AT2020lud MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 14h 01m 00.89s -81d 38m 24.8s on 2020-06-06.85286 UT. The OT unfiltered magnitude is 16.6m(mlim=18.5).

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Lipunov, V., Zhirkov, K., Gress, O., Zhirkov, K., Kornilov, V., Gorbovskoy, E., Chasovnikov, A., Tiurina, N., Balanutsa, P., et al. MASTER: optical activity of flaring FSRQ PMN J1903- 6749 // The Astronomer's Telegram, 2020, V. 13775, p. 1
MASTER-NET reports on enhanced optical activity of the flaring FSRQ PMN J1903- 6749 as reported by the Fermi-LAT Collaboration (Angioni et al. ATEL #13767).

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Lipunov, V. M., Kornilov, V. G., Zhirkov, K., Gorbovskoy, E., Budnev, N. M., Buckley, D. A. H., Rebolo, R., Serra-Ricart, M., Podesta, R., et al. Optical Observations Reveal Strong Evidence for High-energy Neutrino Progenitor // The Astrophysical Journal, 2020, V. 896, p. L19
We present the earliest astronomical observation of a high-energy neutrino error box of which the variability was discovered after high-energy-neutrino detection. The one robotic telescope of the MASTER global international networks automatically imaged the error box of the very high-energy-neutrino event IceCube-170922A. Observations were carried out in minutes after the IceCube-170922A neutrino event was detected by the IceCube observatory at the South Pole. MASTER found the blazar TXS 0506+056 to be in the off-state after one minute and then switched to the on-state no later than two hours after the event. The effect is observed at a 50σ significance level. We also present own a unique 16 yr light curve of blazar TXS 0506+056 (518 data set).

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-31 // Transient Name Server Discovery Report, 2020, V. 2020-1629, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-27 // Transient Name Server Discovery Report, 2020, V. 2020-1578, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-25 // Transient Name Server Discovery Report, 2020, V. 2020-1552, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-05-23 // Transient Name Server Discovery Report, 2020, V. 2020-1463, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-23 // Transient Name Server Discovery Report, 2020, V. 2020-1462, p. 1

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Balanutsa, P., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-20 // Transient Name Server Discovery Report, 2020, V. 2020-1428, p. 1

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Gress, O., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-20 // Transient Name Server Discovery Report, 2020, V. 2020-1427, p. 1

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Balanutsa, 3., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-18 // Transient Name Server Discovery Report, 2020, V. 2020-1399, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-17 // Transient Name Server Discovery Report, 2020, V. 2020-1383, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-16 // Transient Name Server Discovery Report, 2020, V. 2020-1371, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-16 // Transient Name Server Discovery Report, 2020, V. 2020-1370, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-15 // Transient Name Server Discovery Report, 2020, V. 2020-1351, p. 1

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Gress, O., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-14 // Transient Name Server Discovery Report, 2020, V. 2020-1335, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-10 // Transient Name Server Discovery Report, 2020, V. 2020-1284, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-09 // Transient Name Server Discovery Report, 2020, V. 2020-1274, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-05 // Transient Name Server Discovery Report, 2020, V. 2020-1233, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-04 // Transient Name Server Discovery Report, 2020, V. 2020-1222, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-03 // Transient Name Server Discovery Report, 2020, V. 2020-1209, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-05-02 // Transient Name Server Discovery Report, 2020, V. 2020-1198, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200531A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27874, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200531A (Fermi GBM team, GCN 27870) errorbox 52660 sec after notice time and 52687 sec after trigger time at 2020-05-31 17:29:26 UT, with upper limit up to 18.7 mag. The observations began at zenith distance = 69 deg. The sun altitude is -22.2 deg. The galactic latitude b = 66 deg., longitude l = 196 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1369918 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 52718 | 2020-05-31 17:29:26 | MASTER-SAAO | (10h 46m 11.37s , +36d 08m 43.4s) | C | 60 | 18.7 | 52718 | 2020-05-31 17:29:26 | MASTER-SAAO | (10h 45m 11.52s , +36d 07m 55.3s) | C | 60 | 18.6 | 52798 | 2020-05-31 17:30:46 | MASTER-SAAO | (10h 56m 10.98s , +36d 07m 51.0s) | C | 60 | 18.7 | 52798 | 2020-05-31 17:30:46 | MASTER-SAAO | (10h 55m 11.16s , +36d 07m 03.0s) | C | 60 | 18.6 | 52877 | 2020-05-31 17:32:05 | MASTER-SAAO | (11h 13m 35.60s , +38d 07m 06.9s) | C | 60 | 18.5 | 52877 | 2020-05-31 17:32:06 | MASTER-SAAO | (11h 12m 34.34s , +38d 06m 19.5s) | C | 60 | 18.6 | 52957 | 2020-05-31 17:33:25 | MASTER-SAAO | (11h 11m 12.09s , +40d 07m 43.2s) | C | 60 | 18.3 | 52957 | 2020-05-31 17:33:25 | MASTER-SAAO | (11h 02m 13.47s , +40d 06m 17.2s) | C | 60 | 18.6 | 53245 | 2020-05-31 17:38:13 | MASTER-SAAO | (10h 56m 05.86s , +36d 06m 51.1s) | C | 60 | 18.4 | 53245 | 2020-05-31 17:38:13 | MASTER-SAAO | (10h 55m 07.12s , +36d 06m 10.8s) | C | 60 | 18.6 | 53325 | 2020-05-31 17:39:33 | MASTER-SAAO | (11h 11m 12.29s , +40d 08m 48.9s) | C | 60 | 18.0 | 53325 | 2020-05-31 17:39:33 | MASTER-SAAO | (11h 02m 13.42s , +40d 07m 25.0s) | C | 60 | 18.4 | 53405 | 2020-05-31 17:40:53 | MASTER-SAAO | (11h 23m 02.23s , +40d 07m 03.9s) | C | 60 | 18.3 | 53485 | 2020-05-31 17:42:13 | MASTER-SAAO | (10h 35m 25.66s , +36d 09m 00.6s) | C | 60 | 18.3 | 53485 | 2020-05-31 17:42:13 | MASTER-SAAO | (10h 26m 55.17s , +36d 07m 35.4s) | C | 60 | 18.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200530.33: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27869, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the IceCube Alert 200530.33 (trigger No 35473338,17h 01m 28.80s , +26d 36m 36.0s, R=2.67) errorbox 32838 sec after notice time and 32887 sec after trigger time at 2020-05-30 17:02:37 UT, with upper limit up to 16.5 mag. Observations started at twilight. The observations began at zenith distance = 26 deg. The sun altitude is -15.2 deg. The galactic latitude b = 34 deg., longitude l = 48 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1369567 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 32918 | 2020-05-30 17:02:37 | MASTER-Amur | (16h 50m 00.36s , +28d 00m 08.3s) | C | 60 | 16.2 | 33057 | 2020-05-30 17:03:56 | MASTER-Amur | (17h 01m 06.96s , +26d 35m 43.9s) | C | 180 | 16.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200530A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27862, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 200530A (Fermi GBM team, GCN 27861) errorbox 592 sec after notice time and 619 sec after trigger time at 2020-05-30 00:54:29 UT, with upper limit up to 16.1 mag. The observations began at zenith distance = 75 deg. The sun altitude is -40.2 deg. The galactic latitude b = 9 deg., longitude l = 125 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1369228 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 679 | 2020-05-30 00:54:29 | MASTER-IAC | (01h 06m 24.58s , +71d 45m 48.9s) | P| | 120 | 16.1 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200529B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27857, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the Fermi GRB 200529B (Fermi GBM team, GCN 27854) errorbox 2976 sec after notice time and

3002 sec after trigger time at 2020-05-29 12:55:37 UT, with upper limit up to 14.8 mag. Observations started at twilight. The observations began at zenith distance = 65 deg. The sun altitude is -10.7 deg. The galactic latitude b = -7 deg., longitude l = 104 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1368860 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 3032 | 2020-05-29 12:55:37 | MASTER-Amur | (22h 18m 14.11s , +56d 00m 18.3s) | C | 60 | 12.9 | 3112 | 2020-05-29 12:56:56 | MASTER-Amur | (22h 34m 45.33s , +53d 59m 24.8s) | C | 60 | 12.7 | 3191 | 2020-05-29 12:58:15 | MASTER-Amur | (22h 07m 32.10s , +53d 59m 30.6s) | C | 60 | 12.8 | 3271 | 2020-05-29 12:59:35 | MASTER-Amur | (22h 25m 19.03s , +52d 00m 14.2s) | C | 60 | 12.4 | 3350 | 2020-05-29 13:00:55 | MASTER-Amur | (22h 18m 08.85s , +56d 01m 11.0s) | C | 60 | 13.8 | 3431 | 2020-05-29 13:02:15 | MASTER-Amur | (22h 32m 32.38s , +56d 00m 04.3s) | C | 60 | 14.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 612429771: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27856, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the Fermi GRB200529.31 (trigger No 612429771,23h 26m 40.08s , +53d 30m 00.0s, R=32.05) errorbox 19945 sec after notice time and 19970 sec after trigger time at 2020-05-29 12:55:37 UT, with upper limit up to 14.8 mag. Observations started at twilight. The observations began at zenith distance = 65 deg. The sun altitude is -10.7 deg. The galactic latitude b = -7 deg., longitude l = 111 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1368690 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 20001 | 2020-05-29 12:55:37 | MASTER-Amur | (22h 18m 14.11s , +56d 00m 18.3s) | C | 60 | 12.9 | 20081 | 2020-05-29 12:56:56 | MASTER-Amur | (22h 34m 45.33s , +53d 59m 24.8s) | C | 60 | 12.7 | 20160 | 2020-05-29 12:58:15 | MASTER-Amur | (22h 07m 32.10s , +53d 59m 30.6s) | C | 60 | 12.8 | 20239 | 2020-05-29 12:59:35 | MASTER-Amur | (22h 25m 19.03s , +52d 00m 14.2s) | C | 60 | 12.4 | 20319 | 2020-05-29 13:00:55 | MASTER-Amur | (22h 18m 08.85s , +56d 01m 11.0s) | C | 60 | 13.8 | 20400 | 2020-05-29 13:02:15 | MASTER-Amur | (22h 32m 32.38s , +56d 00m 04.3s) | C | 60 | 14.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200529.04: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27843, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) was pointed to the Swift GRB200529.04 (trigger No 974942,15h 55m 00.24s , -11d 03m 25.2s, R=0.05) errorbox 41 sec after notice time and 103 sec after trigger time at 2020-05-29 00:58:19 UT, with upper limit up to 17.8 mag. The observations began at zenith distance = 40 deg. The sun altitude is -40.4 deg. The galactic latitude b = 31 deg., longitude l = 359 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1368529 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment
_____|_____|_____|_____ 113 | MASTER-IAC | P| | 20 | 17.2 | 151 | MASTER-IAC | P| | 30 | 17.6 | 197 | MASTER-IAC | P| | 40 | 17.8 | 261 | MASTER-IAC | P| | 50 | 17.8 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200528A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27835, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) was pointed to the Swift GRB 200528A (E. Ambrosi et al., GCN 27832) errorbox 9786 sec after notice time and 9804 sec after trigger time at 2020-05-28 13:10:47 UT, with upper limit up to 16.7 mag. Observations started at twilight. The observations began at zenith distance = 22 deg. The sun altitude is -12.3 deg. The galactic latitude b = 57 deg., longitude l = 138 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1368165 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment
_____|_____|_____|_____ 9894 | MASTER-Amur | C | 180 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200526.85: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27829, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Baksan Neutrino Observatory Alert 200526.85 (trigger No 1641241576,15h 05m 36.00s , -71d 18m 00.0s, R=3) errorbox 7387 sec after notice time and 7945 sec after trigger time at 2020-05-26 22:38:40 UT, with upper limit up to 17.6 mag. Observations started at twilight. The observations began at zenith distance = 52 deg. The sun altitude is -12.1 deg. The galactic latitude b = -12 deg., longitude l = 314 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1366941 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 7975 | 2020-05-26 22:38:40 | MASTER-OAFA | (14h 35m 22.93s , -69d 53m 33.0s) | C | 60 | 17.1 | 8067 | 2020-05-26 22:40:12 | MASTER-OAFA | (15h 22m 01.35s , -69d 55m 27.2s) | C | 60 | 17.2 | 8158 | 2020-05-26 22:41:43 | MASTER-OAFA | (14h 44m 31.47s , -67d 54m 37.9s) | C | 60 | 17.2 | 8249 | 2020-05-26 22:43:14 | MASTER-OAFA | (15h 27m 04.38s , -67d 55m 03.0s) | C | 60 | 17.1 | 8340 | 2020-05-26 22:44:45 | MASTER-OAFA | (14h 35m 19.54s , -69d 52m 46.0s) | C | 60 | 17.5 | 8431 | 2020-05-26 22:46:16 | MASTER-OAFA | (14h 58m 44.84s , -69d 54m 19.1s) | C | 60 | 17.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200525A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27823, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 200525A (Fermi GBM team, GCN 27819) errorbox 48792 sec after notice time and 48818 sec after trigger time at 2020-05-26 04:14:07 UT, with upper limit up to 17.7 mag. The observations began at zenith distance = 78 deg. The sun altitude is -22.1 deg. The galactic latitude b = -65 deg., longitude l = 123 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1365487 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 48849 | 2020-05-26 04:14:07 | MASTER-IAC | (00h 26m 17.25s , -02d 04m 25.5s) | C | 60 | 17.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200524A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27801, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 200524A (F. Fana Dirirsa et al., GCN 27797) errorbox 74 sec after notice time and 111 sec after trigger time at 2020-05-24 05:05:51 UT, with upper limit up to 17.9 mag. Observations started at twilight. The observations began at zenith distance = 67 deg. The sun altitude is -13.1 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200524A errorbox 47446 sec after notice time and 47483 sec after trigger time at 2020-05-24 18:15:23 UT, with upper limit up to 18.9 mag. Observations started at twilight. The

observations began at zenith distance = 22 deg. The sun altitude is -10.0 deg. The galactic latitude b = 53 deg., longitude l = 110 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1364553 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 121 | 2020-05-24 05:05:51 | MASTER-IAC | (13h 54m 44.48s , +64d 23m 18.5s) | P| | 20 | 16.4 | 121 | 2020-05-24 05:05:51 | MASTER-IAC | (13h 52m 51.72s , +64d 28m 46.4s) | P- | 20 | 16.2 | 202 | 2020-05-24 05:07:06 | MASTER-IAC | (14h 05m 35.11s , +64d 25m 10.2s) | P| | 30 | 16.5 | 262 | 2020-05-24 05:07:06 | MASTER-IAC | (14h 05m 35.11s , +64d 25m 10.3s) | P| | 150 | 17.4 | Coadd 447 | 2020-05-24 05:07:06 | MASTER-IAC | (14h 05m 35.11s , +64d 25m 10.2s) | P| | 520 | 17.5 | Coadd 202 | 2020-05-24 05:07:06 | MASTER-IAC | (14h 03m 42.26s , +64d 30m 39.9s) | P- | 30 | 16.6 | 262 | 2020-05-24 05:07:06 | MASTER-IAC | (14h 03m 42.26s , +64d 30m 39.9s) | P- | 150 | 17.7 | Coadd 447 | 2020-05-24 05:07:06 | MASTER-IAC | (14h 03m 42.26s , +64d 30m 39.9s) | P- | 520 | 17.9 | Coadd 298 | 2020-05-24 05:08:33 | MASTER-IAC | (14h 05m 41.22s , +64d 25m 34.8s) | P| | 50 | 16.8 | 298 | 2020-05-24 05:08:33 | MASTER-IAC | (14h 03m 48.47s , +64d 31m 05.3s) | P- | 50 | 17.0 | 417 | 2020-05-24 05:10:22 | MASTER-IAC | (14h 05m 37.30s , +64d 26m 44.3s) | P| | 70 | 16.7 | 417 | 2020-05-24 05:10:22 | MASTER-IAC | (14h 03m 44.58s , +64d 32m 15.1s) | P- | 70 | 17.0 | 555 | 2020-05-24 05:12:30 | MASTER-IAC | (14h 05m 37.10s , +64d 25m 14.7s) | P| | 90 | 16.7 | 695 | 2020-05-24 05:12:30 | MASTER-IAC | (14h 05m 37.10s , +64d 25m 14.7s) | P| | 370 | 17.2 | Coadd 555 | 2020-05-24 05:12:30 | MASTER-IAC | (14h 03m 44.50s , +64d 30m 45.6s) | P- | 90 | 17.0 | 695 | 2020-05-24 05:12:30 | MASTER-IAC | (14h 03m 44.49s , +64d 30m 45.6s) | P- | 370 | 17.7 | Coadd 720 | 2020-05-24 05:15:00 | MASTER-IAC | (14h 05m 40.33s , +64d 26m 43.7s) | P| | 120 | 16.6 | 720 | 2020-05-24 05:15:00 | MASTER-IAC | (14h 03m 47.66s , +64d 32m 14.6s) | P- | 120 | 17.0 | 922 | 2020-05-24 05:18:02 | MASTER-IAC | (14h 05m 33.40s , +64d 26m 06.3s) | P| | 160 | 16.4 | 922 | 2020-05-24 05:18:02 | MASTER-IAC | (14h 03m 40.77s , +64d 31m 37.6s) | P- | 160 | 16.6 | 1151 | 2020-05-24 05:21:41 | MASTER-IAC | (14h 05m 33.93s , +64d 27m 05.4s) | P| | 180 | 15.8 | 1151 | 2020-05-24 05:21:41 | MASTER-IAC | (14h 03m 41.21s , +64d 32m 36.9s) | P- | 180 | 16.4 | 1331 | 2020-05-24 05:21:41 | MASTER-IAC | (14h 03m 41.17s , +64d 32m 36.9s) | P- | 540 | 16.5 | Coadd 1391 | 2020-05-24 05:25:41 | MASTER-IAC | (14h 05m 40.44s , +64d 26m 04.0s) | P| | 180 | 15.3 | 1391 | 2020-05-24 05:25:41 | MASTER-IAC | (14h 03m 47.80s , +64d 31m 35.5s) | P- | 180 | 15.8 | 1629 | 2020-05-24 05:29:39 | MASTER-IAC | (14h 03m 42.61s , +64d 30m 34.8s) | P- | 180 | 15.5 | 47513 | 2020-05-24 18:15:23 | MASTER-Tavrida | (14h 04m 04.92s , +62d 01m 07.4s) | C | 60 | 17.4 | 47594 | 2020-05-24 18:16:44 | MASTER-Tavrida | (13h 50m 59.78s , +64d 00m 37.7s) | C | 60 | 17.6 | 47675 | 2020-05-24 18:18:05 | MASTER-Tavrida | (13h 29m 49.44s , +62d 00m 37.3s) | C | 60 | 17.6 | 47756 | 2020-05-24 18:19:25 | MASTER-Tavrida | (13h 44m 19.15s , +60d 01m 24.6s) | C | 60 | 17.8 | 47836 | 2020-05-24 18:20:46 | MASTER-Tavrida | (14h 03m 58.14s , +62d 02m 08.5s) | C | 60 | 17.8 | 48129 | 2020-05-24 18:25:38 | MASTER-Tavrida | (14h 18m 44.20s , +62d 08m 50.8s) | C | 60 | 18.1 | 48209 | 2020-05-24 18:26:59 | MASTER-Tavrida | (13h 48m 27.80s , +64d 10m 01.2s) | C | 60 | 18.3 | 48290 | 2020-05-24 18:28:19 | MASTER-Tavrida | (14h 06m 45.51s , +64d 11m 10.3s) | C | 60 | 18.2 | 48451 | 2020-05-24 18:31:01 | MASTER-Tavrida | (13h 44m 38.52s , +62d 11m 16.6s) | C | 60 | 18.4 | 48531 | 2020-05-24 18:32:21 | MASTER-Tavrida | (13h 42m 06.69s , +60d 10m 42.5s) | C | 60 | 18.5 | 48612 | 2020-05-24 18:33:41 | MASTER-Tavrida | (13h 58m 09.72s , +60d 11m 28.6s) | C | 60 | 18.8 | 48693 | 2020-05-24 18:35:03 | MASTER-Tavrida | (14h 18m 50.75s , +62d 10m 04.4s) | C | 60 | 18.6 | 48773 | 2020-05-24 18:36:23 | MASTER-Tavrida | (14h 06m 42.74s , +64d 09m 24.8s) | C | 60 | 18.7 | 48854 | 2020-05-24 18:37:44 | MASTER-Tavrida | (13h 44m 37.74s , +62d 10m 11.8s) | C | 60 | 18.9 | 48935 | 2020-05-24 18:39:04 | MASTER-Tavrida | (13h 58m 12.40s , +60d 11m 28.7s) | C | 60 | 18.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200522A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27789, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB 200522A (P. A. Evans et al., GCN 27778) errorbox 52336 sec after notice time and 52358 sec after trigger time at 2020-05-23 02:14:12 UT, with upper limit up to 19.7 mag. The observations began at zenith distance = 73 deg. The sun altitude is -40.2 deg. The galactic latitude b = -62 deg., longitude l = 109 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1363025 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 52448 | MASTER-SAAO | C | 180 | 17.1 | 52448 | MASTER-SAAO | C | 180 | 17.4 | 53065 | MASTER-SAAO | C | 180 | 16.4 | 53065 | MASTER-SAAO | C | 180 | 17.3 | 53265 | MASTER-SAAO | C | 180 | 16.4 | 53265 | MASTER-SAAO | C | 180 | 16.9 | 55058 | MASTER-SAAO | C | 60 | 19.3 | 55138 | MASTER-SAAO | C | 60 | 19.3 | 55278 | MASTER-SAAO | C | 180 | 19.7 | 55697 | MASTER-SAAO | C | 60 | 19.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200523.10: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27788, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the IceCube Alert 200523.10 (trigger No 58596690,22h 35m 39.12s , +02d 08m 56.4s, R=1.56) errorbox 30 sec after notice time and 3994 sec after trigger time at 2020-05-23 03:36:42 UT, with upper limit up to 20.0 mag. The observations began at zenith distance = 41 deg. The sun altitude is -22.8 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the IceCube Alert 200523.10 errorbox 51 sec after notice time and 4015 sec after trigger time at 2020-05-23 03:37:03 UT, with upper limit up to 18.5 mag. The observations began at zenith distance = 62 deg. The sun altitude is -28.3 deg. The galactic latitude b = -46 deg., longitude l = 70 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1363593 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 4084 | 2020-05-23 03:36:42 | MASTER-SAAO | (22h 37m 53.79s , +02d 04m 34.7s) | C | 180 | 18.8 | 4084 | 2020-05-23 03:36:42 | MASTER-SAAO | (22h 30m 48.99s , +02d 03m 26.1s) | C | 180 | 19.7 | 4105 | 2020-05-23 03:37:03 | MASTER-IAC | (22h 34m 39.92s , +02d 03m 55.4s) | P| | 180 | 17.9 | 4285 | 2020-05-23 03:37:03 | MASTER-IAC | (22h 34m 39.92s , +02d 03m 55.4s) | P| | 540 | 18.5 | Coadd 4106 | 2020-05-23 03:37:03 | MASTER-IAC | (22h 33m 57.37s , +02d 07m 52.5s) | P- | 180 | 17.9 | 4286 | 2020-05-23 03:37:03 | MASTER-IAC | (22h 33m 57.38s , +02d 07m 52.5s) | P- | 540 | 18.5 | Coadd 4284 | 2020-05-23 03:40:01 | MASTER-SAAO | (22h 37m 57.53s , +02d 06m 16.8s) | C | 180 | 18.7 | 4284 | 2020-05-23 03:40:01 | MASTER-SAAO | (22h 30m 52.70s , +02d 05m 09.5s) | C | 180 | 20.0 | 4345 | 2020-05-23 03:41:02 | MASTER-IAC | (22h 34m 40.02s , +02d 04m 49.3s) | P| | 180 | 18.1 | 4345 | 2020-05-23 03:41:02 | MASTER-IAC | (22h 33m 57.53s , +02d 08m 48.6s) | P- | 180 | 18.1 | 4484 | 2020-05-23 03:43:21 | MASTER-SAAO | (22h 37m 50.72s , +02d 05m 15.0s) | C | 180 | 18.8 | 4484 | 2020-05-23 03:43:21 | MASTER-SAAO | (22h 30m 45.82s , +02d 04m 07.5s) | C | 180 | 20.0 | 4586 | 2020-05-23 03:45:03 | MASTER-IAC | (22h 34m 45.48s , +02d 03m 47.0s) | P| | 180 | 18.3 | 4586 | 2020-05-23 03:45:03 | MASTER-IAC | (22h 34m 02.92s , +02d 07m 48.0s) | P- | 180 | 18.1 | 4683 | 2020-05-23 03:46:40 | MASTER-SAAO | (22h 37m 51.02s , +02d 06m 09.5s) | C | 180 | 18.7 | 4683 | 2020-05-23 03:46:40 | MASTER-SAAO | (22h 30m 46.05s , +02d 05m 02.0s) | C | 180 | 20.0 | 4826 | 2020-05-23 03:49:03 | MASTER-IAC | (22h 34m 40.49s , +02d 02m 45.8s) | P| | 180 | 18.2 | 4826 | 2020-05-23 03:49:03 | MASTER-IAC | (22h 33m 57.90s , +02d 06m 48.0s) | P- | 180 | 18.1 | 4823 | 2020-05-23 03:50:00 | MASTER-SAAO | (22h 43m 08.73s , +01d 56m 16.9s) | C | 60 | 17.8 | 4823 | 2020-05-23 03:50:00 | MASTER-SAAO | (22h 36m 03.78s , +01d 55m 09.7s) | C | 60 | 19.7 | 5004 | 2020-05-23 03:53:01 | MASTER-IAC | (22h 42m 44.24s , -00d 06m 17.0s) | C | 60 | 17.8 | 5004 | 2020-05-23 03:53:01 | MASTER-IAC | (22h 34m 38.99s , -00d 01m 40.6s) | C | 60 | 18.1 | 5120 | 2020-05-23 03:54:57 | MASTER-SAAO | (22h 27m 10.69s , +01d 54m 39.4s) | C | 60 | 16.6 | 5123 | 2020-05-23 03:55:00 | MASTER-IAC | (22h 46m 01.40s , +03d 54m 53.1s) | C | 60 | 18.0 | 5217 | 2020-05-23 03:56:34 | MASTER-IAC | (22h 29m 59.27s , +03d 53m 39.9s) | C | 60 | 17.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200522B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 2010, p.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 611676654: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27768, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB200520.59 (trigger No 611676654,18h 53m 52.08s , +26d 52m 01.2s, R=34.83) errorbox 15061 sec after notice time and 15089 sec after trigger time at 2020-05-20 18:22:19 UT, with upper limit up to 17.4 mag. Observations started

at twilight. The observations began at zenith distance = 80 deg. The sun altitude is -16.3 deg. The galactic latitude b = 11 deg., longitude l = 58 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1361493 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 15120 | 2020-05-20 18:22:19 | MASTER-Kislovodsk | (18h 51m 52.05s , +11d 38m 44.9s) | C | 60 | 16.2 | 15120 | 2020-05-20 18:22:19 | MASTER-Kislovodsk | (18h 43m 36.34s , +12d 07m 35.2s) | C | 60 | 16.7 | 15200 | 2020-05-20 18:23:40 | MASTER-Kislovodsk | (19h 01m 10.75s , +13d 37m 22.1s) | C | 60 | 16.8 | 15200 | 2020-05-20 18:23:40 | MASTER-Kislovodsk | (18h 52m 51.22s , +14d 06m 14.8s) | C | 60 | 16.9 | 15281 | 2020-05-20 18:25:00 | MASTER-Kislovodsk | (18h 44m 11.01s , +09d 36m 58.2s) | C | 60 | 16.7 | 15281 | 2020-05-20 18:25:00 | MASTER-Kislovodsk | (18h 35m 58.71s , +10d 05m 49.1s) | C | 60 | 16.6 | 15361 | 2020-05-20 18:26:20 | MASTER-Kislovodsk | (19h 11m 56.64s , +15d 36m 23.1s) | C | 60 | 16.2 | 15361 | 2020-05-20 18:26:20 | MASTER-Kislovodsk | (19h 03m 32.65s , +16d 05m 17.5s) | C | 60 | 16.5 | 15441 | 2020-05-20 18:27:41 | MASTER-Kislovodsk | (18h 51m 55.54s , +11d 38m 20.2s) | C | 60 | 16.0 | 15441 | 2020-05-20 18:27:41 | MASTER-Kislovodsk | (18h 43m 39.71s , +12d 07m 10.9s) | C | 60 | 16.6 | 15522 | 2020-05-20 18:29:01 | MASTER-Kislovodsk | (19h 01m 07.21s , +13d 36m 52.1s) | C | 60 | 16.7 | 15522 | 2020-05-20 18:29:01 | MASTER-Kislovodsk | (18h 52m 47.49s , +14d 05m 43.4s) | C | 60 | 16.9 | 15602 | 2020-05-20 18:30:22 | MASTER-Kislovodsk | (18h 44m 18.33s , +09d 38m 35.4s) | C | 60 | 16.2 | 15602 | 2020-05-20 18:30:22 | MASTER-Kislovodsk | (18h 36m 05.55s , +10d 07m 25.8s) | C | 60 | 16.0 | 15683 | 2020-05-20 18:31:42 | MASTER-Kislovodsk | (19h 11m 50.13s , +15d 37m 08.4s) | C | 60 | 16.5 | 15683 | 2020-05-20 18:31:42 | MASTER-Kislovodsk | (19h 03m 25.67s , +16d 06m 00.4s) | C | 60 | 16.8 | 15764 | 2020-05-20 18:33:03 | MASTER-Kislovodsk | (19h 08m 14.09s , +11d 38m 15.9s) | C | 60 | 16.0 | 15764 | 2020-05-20 18:33:03 | MASTER-Kislovodsk | (18h 59m 58.69s , +12d 07m 16.0s) | C | 60 | 16.3 | 15844 | 2020-05-20 18:34:24 | MASTER-Kislovodsk | (19h 00m 32.81s , +09d 37m 34.7s) | C | 60 | 16.6 | 15845 | 2020-05-20 18:34:24 | MASTER-Kislovodsk | (18h 52m 20.68s , +10d 06m 34.4s) | C | 60 | 16.2 | 15925 | 2020-05-20 18:35:44 | MASTER-Kislovodsk | (18h 54m 06.75s , +07d 36m 49.3s) | C | 60 | 16.6 | 15925 | 2020-05-20 18:35:44 | MASTER-Kislovodsk | (18h 45m 57.34s , +08d 05m 49.2s) | C | 60 | 15.9 | 16005 | 2020-05-20 18:37:05 | MASTER-Kislovodsk | (19h 17m 40.74s , +13d 36m 03.8s) | C | 60 | 16.5 | 16005 | 2020-05-20 18:37:05 | MASTER-Kislovodsk | (19h 09m 21.45s , +14d 05m 03.6s) | C | 60 | 16.1 | 16086 | 2020-05-20 18:38:26 | MASTER-Kislovodsk | (19h 08m 17.30s , +11d 38m 10.0s) | C | 60 | 16.0 | 16086 | 2020-05-20 18:38:26 | MASTER-Kislovodsk | (19h 00m 01.79s , +12d 07m 07.0s) | C | 60 | 15.3 | 16167 | 2020-05-20 18:39:46 | MASTER-Kislovodsk | (19h 00m 28.76s , +09d 36m 57.9s) | C | 60 | 15.8 | 16167 | 2020-05-20 18:39:46 | MASTER-Kislovodsk | (18h 52m 16.42s , +10d 05m 53.9s) | C | 60 | 15.9 | 16247 | 2020-05-20 18:41:07 | MASTER-Kislovodsk | (18h 54m 13.04s , +07d 38m 40.2s) | C | 60 | 15.1 | 16247 | 2020-05-20 18:41:07 | MASTER-Kislovodsk | (18h 46m 03.33s , +08d 07m 36.9s) | C | 60 | 16.0 | 16328 | 2020-05-20 18:42:27 | MASTER-Kislovodsk | (19h 17m 34.13s , +13d 37m 15.7s) | C | 60 | 15.0 | 16328 | 2020-05-20 18:42:27 | MASTER-Kislovodsk | (19h 09m 14.43s , +14d 06m 10.1s) | C | 60 | 15.8 | 16408 | 2020-05-20 18:43:48 | MASTER-Kislovodsk | (18h 55m 13.90s , +15d 39m 11.9s) | C | 60 | 16.6 | 16408 | 2020-05-20 18:43:48 | MASTER-Kislovodsk | (18h 46m 47.27s , +16d 07m 51.9s) | C | 60 | 16.9 | 16489 | 2020-05-20 18:45:08 | MASTER-Kislovodsk | (18h 44m 42.18s , +13d 38m 35.2s) | C | 60 | 17.3 | 16489 | 2020-05-20 18:45:08 | MASTER-Kislovodsk | (18h 36m 19.90s , +14d 07m 13.3s) | C | 60 | 17.4 | 16570 | 2020-05-20 18:46:29 | MASTER-Kislovodsk | (18h 49m 13.35s , +05d 37m 26.6s) | C | 60 | 16.5 | 16570 | 2020-05-20 18:46:29 | MASTER-Kislovodsk | (18h 41m 05.37s , +06d 06m 19.1s) | C | 60 | 16.3 | 16650 | 2020-05-20 18:47:50 | MASTER-Kislovodsk | (19h 16m 45.68s , +09d 36m 39.6s) | C | 60 | 14.9 | 16650 | 2020-05-20 18:47:50 | MASTER-Kislovodsk | (19h 08m 33.49s , +10d 05m 41.3s) | C | 60 | 15.3 | 16731 | 2020-05-20 18:49:10 | MASTER-Kislovodsk | (18h 55m 16.28s , +15d 38m 53.4s) | C | 60 | 17.0 | 16731 | 2020-05-20 18:49:10 | MASTER-Kislovodsk | (18h 46m 49.24s , +16d 07m 30.7s) | C | 60 | 17.3 | 16811 | 2020-05-20 18:50:31 | MASTER-Kislovodsk | (18h 44m 40.66s , +13d 37m 48.2s) | C | 60 | 16.7 | 16811 | 2020-05-20 18:50:31 | MASTER-Kislovodsk | (18h 36m 17.94s , +14d 06m 22.9s) | C | 60 | 17.1 | 16892 | 2020-05-20 18:51:51 | MASTER-Kislovodsk | (18h 49m 20.08s , +05d 39m 07.1s) | C | 60 | 16.0 | 16892 | 2020-05-20 18:51:51 | MASTER-Kislovodsk | (18h 41m 11.59s , +06d 07m 55.9s) | C | 60 | 16.1 | 16972 | 2020-05-20 18:53:12 | MASTER-Kislovodsk | (19h 16m 41.16s , +09d 37m 39.8s) | C | 60 | 15.2 | 16972 | 2020-05-20 18:53:12 | MASTER-Kislovodsk | (19h 08m 28.55s , +10d 06m 35.6s) | C | 60 | 16.2 | 17053 | 2020-05-20 18:54:32 | MASTER-Kislovodsk | (19h 10m 16.04s , +07d 38m 56.2s) | C | 60 | 16.2 | 17053 | 2020-05-20 18:54:32 | MASTER-Kislovodsk | (19h 02m 06.02s , +08d 07m 51.9s) | C | 60 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200519A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27765, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB 200519A (B. Sbarufatti et al., GCN 27756) errorbox 23275 sec after notice time and 23295 sec after trigger time at 2020-05-19 17:48:38 UT, with upper limit up to 17.0 mag. The observations began at zenith distance = 75 deg. The sun altitude is -25.5 deg. MASTER-OAFA robotic telescope located in Argentina (OAFA observatory of San Juan National University) was pointed to the Swift GRB 200519A errorbox 46397 sec after notice time and 46416 sec after trigger time at 2020-05-20 00:14:00 UT, with upper limit up to 16.6 mag. The observations began at zenith distance = 69 deg. The sun altitude is -31.7 deg. The galactic latitude b = 7 deg., longitude l = 354 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1360465 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 23385 | MASTER-SAAO | C | 180 | 16.9 | 23385 | MASTER-SAAO | C | 180 | 16.2 | 24012 | MASTER-SAAO | C | 180 | 17.0 | 24012 | MASTER-SAAO | C | 180 | 16.6 | 46507 | MASTER-OAFA | C | 180 | 16.6 | 47353 | MASTER-OAFA | C | 180 | 16.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 611605955: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27762, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200519.77 (trigger No 611605955,19h 35m 52.08s , +29d 58m 58.8s, R=20.53) errorbox 10618 sec after notice time and 10652 sec after trigger time at 2020-05-19 21:30:03 UT, with upper limit up to 17.5 mag. The observations began at zenith distance = 74 deg. The sun altitude is -71.1 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB200519.77 errorbox 12151 sec after notice time and 12185 sec after trigger time at 2020-05-19 21:55:36 UT, with upper limit up to 17.7 mag. The observations began at zenith distance = 76 deg. The sun altitude is -24.6 deg. The galactic latitude b = 4 deg., longitude l = 65 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1360824 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 10682 | 2020-05-19 21:30:03 | MASTER-SAAO | (18h 56m 41.29s , +10d 02m 51.8s) | C | 60 | 17.1 | 10682 | 2020-05-19 21:30:03 | MASTER-SAAO | (18h 58m 50.58s , +10d 02m 53.3s) | C | 60 | 16.8 | 10762 | 2020-05-19 21:31:22 | MASTER-SAAO | (18h 48m 02.67s , +12d 01m 43.0s) | C | 60 | 17.1 | 10762 | 2020-05-19 21:31:22 | MASTER-SAAO | (18h 50m 12.80s , +12d 01m 44.4s) | C | 60 | 16.7 | 11001 | 2020-05-19 21:35:21 | MASTER-SAAO | (18h 56m 35.27s , +10d 03m 28.5s) | C | 60 | 17.1 | 11001 | 2020-05-19 21:35:21 | MASTER-SAAO | (18h 58m 44.60s , +10d 03m 30.7s) | C | 60 | 17.1 | 11081 | 2020-05-19 21:36:41 | MASTER-SAAO | (18h 48m 02.22s , +12d 02m 33.9s) | C | 60 | 17.2 | 11081 | 2020-05-19 21:36:41 | MASTER-SAAO | (18h 50m 12.44s , +12d 02m 36.4s) | C | 60 | 17.0 | 11321 | 2020-05-19 21:40:41 | MASTER-SAAO | (19h 04m 30.14s , +12d 02m 24.0s) | C | 60 | 16.9 | 11321 | 2020-05-19 21:40:41 | MASTER-SAAO | (19h 06m 40.28s , +12d 02m 26.2s) | C | 60 | 16.4 | 11401 | 2020-05-19 21:42:01 | MASTER-SAAO | (18h 57m 15.82s , +14d 00m 50.5s) | C | 60 | 17.5 | 11401 | 2020-05-19 21:42:01 | MASTER-SAAO | (18h 59m 27.03s , +14d 00m 52.2s) | C | 60 | 17.2 | 11481 | 2020-05-19 21:43:21 | MASTER-SAAO | (19h 13m 02.31s , +10d 02m 31.9s) | C | 60 | 17.3 | 11481 | 2020-05-19 21:43:21 | MASTER-SAAO | (19h 15m 11.63s , +10d 02m 34.7s) | C | 60 | 16.7 | 11780 | 2020-05-19 21:48:20 | MASTER-SAAO | (19h 04m 20.17s , +12d 02m 40.6s) | C | 60 | 16.9 | 11780 | 2020-05-19 21:48:20 | MASTER-SAAO | (19h 06m 30.59s , +12d 02m 48.2s) | C | 60 | 16.7 | 11860 | 2020-05-19 21:49:40 | MASTER-SAAO | (18h 59m 24.83s , +14d 01m 48.2s) | C | 60 | 17.3 | 12215 | 2020-05-19 21:55:36 | MASTER-IAC | (18h 20m 54.03s , +20d 01m 00.1s) | C | 60 | 17.6 | 13776 | 2020-05-19 22:21:36 | MASTER-IAC | (18h 20m 58.11s , +19d 59m 32.5s) | C | 60 | 17.7 | 13776 | 2020-05-19 22:21:36 | MASTER-IAC | (18h 29m 34.72s , +19d 54m 49.2s) | C | 60 | 14.2 | 13895 | 2020-05-19 22:23:35 | MASTER-IAC | (18h 35m 34.72s , +14d 00m 37.1s) | C | 60 | 17.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 611434353: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27752, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200517.79 (trigger No 611434353,08h 37m 31.20s , +22d 28m 48.0s, R=6.09)

errorbox 368 sec after notice time and 377 sec after trigger time at 2020-05-17 18:58:45 UT, with upper limit up to 17.8 mag. The observations began at zenith distance = 67 deg. The sun altitude is -40.2 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB200517.79 errorbox 7649 sec after notice time and 7658 sec after trigger time at 2020-05-17 21:00:06 UT, with upper limit up to 18.9 mag. Observations started at twilight. The observations began at zenith distance = 43 deg. The sun altitude is -15.2 deg. MASTER-OAFA robotic telescope located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB200517.79 errorbox 13890 sec after notice time and 13899 sec after trigger time at 2020-05-17 22:44:07 UT, with upper limit up to 19.1 mag. Observations started at twilight. The observations began at zenith distance = 56 deg. The sun altitude is -12.6 deg. The galactic latitude b = 33 deg., longitude l = 203 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1358725 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 408 | 2020-05-17 18:58:45 | MASTER-SAAO | (08h 56m 37.01s , +18d 05m 47.4s) | C | 60 | 17.7 | 408 | 2020-05-17 18:58:45 | MASTER-SAAO | (08h 54m 21.54s , +18d 05m 03.3s) | C | 60 | 17.8 | 487 | 2020-05-17 19:00:05 | MASTER-SAAO | (09h 03m 05.11s , +20d 07m 08.1s) | C | 60 | 17.7 | 487 | 2020-05-17 19:00:05 | MASTER-SAAO | (09h 00m 48.07s , +20d 06m 24.2s) | C | 60 | 17.5 | 568 | 2020-05-17 19:01:26 | MASTER-SAAO | (08h 50m 48.91s , +16d 05m 12.5s) | C | 60 | 17.7 | 568 | 2020-05-17 19:01:26 | MASTER-SAAO | (08h 48m 34.95s , +16d 04m 29.4s) | C | 60 | 17.5 | 7689 | 2020-05-17 21:00:06 | MASTER-IAC | (08h 31m 44.37s , +22d 07m 47.6s) | C | 60 | 18.2 | 8313 | 2020-05-17 21:10:30 | MASTER-IAC | (08h 40m 25.41s , +22d 02m 32.8s) | C | 60 | 18.8 | 8313 | 2020-05-17 21:10:31 | MASTER-IAC | (08h 31m 40.72s , +22d 06m 50.9s) | C | 60 | 18.2 | 8431 | 2020-05-17 21:12:28 | MASTER-IAC | (08h 33m 29.68s , +20d 03m 20.5s) | C | 60 | 18.6 | 8431 | 2020-05-17 21:12:28 | MASTER-IAC | (08h 24m 52.03s , +20d 07m 38.5s) | C | 60 | 18.0 | 8551 | 2020-05-17 21:14:29 | MASTER-IAC | (08h 30m 47.72s , +24d 02m 11.5s) | C | 60 | 18.8 | 8551 | 2020-05-17 21:14:29 | MASTER-IAC | (08h 21m 54.97s , +24d 06m 29.6s) | C | 60 | 18.3 | 8671 | 2020-05-17 21:16:29 | MASTER-IAC | (08h 48m 12.75s , +24d 01m 41.7s) | C | 60 | 18.5 | 8671 | 2020-05-17 21:16:29 | MASTER-IAC | (08h 39m 19.73s , +24d 06m 00.4s) | C | 60 | 18.3 | 8793 | 2020-05-17 21:18:31 | MASTER-IAC | (08h 33m 36.40s , +20d 01m 19.7s) | C | 60 | 18.6 | 8793 | 2020-05-17 21:18:31 | MASTER-IAC | (08h 24m 58.45s , +20d 05m 37.6s) | C | 60 | 18.0 | 8912 | 2020-05-17 21:20:29 | MASTER-IAC | (08h 30m 44.94s , +24d 02m 58.8s) | C | 60 | 18.8 | 8912 | 2020-05-17 21:20:29 | MASTER-IAC | (08h 21m 51.75s , +24d 07m 16.7s) | C | 60 | 18.4 | 9037 | 2020-05-17 21:22:34 | MASTER-IAC | (08h 48m 16.31s , +24d 02m 03.6s) | C | 60 | 18.6 | 9037 | 2020-05-17 21:22:34 | MASTER-IAC | (08h 39m 22.97s , +24d 06m 22.4s) | C | 60 | 18.2 | 9166 | 2020-05-17 21:24:43 | MASTER-IAC | (08h 23m 17.03s , +22d 02m 34.3s) | C | 60 | 18.6 | 9166 | 2020-05-17 21:24:43 | MASTER-IAC | (08h 14m 31.75s , +22d 06m 52.4s) | C | 60 | 18.0 | 9288 | 2020-05-17 21:26:46 | MASTER-IAC | (08h 39m 04.99s , +26d 02m 19.2s) | C | 60 | 18.6 | 9288 | 2020-05-17 21:26:46 | MASTER-IAC | (08h 30m 02.73s , +26d 06m 37.9s) | C | 60 | 18.5 | 9413 | 2020-05-17 21:28:51 | MASTER-IAC | (08h 41m 54.15s , +20d 08m 01.3s) | C | 60 | 18.5 | 9413 | 2020-05-17 21:28:51 | MASTER-IAC | (08h 50m 32.69s , +20d 03m 42.7s) | C | 60 | 18.8 | 9533 | 2020-05-17 21:30:50 | MASTER-IAC | (08h 23m 17.06s , +22d 01m 51.0s) | C | 60 | 18.5 | 9533 | 2020-05-17 21:30:50 | MASTER-IAC | (08h 14m 31.82s , +22d 06m 09.1s) | C | 60 | 18.0 | 9650 | 2020-05-17 21:32:47 | MASTER-IAC | (08h 39m 06.69s , +26d 01m 16.1s) | C | 60 | 18.7 | 9650 | 2020-05-17 21:32:47 | MASTER-IAC | (08h 30m 04.50s , +26d 05m 34.5s) | C | 60 | 18.5 | 9769 | 2020-05-17 21:34:47 | MASTER-IAC | (08h 50m 37.28s , +20d 01m 55.0s) | C | 60 | 18.8 | 9769 | 2020-05-17 21:34:47 | MASTER-IAC | (08h 41m 58.77s , +20d 06m 13.3s) | C | 60 | 18.6 | 9887 | 2020-05-17 21:36:45 | MASTER-IAC | (08h 57m 45.37s , +22d 03m 28.7s) | C | 60 | 18.5 | 9887 | 2020-05-17 21:36:45 | MASTER-IAC | (08h 48m 59.52s , +22d 07m 47.8s) | C | 60 | 18.4 | 10004 | 2020-05-17 21:38:42 | MASTER-IAC | (08h 44m 13.55s , +18d 01m 46.7s) | C | 60 | 18.8 | 10004 | 2020-05-17 21:38:42 | MASTER-IAC | (08h 35m 41.99s , +18d 06m 08.0s) | C | 60 | 18.4 | 10122 | 2020-05-17 21:40:39 | MASTER-IAC | (08h 21m 22.26s , +26d 02m 30.7s) | C | 60 | 18.6 | 10122 | 2020-05-17 21:40:40 | MASTER-IAC | (08h 12m 19.97s , +26d 06m 49.3s) | C | 60 | 18.1 | 10241 | 2020-05-17 21:42:39 | MASTER-IAC | (08h 57m 42.66s , +22d 02m 45.5s) | C | 60 | 18.5 | 10241 | 2020-05-17 21:42:39 | MASTER-IAC | (08h 48m 56.70s , +22d 07m 05.1s) | C | 60 | 18.3 | 10359 | 2020-05-17 21:44:37 | MASTER-IAC | (08h 44m 10.91s , +18d 03m 21.7s) | C | 60 | 18.8 | 10359 | 2020-05-17 21:44:37 | MASTER-IAC | (08h 35m 39.17s , +18d 07m 43.5s) | C | 60 | 18.3 | 10479 | 2020-05-17 21:46:37 | MASTER-IAC | (08h 21m 23.83s , +26d 01m 36.2s) | C | 60 | 18.6 | 10479 | 2020-05-17 21:46:37 | MASTER-IAC | (08h 12m 21.48s , +26d 05m 54.8s) | C | 60 | 18.2 | 10595 | 2020-05-17 21:48:33 | MASTER-IAC | (08h 13m 10.25s , +24d 00m 20.6s) | C | 60 | 18.5 | 10595 | 2020-05-17 21:48:33 | MASTER-IAC | (08h 04m 17.12s , +24d 04m 39.1s) | C | 60 | 18.3 | 10716 | 2020-05-17 21:50:34 | MASTER-IAC | (08h 16m 34.20s , +20d 00m 44.6s) | C | 60 | 18.2 | 10716 | 2020-05-17 21:50:34 | MASTER-IAC | (08h 07m 56.76s , +20d 05m 04.6s) | C | 60 | 17.9 | 10834 | 2020-05-17 21:52:32 | MASTER-IAC | (08h 27m 23.67s , +18d 02m 23.3s) | C | 60 | 18.2 | 10834 | 2020-05-17 21:52:32 | MASTER-IAC | (08h 18m 52.39s , +18d 06m 43.9s) | C | 60 | 18.0 | 10951 | 2020-05-17 21:54:29 | MASTER-IAC | (08h 13m 12.98s , +24d 00m 45.3s) | C | 60 | 18.4 | 10951 | 2020-05-17 21:54:29 | MASTER-IAC | (08h 04m 20.25s , +24d 05m 04.6s) | C | 60 | 18.3 | 11070 | 2020-05-17 21:56:28 | MASTER-IAC | (08h 16m 33.39s , +20d 02m 10.3s) | C | 60 | 18.1 | 11070 | 2020-05-17 21:56:28 | MASTER-IAC | (08h 07m 55.82s , +20d 06m 30.1s) | C | 60 | 17.9 | 11190 | 2020-05-17 21:58:28 | MASTER-IAC | (08h 27m 20.65s , +18d 01m 44.2s) | C | 60 | 18.2 | 11190 | 2020-05-17 21:58:28 | MASTER-IAC | (08h 18m 49.23s , +18d 06m 03.9s) | C | 60 | 17.9 | 11313 | 2020-05-17 22:00:30 | MASTER-IAC | (08h 05m 53.17s , +22d 01m 59.6s) | C | 60 | 18.2 | 11432 | 2020-05-17 22:02:30 | MASTER-IAC | (08h 38m 41.39s , +16d 02m 02.6s) | C | 60 | 18.6 | 11432 | 2020-05-17 22:02:30 | MASTER-IAC | (08h 30m 15.38s , +16d 06m 22.7s) | C | 60 | 18.1 | 11552 | 2020-05-17 22:04:30 | MASTER-IAC | (08h 10m 30.22s , +18d 00m 07.9s) | C | 60 | 17.9 | 11675 | 2020-05-17 22:06:33 | MASTER-IAC | (08h 05m 59.50s , +21d 59m 57.2s) | C | 60 | 18.0 | 11955 | 2020-05-17 22:11:13 | MASTER-IAC | (08h 10m 33.60s , +18d 02m 07.8s) | C | 60 | 18.0 | 12071 | 2020-05-17 22:13:09 | MASTER-IAC | (08h 12m 18.61s , +28d 01m 03.4s) | C | 60 | 18.5 | 12188 | 2020-05-17 22:15:06 | MASTER-IAC | (08h 30m 20.80s , +28d 00m 36.9s) | C | 60 | 18.3 | 12188 | 2020-05-17 22:15:06 | MASTER-IAC | (08h 21m 08.85s , +28d 04m 56.9s) | C | 60 | 18.1 | 12305 | 2020-05-17 22:17:03 | MASTER-IAC | (08h 48m 33.99s , +28d 01m 27.6s) | C | 60 | 18.6 | 12305 | 2020-05-17 22:17:03 | MASTER-IAC | (08h 39m 21.65s , +28d 05m 47.6s) | C | 60 | 18.1 | 12429 | 2020-05-17 22:19:07 | MASTER-IAC | (08h 12m 15.08s , +28d 01m 31.6s) | C | 60 | 18.6 | 12547 | 2020-05-17 22:21:04 | MASTER-IAC | (08h 30m 23.51s , +28d 00m 49.5s) | C | 60 | 18.3 | 12640 | 2020-05-17 22:22:38 | MASTER-IAC | (08h 48m 33.98s , +28d 02m 52.3s) | C | 60 | 18.6 | 12640 | 2020-05-17 22:22:38 | MASTER-IAC | (08h 39m 21.58s , +28d 07m 12.7s) | C | 60 | 18.1 | 12757 | 2020-05-17 22:24:35 | MASTER-IAC | (08h 56m 57.84s , +26d 02m 21.3s) | C | 60 | 18.5 | 12757 | 2020-05-17 22:24:35 | MASTER-IAC | (08h 47m 55.22s , +26d 06m 42.3s) | C | 60 | 18.2 | 12875 | 2020-05-17 22:26:33 | MASTER-IAC | (09h 05m 48.29s , +24d 03m 37.2s) | C | 60 | 18.9 | 12875 | 2020-05-17 22:26:33 | MASTER-IAC | (08h 56m 54.35s , +24d 07m 58.5s) | C | 60 | 18.2 | 12995 | 2020-05-17 22:28:33 | MASTER-IAC | (09h 07m 43.26s , +20d 02m 41.2s) | C | 60 | 18.6 | 12995 | 2020-05-17 22:28:33 | MASTER-IAC | (08h 59m 04.86s , +20d 07m 03.2s) | C | 60 | 18.2 | 13114 | 2020-05-17 22:30:31 | MASTER-IAC | (08h 56m 57.83s , +26d 01m 18.7s) | C | 60 | 18.5 | 13114 | 2020-05-17 22:30:32 | MASTER-IAC | (08h 47m 55.23s , +26d 05m 39.2s) | C | 60 | 18.3 | 13234 | 2020-05-17 22:32:32 | MASTER-IAC | (09h 05m 52.33s , +24d 01m 59.1s) | C | 60 | 18.8 | 13234 | 2020-05-17 22:32:32 | MASTER-IAC | (08h 56m 58.48s , +24d 06m 20.7s) | C | 60 | 18.2 | 13352 | 2020-05-17 22:34:30 | MASTER-IAC | (09h 07m 39.31s , +20d 03m 25.3s) | C | 60 | 18.7 | 13352 | 2020-05-17 22:34:30 | MASTER-IAC | (08h 59m 00.83s , +20d 07m 47.1s) | C | 60 | 18.2 | 13472 | 2020-05-17 22:36:29 | MASTER-IAC | (09h 01m 05.97s , +18d 01m 41.1s) | C | 60 | 18.4 | 13472 | 2020-05-17 22:36:29 | MASTER-IAC | (08h 52m 34.00s , +18d 06m 02.2s) | C | 60 | 18.4 | 13591 | 2020-05-17 22:38:29 | MASTER-IAC | (08h 55m 23.55s , +16d 02m 48.5s) | C | 60 |
18.3 | 13591 | 2020-05-17 22:38:29 | MASTER-IAC | (08h 46m 57.13s , +16d 07m 08.9s) | C | 60 | 18.2 | 13711 | 2020-05-17 22:40:28 | MASTER-IAC | (08h 21m 58.94s , +16d 01m 15.4s) | C | 60 | 18.0 | 13829 | 2020-05-17 22:42:27 | MASTER-IAC | (09h 01m 02.52s , +18d 03m 20.5s) | C | 60 | 18.4 | 13829 | 2020-05-17 22:42:27 | MASTER-IAC | (08h 52m 30.82s , +18d 07m 42.2s) | C | 60 | 18.2 | 13929 | 2020-05-17 22:44:07 | MASTER-OAFA | (08h 32m 10.14s , +22d 05m 02.5s) | C | 60 | 17.7 | 13947 | 2020-05-17 22:44:25 | MASTER-IAC | (08h 55m 23.95s , +16d 02m 11.1s) | C | 60 | 18.3 | 13947 | 2020-05-17 22:44:25 | MASTER-IAC | (08h 46m 57.84s , +16d 06m 31.3s) | C | 60 | 18.0 | 14020 | 2020-05-17 22:45:38 | MASTER-OAFA | (08h 25m 22.87s , +20d 05m 03.9s) | C | 60 | 17.6 | 14071 | 2020-05-17 22:46:29 | MASTER-IAC | (08h 21m 59.97s , +16d 00m 12.3s) | C | 60 | 17.9 | 14111 | 2020-05-17 22:47:09 | MASTER-OAFA | (08h 22m 15.47s , +24d 04m 58.4s) | C | 60 | 17.9 | 14203 | 2020-05-17 22:48:40 | MASTER-OAFA | (08h 14m 50.76s , +22d 02m 48.5s) | C | 60 | 17.9 | 14308 | 2020-05-17 22:50:26 | MASTER-IAC | (09h 06m 17.54s , +22d 07m 40.1s) | C | 60 | 18.3 | 14505 | 2020-05-17 22:53:42 | MASTER-OAFA | (08h 32m 09.94s , +22d 04m 52.9s) | C | 60 | 18.5 | 14596 | 2020-05-17 22:55:13 | MASTER-OAFA | (08h 40m 48.21s , +22d 03m 48.2s) | C | 60 | 18.6 | 14669 | 2020-05-17 22:56:27 | MASTER-IAC | (09h 06m 14.16s , +22d 06m 55.4s) | C | 60 | 18.1 | 14687 | 2020-05-17 22:56:45 | MASTER-OAFA | (08h 25m 23.38s , +20d 04m 56.1s) | C | 60 | 18.4 | 14778 | 2020-05-17 22:58:16 | MASTER-OAFA | (08h 33m 48.34s , +20d 04m 18.2s) | C | 60 | 18.7 | 14869 | 2020-05-17 22:59:47 | MASTER-OAFA | (08h 22m 13.92s , +24d 04m 57.6s) | C | 60 | 18.8 | 14912 | 2020-05-17 23:00:30 | MASTER-IAC | (08h 40m 24.92s , +30d 01m 29.8s) | C | 60 | 17.1 | 14912 | 2020-05-17 23:00:30 | MASTER-IAC | (08h 31m 02.47s , +30d 05m 48.8s) | C | 60 | 16.8 | 15083 | 2020-05-17 23:03:21 | MASTER-OAFA | (08h 31m 06.17s , +24d 03m 27.2s) | C | 60 | 18.9 | 15146 | 2020-05-17 23:04:24 | MASTER-IAC | (09h 05m 48.18s , +26d 06m 01.1s) | C | 60 | 18.0 | 15174 | 2020-05-17 23:04:52 | MASTER-OAFA | (08h 14m 54.09s , +22d 04m 14.2s) | C | 60 | 18.6 | 15264 | 2020-05-17 23:06:21 | MASTER-IAC | (08h 40m 22.69s , +30d 02m 18.2s) | C | 60 | 17.0 | 15264 | 2020-05-17 23:06:21 | MASTER-IAC | (08h 30m 59.88s , +30d 06m 36.6s) | C | 60 | 17.3 | 15265 | 2020-05-17 23:06:23 | MASTER-OAFA | (08h 23m 32.16s , +22d 03m 12.3s) | C | 60 | 18.8 | 15356 | 2020-05-17 23:07:54 | MASTER-OAFA | (08h 40m 50.15s , +22d 05m 21.7s) | C | 60 | 19.0 | 15447 | 2020-05-17 23:09:25 | MASTER-OAFA | (08h 33m 49.34s , +20d 04m 14.1s) | C | 60 | 18.8 | 15499 | 2020-05-17 23:10:16 | MASTER-IAC | (09h 05m 49.41s , +26d 07m 20.1s) | C | 60 | 18.1 | 15538 | 2020-05-17 23:10:56 | MASTER-OAFA | (08h 31m 00.07s , +24d 05m 07.0s) | C | 60 | 19.0 | 15617 | 2020-05-17 23:12:14 | MASTER-IAC | (08h 49m 25.36s , +30d 06m 17.5s) | C | 60 | 17.5 | 15629 | 2020-05-17 23:12:27 | MASTER-OAFA | (08h 23m 34.32s , +22d 03m 56.9s) | C | 60 | 18.7 | 15720 | 2020-05-17 23:13:58 | MASTER-OAFA | (08h 39m 52.89s , +24d 03m 50.5s) | C | 60 | 18.9 | 15739 | 2020-05-17 23:14:17 | MASTER-IAC | (08h 57m 23.28s , +28d 07m 31.5s) | C | 60 | 18.0 | 15811 | 2020-05-17 23:15:29 | MASTER-OAFA | (08h 42m 22.70s , +20d 03m 36.4s) | C | 60 | 19.0 | 15903 | 2020-05-17 23:17:00 | MASTER-OAFA | (08h 30m 29.42s , +26d 04m 04.3s) | C | 60 | 18.8 | 15984 | 2020-05-17 23:18:22 | MASTER-IAC | (08h 49m 26.36s , +30d 05m 14.5s) | C | 60 | 17.4 | 15994 | 2020-05-17 23:18:31 | MASTER-OAFA | (08h 36m 11.02s , +18d 04m 18.2s) | C | 60 | 18.8 | 16085 | 2020-05-17 23:20:03 |

MASTER-OAFA | (08h 39m 45.60s , +24d 03m 18.9s) | C | 60 | 18.8 | 16104 | 2020-05-17 23:20:22 | MASTER-IAC | (08h 57m 29.04s , +28d 05m 47.8s) | C | 60 | 17.9 | 16176 | 2020-05-17 23:21:34 | MASTER-OAFA | (08h 48m 38.58s , +24d 03m 58.4s) | C | 60 | 18.7 | 16267 | 2020-05-17 23:23:05 | MASTER-OAFA | (08h 42m 22.83s , +20d 05m 10.0s) | C | 60 | 19.0 | 16358 | 2020-05-17 23:24:36 | MASTER-OAFA | (08h 50m 53.70s , +20d 03m 38.3s) | C | 60 | 19.1 | 16449 | 2020-05-17 23:26:07 | MASTER-OAFA | (08h 30m 35.79s , +26d 04m 53.0s) | C | 60 | 18.8 | 16540 | 2020-05-17 23:27:38 | MASTER-OAFA | (08h 39m 24.81s , +26d 04m 15.4s) | C | 60 | 18.7 | 16631 | 2020-05-17 23:29:09 | MASTER-OAFA | (08h 36m 04.37s , +18d 05m 14.8s) | C | 60 | 18.8 | 16723 | 2020-05-17 23:30:40 | MASTER-OAFA | (08h 44m 36.24s , +18d 04m 27.1s) | C | 60 | 19.0 | 16814 | 2020-05-17 23:32:12 | MASTER-OAFA | (08h 48m 31.87s , +24d 03m 28.7s) | C | 60 | 18.8 | 16905 | 2020-05-17 23:33:43 | MASTER-OAFA | (08h 50m 55.88s , +20d 03m 36.8s) | C | 60 | 19.0 | 16996 | 2020-05-17 23:35:14 | MASTER-OAFA | (08h 39m 27.48s , +26d 04m 53.6s) | C | 60 | 18.6 | 17087 | 2020-05-17 23:36:45 | MASTER-OAFA | (08h 44m 32.92s , +18d 03m 26.0s) | C | 60 | 19.0 | 17179 | 2020-05-17 23:38:16 | MASTER-OAFA | (08h 19m 16.67s , +18d 03m 47.2s) | C | 60 | 18.5 | 17270 | 2020-05-17 23:39:48 | MASTER-OAFA | (08h 08m 21.60s , +20d 03m 28.6s) | C | 60 | 18.3 | 17361 | 2020-05-17 23:41:19 | MASTER-OAFA | (08h 04m 49.02s , +24d 02m 47.6s) | C | 60 | 18.5 | 17452 | 2020-05-17 23:42:50 | MASTER-OAFA | (08h 12m 44.45s , +26d 03m 01.0s) | C | 60 | 18.4 | 17629 | 2020-05-17 23:45:46 | MASTER-OAFA | (08h 19m 16.66s , +18d 05m 00.8s) | C | 60 | 18.5 | 17720 | 2020-05-17 23:47:17 | MASTER-OAFA | (08h 27m 47.42s , +18d 04m 15.4s) | C | 60 | 18.5 | 17811 | 2020-05-17 23:48:48 | MASTER-OAFA | (08h 08m 17.47s , +20d 02m 44.4s) | C | 60 | 18.3 | 17902 | 2020-05-17 23:50:19 | MASTER-OAFA | (08h 16m 53.58s , +20d 03m 14.7s) | C | 60 | 18.4 | 17993 | 2020-05-17 23:51:51 | MASTER-OAFA | (08h 04m 48.08s , +24d 04m 30.5s) | C | 60 | 18.5 | 18084 | 2020-05-17 23:53:22 | MASTER-OAFA | (08h 13m 33.80s , +24d 03m 17.3s) | C | 60 | 18.5 | 18175 | 2020-05-17 23:54:53 | MASTER-OAFA | (08h 12m 47.93s , +26d 04m 34.6s) | C | 60 | 18.5 | 18266 | 2020-05-17 23:56:24 | MASTER-OAFA | (08h 21m 36.20s , +26d 03m 57.4s) | C | 60 | 18.6 | 18357 | 2020-05-17 23:57:55 | MASTER-OAFA | (08h 27m 40.34s , +18d 05m 12.1s) | C | 60 | 18.4 | 18449 | 2020-05-17 23:59:26 | MASTER-OAFA | (08h 16m 53.77s , +20d 03m 52.9s) | C | 60 | 18.3 | 18540 | 2020-05-18 00:00:58 | MASTER-OAFA | (08h 13m 31.36s , +24d 02m 45.1s) | C | 60 | 18.6 | 18631 | 2020-05-18 00:02:29 | MASTER-OAFA | (08h 21m 42.38s , +26d 03m 07.4s) | C | 60 | 18.6 | 18722 | 2020-05-18 00:04:00 | MASTER-OAFA | (08h 49m 26.71s , +22d 03m 50.2s) | C | 60 | 18.8 | 18904 | 2020-05-18 00:07:02 | MASTER-OAFA | (08h 48m 25.33s , +26d 04m 30.4s) | C | 60 | 18.6 | 18995 | 2020-05-18 00:08:33 | MASTER-OAFA | (09h 06m 14.14s , +26d 04m 02.5s) | C | 60 | 18.9 | 19086 | 2020-05-18 00:10:04 | MASTER-OAFA | (08h 49m 26.09s , +22d 05m 04.5s) | C | 60 | 18.8 | 19178 | 2020-05-18 00:11:35 | MASTER-OAFA | (08h 58m 04.29s , +22d 03m 56.4s) | C | 60 | 18.7 | 19360 | 2020-05-18 00:14:38 | MASTER-OAFA | (08h 06m 13.62s , +22d 03m 24.8s) | C | 60 | 18.1 | 19451 | 2020-05-18 00:16:09 | MASTER-OAFA | (08h 48m 18.90s , +26d 05m 26.0s) | C | 60 | 18.4 | 19542 | 2020-05-18 00:17:40 | MASTER-OAFA | (08h 57m 20.06s , +26d 04m 38.3s) | C | 60 | 18.5 | 19634 | 2020-05-18 00:19:11 | MASTER-OAFA | (09h 06m 07.07s , +26d 03m 50.0s) | C | 60 | 18.6 | 19816 | 2020-05-18 00:22:14 | MASTER-OAFA | (08h 58m 04.27s , +22d 05m 35.9s) | C | 60 | 18.5 | 19907 | 2020-05-18 00:23:45 | MASTER-OAFA | (08h 06m 17.65s , +22d 02m 52.7s) | C | 60 | 17.8 | 19998 | 2020-05-18 00:25:16 | MASTER-OAFA | (08h 57m 19.78s , +26d 05m 30.5s) | C | 60 | 18.6 | 20180 | 2020-05-18 00:28:18 | MASTER-OAFA | (08h 59m 28.50s , +20d 04m 43.1s) | C | 60 | 18.7 | 20272 | 2020-05-18 00:29:49 | MASTER-OAFA | (08h 53m 01.56s , +18d 04m 01.4s) | C | 60 | 18.7 | 20363 | 2020-05-18 00:31:20 | MASTER-OAFA | (08h 30m 40.18s , +16d 03m 29.4s) | C | 60 | 18.7 | 20454 | 2020-05-18 00:32:51 | MASTER-OAFA | (08h 47m 15.45s , +16d 04m 27.9s) | C | 60 | 18.8 | 20545 | 2020-05-18 00:34:22 | MASTER-OAFA | (08h 59m 21.66s , +20d 05m 42.2s) | C | 60 | 18.7 | 20635 | 2020-05-18 00:35:53 | MASTER-OAFA | (09h 08m 00.22s , +20d 04m 53.9s) | C | 60 | 18.7 | 20726 | 2020-05-18 00:37:24 | MASTER-OAFA | (08h 52m 55.26s , +18d 03m 33.2s) | C | 60 | 18.7 | 20818 | 2020-05-18 00:38:55 | MASTER-OAFA | (09h 01m 26.84s , +18d 04m 12.9s) | C | 60 | 18.5 | 20909 | 2020-05-18 00:40:27 | MASTER-OAFA | (08h 30m 40.46s , +16d 04m 48.8s) | C | 60 | 18.6 | 21000 | 2020-05-18 00:41:58 | MASTER-OAFA | (08h 38m 59.65s , +16d 03m 22.8s) | C | 60 | 18.8 | 21091 | 2020-05-18 00:43:29 | MASTER-OAFA | (08h 47m 21.74s , +16d 05m 10.3s) | C | 60 | 18.7 | 21182 | 2020-05-18 00:45:00 | MASTER-OAFA | (08h 55m 36.26s , +16d 04m 36.7s) | C | 60 | 18.5 | 21273 | 2020-05-18 00:46:31 | MASTER-OAFA | (09h 07m 53.48s , +20d 05m 50.4s) | C | 60 | 18.7 | 21364 | 2020-05-18 00:48:02 | MASTER-OAFA | (09h 01m 26.12s , +18d 04m 41.5s) | C | 60 | 18.8 | 21456 | 2020-05-18 00:49:33 | MASTER-OAFA | (08h 38m 55.92s , +16d 03m 09.9s) | C | 60 | 18.8 | 21547 | 2020-05-18 00:51:05 | MASTER-OAFA | (08h 55m 40.96s , +16d 03m 52.7s) | C | 60 | 18.6 | 21729 | 2020-05-18 00:54:07 | MASTER-OAFA | (08h 57m 17.88s , +24d 04m 31.6s) | C | 60 | 18.4 | 21820 | 2020-05-18 00:55:38 | MASTER-OAFA | (09h 06m 44.52s , +22d 04m 45.8s) | C | 60 | 18.7 | 22093 | 2020-05-18 01:00:11 | MASTER-OAFA | (08h 22m 21.51s , +16d 02m 51.2s) | C | 60 | 17.6 | 22184 | 2020-05-18 01:01:42 | MASTER-OAFA | (08h 57m 23.89s , +24d 05m 20.7s) | C | 60 | 18.3 | 22275 | 2020-05-18 01:03:13 | MASTER-OAFA | (09h 06m 04.63s , +24d 04m 43.4s) | C | 60 | 18.7 | 22366 | 2020-05-18 01:04:44 | MASTER-OAFA | (09h 06m 39.78s , +22d 05m 45.4s) | C | 60 | 18.6 | 22731 | 2020-05-18 01:10:49 | MASTER-OAFA | (08h 22m 21.85s , +16d 04m 19.2s) | C | 60 | 17.2 | 22822 | 2020-05-18 01:12:20 | MASTER-OAFA | (09h 06m 07.41s , +24d 04m 01.9s) | C | 60 | 18.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200516.63: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27747, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) was pointed to the Swift GRB200516.63 (trigger No 972614,18h 18m 12.00s , -16d 11m 34.8s, R=0.05) errorbox 19 sec after notice time and 38 sec after trigger time at 2020-05-16 15:04:06 UT, with upper limit up to 14.6 mag. The observations began at zenith distance = 78 deg. The sun altitude is -20.6 deg. The galactic latitude b = -1 deg., longitude l = 15 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1357751 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 43 | MASTER-Amur | P/ | 10 | 13.2 | 70 | MASTER-Amur | P/ | 10 | 13.6 | 106 | MASTER-Amur | P/ | 20 | 13.2 | 144 | MASTER-Amur | P/ | 30 | 14.5 | 188 | MASTER-Amur | P/ | 30 | 14.6 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200512.: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27734, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Baksan Neutrino Observatory Alert 200512. (trigger No 1639958375,03h 35m 12.00s , -72d 30m 00.0s, R=3) errorbox 1 days 74674 sec after notice time and 1 days 75004 sec after trigger time at 2020-05-13 20:49:39 UT, with upper limit up to 18.9 mag. The observations began at zenith distance = 72 deg. The sun altitude is -62.8 deg. The galactic latitude b = -40 deg., longitude l = 288 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1354430 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 161434 | 2020-05-13 20:49:39 | MASTER-SAAO | (03h 44m 19.55s , -74d 03m 43.8s) | C | 60 | 18.6 | 161434 | 2020-05-13 20:49:39 | MASTER-SAAO | (03h 52m 17.31s , -74d 04m 16.7s) | C | 60 | 18.9 | 161933 | 2020-05-13 20:57:58 | MASTER-SAAO | (03h 44m 16.84s , -74d 02m 42.1s) | C | 60 | 18.5 | 161933 | 2020-05-13 20:57:58 | MASTER-SAAO | (03h 52m 14.24s , -74d 03m 16.0s) | C | 60 | 18.9 | 162013 | 2020-05-13 20:59:18 | MASTER-SAAO | (04h 11m 48.61s , -72d 04m 05.5s) | C | 60 | 18.7 | 162013 | 2020-05-13 20:59:18 | MASTER-SAAO | (04h 18m 54.31s , -72d 04m 37.0s) | C | 60 | 18.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200512.31: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27722, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the IceCube Alert 200512.31 (trigger No 58268464,19h 40m 43.20s , +15d 47m 24.0s, R=1.63) errorbox 36576 sec after notice time and 36627 sec after trigger time at 2020-05-12 17:41:54 UT, with upper limit up to 12.3 mag. Observations started at twilight. The observations began at zenith distance = 43 deg. The sun altitude is -15.5 deg. The galactic latitude b = -4 deg., longitude l = 53 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1354761 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 36657 | 2020-05-12 17:41:54 | MASTER-Amur | (19h 46m 28.62s , +16d 07m 15.7s) | C | 60 | 12.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200511.76: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27717, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Baksan Neutrino Observatory Alert 200511.76 (trigger No 1639937477,07h 39m 12.00s , -34d 18m 00.0s, R=3) errorbox 8087 sec after notice time and 8634 sec after trigger time at 2020-05-11 20:35:11 UT, with upper limit up to 16.7 mag. Observations started at twilight. The observations began at zenith distance = 73 deg. The sun altitude is -11.3 deg. The galactic latitude b = -6 deg., longitude l = 249 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1354319 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 8664 | 2020-05-11 20:35:11 | MASTER-IAC | (07h 55m 19.93s , -31d 57m 15.6s) | C | 60 | 16.3 | 8664 | 2020-05-11 20:35:11 | MASTER-IAC | (07h 45m 48.59s , -31d 53m 07.8s) | C | 60 | 16.0 | 8780 | 2020-05-11 20:37:07 | MASTER-IAC | (07h 45m 31.11s , -29d 58m 42.0s) | C | 60 | 16.4 | 8780 | 2020-05-11 20:37:07 | MASTER-IAC | (07h 36m 11.25s , -29d 54m 35.1s) | C | 60 | 15.8 | 8898 | 2020-05-11 20:39:05 | MASTER-IAC | (07h 56m 31.66s , -33d 54m 57.6s) | C | 60 | 15.6 | 9020 | 2020-05-11 20:41:06 | MASTER-IAC | (07h 55m 25.63s , -31d 59m 01.0s) | C | 60 | 16.2 | 9020 | 2020-05-11 20:41:06 | MASTER-IAC | (07h 45m 53.83s , -31d 54m 56.0s) | C | 60 | 15.7 | 9144 | 2020-05-11 20:43:10 | MASTER-IAC | (07h 45m 27.71s , -29d 57m 53.4s) | C | 60 | 16.7 | 9144 | 2020-05-11 20:43:10 | MASTER-IAC | (07h 36m 07.55s , -29d 53m 49.3s) | C | 60 | 16.0 | 9264 | 2020-05-11 20:45:11 | MASTER-IAC | (07h 56m 34.27s , -33d 55m 03.8s) | C | 60 | 16.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200509A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27706, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB 200509A (E. Troja et al., GCN 27701) errorbox 42927 sec after notice time and 42979 sec after trigger time at 2020-05-09 18:43:37 UT, with upper limit up to 19.1 mag. The observations began at zenith distance = 56 deg. The sun altitude is -36.1 deg. The galactic latitude b = 10 deg., longitude l = 224 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1352906 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment
_____|_____|_____|_____ 43070 | MASTER-SAAO | C | 180 | 19.1 | 43070 | MASTER-SAAO | C | 180 | 19.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200506.73: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27695, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) was pointed to the Swift GRB200506.73 (trigger No 969823,18h 17m 59.52s , -16d 09m 07.2s, R=0.05) errorbox 14 sec after notice time and 29 sec after trigger time at 2020-05-06 17:37:19 UT, with upper limit up to 14.1 mag. The observations began at zenith distance = 68 deg. The sun altitude is -17.4 deg. The galactic latitude b = -1 deg., longitude l = 15 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1351465 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment
_____|_____|_____|_____ 34 | MASTER-Amur | P/ | 10 | 13.1 | 58 | MASTER-Amur | P/ | 10 | 13.1 | 90 | MASTER-Amur | P/ | 20 | 13.5 | 123 | MASTER-Amur | P/ | 20 | 13.5 | 162 | MASTER-Amur | P/ | 30 | 13.8 | 210 | MASTER-Amur | P/ | 40 | 13.8 | 266 | MASTER-Amur | P/ | 50 | 14.1 | The observation and reduction will continue. The message may be cited.

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Sergienko, Y. P., Balanutsa, P., Lipunov, V., Podesta, R., Podesta, F., Francile, C., Levato, H., Mallamacci, C., Buckley, D. A. H., et al. MASTER: new OT with ampl>5.7m and fast variability // The Astronomer's Telegram, 2020, V. 13747, p. 1
AT2020kot During Fermi trigger 611605955 inspection by MASTER (Lipunov et al. GCN #27762 , https://master.sai.msu.ru/site/master2/observ.php?id=1360824) MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 19h 51m 17.88s +07d 59m 20.4s on 2020-05-20.04965 UT. The OT unfiltered magnitude is 16.3m at (mlim=19.1, MASTER-SAAO), also m_OT=16.4 at 2020-05-20 02:19:58UT (MASTER-IAC), and marginally seen with m We reobserved it at MASTER-Kislovodsk at 2020-05-20 22:00:56UT, that excluded OT from candidates to GRB (36%)counterpart .But It has fast decay now (MASTER is telescope): date_UT unfiltered_m_OT 2020-05-20 22:00:56 16.5 2020-05-20 22:00:56 16.5 2020-05-20 22:04:17 16.9 2020-05-20 22:04:17 16.9 We have reference image on 2016-08-11.79161 UT with unfiltered mlim= 19.1m.

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Gress, O., Balanutsa, P., Lipunov, V., Podesta, R., Podesta, F., Francile, C., Levato, H., Buckley, D. A. H., Zhirkov, K., et al. MASTER: optical transients with ampl>4.2m and 3.6m // The Astronomer's Telegram, 2020, V. 13746, p. 1
MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 19h 42m 30.94s +07d 25m 37.1s on 2020-05-20.02309 UT. The OT unfiltered magnitude is 17.8m(mlim=18.7).

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Sergienko, Y. P., Lipunov, V., Pogrosheva, T., Podesta, R., Podesta, F., Francile, C., Levato, H., Buckley, D. A. H., Zhirkov, K., et al. MASTER: optical transients // The Astronomer's Telegram, 2020, V. 13740, p. 1
MASTER-OAFA auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 17h 00m 18.97s -60d 38m 15.3s on 2020-05-17.26181 UT. The OT unfiltered magnitude is 16.3m(mlim=18.3).

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Pogrosheva, T., Lipunov, V., Buckley, D. A. H., Zhirkov, K., Kornilov, V., Gorbovskoy, E., Chasovnikov, A., Gress, O., Tiurina, N., et al. MASTER: outburst with ampl>6m // The Astronomer's Telegram, 2020, V. 13736, p. 1
AT2020jzj MASTER-IAC auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 15h 07m 50.83s -10d 58m 30.8s on 2020-05-14.04251 UT. The OT unfiltered magnitude is 16.5m (mlim=17.7).

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Gress, O., Pogrosheva, T., Lipunov, V., Buckley, D. A. H., Zhirkov, K., Kornilov, V., Gorbovskoy, E., Chasovnikov, A., Tiurina, N., et al. MASTER: new OT, ampl>4.7m // The Astronomer's Telegram, 2020, V. 13734, p. 1
AT2020jvy MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 13h 04m 46.92s -51d 00m 49.5s on 2020-05-09.88362 UT. The OT unfiltered magnitude is 17.3m (mlim=19.3).

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Pogrosheva, T., Lipunov, V., Buckley, D. A. H., Zhirkov, K., Kornilov, V., Gress, O., Gorbovskoy, E., Chasovnikov, A., Tiurina, N., et al. MASTER: outburst detection with ampl>6.5m // The Astronomer's Telegram, 2020, V. 13724, p. 1

2020jiy MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 16h 08m 26.67s -70d 06m 19.3s on 2020-05-08.95341 UT. The OT unfiltered magnitude is 15.5m.

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Gress, O., Lipunov, V., Buckley, D. A. H., Zhirkov, K., Kornilov, V., Gorbovskoy, E., Chasovnikov, A., Tiurina, N., Balanutsa, P., et al. MASTER: 4FGL_J0526.2-483 blazar flare // The Astronomer's Telegram, 2020, V. 13722, p. 1
MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 05h 26m 16.65s -48d 30m 36.8s on 2020-05-07.71020 UT. The OT unfiltered magnitude is 16.0m(mlim=18.3).

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Pogrosheva, T., Lipunov, V., Buckley, D. A. H., Zhirkov, K., Kornilov, V., Gress, O., Gorbovskoy, E., Chasovnikov, A., Tiurina, N., et al. MASTER: young bright PSN in PGC000312 // The Astronomer's Telegram, 2020, V. 13701, p. 1
AT2020izc MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 00h 05m 02.49s -07d 06m 02.6s on 2020-05-02.15551 UT. The OT unfiltered magnitude is 17.0m (mlim=19.1).

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Jordana-Mitjans, N., Mundell, C. G., Kobayashi, S., Smith, R. J., Guidorzi, C., Steele, I., Shrestha, M., Gomboc, A., Marongiu, M., et al. VizieR Online Data Catalog: GRB 190114C light curves (Jordana-Mitjans+, 2020) // VizieR Online Data Catalog, 2020, V. p. J/ApJ/892/97
We report the early-time optical observations of the afterglow of the first TeV- detected gamma-ray burst (GRB), GRB 190114C, using the MASTER Global Robotic Net (with the Very Wide-Field camera and MASTER II) and the Liverpool Telescope (with the RINGO3 imager-polarimeter and the Optical Wide Field Camera). GRB 190114C was triggered by the Swift Burst Alert Telescope on 2019 January 14 at T0=20:57:03 UT with coordinates RA(J2000)=03:38:1.63, Dec(J2000)=-26:56:48.1 (Gropp et al., 2019GCN.23688....1G). The spectroscopic redshift of GRB 190114C is 0.4245+/-0.0005 (Castro-Tirado et al.,2019GCN.23708....1C).

The follow-up observations began 31s after Swift trigger and continued until ~7000 s post-burst. The multiwavelength light curves reveal a chromatic break at ~400-500s; the initial temporal decay is of 1.669+/-0.013 and flattens to ~1 after the break. The tabulated data belongs to the electronic version of Table 1 from the journal publication. This table includes the bandpass name with the instrument used, the mean observing time after Swift trigger, the length of the observing window, the magnitudes and the flux density.

The MASTER Global Robotic Net detected the GRB 190114C afterglow during the first 31-48s after Swift trigger with the Very Wide-Field (VWF) camera in a white band --- this data is labelled as r_{MASTERVWF}SAAO and r_{MASTERVWF}IAC in the table. The 0.4-m MASTER II observations started 46s post-burst in a white band and lasted until ~2300s post-burst --- this data is labelled as r_{MASTERII}SAAO and r_{MASTERII}IAC. Two MASTER sites observed GRB 190114C at the same time: the South African Astronomical Observatory (SAAO) and the Instituto de Astrofisica de Canarias (IAC). r_{MASTERVWF}SAAO, r_{MASTERVWF}IAC, r_{MASTERII}SAAO, r_{MASTERII}IAC white-band observations are standardized in an r-equivalent band.

The observations from the 2-m Liverpool Telescope started 201s after the burst with RINGO3 instrument and with the BV,R,I bands simultaneously --- this data is labelled as BV_{RINGO3, R}RINGO3, I_RINGO3 in the table. Observations continued until ~7000s post-burst. BV_{RINGO3, R}RINGO3, I_RINGO3 magnitudes and flux density are standardized in RINGO3 photometric system. The BV,R,I RINGO3 bandpasses have the following mean photonic wavelengths: 5385Å, 7030Å, 8245Å, respectively, and have a spectral coverage of 2232Å, 1130Å, 835Å, respectively (quoting the full-widths-at-half-maximum). The Optical Wide Field Camera (IO:O) also observed GRB 190114C with the r filter at ~2200s post-burst --- this data is labelled as r_IOO.

The tabulated data includes the bandpass name with the instrument used, the mean observing time corrected by T0 (the Swift trigger time), the length of the observing window and the GRB magnitudes and flux density with their uncertainties. The magnitudes and the flux density are corrected by atmospheric and Galactic extinction (reddening of E(B-V)=0.0124+/-0.0005, Schlegel et al. 1998ApJ...500..525S) but not for the host galactic extinction (E(B-V)=0.51+/-0.04).

(1 data file).

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Lipunov, V., Zhirkov, K., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-29 // Transient Name Server Discovery Report, 2020, V. 2020-1170, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-26 // Transient Name Server Discovery Report, 2020, V. 2020-1135, p. 1

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Balanutsa, P., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-26 // Transient Name Server Discovery Report, 2020, V. 2020-1134, p. 1

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Balanutsa, P., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-04-26 // Transient Name Server Discovery Report, 2020, V. 2020-1133, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-24 // Transient Name Server Discovery Report, 2020, V. 2020-1117, p. 1

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Lipunov, V., Svinkin, D., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-22 // Transient Name Server Discovery Report, 2020, V. 2020-1098, p. 1

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Balanutsa, P., Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., et al. MASTER Transient Discovery Report for 2020-04-22 // Transient Name Server Discovery Report, 2020, V. 2020-1097, p. 1

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Lipunov, V., Zhirkov, K., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-21 // Transient Name Server Discovery Report, 2020, V. 2020-1086, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-21 // Transient Name Server Discovery Report, 2020, V. 2020-1085, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-04-19 // Transient Name Server Discovery Report, 2020, V. 2020-1071, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-04-17 // Transient Name Server Discovery Report, 2020, V. 2020-1057, p. 1

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Shumkov, V., Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., et al. MASTER Transient Discovery Report for 2020-04-16 // Transient Name Server Discovery Report, 2020, V. 2020-1047, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-04-16 // Transient Name Server Discovery Report, 2020, V. 2020-1046, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-16 // Transient Name Server Discovery Report, 2020, V. 2020-1045, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-15 // Transient Name Server Discovery Report, 2020, V. 2020-1036, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-04-12 // Transient Name Server Discovery Report, 2020, V. 2020-1020, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-08 // Transient Name Server Discovery Report, 2020, V. 2020-995, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-05 // Transient Name Server Discovery Report, 2020, V. 2020-974, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-04 // Transient Name Server Discovery Report, 2020, V. 2020-964, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-02 // Transient Name Server Discovery Report, 2020, V. 2020-939, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-04-01 // Transient Name Server Discovery Report, 2020, V. 2020-931, p. 1

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Lipunov, V., Zhirkov, K., Kornilov, V., Gorbovskoy, E., Gress, O., Tiurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., et al. SGR 1935+2154: MASTER optical observations // GRB Coordinates Network, 2020, V. 27670, p. 1
MASTER Global Robotic Net (http://observ.pereplet.ru,Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) started SGR 1935+2154 (Barthelmy et al., GCN 27657, 19h 34m 56s +21d 53' 43", er.b. 3') error-box observations at 2020-04-27 21:57:38UT (3.5h after Swift trigger). MASTER-Tavrida observed it since 2020-04-27 21:57:38UT to 2020-04-28 00:32:48UT with unfiltered mlim=20.0m (observations began at altitute 26deg, the sun altitude was -31deg.) MASTER-SAAO observed error-box since 2020-04-28 00:34:53 (target altitude 18deg, Sun alt.-57deg) to 2020-04-28 04:03:37UT with unfiltered mlim~19-20.2 MASTER-IAC observed error-box 1.5h since 2020-04-28 04:12:42 (target altitude = 66deg, sun alt.-23deg) with unfiltered mlim=19.7-20. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/event.php?id=1345392 The next alert of this SGR was from Integral (trigger time 2020-04-28 14:34:24 UT, Mereghetti et al. GCN

27668) MASTER-Amur and MASTER-Tunka observed it automatically started at 14:34:46UT (22s after trigger time) and at 2020-04-28 14:40:28 UT, Lipunov et al. GCN 27666. Real time updated cover map and possible OT will be available at: https://master.sai.msu.ru/site/master2/observ.php?id=1345998

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Integral GRB200428.61: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27666, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) was pointed to the Integral GRB200428.61 (trigger No 8611,19h 34m 58.38s , +21d 53m 53.7s, R=0.0458333) errorbox 357 sec after notice time and 365 sec after trigger time at 2020-04-28 14:40:28 UT, with upper limit up to 14.7 mag. The observations began at zenith distance = 87 deg. The sun altitude is -17.5 deg. The galactic latitude b = 0 deg., longitude l = 58 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1345998 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 400 | MASTER-Tunka | P| | 70 | 12.5 | 500 | MASTER-Tunka | P| | 90 | 12.6 | 620 | MASTER-Tunka | P| | 110 | 12.3 | 1333 | MASTER-Tunka | P| | 180 | 12.9 | 1533 | MASTER-Tunka | P| | 180 | 13.0 | 1732 | MASTER-Tunka | P| | 180 | 14.1 | 1932 | MASTER-Tunka | P| | 180 | 14.4 | 2132 | MASTER-Tunka | P| | 180 | 14.5 | 2332 | MASTER-Tunka | P| | 180 | 14.7 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200425.98: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27649, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) was pointed to the IceCube Alert 200425.98 (trigger No 16038252,06h 42m 20.64s , +52d 38m 52.8s, R=0.95) errorbox 12 sec after notice time and 1171 sec after trigger time at 2020-04-25 23:46:17 UT, with upper limit up to 18.3 mag. The observations began at zenith distance = 81 deg. The sun altitude is -23.0 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) was pointed to the IceCube Alert 200425.98 errorbox 26 sec after notice time and 1185 sec after trigger time at 2020-04-25 23:46:32 UT, with upper limit up to 18.5 mag. The observations began at zenith distance = 71 deg. The sun altitude is -44.8 deg. The galactic latitude b = 20 deg., longitude l = 163 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1344471 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 1261 | 2020-04-25 23:46:17 | MASTER-Kislovodsk | (06h 42m 22.49s , +52d 57m 03.7s) | P| | 180 | 17.0 | 1261 | 2020-04-25 23:46:17 | MASTER-Kislovodsk | (06h 41m 56.14s , +52d 28m 56.6s) | P- | 180 | 16.9 | 1276 | 2020-04-25 23:46:32 | MASTER-IAC | (06h 40m 51.60s , +52d 37m 09.8s) | P| | 180 | 17.7 | 1456 | 2020-04-25 23:46:32 | MASTER-IAC | (06h 40m 51.60s , +52d 37m 09.8s) | P| | 540 | 18.5 | Coadd 1276 | 2020-04-25 23:46:32 | MASTER-IAC | (06h 39m 42.85s , +52d 41m 34.2s) | P- | 180 | 17.5 | 1456 | 2020-04-25 23:46:32 | MASTER-IAC | (06h 39m 42.85s , +52d 41m 34.2s) | P- | 540 | 18.4 | Coadd 1462 | 2020-04-25 23:49:38 | MASTER-Kislovodsk | (06h 42m 19.93s , +52d 58m 21.8s) | P| | 180 | 17.5 | 1462 | 2020-04-25 23:49:38 | MASTER-Kislovodsk | (06h 41m 53.58s , +52d 30m 15.3s) | P- | 180 | 17.5 | 1642 | 2020-04-25 23:49:38 | MASTER-Kislovodsk | (06h 41m 53.57s , +52d 30m 15.3s) | P- | 540 | 18.3 | Coadd 1512 | 2020-04-25 23:50:28 | MASTER-IAC | (06h 40m 57.74s , +52d 37m 04.9s) | P| | 180 | 18.0 | 1512 | 2020-04-25 23:50:28 | MASTER-IAC | (06h 39m 48.90s , +52d 41m 29.6s) | P- | 180 | 17.7 | 1663 | 2020-04-25 23:52:59 | MASTER-Kislovodsk | (06h 42m 20.41s , +52d 56m 42.2s) | P| | 180 | 17.6 | 1663 | 2020-04-25 23:52:59 | MASTER-Kislovodsk | (06h 41m 53.97s , +52d 28m 35.9s) | P- | 180 | 17.5 | 1754 | 2020-04-25 23:54:30 | MASTER-IAC | (06h 40m 53.95s , +52d 38m 50.7s) | P| | 180 | 18.1 | 1754 | 2020-04-25 23:54:30 | MASTER-IAC | (06h 39m 45.11s , +52d 43m 15.2s) | P- | 180 | 17.9 | 1864 | 2020-04-25 23:56:20 | MASTER-Kislovodsk | (06h 42m 23.82s , +52d 58m 06.8s) | P| | 180 | 17.7 | 1864 | 2020-04-25 23:56:20 | MASTER-Kislovodsk | (06h 41m 57.21s , +52d 29m 60.0s) | P- | 180 | 17.7 | 1995 | 2020-04-25 23:58:30 | MASTER-IAC | (06h 40m 54.07s , +52d 37m 27.0s) | P| | 180 | 18.1 | 1995 | 2020-04-25 23:58:30 | MASTER-IAC | (06h 39m 45.15s , +52d 41m 51.0s) | P- | 180 | 17.9 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200425A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27645, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB 200425A (M. G. Bernardini et al., GCN 27638) errorbox 60241 sec after notice time and 60296 sec after trigger time at 2020-04-25 17:01:17 UT, with upper limit up to 19.7 mag. Observations started at twilight. The observations began at zenith distance = 45 deg. The sun altitude is -12.2 deg. The galactic latitude b = -21 deg., longitude l = 218 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1343952 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 60386 | MASTER-SAAO | C | 180 | 19.2 | 60434 | MASTER-SAAO | C | 180 | 19.2 | 60666 | MASTER-SAAO | C | 180 | 19.7 | 60713 | MASTER-SAAO | C | 180 | 19.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200423A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27633, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200423A (Fermi GBM team, GCN 27632) errorbox 14126 sec after notice time and 14153 sec after trigger time at 2020-04-23 17:50:04 UT, with upper limit up to 18.4 mag. Observations started at twilight. The observations began at zenith distance = 77 deg. The sun altitude is -12.8 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB 200423A errorbox 14486 sec after notice time and 14513 sec after trigger time at 2020-04-23 17:56:04 UT, with upper limit up to 18.8 mag. The observations began at zenith distance = 73 deg. The sun altitude is -18.9 deg. The galactic latitude b = 11 deg., longitude l = 106 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1343227 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 14183 | 2020-04-23 17:50:04 | MASTER-Tavrida | (21h 00m 33.51s , +57d 54m 08.0s) | C | 60 | 16.5 | 14279 | 2020-04-23 17:51:40 | MASTER-Tavrida | (20h 39m 31.20s , +59d 48m 34.3s) | C | 60 | 17.7 | 14375 | 2020-04-23 17:53:16 | MASTER-Tavrida | (21h 12m 15.78s , +59d 53m 28.8s) | C | 60 | 17.1 | 14471 | 2020-04-23 17:54:51 | MASTER-Tavrida | (20h 51m 13.97s , +55d 48m 23.9s) | C | 60 | 16.8 | 14543 | 2020-04-23 17:56:04 | MASTER-Kislovodsk | (21h 08m 47.02s , +61d 29m 40.4s) | C | 60 | 18.7 | 14543 | 2020-04-23 17:56:04 | MASTER-Kislovodsk | (20h 51m 50.82s , +61d 57m 51.7s) | C | 60 | 18.4 | 14566 | 2020-04-23 17:56:27 | MASTER-Tavrida | (21h 00m 43.09s , +57d 55m 11.7s) | C | 60 | 16.0 | 14624 | 2020-04-23 17:57:25 | MASTER-Kislovodsk | (20h 44m 47.52s , +57d 31m 09.8s) | C | 60 | 18.6 | 14624 | 2020-04-23 17:57:25 | MASTER-Kislovodsk | (20h 29m 47.74s , +57d 59m 33.6s) | C | 60 | 18.4 | 14660 | 2020-04-23 17:58:00 | MASTER-Tavrida | (21h 15m 03.18s , +57d 45m 51.8s) | C | 60 | 16.4 | 14704 | 2020-04-23 17:58:45 | MASTER-Kislovodsk | (20h 34m 54.08s , +61d 30m 08.9s) | C | 60 | 18.7 | 14704 | 2020-04-23 17:58:45 | MASTER-Kislovodsk | (20h 17m 57.28s , +61d 58m 36.6s) | C | 60 | 18.4 | 14754 | 2020-04-23 17:59:35 | MASTER-Tavrida | (20h 40m 24.67s , +59d 52m 12.7s) | C | 60 | 17.4 | 14847 | 2020-04-23 18:01:08 | MASTER-Tavrida | (20h 55m 27.31s , +59d 48m 12.3s) | C | 60 | 18.1 | 14865 | 2020-04-23 18:01:26 | MASTER-Kislovodsk | (21h 08m 53.60s , +61d 29m 01.2s) | C | 60 | 18.8 | 14865 | 2020-04-23 18:01:26 | MASTER-Kislovodsk | (20h 51m 57.73s , +61d 57m 15.2s) | C | 60 | 18.5 | 14943 | 2020-04-23 18:02:44 | MASTER-Tavrida | (21h 12m 15.51s , +59d 51m 56.1s) | C | 60 | 17.4 | 14946 | 2020-04-23 18:02:46 | MASTER-Kislovodsk | (20h 44m 51.25s , +57d 30m 44.6s) | C | 60 | 18.6 | 14946 | 2020-04-23 18:02:46 | MASTER-Kislovodsk | (20h 29m 51.48s , +57d 59m 09.5s) | C | 60 | 18.4 | 15026 | 2020-04-23 18:04:07 | MASTER-Kislovodsk | (20h 34m 51.73s , +61d 29m 34.6s) | C | 60 | 18.7 | 15026 | 2020-04-23 18:04:07 | MASTER-Kislovodsk | (20h 17m 55.17s , +61d 58m 03.1s) | C | 60 | 18.5 | 15038 | 2020-04-23 18:04:18 | MASTER-Tavrida | (21h 27m 26.20s , +59d 47m 24.2s) | C | 60 | 17.3 | 15131 | 2020-04-23 18:05:52 | MASTER-Tavrida | (20h 51m 44.20s , +55d 56m 42.9s) | C | 60 | 16.2 | 15225 | 2020-04-23 18:07:26 | MASTER-Tavrida | (21h 05m 30.10s , +55d 48m 02.3s) | C | 60 | 17.0 | 15268 | 2020-04-23 18:08:09 | MASTER-Kislovodsk | (21h 33m 57.09s , +55d 30m 40.5s) | C | 60 | 18.0 | 15268 | 2020-04-23 18:08:09 | MASTER-Kislovodsk | (21h 19m 46.46s , +55d 58m 53.5s) | C | 60 | 17.8 | 15320 | 2020-04-23 18:09:01 | MASTER-Tavrida | (21h 15m 47.49s , +57d 54m 58.1s) | C | 60 | 15.9 | 15348 | 2020-04-23 18:09:29 | MASTER-Kislovodsk | (20h 49m 33.47s , +63d 29m 56.2s) | C | 60 | 18.7 | 15349 | 2020-04-23 18:09:29 | MASTER-Kislovodsk | (20h 31m 24.69s , +63d 58m 23.1s) | C | 60 | 18.7 | 15416 | 2020-04-23 18:10:37 | MASTER-Tavrida | (20h 55m 24.65s , +59d 46m 16.7s) | C | 60 | 18.2 | 15432 | 2020-04-23

18:10:53 | MASTER-Kislovodsk | (21h 45m 03.93s , +57d 28m 33.3s) | C | 60 | 17.1 | 15432 | 2020-04-23 18:10:53 | MASTER-Kislovodsk | (21h 30m 06.44s , +57d 56m 37.2s) | C | 60 | 16.9 | 15511 | 2020-04-23 18:12:12 | MASTER-Tavrida | (21h 28m 16.02s , +59d 51m 39.5s) | C | 60 | 17.5 | 15593 | 2020-04-23 18:13:34 | MASTER-Kislovodsk | (21h 34m 00.76s , +55d 30m 36.1s) | C | 60 | 18.0 | 15593 | 2020-04-23 18:13:34 | MASTER-Kislovodsk | (21h 19m 50.10s , +55d 58m 50.7s) | C | 60 | 17.9 | 15608 | 2020-04-23 18:13:49 | MASTER-Tavrida | (21h 05m 33.37s , +55d 47m 46.8s) | C | 60 | 17.1 | 15674 | 2020-04-23 18:14:54 | MASTER-Kislovodsk | (20h 49m 31.49s , +63d 29m 15.1s) | C | 60 | 18.8 | 15674 | 2020-04-23 18:14:54 | MASTER-Kislovodsk | (20h 31m 23.11s , +63d 57m 42.5s) | C | 60 | 18.6 | 15703 | 2020-04-23 18:15:24 | MASTER-Tavrida | (21h 09m 09.89s , +63d 47m 22.9s) | C | 60 | 18.2 | 15769 | 2020-04-23 18:16:29 | MASTER-Kislovodsk | (21h 45m 12.04s , +57d 30m 08.3s) | C | 60 | 18.1 | 15769 | 2020-04-23 18:16:29 | MASTER-Kislovodsk | (21h 30m 13.62s , +57d 58m 13.2s) | C | 60 | 18.0 | 15797 | 2020-04-23 18:16:57 | MASTER-Tavrida | (21h 25m 51.75s , +61d 47m 37.1s) | C | 60 | 17.8 | 15888 | 2020-04-23 18:18:29 | MASTER-Tavrida | (20h 08m 25.02s , +59d 52m 16.1s) | C | 60 | 18.3 | 16076 | 2020-04-23 18:21:37 | MASTER-Tavrida | (21h 09m 06.49s , +63d 46m 26.7s) | C | 60 | 18.3 | 16169 | 2020-04-23 18:23:10 | MASTER-Tavrida | (21h 25m 57.06s , +63d 47m 26.0s) | C | 60 | 18.2 | 16243 | 2020-04-23 18:24:24 | MASTER-Kislovodsk | (21h 08m 02.49s , +65d 29m 21.2s) | C | 60 | 18.3 | 16243 | 2020-04-23 18:24:24 | MASTER-Kislovodsk | (20h 48m 22.91s , +65d 57m 24.7s) | C | 60 | 17.9 | 16264 | 2020-04-23 18:24:45 | MASTER-Tavrida | (21h 26m 58.40s , +61d 49m 39.4s) | C | 60 | 17.7 | 16358 | 2020-04-23 18:26:19 | MASTER-Tavrida | (21h 42m 50.38s , +61d 47m 18.6s) | C | 60 | 17.7 | 16452 | 2020-04-23 18:27:53 | MASTER-Tavrida | (20h 08m 31.66s , +59d 53m 07.6s) | C | 60 | 18.4 | 16533 | 2020-04-23 18:29:14 | MASTER-Tavrida | (20h 24m 24.58s , +59d 51m 52.2s) | C | 60 | 18.4 | 16721 | 2020-04-23 18:32:21 | MASTER-Tavrida | (21h 25m 57.65s , +53d 58m 06.1s) | C | 60 | 13.3 | 16815 | 2020-04-23 18:33:55 | MASTER-Tavrida | (21h 25m 54.35s , +63d 46m 03.5s) | C | 60 | 18.1 | 16910 | 2020-04-23 18:35:31 | MASTER-Tavrida | (21h 44m 03.20s , +61d 50m 05.5s) | C | 60 | 17.5 | 16991 | 2020-04-23 18:36:52 | MASTER-Tavrida | (20h 24m 23.55s , +59d 52m 49.3s) | C | 60 | 18.4 | 17085 | 2020-04-23 18:38:26 | MASTER-Tavrida | (21h 25m 32.42s , +53d 47m 42.3s) | C | 60 | 16.1 | 17350 | 2020-04-23 18:42:51 | MASTER-Tavrida | (21h 43m 20.72s , +59d 46m 57.6s) | C | 60 | 17.7 | 17445 | 2020-04-23 18:44:26 | MASTER-Tavrida | (21h 45m 28.36s , +63d 47m 01.1s) | C | 60 | 17.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Svinkin, D., Gorbovskoy, E., Kornilov, V., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. GRB 200422A: MASTER optical observations // GRB Coordinates Network, 2020, V. 27628, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of long bright IPN GRB200422A (Hurley et al., GCN 27626, Ttrig=3030-04-22 07:22:16) at 2020-04-22 19:45:16UT with mlim~20.5. The observations began at zenith distance = 59 deg. The sun altitude was -45 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11505

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200421A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27618, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200421A (Fermi GBM team, GCN 27616) errorbox 48 sec after notice time and 75 sec after trigger time at 2020-04-21 20:47:15 UT, with upper limit up to 20.4 mag. The observations began at zenith distance = 30 deg. The sun altitude is -32.5 deg.
MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 200421A errorbox 548 sec after notice time and 575 sec after trigger time at 2020-04-21 20:55:35 UT, with upper limit up to 19.5 mag. The observations began at zenith distance = 37 deg. The sun altitude is -18.3 deg. The galactic latitude b = 49 deg., longitude l = 142 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1342104 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 86 | 2020-04-21 20:47:15 | MASTER-Tavrida | (10h 27m 01.45s , +63d 21m 13.8s) | C | 20 | 18.5 | 111 | 2020-04-21 20:47:15 | MASTER-Tavrida | (10h 27m 01.45s , +63d 21m 13.8s) | C | 70 | 19.4 | Coadd 126 | 2020-04-21 20:47:55 | MASTER-Tavrida | (10h 27m 05.58s , +63d 22m 60.0s) | C | 20 | 18.5 | 172 | 2020-04-21 20:48:36 | MASTER-Tavrida | (10h 26m 57.61s , +63d 22m 04.3s) | C | 30 | 18.9 | 227 | 2020-04-21 20:49:26 | MASTER-Tavrida | (10h 26m 58.60s , +63d 23m 04.7s) | C | 40 | 19.1 | 287 | 2020-04-21 20:49:26 | MASTER-Tavrida | (10h 26m 58.61s , +63d 23m 04.8s) | C | 160 | 20.1 | Coadd 292 | 2020-04-21 20:50:27 | MASTER-Tavrida | (10h 27m 03.30s , +63d 22m 04.8s) | C | 50 | 19.3 | 372 | 2020-04-21 20:51:37 | MASTER-Tavrida | (10h 26m 57.52s , +63d 21m 04.7s) | C | 70 | 19.4 | 458 | 2020-04-21 20:53:07 | MASTER-Tavrida | (10h 20m 09.48s , +64d 11m 08.1s) | C | 60 | 19.4 | 538 | 2020-04-21 20:54:28 | MASTER-Tavrida | (10h 29m 11.17s , +66d 11m 39.8s) | C | 60 | 19.4 | 636 | 2020-04-21 20:55:35 | MASTER-IAC | (10h 55m 15.49s , +63d 58m 18.2s) | P| | 120 | 18.7 | 796 | 2020-04-21 20:55:35 | MASTER-IAC | (10h 55m 15.49s , +63d 58m 18.2s) | P| | 440 | 19.5 | Coadd 636 | 2020-04-21 20:55:35 | MASTER-IAC | (10h 53m 42.39s , +64d 02m 08.5s) | P- | 120 | 18.6 | 796 | 2020-04-21 20:55:35 | MASTER-IAC | (10h 53m 42.40s , +64d 02m 08.5s) | P- | 440 | 19.3 | Coadd 649 | 2020-04-21 20:55:48 | MASTER-Tavrida | (11h 04m 51.95s , +64d 00m 51.3s) | C | 120 | 19.9 | 809 | 2020-04-21 20:55:48 | MASTER-Tavrida | (11h 04m 51.95s , +64d 00m 51.3s) | C | 440 | 20.4 | Coadd 799 | 2020-04-21 20:58:08 | MASTER-Tavrida | (11h 04m 53.31s , +64d 01m 51.7s) | C | 140 | 19.9 | 822 | 2020-04-21 20:58:31 | MASTER-IAC | (10h 53m 34.48s , +64d 01m 32.8s) | P- | 140 | 18.6 | 822 | 2020-04-21 20:58:31 | MASTER-IAC | (10h 55m 07.45s , +63d 57m 41.8s) | P| | 140 | 18.8 | 980 | 2020-04-21 21:00:49 | MASTER-Tavrida | (11h 04m 58.03s , +64d 00m 51.9s) | C | 180 | 19.9 | 1041 | 2020-04-21 21:01:51 | MASTER-IAC | (10h 55m 08.43s , +63d 58m 41.6s) | P| | 180 | 19.0 | 1180 | 2020-04-21 21:04:10 | MASTER-Tavrida | (11h 04m 51.51s , +63d 59m 51.9s) | C | 180 | 20.0 | 1249 | 2020-04-21 21:05:18 | MASTER-IAC | (10h 55m 14.12s , +63d 57m 41.0s) | P| | 180 | 19.0 | 1249 | 2020-04-21 21:05:18 | MASTER-IAC | (10h 53m 40.98s , +64d 01m 31.9s) | P- | 180 | 18.7 | 2125 | 2020-04-21 21:20:54 | MASTER-Tavrida | (10h 20m 07.10s , +64d 10m 36.5s) | C | 60 | 19.4 | 2206 | 2020-04-21 21:22:15 | MASTER-Tavrida | (10h 38m 25.64s , +64d 11m 49.7s) | C | 60 | 19.3 | 2286 | 2020-04-21 21:23:36 | MASTER-Tavrida | (10h 29m 12.61s , +66d 10m 45.5s) | C | 60 | 19.4 | 2367 | 2020-04-21 21:24:56 | MASTER-Tavrida | (10h 48m 50.67s , +66d 09m 58.5s) | C | 60 | 19.4 | 2447 | 2020-04-21 21:26:16 | MASTER-Tavrida | (10h 56m 47.88s , +64d 11m 45.0s) | C | 60 | 19.4 | 2930 | 2020-04-21 21:34:19 | MASTER-Tavrida | (10h 38m 24.85s , +64d 10m 50.0s) | C | 60 | 19.3 | 3010 | 2020-04-21 21:35:39 | MASTER-Tavrida | (10h 48m 50.84s , +66d 11m 59.2s) | C | 60 | 19.3 | 3090 | 2020-04-21 21:36:59 | MASTER-Tavrida | (10h 56m 50.75s , +64d 10m 60.0s) | C | 60 | 19.4 | 3121 | 2020-04-21 21:37:30 | MASTER-IAC | (10h 37m 09.03s , +62d 09m 29.6s) | C | 60 | 18.5 | 3121 | 2020-04-21 21:37:30 | MASTER-IAC | (10h 54m 32.50s , +62d 04m 53.2s) | C | 60 | 18.6 | 3171 | 2020-04-21 21:38:20 | MASTER-Tavrida | (11h 15m 03.11s , +64d 10m 07.5s) | C | 60 | 19.2 | 3246 | 2020-04-21 21:39:35 | MASTER-IAC | (10h 57m 10.05s , +66d 09m 45.2s) | C | 60 | 18.6 | 3246 | 2020-04-21 21:39:35 | MASTER-IAC | (11h 17m 14.87s , +66d 05m 01.4s) | C | 60 | 18.6 | 3251 | 2020-04-21 21:39:40 | MASTER-Tavrida | (11h 21m 28.36s , +62d 11m 55.1s) | C | 60 | 19.0 | 3331 | 2020-04-21 21:41:01 | MASTER-Tavrida | (11h 33m 28.87s , +64d 12m 03.1s) | C | 60 | 19.2 | 3366 | 2020-04-21 21:41:35 | MASTER-IAC | (11h 02m 17.17s , +60d 11m 59.9s) | C | 60 | 18.3 | 3412 | 2020-04-21 21:42:21 | MASTER-Tavrida | (10h 39m 35.72s , +60d 11m 41.9s) | C | 60 | 18.8 | 3490 | 2020-04-21 21:43:39 | MASTER-IAC | (10h 37m 11.63s , +62d 09m 50.5s) | C | 60 | 18.6 | 3490 | 2020-04-21 21:43:39 | MASTER-IAC | (10h 54m 35.39s , +62d 05m 11.9s) | C | 60 | 18.8 | 3492 | 2020-04-21 21:43:41 | MASTER-Tavrida | (11h 15m 10.34s , +64d 11m 06.1s) | C | 60 | 19.2 | 3572 | 2020-04-21 21:45:02 | MASTER-Tavrida | (11h 21m 24.55s , +62d 10m 05.1s) | C | 60 | 19.1 | 3611 | 2020-04-21 21:45:40 | MASTER-IAC | (11h 17m 14.08s , +66d 06m 38.0s) | C | 60 | 18.5 | 3611 | 2020-04-21 21:45:40 | MASTER-IAC | (10h 57m 07.85s , +66d 11m 22.5s) | C | 60 | 18.5 | 3733 | 2020-04-21 21:47:42 | MASTER-Tavrida | (11h 33m 26.04s , +64d 11m 52.1s) | C | 60 | 19.3 | 3893 | 2020-04-21 21:50:23 | MASTER-Tavrida | (10h 39m 41.31s , +60d 11m 11.5s) | C | 60 | 19.1 | 3974 | 2020-04-21 21:51:43 | MASTER-Tavrida | (10h 55m 38.78s , +60d 10m 49.8s) | C | 60 | 19.2 | 4296 | 2020-04-21 21:57:05 | MASTER-Tavrida | (10h 55m 41.75s , +60d 11m 32.5s) | C | 60 | 19.2 | 4617 | 2020-04-21 22:02:26 | MASTER-Tavrida | (10h 30m 05.72s , +62d 09m 26.1s) | C | 60 | 19.1 | 5019 | 2020-04-21 22:09:08 | MASTER-Tavrida | (10h 30m 05.66s , +62d 10m 23.8s) | C | 60 | 19.1 | 7164 | 2020-04-21 22:44:53 | MASTER-Tavrida | (10h 47m 09.38s , +62d 11m 33.3s) | C | 60 | 18.9 | 7341 | 2020-04-21 22:47:50 | MASTER-Tavrida | (11h 08m 38.99s , +66d 10m 25.9s) | C | 60 | 19.0 | 7422 | 2020-04-21 22:49:11 | MASTER-Tavrida | (11h 11m 43.05s , +60d 10m 03.3s) | C | 60 | 18.9 | 7502 | 2020-04-21 22:50:31 | MASTER-Tavrida | (10h 47m 16.18s , +62d 10m 58.4s) | C | 60 | 19.1 | 7583 | 2020-04-21 22:51:52 | MASTER-Tavrida | (11h 04m 16.48s , +62d 10m 38.2s) | C | 60 | 19.1 | 7663 | 2020-04-21 22:53:12 | MASTER-Tavrida | (11h 08m 33.22s , +66d 11m 44.3s) | C | 60 | 19.1 | 7744 | 2020-04-21 22:54:33 | MASTER-Tavrida | (11h 28m 25.22s , +66d 11m 00.6s) | C | 60 | 19.0 | 7824 | 2020-04-21 22:55:54 | MASTER-Tavrida | (11h 11m 39.42s , +60d 09m 39.3s) | C | 60 | 19.0 | 7985 | 2020-04-21 22:58:34 | MASTER-Tavrida | (11h 04m 19.01s , +62d 11m 03.3s) | C | 60 | 19.0 | 8066 | 2020-04-21 22:59:55 | MASTER-Tavrida | (11h 28m 21.20s , +66d 10m 09.3s) | C | 60 | 19.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200421.02: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27614, p. 1

MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) was pointed to the IceCube Alert 200421.02 (trigger No 60770138,05h 57m 01.20s , +07d 54m 25.2s, R=0.61) errorbox 45894 sec after notice time and 45943 sec after trigger time at 2020-04-21 13:21:07 UT, with upper limit up to 15.6 mag. Observations started at twilight. The observations began at zenith distance = 68 deg. The sun altitude is -10.4 deg. The galactic latitude b = -8 deg., longitude l = 200 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1341229 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 45973 | 2020-04-21 13:21:07 | MASTER-Tunka | (05h 51m 49.84s , +08d 17m 27.8s) | C | 60 | 15.3 | 46053 | 2020-04-21 13:22:27 | MASTER-Tunka | (05h 59m 58.32s , +08d 19m 28.6s) | C | 60 | 15.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200420.97: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27611, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the IceCube Alert 200420.97 (trigger No 200410,16h 10m 19.20s , +11d 36m 36.0s, R=14.05) errorbox 9 days 14340 sec after notice time and 4703 sec after trigger time at 2020-04-21 00:38:18 UT, with upper limit up to 20.0 mag. The observations began at zenith distance = 44 deg. The sun altitude is -55.7 deg. The galactic latitude b = 40 deg., longitude l = 25 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1334559 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 4793 | 2020-04-21 00:38:18 | MASTER-SAAO | (16h 09m 13.68s , +11d 38m 43.2s) | C | 180 | 16.8 | 6553 | 2020-04-21 01:07:38 | MASTER-SAAO | (16h 12m 33.63s , +11d 39m 58.9s) | C | 180 | 20.0 | 6559 | 2020-04-21 01:07:44 | MASTER-SAAO | (16h 05m 24.75s , +11d 38m 56.1s) | C | 180 | 16.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200420A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27608, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 200420A (Fermi GBM team, GCN 27607) errorbox 46 sec after notice time and 74 sec after trigger time at 2020-04-20 02:34:13 UT, with upper limit up to 17.5 mag. The observations began at zenith distance = 67 deg. The sun altitude is -44.6 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200420A errorbox 49 sec after notice time and 77 sec after trigger time at 2020-04-20 02:34:16 UT, with upper limit up to 18.1 mag. The observations began at zenith distance = 43 deg. The sun altitude is -32.2 deg. The galactic latitude b = -12 deg., longitude l = 40 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1340649 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 80 | 2020-04-20 02:34:13 | MASTER-IAC | (19h 42m 48.61s , +00d 48m 51.8s) | P- | 10 | 15.7 | 110 | 2020-04-20 02:34:13 | MASTER-IAC | (19h 42m 48.61s , +00d 48m 51.7s) | P- | 70 | 17.0 | Coadd 80 | 2020-04-20 02:34:13 | MASTER-IAC | (19h 43m 29.91s , +00d 45m 12.3s) | P| | 10 | 15.2 | 120 | 2020-04-20 02:34:13 | MASTER-IAC | (19h 43m 29.90s , +00d 45m 12.3s) | P| | 90 | 16.7 | Coadd 88 | 2020-04-20 02:34:16 | MASTER-SAAO | (19h 46m 31.66s , +00d 48m 44.4s) | C | 20 | 17.4 | 93 | 2020-04-20 02:34:21 | MASTER-SAAO | (19h 39m 30.51s , +00d 47m 31.7s) | C | 20 | 17.8 | 127 | 2020-04-20 02:34:55 | MASTER-SAAO | (19h 46m 33.59s , +00d 49m 44.6s) | C | 20 | 17.4 | 133 | 2020-04-20 02:35:01 | MASTER-SAAO | (19h 39m 32.42s , +00d 48m 31.9s) | C | 20 | 17.6 | 150 | 2020-04-20 02:35:18 | MASTER-IAC | (19h 43m 37.22s , +00d 45m 15.2s) | P| | 20 | 15.8 | 150 | 2020-04-20 02:35:18 | MASTER-IAC | (19h 42m 56.01s , +00d 48m 54.9s) | P- | 20 | 16.3 | 181 | 2020-04-20 02:35:44 | MASTER-SAAO | (19h 46m 39.17s , +00d 48m 44.4s) | C | 30 | 17.6 | 186 | 2020-04-20 02:35:49 | MASTER-SAAO | (19h 39m 37.98s , +00d 47m 31.8s) | C | 30 | 17.8 | 238 | 2020-04-20 02:36:37 | MASTER-IAC | (19h 42m 52.91s , +00d 50m 24.8s) | P- | 40 | 16.7 | 268 | 2020-04-20 02:37:01 | MASTER-SAAO | (19h 46m 32.95s , +00d 47m 42.0s) | C | 50 | 17.6 | 273 | 2020-04-20 02:37:06 | MASTER-SAAO | (19h 39m 31.73s , +00d 46m 29.2s) | C | 50 | 17.9 | 342 | 2020-04-20 02:38:10 | MASTER-SAAO | (19h 46m 40.30s , +00d 47m 44.0s) | C | 60 | 17.8 | 347 | 2020-04-20 02:38:16 | MASTER-SAAO | (19h 39m 39.07s , +00d 46m 31.2s) | C | 60 | 18.0 | 350 | 2020-04-20 02:38:19 | MASTER-IAC | (19h 43m 34.18s , +00d 45m 39.9s) | P| | 60 | 16.7 | 350 | 2020-04-20 02:38:19 | MASTER-IAC | (19h 42m 53.02s , +00d 49m 19.9s) | P- | 60 | 17.0 | 444 | 2020-04-20 02:39:52 | MASTER-SAAO | (19h 46m 08.52s , +00d 01m 02.6s) | C | 60 | 17.8 | 450 | 2020-04-20 02:39:58 | MASTER-SAAO | (19h 39m 07.28s , -00d 00m 10.0s) | C | 60 | 18.0 | 469 | 2020-04-20 02:40:18 | MASTER-IAC | (19h 47m 28.32s , +01d 58m 26.6s) | C | 60 | 17.2 | 469 | 2020-04-20 02:40:18 | MASTER-IAC | (19h 39m 25.03s , +02d 02m 56.4s) | C | 60 | 17.4 | 539 | 2020-04-20 02:41:27 | MASTER-SAAO | (19h 46m 51.96s , -02d 00m 27.7s) | C | 60 | 17.5 | 544 | 2020-04-20 02:41:32 | MASTER-SAAO | (19h 39m 50.40s , -02d 01m 40.2s) | C | 60 | 17.6 | 587 | 2020-04-20 02:42:16 | MASTER-IAC | (19h 49m 33.53s , +03d 57m 42.2s) | C | 60 | 17.3 | 587 | 2020-04-20 02:42:16 | MASTER-IAC | (19h 41m 29.36s , +04d 02m 12.3s) | C | 60 | 17.4 | 641 | 2020-04-20 02:43:09 | MASTER-SAAO | (20h 02m 10.02s , +00d 01m 19.3s) | C | 60 | 17.9 | 647 | 2020-04-20 02:43:15 | MASTER-SAAO | (19h 55m 08.85s , +00d 00m 06.4s) | C | 60 | 18.1 | 706 | 2020-04-20 02:44:14 | MASTER-IAC | (19h 55m 19.28s , +02d 02m 49.7s) | C | 60 | 17.5 | 706 | 2020-04-20 02:44:14 | MASTER-IAC | (20h 03m 22.51s , +01d 58m 18.6s) | C | 60 | 17.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 608935505: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27606, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200418.86 (trigger No 608935505,04h 50m 21.60s , -00d 59m 24.0s, R=8.06) errorbox 72770 sec after notice time and 72779 sec after trigger time at 2020-04-19 16:57:59 UT, with upper limit up to 18.8 mag. Observations started at twilight. The observations began at zenith distance = 56 deg. The sun altitude is -10.2 deg. The galactic latitude b = -27 deg., longitude l = 199 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1340036 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 72809 | 2020-04-19 16:57:59 | MASTER-SAAO | (04h 49m 57.06s , -01d 59m 54.1s) | C | 60 | 16.4 | 72814 | 2020-04-19 16:58:04 | MASTER-SAAO | (04h 42m 53.56s , -02d 01m 35.6s) | C | 60 | 16.2 | 72889 | 2020-04-19 16:59:19 | MASTER-SAAO | (04h 49m 37.54s , -00d 00m 47.1s) | C | 60 | 16.8 | 72894 | 2020-04-19 16:59:24 | MASTER-SAAO | (04h 42m 34.38s , -00d 02m 28.8s) | C | 60 | 16.9 | 72968 | 2020-04-19 17:00:38 | MASTER-SAAO | (04h 50m 29.09s , -04d 00m 34.8s) | C | 60 | 17.1 | 72974 | 2020-04-19 17:00:43 | MASTER-SAAO | (04h 43m 24.65s , -04d 02m 15.3s) | C | 60 | 17.2 | 73054 | 2020-04-19 17:02:04 | MASTER-SAAO | (04h 49m 50.71s , +02d 01m 12.7s) | C | 60 | 17.0 | 73059 | 2020-04-19 17:02:09 | MASTER-SAAO | (04h 42m 47.28s , +01d 59m 31.8s) | C | 60 | 17.0 | 73134 | 2020-04-19 17:03:23 | MASTER-SAAO | (04h 49m 52.90s , -02d 00m 45.8s) | C | 60 | 17.4 | 73139 | 2020-04-19 17:03:29 | MASTER-SAAO | (04h 42m 49.29s , -02d 02m 25.5s) | C | 60 | 17.5 | 73218 | 2020-04-19 17:04:48 | MASTER-SAAO | (04h 42m 40.27s , -00d 00m 30.9s) | C | 60 | 17.6 | 73370 | 2020-04-19 17:07:20 | MASTER-SAAO | (04h 42m 43.69s , +01d 59m 28.6s) | C | 60 | 17.6 | 73459 | 2020-04-19 17:08:48 | MASTER-SAAO | (05h 05m 44.87s , +00d 01m 00.2s) | C | 60 | 18.0 | 73464 | 2020-04-19 17:08:54 | MASTER-SAAO | (04h 58m 41.45s , -00d 00m 39.0s) | C | 60 | 18.1 | 73538 | 2020-04-19 17:10:08 | MASTER-SAAO | (05h 05m 50.84s , -02d 00m 08.8s) | C | 60 | 18.1 | 73544 | 2020-04-19 17:10:13 | MASTER-SAAO | (04h 58m 47.07s , -02d 01m 47.1s) | C | 60 | 18.2 | 73618 | 2020-04-19 17:11:28 | MASTER-SAAO | (05h 05m 53.73s , +02d 00m 17.2s) | C | 60 | 18.1 | 73623 | 2020-04-19 17:11:33 | MASTER-SAAO | (04h 58m 50.15s , +01d 58m 38.5s) | C | 60 | 18.2 | 73698 | 2020-04-19 17:12:47 | MASTER-SAAO | (05h 06m 28.57s , -03d 58m 42.2s) | C | 60 | 18.6 | 73703 | 2020-04-19 17:12:53 | MASTER-SAAO | (04h 59m 23.94s , -04d 00m 19.7s) | C | 60 | 18.8 | 73777 | 2020-04-19 17:14:07 | MASTER-SAAO | (05h 05m 40.97s , -00d 00m 01.3s) | C | 60 | 18.3 | 73782 | 2020-04-19 17:14:12 | MASTER-SAAO | (04h 58m 37.51s , -00d 01m 39.5s) | C | 60 | 18.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Tyurina, N., Gorbovskoy, E., Kornilov, V., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. GRB 200415A: MASTER imspection and possible localisation // GRB Coordinates Network, 2020, V. 27599, p. 1

MASTER OTJ 004724.94-252125.6s (AT2020hok) MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) proposed interesting source at (RA, Dec) = 00h 47m 24.94s -25d 21m 25.6s on 2020-04-17.15061 UT during GRB 200415 error box inspection (GCN 27579; 27580; 27586; 27595; 27597;). Inside galaxy NGC 0253 (Svinkin, 27595; Frederiks 27597;) there is an interesting extended object with an XMM X-ray source at 00 47 25.0800 -25 21 23.760 . This is may be globular cluster: B-V ~ 1 The unfiltered magnitude is 15.8m (mlim 17.9). The source is seen in 24 images. No optical variability detected. We have reference image on 2018-08-10.99113 UT with unfiltered mlim=20.3m. Follow up observations are required. The cover map is available at https://master.sai.msu.ru/site/master2/event.php?id=1337630 The inspection and reference images are available at: http://master.sai.msu.ru/static/OT/183315.33623157.0.png

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200415A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27590, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200415A (Fermi GBM team, GCN 27579) errorbox 59974 sec after notice time and 60005 sec after trigger time at 2020-04-16 01:28:11 UT, with upper limit up to 18.9 mag. The observations began at zenith distance = 74 deg. The sun altitude is -45.2 deg. The galactic latitude b = -57 deg., longitude l = 304 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1337394 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 60036 | 2020-04-16 01:28:11 | MASTER-SAAO | (00h 26m 38.28s , -62d 06m 18.6s) | C | 60 | 18.4 | 60040 | 2020-04-16 01:28:15 | MASTER-SAAO | (00h 41m 32.15s , -62d 05m 14.4s) | C | 60 | 18.0 | 62934 | 2020-04-16 02:16:29 | MASTER-SAAO | (00h 26m 30.17s , -62d 06m 01.0s) | C | 60 | 18.9 | 62938 | 2020-04-16 02:16:33 | MASTER-SAAO | (00h 41m 27.25s , -62d 04m 57.1s) | C | 60 | 18.7 | 63014 | 2020-04-16 02:17:49 | MASTER-SAAO | (00h 24m 54.86s , -60d 05m 54.9s) | C | 60 | 18.9 | 63018 | 2020-04-16 02:17:53 | MASTER-SAAO | (00h 38m 56.88s , -60d 04m 50.7s) | C | 60 | 18.8 | 63097 | 2020-04-16 02:19:12 | MASTER-SAAO | (00h 36m 38.06s , -58d 03m 33.9s) | C | 60 | 18.6 | 63173 | 2020-04-16 02:20:28 | MASTER-SAAO | (00h 53m 41.50s , -58d 06m 07.0s) | C | 60 | 18.6 | 63946 | 2020-04-16 02:33:21 | MASTER-SAAO | (00h 24m 52.11s , -60d 06m 10.1s) | C | 60 | 18.6 | 63950 | 2020-04-16 02:33:25 | MASTER-SAAO | (00h 38m 49.79s , -60d 05m 07.9s) | C | 60 | 18.6 | 64029 | 2020-04-16 02:34:45 | MASTER-SAAO | (00h 36m 38.94s , -58d 04m 49.4s) | C | 60 | 18.5 | 64105 | 2020-04-16 02:36:00 | MASTER-SAAO | (00h 53m 43.98s , -58d 04m 24.7s) | C | 60 | 18.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200412A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27559, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200412A (B. Mailyan et al., GCN 27550) errorbox 36730 sec after notice time and 36757 sec after trigger time at 2020-04-12 17:09:48 UT, with upper limit up to 19.6 mag. Observations started at twilight. The observations began at zenith distance = 18 deg. The sun altitude is -11.1 deg. The galactic latitude b = 1 deg., longitude l = 261 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1334799 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 36787 | 2020-04-12 17:09:48 | MASTER-SAAO | (09h 13m 52.34s , -41d 51m 51.9s) | C | 60 | 18.4 | 37119 | 2020-04-12 17:15:21 | MASTER-SAAO | (09h 13m 54.79s , -41d 51m 51.5s) | C | 60 | 18.8 | 38182 | 2020-04-12 17:33:03 | MASTER-SAAO | (09h 10m 06.68s , -43d 53m 01.7s) | C | 60 | 19.5 | 38513 | 2020-04-12 17:38:34 | MASTER-SAAO | (09h 10m 03.48s , -43d 53m 49.3s) | C | 60 | 19.5 | 38840 | 2020-04-12 17:44:01 | MASTER-SAAO | (09h 06m 39.51s , -39d 52m 36.7s) | C | 60 | 19.5 | 38843 | 2020-04-12 17:44:04 | MASTER-SAAO | (08h 57m 23.15s , -39d 53m 40.6s) | C | 60 | 19.6 | 38922 | 2020-04-12 17:45:24 | MASTER-SAAO | (09h 02m 33.15s , -37d 54m 37.1s) | C | 60 | 19.1 | 39169 | 2020-04-12 17:49:31 | MASTER-SAAO | (09h 06m 35.97s , -39d 53m 37.7s) | C | 60 | 19.5 | 39172 | 2020-04-12 17:49:34 | MASTER-SAAO | (08h 57m 19.39s , -39d 54m 42.5s) | C | 60 | 19.6 | 39252 | 2020-04-12 17:50:54 | MASTER-SAAO | (09h 02m 39.08s , -37d 53m 08.5s) | C | 60 | 19.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Yurkov, V., Gabovich, A., Gorbovskoy, Y., Sergienko E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, et al. GRB 200412B: MASTER-Amur Optical Couterpart in Gagarin day! // GRB Coordinates Network, 2020, V. 27556, p. 1
MASTER-Amur (located near Russian Kosmodrom Vostochniy) comeback to MASTER OT J183315.33+623157.0 (Lipunov et al., GCN 27555) after 2 hours and we find optical transient with limit ~ 17.5 . So this is real afterglow: at (RA, Dec) = 18h 33m 15.33s +62d 31m 57.0s on The OT is seen in 2 images. There is no minor planet at this place. We have reference image on 2016-08-12.64123 UT with unfiltered mlim= 19.3m. Spectral observations are required. The discovery and reference images are available at: http://master.sai.msu.ru/static/OT/183315.33623157.0.png [GCN OPS NOTE(13apr20): In the first senstence, change "J111012.51+274912.8" to "J183315.33+623157.0".

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. GRB 200412B: MASTER Optical Couterpart in Gagarin day! // GRB Coordinates Network, 2020, V. 27555, p. 1
MASTER OT J183315.33+623157.0 (AT2020har) discovery new OT inside Fermi GRB 200412B (trigger 608375325). MASTER-Amur auto-detection system (located near Russia Kosmodrom Vostochniy) discovered OT source at (RA, Dec) = 18h 33m 15.33s +62d 31m 57.0s on 2020-04-12.48156 UT in Fermi error box (GCN 27547, 27548) Lipunov et al., GCN 27549). The OT unfiltered magnitude is 16.6m (mlim18.0). The OT is seen in 2 images. There is no minor planet at this place. We have reference image on 2016-08-12.64123 UT with unfiltered mlim= 19.3m. Spectral observations are required. The discovery and reference images are available at: http://master.sai.msu.ru/static/OT/183315.33623157.0.png [GCN OPS NOTE(13apr20): Per author's request, In the first sentence change "J111012.51+274912.8" to "J183315.33+623157.0 (AT2020har)" and change "200325B" to "200412B" and "606840801" to "608375325".

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200412B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27549, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the Fermi GRB 200412B (Fermi GBM team, GCN 27547) errorbox 8581 sec after notice time and 8607 sec after trigger time at 2020-04-12 11:32:08 UT, with upper limit up to 18.1 mag. Observations started at twilight. The observations began at zenith distance = 62 deg. The sun altitude is -11.6 deg. The galactic latitude b = 21 deg., longitude l = 93 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1334873 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 8638 | 2020-04-12 11:32:08 | MASTER-Amur | (18h 42m 54.00s , +64d 01m 02.2s) | C | 60 | 17.7 | 8717 | 2020-04-12 11:33:27 | MASTER-Amur | (18h 36m 40.79s , +62d 00m 23.4s) | C | 60 | 17.7 | 8876 | 2020-04-12 11:36:06 | MASTER-Amur | (18h 51m 29.33s , +66d 00m 50.1s) | C | 60 | 17.8 | 8955 | 2020-04-12 11:37:26 | MASTER-Amur | (18h 42m 48.05s , +64d 01m 55.3s) | C | 60 | 18.1 | 9036 | 2020-04-12 11:38:46 | MASTER-Amur | (19h 01m 08.17s , +64d 00m 49.8s) | C | 60 | 17.9 | 9115 | 2020-04-12 11:40:06 | MASTER-Amur | (18h 36m 35.84s , +61d 59m 55.8s) | C | 60 | 18.0 | 9195 | 2020-04-12 11:41:25 | MASTER-Amur | (18h 53m 41.44s , +62d 00m 17.0s) | C | 60 | 17.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200411A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27542, p. 1

MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB 200411A (A. Tohuvavohu et al., GCN 27536) errorbox 46681 sec after notice time and 46701 sec after trigger time at 2020-04-11 17:27:24 UT, with upper limit up to 18.9 mag. Observations started at twilight. The observations began at zenith distance = 56 deg. The sun altitude is -14.6 deg. The galactic latitude b = -54 deg., longitude l = 266 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1334193 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 46792 | MASTER-SAAO | C | 180 | 18.9 | 46794 | MASTER-SAAO | C | 180 | 18.9 | 47360 | MASTER-SAAO | C | 180 | 17.8 | 47363 | MASTER-SAAO | C | 180 | 17.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200410.97: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27533, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) was pointed to the IceCube Alert 200410.97 (trigger No 24635982,16h 05m 03.84s , +11d 35m 06.0s, R=0.53) errorbox 20 sec after notice time and 73 sec after trigger time at 2020-04-10 23:21:08 UT, with upper limit up to 18.1 mag. The observations began at zenith distance = 33 deg. The sun altitude is -30.9 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the IceCube Alert 200410.97 errorbox 38 sec after notice time and 90 sec after trigger time at 2020-04-10 23:21:26 UT, with upper limit up to 17.6 mag. The observations began at zenith distance = 36 deg. The sun altitude is -33.2 deg. The galactic latitude b = 42 deg., longitude l = 24 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1334069 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 78 | 2020-04-10 23:21:08 | MASTER-Kislovodsk | (16h 04m 40.56s , +11d 21m 05.6s) | P| | 10 | 16.6 | 103 | 2020-04-10 23:21:08 | MASTER-Kislovodsk | (16h 04m 40.56s , +11d 21m 05.6s) | P| | 60 | 17.5 | Coadd 78 | 2020-04-10 23:21:08 | MASTER-Kislovodsk | (16h 04m 22.32s , +11d 48m 56.6s) | P- | 10 | 16.3 | 103 | 2020-04-10 23:21:08 | MASTER-Kislovodsk | (16h 04m 22.32s , +11d 48m 56.6s) | P- | 60 | 17.3 | Coadd 101 | 2020-04-10 23:21:26 | MASTER-Tavrida | (16h 09m 40.08s , +11d 33m 24.2s) | C | 20 | 16.4 | 126 | 2020-04-10 23:21:26 | MASTER-Tavrida | (16h 09m 40.07s , +11d 33m 24.2s) | C | 70 | 17.1 | Coadd 113 | 2020-04-10 23:21:38 | MASTER-Kislovodsk | (16h 04m 40.52s , +11d 19m 40.8s) | P| | 20 | 17.0 | 113 | 2020-04-10 23:21:38 | MASTER-Kislovodsk | (16h 04m 22.24s , +11d 47m 31.2s) | P- | 20 | 16.8 | 141 | 2020-04-10 23:22:06 | MASTER-Tavrida | (16h 09m 34.93s , +11d 32m 54.8s) | C | 20 | 15.3 | 159 | 2020-04-10 23:22:19 | MASTER-Kislovodsk | (16h 04m 42.29s , +11d 21m 08.3s) | P| | 30 | 17.0 | 159 | 2020-04-10 23:22:19 | MASTER-Kislovodsk | (16h 04m 23.95s , +11d 48m 57.5s) | P- | 30 | 16.9 | 186 | 2020-04-10 23:22:46 | MASTER-Tavrida | (16h 09m 34.90s , +11d 33m 55.3s) | C | 30 | 16.8 | 214 | 2020-04-10 23:23:09 | MASTER-Kislovodsk | (16h 04m 36.52s , +11d 20m 21.4s) | P| | 40 | 17.2 | 269 | 2020-04-10 23:23:09 | MASTER-Kislovodsk | (16h 04m 36.52s , +11d 20m 21.4s) | P| | 150 | 18.1 | Coadd 214 | 2020-04-10 23:23:09 | MASTER-Kislovodsk | (16h 04m 18.13s , +11d 48m 09.8s) | P- | 40 | 17.1 | 269 | 2020-04-10 23:23:09 | MASTER-Kislovodsk | (16h 04m 18.13s , +11d 48m 09.8s) | P- | 150 | 18.0 | Coadd 242 | 2020-04-10 23:23:37 | MASTER-Tavrida | (16h 09m 39.91s , +11d 32m 55.5s) | C | 40 | 17.0 | 307 | 2020-04-10 23:23:37 | MASTER-Tavrida | (16h 09m 39.91s , +11d 32m 55.6s) | C | 170 | 17.6 | Coadd 280 | 2020-04-10 23:24:10 | MASTER-Kislovodsk | (16h 04m 37.24s , +11d 21m 22.4s) | P| | 50 | 17.5 | 280 | 2020-04-10 23:24:10 | MASTER-Kislovodsk | (16h 04m 18.80s , +11d 49m 09.7s) | P- | 50 | 17.4 | 312 | 2020-04-10 23:24:37 | MASTER-Tavrida | (16h 09m 34.12s , +11d 31m 56.0s) | C | 60 | 17.0 | 355 | 2020-04-10 23:25:20 | MASTER-Kislovodsk | (16h 04m 42.28s , +11d 20m 23.6s) | P| | 60 | 17.5 | 355 | 2020-04-10 23:25:20 | MASTER-Kislovodsk | (16h 04m 23.79s , +11d 48m 10.0s) | P- | 60 | 17.4 | 398 | 2020-04-10 23:25:58 | MASTER-Tavrida | (16h 09m 40.59s , +11d 32m 04.0s) | C | 70 | 16.9 | 446 | 2020-04-10 23:26:41 | MASTER-Kislovodsk | (16h 04m 36.54s , +11d 19m 25.2s) | P| | 80 | 17.6 | 446 | 2020-04-10 23:26:41 | MASTER-Kislovodsk | (16h 04m 18.00s , +11d 47m 11.0s) | P- | 80 | 17.6 | 498 | 2020-04-10 23:27:28 | MASTER-Tavrida | (16h 09m 37.00s , +11d 33m 49.3s) | C | 90 | 17.2 | 556 | 2020-04-10 23:28:21 | MASTER-Kislovodsk | (16h 04m 42.32s , +11d 19m 45.7s) | P| | 100 | 17.8 | 556 | 2020-04-10 23:28:21 | MASTER-Kislovodsk | (16h 04m 23.72s , +11d 47m 31.0s) | P- | 100 | 17.6 | 619 | 2020-04-10 23:29:19 | MASTER-Tavrida | (16h 09m 36.98s , +11d 32m 26.3s) | C | 110 | 17.0 | 687 | 2020-04-10 23:30:22 | MASTER-Kislovodsk | (16h 04m 40.63s , +11d 21m 10.2s) | P| | 120 | 17.9 | 687 | 2020-04-10 23:30:22 | MASTER-Kislovodsk | (16h 04m 21.93s , +11d 48m 54.7s) | P- | 120 | 17.8 | 764 | 2020-04-10 23:31:29 | MASTER-Tavrida | (16h 09m 40.24s , +11d 33m 53.8s) | C | 140 | 16.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200410.82: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27530, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the Baksan Neutrino Observatory Alert 200410.82 (trigger No 1637264073,20h 26m 24.00s , -12d 24m 00.0s, R=3) errorbox 19 sec after notice time and 949 sec after trigger time at 2020-04-10 19:50:22 UT, with upper limit up to 14.5 mag. Observations started at twilight. The observations began at zenith distance = 73 deg. The sun altitude is -9.4 deg. The galactic latitude b = -27 deg., longitude l = 33 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1334003 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 980 | 2020-04-10 19:50:22 | MASTER-Amur | (20h 31m 16.88s , -12d 22m 08.9s) | C | 60 | 14.5 | 1059 | 2020-04-10 19:51:41 | MASTER-Amur | (20h 31m 16.89s , -12d 23m 17.8s) | C | 60 | 14.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 608204639: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27529, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the Fermi GRB200410.41 (trigger No 608204639,19h 45m 33.60s , +15d 06m 00.0s, R=3.52) errorbox 25576 sec after notice time and 25603 sec after trigger time at 2020-04-10 16:50:37 UT, with upper limit up to 16.5 mag. The observations began at zenith distance = 68 deg. The sun altitude is -29.3 deg. MASTER-Tunka robotic telescope located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB200410.41 errorbox 31716 sec after notice time and 31743 sec after trigger time at 2020-04-10 18:32:57 UT, with upper limit up to 17.3 mag. The observations began at zenith distance = 65 deg. The sun altitude is -28.0 deg. The galactic latitude b = -5 deg., longitude l = 53 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1333818 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 25633 | 2020-04-10 16:50:37 | MASTER-Amur | (19h 37m 47.21s , +16d 04m 02.2s) | C | 60 | 15.7 | 25713 | 2020-04-10 16:51:57 | MASTER-Amur | (19h 33m 41.86s , +18d 03m 57.9s) | C | 60 | 16.1 | 25792 | 2020-04-10 16:53:16 | MASTER-Amur | (19h 50m 31.09s , +18d 02m 58.3s) | C | 60 | 15.2 | 27636 | 2020-04-10 17:24:00 | MASTER-Amur | (19h 37m 55.00s , +16d 04m 52.9s) | C | 60 | 15.9 | 27715 | 2020-04-10 17:25:19 | MASTER-Amur | (19h 46m 07.90s , +16d 04m 05.7s) | C | 60 | 15.6 | 27796 | 2020-04-10 17:26:40 | MASTER-Amur | (19h 33m 39.03s , +18d 05m 02.7s) | C | 60 | 16.3 | 27876 | 2020-04-10 17:27:59 | MASTER-Amur | (19h 42m 09.75s , +18d 03m 59.6s) | C | 60 | 15.7 | 27955 | 2020-04-10 17:29:19 | MASTER-Amur | (19h 50m 26.29s , +18d 02m 56.0s) | C | 60 | 15.4 | 28035 | 2020-04-10 17:30:38 | MASTER-Amur | (19h 58m 57.18s , +18d 03m 20.3s) | C | 60 | 15.7 | 28114 | 2020-04-10 17:31:58 | MASTER-Amur | (19h 46m 11.08s , +16d 04m 35.7s) | C | 60 | 15.8 | 28194 | 2020-04-10 17:33:18 | MASTER-Amur | (19h 42m 06.14s , +18d 03m 04.6s) | C | 60 | 15.7 | 28274 | 2020-04-10 17:34:37 | MASTER-Amur | (19h 43m 21.02s , +14d 04m 00.4s) | C | 60 | 15.8 | 28353 | 2020-04-10 17:35:57 | MASTER-Amur | (19h 58m 52.35s , +18d 04m 51.1s) | C | 60 | 15.7 | 28449 | 2020-04-10 17:37:33 | MASTER-Amur | (19h 54m 28.07s , +16d 02m 55.2s) | C | 60 | 15.9 | 28531 | 2020-04-10 17:38:54 | MASTER-Amur | (19h 33m 53.19s , +12d 04m 50.7s) | C | 60 | 15.1 | 28810 | 2020-04-10 17:43:34 | MASTER-Amur | (19h 43m 27.83s , +14d 04m 42.4s) | C | 60 | 15.8 | 29089 | 2020-04-10 17:48:12 | MASTER-Amur | (19h 51m 36.45s , +14d 05m 06.4s) | C | 60 | 16.0 | 29172 | 2020-04-10 17:49:36 | MASTER-Amur | (19h 54m 34.71s , +16d 03m 57.4s) | C | 60 | 16.1 | 29252 | 2020-04-10 17:50:56 | MASTER-Amur | (20h 02m 46.35s , +16d 02m 53.1s) | C | 60 | 16.2 | 29332 | 2020-04-10 17:52:15 | MASTER-Amur | (19h 33m 56.95s , +12d 03m 17.5s) | C | 60 | 15.3 | 29411 | 2020-04-10 17:53:35 | MASTER-Amur | (19h 42m 04.73s , +12d 04m 33.7s) | C | 60 | 15.7 | 29490 | 2020-04-10 17:54:54 | MASTER-Amur | (19h 51m 38.64s , +14d 03m 22.4s) | C | 60 | 16.0 | 29570 | 2020-04-10 17:56:14 | MASTER-Amur | (20h 02m 53.61s , +16d 04m 28.5s) | C | 60 | 16.2 | 29649 | 2020-04-10 17:57:33 | MASTER-Amur | (19h 50m 12.66s , +12d 04m 56.7s) | C | 60 | 15.8 | 29729 | 2020-04-10 17:58:53 | MASTER-Amur | (19h 42m 07.91s , +12d 03m 57.6s) | C | 60 | 15.6 | 29808 | 2020-04-10 18:00:12 | MASTER-Amur | (19h 26m 58.51s , +14d 03m 29.2s) | C | 60 | 16.5 | 29891 | 2020-04-10 18:01:35 | MASTER-Amur | (19h 59m 53.59s , +14d 03m 15.1s) | C | 60 | 16.3 | 29970 | 2020-04-10 18:02:54 | MASTER-Amur | (19h 50m 19.83s , +12d 04m 56.2s) | C | 60 | 15.8 | 30050 | 2020-04-10

18:04:14 | MASTER-Amur | (19h 58m 23.29s , +12d 03m 54.7s) | C | 60 | 15.9 | 30129 | 2020-04-10 18:05:33 | MASTER-Amur | (19h 26m 54.79s , +14d 05m 01.7s) | C | 60 | 16.5 | 30209 | 2020-04-10 18:06:52 | MASTER-Amur | (19h 35m 13.52s , +14d 03m 58.7s) | C | 60 | 16.3 | 30288 | 2020-04-10 18:08:12 | MASTER-Amur | (19h 59m 50.01s , +14d 02m 54.4s) | C | 60 | 16.3 | 31773 | 2020-04-10 18:32:57 | MASTER-Tunka | (19h 38m 27.43s , +19d 44m 06.3s) | C | 60 | 17.2 | 34724 | 2020-04-10 19:22:08 | MASTER-Tunka | (19h 38m 20.16s , +19d 45m 03.4s) | C | 60 | 17.3 | 34805 | 2020-04-10 19:23:28 | MASTER-Tunka | (19h 36m 51.42s , +15d 47m 07.6s) | C | 60 | 17.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200409.81: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27528, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Baksan Neutrino Observatory Alert 200409.81 (trigger No 1637177030,03h 31m 36.00s , -23d 30m 00.0s, R=3) errorbox 77311 sec after notice time and 77994 sec after trigger time at 2020-04-10 17:03:44 UT, with upper limit up to 18.9 mag. Observations started at twilight. The observations began at zenith distance = 55 deg. The sun altitude is -9.3 deg. The galactic latitude b = -53 deg., longitude l = 216 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1333515 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 78024 | 2020-04-10 17:03:44 | MASTER-SAAO | (03h 32m 32.87s , -24d 03m 08.1s) | C | 60 | 17.6 | 78027 | 2020-04-10 17:03:46 | MASTER-SAAO | (03h 24m 57.65s , -24d 04m 38.2s) | C | 60 | 17.4 | 78104 | 2020-04-10 17:05:04 | MASTER-SAAO | (03h 29m 26.89s , -22d 04m 11.6s) | C | 60 | 18.1 | 78106 | 2020-04-10 17:05:06 | MASTER-SAAO | (03h 21m 58.45s , -22d 05m 41.3s) | C | 60 | 17.7 | 78184 | 2020-04-10 17:06:23 | MASTER-SAAO | (03h 36m 05.44s , -26d 05m 00.2s) | C | 60 | 18.2 | 78186 | 2020-04-10 17:06:25 | MASTER-SAAO | (03h 28m 22.52s , -26d 06m 29.3s) | C | 60 | 17.8 | 78263 | 2020-04-10 17:07:43 | MASTER-SAAO | (03h 46m 42.88s , -22d 04m 06.1s) | C | 60 | 18.2 | 78266 | 2020-04-10 17:07:45 | MASTER-SAAO | (03h 39m 14.24s , -22d 05m 36.1s) | C | 60 | 18.3 | 78343 | 2020-04-10 17:09:02 | MASTER-SAAO | (03h 32m 35.49s , -24d 03m 13.1s) | C | 60 | 18.3 | 78345 | 2020-04-10 17:09:05 | MASTER-SAAO | (03h 25m 00.27s , -24d 04m 41.7s) | C | 60 | 18.1 | 78423 | 2020-04-10 17:10:22 | MASTER-SAAO | (03h 29m 24.98s , -22d 04m 52.2s) | C | 60 | 18.5 | 78425 | 2020-04-10 17:10:25 | MASTER-SAAO | (03h 21m 56.43s , -22d 06m 20.4s) | C | 60 | 18.2 | 78503 | 2020-04-10 17:11:42 | MASTER-SAAO | (03h 36m 11.26s , -26d 03m 04.2s) | C | 60 | 18.5 | 78505 | 2020-04-10 17:11:45 | MASTER-SAAO | (03h 28m 28.39s , -26d 04m 31.7s) | C | 60 | 18.4 | 78582 | 2020-04-10 17:13:02 | MASTER-SAAO | (03h 46m 36.72s , -22d 03m 35.5s) | C | 60 | 18.7 | 78585 | 2020-04-10 17:13:04 | MASTER-SAAO | (03h 39m 08.01s , -22d 05m 03.9s) | C | 60 | 18.7 | 78743 | 2020-04-10 17:15:43 | MASTER-SAAO | (03h 50m 08.84s , -24d 03m 34.7s) | C | 60 | 18.5 | 78745 | 2020-04-10 17:15:45 | MASTER-SAAO | (03h 42m 33.01s , -24d 05m 03.1s) | C | 60 | 18.6 | 78903 | 2020-04-10 17:18:23 | MASTER-SAAO | (03h 40m 08.95s , -28d 04m 35.1s) | C | 60 | 18.9 | 78906 | 2020-04-10 17:18:25 | MASTER-SAAO | (03h 32m 17.17s , -28d 06m 02.6s) | C | 60 | 18.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200410.10: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27517, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB200410.10 (trigger No 965638,19h 58m 32.88s , +51d 45m 46.8s, R=0.05) errorbox 16 sec after notice time and 55 sec after trigger time at 2020-04-10 02:26:05 UT, with upper limit up to 16.1 mag. Observations started at twilight. The observations began at zenith distance = 23 deg. The sun altitude is -8.2 deg. The galactic latitude b = 11 deg., longitude l = 86 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1333659 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment
_____|_____|_____|_____ 60 | MASTER-Tavrida | C | 10 | 15.5 | 80 | MASTER-Tavrida | C | 50 | 16.1 | Coadd 96 | MASTER-Tavrida | C | 20 | 15.7 | 136 | MASTER-Tavrida | C | 20 | 15.5 | 181 | MASTER-Tavrida | C | 30 | 15.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200408.26: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27515, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Baksan Neutrino Observatory Alert 200408.26 (trigger No 1637043236,14h 10m 48.00s , +15d 36m 00.0s, R=3) errorbox 1 days 44298 sec after notice time and 1 days 44667 sec after trigger time at 2020-04-09 18:38:23 UT, with upper limit up to 17.7 mag. The observations began at zenith distance = 54 deg. The sun altitude is -23.3 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) started inspect of the Baksan Neutrino Observatory Alert 200408.26 errorbox 1 days 59907 sec after notice time and 1 days 60277 sec after trigger time at 2020-04-09 22:58:32 UT, with upper limit up to 16.0 mag. The observations began at zenith distance = 53 deg. The sun altitude is -65.5 deg. The galactic latitude b = 68 deg., longitude l = 5 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1332654 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 131098 | 2020-04-09 18:38:23 | MASTER-Tavrida | (14h 03m 29.53s , +19d 59m 48.9s) | C | 60 | 17.5 | 131685 | 2020-04-09 18:48:10 | MASTER-Tavrida | (14h 03m 24.15s , +19d 59m 29.2s) | C | 60 | 17.3 | 142847 | 2020-04-09 21:54:12 | MASTER-Tavrida | (14h 11m 51.64s , +19d 59m 24.5s) | C | 60 | 17.5 | 143732 | 2020-04-09 22:08:57 | MASTER-Tavrida | (14h 11m 50.14s , +20d 01m 25.4s) | C | 60 | 17.5 | 143813 | 2020-04-09 22:10:18 | MASTER-Tavrida | (14h 20m 28.52s , +20d 00m 12.5s) | C | 60 | 17.7 | 144497 | 2020-04-09 22:21:43 | MASTER-Tavrida | (14h 20m 24.71s , +19d 59m 24.0s) | C | 60 | 17.6 | 146707 | 2020-04-09 22:58:32 | MASTER-SAAO | (14h 13m 43.93s , +20d 07m 49.0s) | C | 60 | 14.9 | 146709 | 2020-04-09 22:58:34 | MASTER-SAAO | (14h 06m 21.11s , +20d 06m 33.8s) | C | 60 | 16.0 | 151076 | 2020-04-10 00:11:22 | MASTER-Tavrida | (14h 00m 44.11s , +18d 10m 58.4s) | C | 60 | 17.5 | 151421 | 2020-04-10 00:17:06 | MASTER-Tavrida | (14h 00m 43.70s , +18d 09m 16.5s) | C | 60 | 17.6 | 151502 | 2020-04-10 00:18:27 | MASTER-Tavrida | (14h 09m 05.71s , +18d 10m 35.1s) | C | 60 | 17.6 | 151582 | 2020-04-10 00:19:47 | MASTER-Tavrida | (14h 09m 05.76s , +18d 10m 32.1s) | C | 60 | 17.6 | 151840 | 2020-04-10 00:24:06 | MASTER-Tavrida | (14h 09m 09.56s , +18d 09m 54.0s) | C | 60 | 17.4 | 151921 | 2020-04-10 00:25:26 | MASTER-Tavrida | (14h 09m 09.69s , +18d 09m 51.2s) | C | 60 | 17.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200409.23: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27513, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Baksan Neutrino Observatory Alert 200409.23 (trigger No 1637127300,07h 12m 48.00s , -47d 24m 00.0s, R=3) errorbox 40579 sec after notice time and 41481 sec after trigger time at 2020-04-09 17:06:22 UT, with upper limit up to 19.9 mag. Observations started at twilight. The observations began at zenith distance = 17 deg. The sun altitude is -9.6 deg. The galactic latitude b = -16 deg., longitude l = 259 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1333183 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 41512 | 2020-04-09 17:06:22 | MASTER-SAAO | (07h 14m 47.80s , -47d 54m 59.4s) | C | 60 | 17.2 | 41514 | 2020-04-09 17:06:23 | MASTER-SAAO | (07h 04m 15.18s , -47d 56m 20.3s) | C | 60 | 17.1 | 41592 | 2020-04-09 17:07:41 | MASTER-SAAO | (07h 21m 52.73s , -45d 55m 46.7s) | C | 60 | 17.6 | 41593 | 2020-04-09 17:07:43 | MASTER-SAAO | (07h 11m 43.07s , -45d 57m 07.0s) | C | 60 | 17.6 | 41872 | 2020-04-09 17:12:21 | MASTER-SAAO | (07h 14m 49.96s , -47d 56m 39.2s) | C | 60 | 18.9 | 41874 | 2020-04-09 17:12:23 | MASTER-SAAO | (07h 04m 23.80s , -47d 58m 01.2s) | C | 60 | 18.7 | 41951 | 2020-04-09 17:13:41 | MASTER-SAAO | (07h 21m 45.62s , -45d 55m 19.5s) | C | 60 | 18.5 | 41953 | 2020-04-09 17:13:43 | MASTER-SAAO | (07h 11m 42.50s , -45d 56m 41.0s) | C | 60 | 18.3 | 42031 | 2020-04-09 17:15:01 | MASTER-SAAO | (07h 07m 47.18s , -49d 57m 19.5s) | C | 60 | 18.8 | 42033 | 2020-04-09 17:15:03 | MASTER-SAAO | (06h 56m 54.98s , -49d 58m 41.8s) | C | 60 | 18.7 | 42111 | 2020-04-09 17:16:20 | MASTER-SAAO | (07h 06m 34.81s , -43d 55m 45.4s) | C | 60 | 19.6 | 42113 | 2020-04-09 17:16:22 | MASTER-SAAO | (06h 56m 52.02s , -43d 57m 08.0s) | C | 60 | 19.4 | 42190 | 2020-04-09 17:17:40 | MASTER-SAAO | (07h 38m 37.74s , -47d 55m 14.4s) | C | 60 | 19.6 | 42192 | 2020-04-09 17:17:42 | MASTER-SAAO | (07h 28m 11.31s , -47d 56m 33.8s) | C | 60 | 19.5 | 42270 | 2020-04-09 17:18:59 | MASTER-SAAO | (06h 58m 41.99s , -45d 55m 50.9s) | C | 60 | 19.9 | 42272 | 2020-04-09 17:19:01 | MASTER-SAAO | (06h 48m 38.51s , -45d 57m 14.1s) | C | 60 | 19.5 | 42549 | 2020-04-

09 17:23:39 | MASTER-SAAO | (07h 07m 43.08s , -49d 57m 25.9s) | C | 60 | 19.4 | 42551 | 2020-04-09 17:23:41 | MASTER-SAAO | (06h 56m 52.20s , -49d 58m 48.8s) | C | 60 | 19.2 | 42629 | 2020-04-09 17:24:59 | MASTER-SAAO | (07h 06m 33.42s , -43d 57m 24.5s) | C | 60 | 19.5 | 42631 | 2020-04-09 17:25:01 | MASTER-SAAO | (06h 56m 51.50s , -43d 58m 47.6s) | C | 60 | 19.4 | 42709 | 2020-04-09 17:26:19 | MASTER-SAAO | (07h 38m 39.65s , -47d 54m 43.1s) | C | 60 | 19.4 | 42711 | 2020-04-09 17:26:21 | MASTER-SAAO | (07h 28m 14.49s , -47d 56m 03.1s) | C | 60 | 19.3 | 42789 | 2020-04-09 17:27:39 | MASTER-SAAO | (06h 58m 43.37s , -45d 57m 53.8s) | C | 60 | 19.4 | 42791 | 2020-04-09 17:27:41 | MASTER-SAAO | (06h 48m 40.62s , -45d 59m 17.7s) | C | 60 | 19.1 | 42869 | 2020-04-09 17:28:59 | MASTER-SAAO | (07h 32m 40.81s , -49d 54m 43.5s) | C | 60 | 19.3 | 42871 | 2020-04-09 17:29:01 | MASTER-SAAO | (07h 21m 50.07s , -49d 56m 03.8s) | C | 60 | 19.2 | 42949 | 2020-04-09 17:30:18 | MASTER-SAAO | (06h 50m 47.69s , -47d 57m 13.3s) | C | 60 | 19.5 | 43030 | 2020-04-09 17:31:40 | MASTER-SAAO | (07h 15m 18.84s , -51d 56m 05.4s) | C | 60 | 19.0 | 43108 | 2020-04-09 17:32:58 | MASTER-SAAO | (07h 28m 48.21s , -43d 55m 52.0s) | C | 60 | 18.6 | 43110 | 2020-04-09 17:33:00 | MASTER-SAAO | (07h 19m 06.16s , -43d 57m 13.8s) | C | 60 | 18.3 | 43188 | 2020-04-09 17:34:18 | MASTER-SAAO | (07h 32m 35.62s , -49d 56m 36.4s) | C | 60 | 18.1 | 43190 | 2020-04-09 17:34:20 | MASTER-SAAO | (07h 21m 44.21s , -49d 57m 57.2s) | C | 60 | 18.2 | 43268 | 2020-04-09 17:35:38 | MASTER-SAAO | (06h 50m 54.05s , -47d 57m 59.1s) | C | 60 | 17.9 | 43350 | 2020-04-09 17:36:59 | MASTER-SAAO | (07h 15m 21.00s , -51d 56m 27.2s) | C | 60 | 17.5 | 43429 | 2020-04-09 17:38:19 | MASTER-SAAO | (07h 19m 03.37s , -43d 57m 56.7s) | C | 60 | 17.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200409A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27512, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB 200409A (J.D. Gropp et al., GCN 27509) errorbox 49717 sec after notice time and 49742 sec after trigger time at 2020-04-09 17:09:01 UT, with upper limit up to 19.1 mag. Observations started at twilight. The observations began at zenith distance = 44 deg. The sun altitude is -10.2 deg. The galactic latitude b = -47 deg., longitude l = 259 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1333122 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 49832 | MASTER-SAAO | C | 180 | 19.1 | 49834 | MASTER-SAAO | C | 180 | 19.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200407A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27508, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200407A (Fermi GBM team, GCN 27502) errorbox 71781 sec after notice time and 71810 sec after trigger time at 2020-04-08 02:18:51 UT, with upper limit up to 17.3 mag. Observations started at twilight. The observations began at zenith distance = 43 deg. The sun altitude is -10.0 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200407A errorbox 73424 sec after notice time and 73453 sec after trigger time at 2020-04-08 02:46:14 UT, with upper limit up to 19.0 mag. The observations began at zenith distance = 42 deg. The sun altitude is -28.0 deg. The galactic latitude b = 7 deg., longitude l = 35 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1331640 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 71840 | 2020-04-08 02:18:51 | MASTER-Tavrida | (18h 24m 07.18s , +02d 04m 24.6s) | C | 60 | 17.3 | 71922 | 2020-04-08 02:20:13 | MASTER-Tavrida | (18h 26m 04.20s , +04d 04m 46.0s) | C | 60 | 17.1 | 72002 | 2020-04-08 02:21:33 | MASTER-Tavrida | (18h 40m 01.92s , +02d 02m 23.3s) | C | 60 | 17.3 | 72083 | 2020-04-08 02:22:54 | MASTER-Tavrida | (18h 42m 09.65s , +04d 04m 08.4s) | C | 60 | 16.6 | 73483 | 2020-04-08 02:46:14 | MASTER-SAAO | (18h 32m 17.25s , +06d 02m 07.6s) | C | 60 | 18.0 | 73485 | 2020-04-08 02:46:16 | MASTER-SAAO | (18h 25m 13.14s , +06d 01m 29.1s) | C | 60 | 18.4 | 73563 | 2020-04-08 02:47:34 | MASTER-SAAO | (18h 42m 14.60s , +00d 01m 03.1s) | C | 60 | 18.5 | 73565 | 2020-04-08 02:47:36 | MASTER-SAAO | (18h 35m 12.38s , +00d 00m 22.6s) | C | 60 | 18.8 | 73643 | 2020-04-08 02:48:54 | MASTER-SAAO | (18h 26m 09.48s , +00d 00m 01.7s) | C | 60 | 19.0 | 73644 | 2020-04-08 02:48:55 | MASTER-SAAO | (18h 19m 07.13s , -00d 00m 41.0s) | C | 60 | 18.9 | 73723 | 2020-04-08 02:50:14 | MASTER-SAAO | (18h 26m 56.94s , -01d 59m 42.6s) | C | 60 | 19.0 | 73724 | 2020-04-08 02:50:15 | MASTER-SAAO | (18h 19m 54.16s , -02d 00m 26.0s) | C | 60 | 19.0 | 73802 | 2020-04-08 02:51:33 | MASTER-SAAO | (18h 32m 20.77s , +06d 01m 54.1s) | C | 60 | 18.0 | 73804 | 2020-04-08 02:51:35 | MASTER-SAAO | (18h 25m 16.17s , +06d 01m 08.2s) | C | 60 | 18.4 | 73882 | 2020-04-08 02:52:53 | MASTER-SAAO | (18h 42m 13.17s , +00d 00m 21.9s) | C | 60 | 18.6 | 73883 | 2020-04-08 02:52:54 | MASTER-SAAO | (18h 35m 10.60s , -00d 00m 23.7s) | C | 60 | 18.8 | 73962 | 2020-04-08 02:54:13 | MASTER-SAAO | (18h 26m 17.09s , +00d 01m 49.6s) | C | 60 | 19.0 | 73963 | 2020-04-08 02:54:14 | MASTER-SAAO | (18h 19m 14.43s , +00d 01m 02.6s) | C | 60 | 18.9 | 74042 | 2020-04-08 02:55:33 | MASTER-SAAO | (18h 26m 49.97s , -01d 59m 03.8s) | C | 60 | 19.0 | 74043 | 2020-04-08 02:55:34 | MASTER-SAAO | (18h 19m 46.93s , -01d 59m 51.0s) | C | 60 | 19.0 | 74121 | 2020-04-08 02:56:52 | MASTER-SAAO | (18h 42m 50.82s , -01d 58m 11.5s) | C | 60 | 18.1 | 74123 | 2020-04-08 02:56:54 | MASTER-SAAO | (18h 35m 47.78s , -01d 58m 58.9s) | C | 60 | 18.4 | 74201 | 2020-04-08 02:58:12 | MASTER-SAAO | (18h 37m 12.32s , +08d 00m 53.1s) | C | 60 | 17.6 | 74203 | 2020-04-08 02:58:14 | MASTER-SAAO | (18h 30m 05.81s , +08d 00m 03.3s) | C | 60 | 18.1 | 74281 | 2020-04-08 02:59:32 | MASTER-SAAO | (18h 48m 23.04s , +05d 59m 52.9s) | C | 60 | 18.5 | 74282 | 2020-04-08 02:59:33 | MASTER-SAAO | (18h 41m 18.29s , +05d 59m 03.7s) | C | 60 | 18.1 | 74362 | 2020-04-08 03:00:53 | MASTER-SAAO | (18h 05m 53.92s , +03d 59m 33.9s) | C | 60 | 18.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200407B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27507, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the Fermi GRB 200407B (Fermi GBM team, GCN 27503) errorbox 7492 sec after notice time and 7519 sec after trigger time at 2020-04-07 11:23:52 UT, with upper limit up to 16.3 mag. Observations started at twilight. The observations began at zenith distance = 37 deg. The sun altitude is -11.7 deg. MASTER-Tunka robotic telescope located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB 200407B errorbox 17824 sec after notice time and 17851 sec after trigger time at 2020-04-07 14:16:05 UT, with upper limit up to 16.3 mag. The observations began at zenith distance = 25 deg. The sun altitude is -21.1 deg. The galactic latitude b = 78 deg., longitude l = 168 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1331904 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 7549 | 2020-04-07 11:23:52 | MASTER-Amur | (12h 07m 14.05s , +36d 05m 39.6s) | C | 60 | 13.1 | 7629 | 2020-04-07 11:25:12 | MASTER-Amur | (12h 06m 19.90s , +38d 05m 44.5s) | C | 60 | 13.8 | 7708 | 2020-04-07 11:26:31 | MASTER-Amur | (11h 47m 25.63s , +36d 05m 58.9s) | C | 60 | 13.6 | 7788 | 2020-04-07 11:27:51 | MASTER-Amur | (11h 45m 57.49s , +38d 04m 11.2s) | C | 60 | 13.3 | 7869 | 2020-04-07 11:29:12 | MASTER-Amur | (12h 07m 09.40s , +36d 05m 38.2s) | C | 60 | 15.0 | 7948 | 2020-04-07 11:30:31 | MASTER-Amur | (12h 17m 08.22s , +36d 05m 08.7s) | C | 60 | 13.4 | 8107 | 2020-04-07 11:33:10 | MASTER-Amur | (12h 16m 29.87s , +38d 05m 30.4s) | C | 60 | 13.6 | 8194 | 2020-04-07 11:34:37 | MASTER-Amur | (11h 47m 26.05s , +36d 07m 58.4s) | C | 60 | 13.0 | 8273 | 2020-04-07 11:35:56 | MASTER-Amur | (11h 57m 19.88s , +36d 06m 41.2s) | C | 60 | 12.9 | 8353 | 2020-04-07 11:37:16 | MASTER-Amur | (11h 46m 02.55s , +38d 04m 59.2s) | C | 60 | 14.6 | 8433 | 2020-04-07 11:38:36 | MASTER-Amur | (11h 56m 04.71s , +38d 04m 25.1s) | C | 60 | 15.4 | 8512 | 2020-04-07 11:39:55 | MASTER-Amur | (12h 17m 03.64s , +36d 05m 54.6s) | C | 60 | 14.1 | 8672 | 2020-04-07 11:42:35 | MASTER-Amur | (11h 57m 16.86s , +36d 05m 16.8s) | C | 60 | 14.9 | 8751 | 2020-04-07 11:43:54 | MASTER-Amur | (11h 56m 11.71s , +38d 05m 33.6s) | C | 60 | 14.8 | 9123 | 2020-04-07 11:50:06 | MASTER-Amur | (12h 06m 14.57s , +40d 05m 36.8s) | C | 60 | 14.7 | 9202 | 2020-04-07 11:51:25 | MASTER-Amur | (12h 26m 55.64s , +36d 06m 28.4s) | C | 60 | 14.3 | 9282 | 2020-04-07 11:52:45 | MASTER-Amur | (12h 26m 39.43s , +38d 06m 51.3s) | C | 60 | 13.8 | 9361 | 2020-04-07 11:54:04 | MASTER-Amur | (11h 45m 24.89s , +40d 03m 05.9s) | C | 60 | 14.1 | 9441 | 2020-04-07 11:55:24 | MASTER-Amur | (12h 06m 14.59s , +40d 04m 55.9s) | C | 60 | 14.1 | 9520 | 2020-04-07 11:56:43 | MASTER-Amur | (12h 16m 40.51s , +40d 04m 18.2s) | C | 60 | 14.7 | 9602 | 2020-04-07 11:58:05 | MASTER-Amur | (12h 27m 03.07s , +36d 06m 17.5s) | C | 60 | 15.7 | 9681 | 2020-04-07 11:59:24 | MASTER-Amur | (12h 36m 50.78s , +36d 03m 54.2s) | C | 60 | 14.5 | 9844 | 2020-04-07 12:02:07 | MASTER-Amur | (12h 36m 48.63s , +38d 04m 32.0s) | C | 60 | 15.5 | 9923 | 2020-04-07 12:03:26 | MASTER-Amur | (11h 45m 19.29s , +40d 04m 10.0s) | C | 60 | 15.0 | 10003 | 2020-04-07 12:04:46 | MASTER-Amur | (11h 55m 52.29s , +40d 04m 36.0s) | C | 60 | 14.4 | 10162 | 2020-04-07 12:07:25 | MASTER-Amur | (12h 36m 52.89s , +36d 06m 03.5s) | C | 60 | 13.3 | 10310 | 2020-04-07 12:09:53 | MASTER-Amur | (12h 07m 01.81s , +42d 05m 01.9s) | C | 60 | 14.3 | 10389 | 2020-04-07 12:11:12 | MASTER-Amur | (11h 55m 50.71s , +40d 04m 53.6s) | C | 60 | 14.0 | 10469 | 2020-04-07 12:12:32 | MASTER-Amur | (12h 27m 12.24s , +40d 04m 45.9s) | C | 60 | 14.1 | 10628 | 2020-04-07 12:15:11 | MASTER-Amur | (12h 07m 09.67s , +42d 07m 02.7s) | C | 60 | 13.7 |

10787 | 2020-04-07 12:17:50 | MASTER-Amur | (12h 27m 06.29s , +40d 08m 07.2s) | C | 60 | 14.3 | 11025 | 2020-04-07 12:21:48 | MASTER-Amur | (11h 40m 04.62s , +34d 04m 41.7s) | C | 60 | 16.1 | 11344 | 2020-04-07 12:27:07 | MASTER-Amur | (11h 40m 00.89s , +34d 04m 58.1s) | C | 60 | 16.3 | 17882 | 2020-04-07 14:16:05 | MASTER-Tunka | (12h 06m 00.94s , +35d 58m 51.6s) | C | 60 | 15.0 | 17961 | 2020-04-07 14:17:24 | MASTER-Tunka | (12h 05m 04.45s , +37d 58m 16.5s) | C | 60 | 15.5 | 21594 | 2020-04-07 15:17:57 | MASTER-Tunka | (11h 46m 00.82s , +36d 01m 12.7s) | C | 60 | 15.8 | 21673 | 2020-04-07 15:19:16 | MASTER-Tunka | (11h 56m 03.63s , +36d 00m 06.7s) | C | 60 | 15.8 | 21752 | 2020-04-07 15:20:35 | MASTER-Tunka | (12h 15m 46.01s , +35d 58m 50.6s) | C | 60 | 16.0 | 21832 | 2020-04-07 15:21:55 | MASTER-Tunka | (12h 15m 11.13s , +37d 58m 57.0s) | C | 60 | 15.9 | 21991 | 2020-04-07 15:24:34 | MASTER-Tunka | (11h 55m 59.05s , +35d 59m 29.1s) | C | 60 | 15.2 | 22254 | 2020-04-07 15:28:57 | MASTER-Tunka | (12h 25m 44.31s , +35d 59m 06.2s) | C | 60 | 15.6 | 22492 | 2020-04-07 15:32:55 | MASTER-Tunka | (11h 54m 40.89s , +38d 00m 25.3s) | C | 60 | 16.0 | 22572 | 2020-04-07 15:34:15 | MASTER-Tunka | (12h 04m 46.24s , +40d 01m 19.3s) | C | 60 | 16.3 | 22651 | 2020-04-07 15:35:34 | MASTER-Tunka | (12h 15m 21.43s , +40d 00m 11.3s) | C | 60 | 16.3 | 22731 | 2020-04-07 15:36:53 | MASTER-Tunka | (12h 25m 37.12s , +35d 59m 05.4s) | C | 60 | 15.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200406.3: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27504, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Baksan Neutrino Observatory Alert 200406.3 (trigger No 1636873626,14h 39m 36.00s , -17d 18m 00.0s, R=3) errorbox 2412 sec after notice time and 3188 sec after trigger time at 2020-04-06 08:00:15 UT, with upper limit up to 18.0 mag. The observations began at zenith distance = 29 deg. The sun altitude is -36.7 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Baksan Neutrino Observatory Alert 200406.3 errorbox 2412 sec after notice time and 41601 sec after trigger time at 2020-04-06 18:40:28 UT, with upper limit up to 17.1 mag. The observations began at zenith distance = 79 deg. The sun altitude is -29.4 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) started inspect of the Baksan Neutrino Observatory Alert 200406.3 errorbox 2412 sec after notice time and 74667 sec after trigger time at 2020-04-07 03:51:33 UT, with upper limit up to 18.8 mag. Observations started at twilight. The observations began at zenith distance = 51 deg. The sun altitude is -14.1 deg. The galactic latitude b = 38 deg., longitude l = 337 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1330768 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 3219 | 2020-04-06 08:00:15 | MASTER-OAFA | (14h 29m 31.56s , -17d 53m 50.3s) | C | 60 | 18.0 | 3522 | 2020-04-06 08:05:17 | MASTER-OAFA | (14h 36m 53.04s , -15d 53m 08.7s) | C | 60 | 17.9 | 41632 | 2020-04-06 18:40:28 | MASTER-Kislovodsk | (14h 28m 34.58s , -13d 50m 15.4s) | C | 60 | 16.5 | 41632 | 2020-04-06 18:40:28 | MASTER-Kislovodsk | (14h 36m 49.18s , -14d 18m 22.9s) | C | 60 | 16.5 | 41873 | 2020-04-06 18:44:29 | MASTER-Kislovodsk | (14h 28m 18.81s , -16d 19m 09.5s) | C | 60 | 16.7 | 41873 | 2020-04-06 18:44:29 | MASTER-Kislovodsk | (14h 19m 58.48s , -15d 51m 05.7s) | C | 60 | 16.8 | 42210 | 2020-04-06 18:50:06 | MASTER-Kislovodsk | (14h 28m 36.55s , -13d 49m 15.4s) | C | 60 | 16.8 | 42210 | 2020-04-06 18:50:06 | MASTER-Kislovodsk | (14h 36m 51.81s , -14d 17m 18.9s) | C | 60 | 16.7 | 42290 | 2020-04-06 18:51:26 | MASTER-Kislovodsk | (14h 19m 58.46s , -15d 49m 55.9s) | C | 60 | 16.8 | 42290 | 2020-04-06 18:51:26 | MASTER-Kislovodsk | (14h 28m 18.38s , -16d 18m 01.6s) | C | 60 | 16.9 | 42371 | 2020-04-06 18:52:47 | MASTER-Kislovodsk | (14h 20m 47.81s , -18d 16m 54.3s) | C | 60 | 16.8 | 42842 | 2020-04-06 19:00:38 | MASTER-Kislovodsk | (14h 20m 51.53s , -18d 17m 00.2s) | C | 60 | 16.9 | 43003 | 2020-04-06 19:03:19 | MASTER-Kislovodsk | (14h 36m 45.43s , -15d 49m 11.6s) | C | 60 | 16.8 | 43003 | 2020-04-06 19:03:19 | MASTER-Kislovodsk | (14h 45m 04.95s , -16d 17m 28.9s) | C | 60 | 17.0 | 43084 | 2020-04-06 19:04:40 | MASTER-Kislovodsk | (14h 29m 11.66s , -17d 49m 56.3s) | C | 60 | 16.7 | 43084 | 2020-04-06 19:04:40 | MASTER-Kislovodsk | (14h 37m 36.49s , -18d 18m 15.7s) | C | 60 | 16.9 | 43164 | 2020-04-06 19:06:00 | MASTER-Kislovodsk | (14h 53m 13.71s , -14d 17m 43.3s) | C | 60 | 17.1 | 43244 | 2020-04-06 19:07:20 | MASTER-Kislovodsk | (14h 22m 45.29s , -19d 49m 42.6s) | C | 60 | 17.0 | 43244 | 2020-04-06 19:07:20 | MASTER-Kislovodsk | (14h 31m 16.20s , -20d 18m 07.6s) | C | 60 | 16.9 | 43325 | 2020-04-06 19:08:41 | MASTER-Kislovodsk | (14h 36m 38.18s , -15d 51m 07.6s) | C | 60 | 17.0 | 43325 | 2020-04-06 19:08:41 | MASTER-Kislovodsk | (14h 44m 58.03s , -16d 19m 27.5s) | C | 60 | 17.1 | 43406 | 2020-04-06 19:10:01 | MASTER-Kislovodsk | (14h 29m 16.79s , -17d 50m 40.6s) | C | 60 | 16.9 | 43406 | 2020-04-06 19:10:01 | MASTER-Kislovodsk | (14h 37m 42.01s , -18d 19m 03.2s) | C | 60 | 17.0 | 43486 | 2020-04-06 19:11:22 | MASTER-Kislovodsk | (14h 45m 02.00s , -13d 49m 24.1s) | C | 60 | 17.1 | 43486 | 2020-04-06 19:11:22 | MASTER-Kislovodsk | (14h 53m 17.40s , -14d 17m 42.5s) | C | 60 | 17.1 | 74697 | 2020-04-07 03:51:33 | MASTER-SAAO | (14h 36m 40.84s , -17d 53m 36.1s) | C | 60 | 18.3 | 74698 | 2020-04-07 03:51:34 | MASTER-SAAO | (14h 29m 15.75s , -17d 54m 29.1s) | C | 60 | 18.1 | 74777 | 2020-04-07 03:52:53 | MASTER-SAAO | (14h 44m 04.41s , -15d 54m 27.9s) | C | 60 | 18.6 | 74778 | 2020-04-07 03:52:54 | MASTER-SAAO | (14h 36m 43.86s , -15d 55m 22.4s) | C | 60 | 18.3 | 74857 | 2020-04-07 03:54:13 | MASTER-SAAO | (14h 53m 28.68s , -17d 55m 38.5s) | C | 60 | 18.8 | 74858 | 2020-04-07 03:54:14 | MASTER-SAAO | (14h 46m 03.20s , -17d 56m 31.9s) | C | 60 | 18.5 | 74937 | 2020-04-07 03:55:32 | MASTER-SAAO | (14h 47m 24.70s , -19d 55m 37.5s) | C | 60 | 18.5 | 74938 | 2020-04-07 03:55:34 | MASTER-SAAO | (14h 39m 53.72s , -19d 56m 30.3s) | C | 60 | 18.3 | 75016 | 2020-04-07 03:56:52 | MASTER-SAAO | (14h 36m 44.17s , -17d 54m 03.3s) | C | 60 | 18.2 | 75017 | 2020-04-07 03:56:53 | MASTER-SAAO | (14h 29m 18.68s , -17d 54m 56.7s) | C | 60 | 18.0 | 75096 | 2020-04-07 03:58:12 | MASTER-SAAO | (14h 44m 01.98s , -15d 55m 24.4s) | C | 60 | 18.5 | 75097 | 2020-04-07 03:58:13 | MASTER-SAAO | (14h 36m 41.07s , -15d 56m 17.7s) | C | 60 | 18.2 | 75176 | 2020-04-07 03:59:32 | MASTER-SAAO | (14h 53m 35.18s , -17d 53m 47.0s) | C | 60 | 18.6 | 75177 | 2020-04-07 03:59:33 | MASTER-SAAO | (14h 46m 09.43s , -17d 54m 39.0s) | C | 60 | 18.3 | 75256 | 2020-04-07 04:00:51 | MASTER-SAAO | (14h 47m 19.05s , -19d 54m 45.2s) | C | 60 | 18.3 | 75257 | 2020-04-07 04:00:53 | MASTER-SAAO | (14h 39m 47.79s , -19d 55m 36.6s) | C | 60 | 18.1 | 75337 | 2020-04-07 04:02:12 | MASTER-SAAO | (14h 35m 43.92s , -13d 53m 21.9s) | C | 60 | 18.0 | 75338 | 2020-04-07 04:02:13 | MASTER-SAAO | (14h 28m 27.15s , -13d 54m 14.8s) | C | 60 | 17.8 | 75416 | 2020-04-07 04:03:32 | MASTER-SAAO | (14h 27m 28.75s , -15d 54m 28.7s) | C | 60 | 17.8 | 75417 | 2020-04-07 04:03:33 | MASTER-SAAO | (14h 20m 07.81s , -15d 55m 20.7s) | C | 60 | 17.7 | 75496 | 2020-04-07 04:04:52 | MASTER-SAAO | (14h 30m 19.26s , -19d 55m 40.3s) | C | 60 | 18.0 | 75497 | 2020-04-07 04:04:53 | MASTER-SAAO | (14h 22m 47.93s , -19d 56m 31.2s) | C | 60 | 18.0 | 75576 | 2020-04-07 04:06:12 | MASTER-SAAO | (14h 52m 18.99s , -13d 55m 13.6s) | C | 60 | 17.4 | 75577 | 2020-04-07 04:06:13 | MASTER-SAAO | (14h 45m 01.80s , -13d 56m 05.2s) | C | 60 | 17.2 | 75656 | 2020-04-07 04:07:32 | MASTER-SAAO | (14h 35m 48.15s , -13d 53m 48.0s) | C | 60 | 17.3 | 75657 | 2020-04-07 04:07:33 | MASTER-SAAO | (14h 28m 31.07s , -13d 54m 39.4s) | C | 60 | 17.1 | 75736 | 2020-04-07 04:08:52 | MASTER-SAAO | (14h 27m 26.27s , -15d 55m 30.4s) | C | 60 | 17.2 | 75737 | 2020-04-07 04:08:53 | MASTER-SAAO | (14h 20m 04.97s , -15d 56m 20.7s) | C | 60 | 17.2 | 75815 | 2020-04-07 04:10:11 | MASTER-SAAO | (14h 30m 26.40s , -19d 53m 58.0s) | C | 60 | 17.3 | 75816 | 2020-04-07 04:10:12 | MASTER-SAAO | (14h 22m 54.86s , -19d 54m 47.7s) | C | 60 | 17.3 | 75895 | 2020-04-07 04:11:31 | MASTER-SAAO | (14h 52m 12.36s , -13d 54m 31.1s) | C | 60 | 16.9 | 75896 | 2020-04-07 04:11:32 | MASTER-SAAO | (14h 44m 54.88s , -13d 55m 21.6s) | C | 60 | 17.0 | 75975 | 2020-04-07 04:12:51 | MASTER-SAAO | (14h 42m 06.36s , -21d 53m 54.1s) | C | 60 | 16.7 | 75976 | 2020-04-07 04:12:52 | MASTER-SAAO | (14h 34m 28.36s , -21d 54m 42.8s) | C | 60 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200405A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27498, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200405A (Fermi GBM team, GCN 27496) errorbox 49435 sec after notice time and 49462 sec after trigger time at 2020-04-05 23:11:44 UT, with upper limit up to 16.8 mag. Observations started at twilight. The observations began at zenith distance = 47 deg. The sun altitude is -10.7 deg. The galactic latitude b = -48 deg., longitude l = 226 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1330172 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 49493 | 2020-04-05 23:11:44 | MASTER-OAFA | (03h 54m 51.61s , -30d 03m 29.4s) | C | 60 | 16.4 | 49584 | 2020-04-05 23:13:15 | MASTER-OAFA | (03h 46m 11.39s , -26d 03m 32.4s) | C | 60 | 16.4 | 49675 | 2020-04-05 23:14:46 | MASTER-OAFA | (04h 08m 21.33s , -28d 02m 21.9s) | C | 60 | 16.6 | 49766 | 2020-04-05 23:16:17 | MASTER-OAFA | (03h 50m 13.31s , -28d 01m 54.2s) | C | 60 | 16.8 | 49857 | 2020-04-05 23:17:48 | MASTER-OAFA | (03h 59m 22.88s , -28d 02m 38.1s) | C | 60 | 16.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200403C: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27494, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB 200403C (Fermi GBM team, GCN 27489) errorbox 62342 sec

after notice time and 62370 sec after trigger time at 2020-04-04 16:41:27 UT, with upper limit up to 17.3 mag. Observations started at twilight. The observations began at zenith distance = 68 deg. The sun altitude is -11.6 deg. The galactic latitude b = -32 deg., longitude l = 163 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1329210 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 62401 | 2020-04-04 16:41:27 | MASTER-Kislovodsk | (03h 11m 42.15s , +19d 58m 00.3s) | C | 60 | 16.7 | 62401 | 2020-04-04 16:41:27 | MASTER-Kislovodsk | (03h 03m 13.52s , +20d 24m 11.0s) | C | 60 | 16.7 | 62642 | 2020-04-04 16:45:29 | MASTER-Kislovodsk | (03h 28m 50.74s , +19d 56m 42.9s) | C | 60 | 17.0 | 62642 | 2020-04-04 16:45:29 | MASTER-Kislovodsk | (03h 20m 20.50s , +20d 22m 48.3s) | C | 60 | 17.0 | 62722 | 2020-04-04 16:46:49 | MASTER-Kislovodsk | (03h 11m 45.22s , +19d 57m 25.2s) | C | 60 | 17.0 | 62722 | 2020-04-04 16:46:49 | MASTER-Kislovodsk | (03h 03m 16.81s , +20d 23m 27.9s) | C | 60 | 17.0 | 62978 | 2020-04-04 16:51:05 | MASTER-Kislovodsk | (03h 28m 45.82s , +19d 57m 12.6s) | C | 60 | 17.1 | 62978 | 2020-04-04 16:51:05 | MASTER-Kislovodsk | (03h 20m 15.83s , +20d 23m 15.2s) | C | 60 | 17.3 | 63058 | 2020-04-04 16:52:25 | MASTER-Kislovodsk | (03h 14m 17.49s , +21d 57m 37.1s) | C | 60 | 16.9 | 63058 | 2020-04-04 16:52:25 | MASTER-Kislovodsk | (03h 05m 41.29s , +22d 23m 38.2s) | C | 60 | 17.0 | 63139 | 2020-04-04 16:53:46 | MASTER-Kislovodsk | (03h 26m 22.18s , +17d 56m 59.2s) | C | 60 | 16.9 | 63139 | 2020-04-04 16:53:46 | MASTER-Kislovodsk | (03h 17m 59.46s , +18d 22m 59.6s) | C | 60 | 17.0 | 63219 | 2020-04-04 16:55:06 | MASTER-Kislovodsk | (03h 31m 31.08s , +21d 56m 01.3s) | C | 60 | 17.3 | 63219 | 2020-04-04 16:55:06 | MASTER-Kislovodsk | (03h 22m 53.40s , +22d 22m 04.8s) | C | 60 | 17.2 | 63300 | 2020-04-04 16:56:27 | MASTER-Kislovodsk | (03h 17m 15.19s , +23d 55m 48.4s) | C | 60 | 16.6 | 63300 | 2020-04-04 16:56:27 | MASTER-Kislovodsk | (03h 08m 30.41s , +24d 21m 49.5s) | C | 60 | 16.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200403B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27491, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200403B (Fermi GBM team, GCN 27484) errorbox 6502 sec after notice time and 6530 sec after trigger time at 2020-04-03 23:52:54 UT, with upper limit up to 19.7 mag. The observations began at zenith distance = 33 deg. The sun altitude is -32.7 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB 200403B errorbox 9291 sec after notice time and 9319 sec after trigger time at 2020-04-04 00:39:23 UT, with upper limit up to 19.6 mag. The observations began at zenith distance = 27 deg. The sun altitude is -22.8 deg. The galactic latitude b = 34 deg., longitude l = 107 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1329159 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 6561 | 2020-04-03 23:52:54 | MASTER-Tavrida | (17h 19m 29.12s , +72d 29m 19.2s) | C | 60 | 19.0 | 6642 | 2020-04-03 23:54:15 | MASTER-Tavrida | (16h 27m 37.28s , +72d 30m 45.6s) | C | 60 | 19.0 | 8258 | 2020-04-04 00:21:11 | MASTER-Tavrida | (17h 19m 26.57s , +72d 27m 30.6s) | C | 60 | 19.2 | 8338 | 2020-04-04 00:22:31 | MASTER-Tavrida | (17h 45m 28.63s , +72d 27m 18.3s) | C | 60 | 19.0 | 8419 | 2020-04-04 00:23:52 | MASTER-Tavrida | (16h 27m 34.56s , +72d 30m 31.0s) | C | 60 | 18.8 | 9350 | 2020-04-04 00:39:23 | MASTER-Kislovodsk | (16h 57m 40.90s , +69d 44m 20.8s) | C | 60 | 19.6 | 9510 | 2020-04-04 00:42:03 | MASTER-Kislovodsk | (17h 54m 44.01s , +71d 44m 38.4s) | C | 60 | 19.1 | 9671 | 2020-04-04 00:44:44 | MASTER-Kislovodsk | (16h 57m 38.95s , +69d 45m 06.5s) | C | 60 | 19.5 | 9804 | 2020-04-04 00:46:56 | MASTER-Tavrida | (16h 53m 18.54s , +72d 30m 00.4s) | C | 60 | 18.6 | 9832 | 2020-04-04 00:47:25 | MASTER-Kislovodsk | (17h 54m 52.89s , +71d 44m 37.3s) | C | 60 | 19.1 | 9978 | 2020-04-04 00:49:51 | MASTER-Tavrida | (17h 42m 09.04s , +71d 31m 53.0s) | C | 60 | 19.1 | 10073 | 2020-04-04 00:51:26 | MASTER-Kislovodsk | (15h 43m 47.62s , +72d 31m 22.9s) | C | 60 | 17.3 | 10139 | 2020-04-04 00:52:32 | MASTER-Tavrida | (16h 50m 13.13s , +71d 34m 54.6s) | C | 60 | 19.4 | 10219 | 2020-04-04 00:53:52 | MASTER-Tavrida | (15h 26m 54.60s , +75d 37m 30.7s) | C | 60 | 19.3 | 10299 | 2020-04-04 00:55:12 | MASTER-Tavrida | (16h 33m 27.54s , +75d 36m 07.9s) | C | 60 | 19.3 | 10315 | 2020-04-04 00:55:27 | MASTER-Kislovodsk | (17h 02m 46.31s , +71d 46m 04.3s) | C | 60 | 16.7 | 11782 | 2020-04-04 01:19:55 | MASTER-Tavrida | (16h 08m 31.96s , +78d 30m 31.9s) | C | 60 | 19.5 | 11863 | 2020-04-04 01:21:16 | MASTER-Tavrida | (15h 30m 54.56s , +76d 30m 34.7s) | C | 60 | 19.4 | 11944 | 2020-04-04 01:22:37 | MASTER-Tavrida | (16h 04m 16.55s , +76d 30m 04.3s) | C | 60 | 19.5 | 12024 | 2020-04-04 01:23:57 | MASTER-Tavrida | (16h 37m 28.83s , +76d 30m 32.4s) | C | 60 | 19.5 | 12105 | 2020-04-04 01:25:18 | MASTER-Tavrida | (17h 10m 38.63s , +76d 28m 08.5s) | C | 60 | 19.3 | 12186 | 2020-04-04 01:26:39 | MASTER-Tavrida | (16h 08m 35.80s , +78d 31m 20.0s) | C | 60 | 19.7 | 12266 | 2020-04-04 01:27:59 | MASTER-Tavrida | (16h 04m 12.66s , +76d 30m 44.5s) | C | 60 | 19.5 | 13592 | 2020-04-04 01:50:05 | MASTER-Tavrida | (17h 10m 34.15s , +76d 29m 37.1s) | C | 60 | 19.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200403A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27490, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200403A (Fermi GBM team, GCN 27482) errorbox 36 sec after notice time and 64 sec after trigger time at 2020-04-03 21:31:20 UT, with upper limit up to 18.5 mag. The observations began at zenith distance = 51 deg. The sun altitude is -40.2 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB 200403A errorbox 5527 sec after notice time and 5555 sec after trigger time at 2020-04-03 23:02:52 UT, with upper limit up to 18.9 mag. The observations began at zenith distance = 62 deg. The sun altitude is -35.4 deg. The galactic latitude b = 21 deg., longitude l = 142 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1329090 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 69 | 2020-04-03 21:31:20 | MASTER-Tavrida | (06h 03m 30.97s , +73d 27m 42.3s) | C | 10 | 16.8 | 105 | 2020-04-03 21:31:51 | MASTER-Tavrida | (06h 02m 42.66s , +73d 28m 28.0s) | C | 20 | 17.4 | 1393 | 2020-04-03 21:52:59 | MASTER-Tavrida | (05h 09m 17.87s , +71d 17m 20.8s) | C | 60 | 17.6 | 1474 | 2020-04-03 21:54:19 | MASTER-Tavrida | (05h 46m 40.66s , +73d 18m 35.6s) | C | 60 | 16.8 | 2917 | 2020-04-03 22:18:23 | MASTER-Tavrida | (05h 09m 20.99s , +71d 18m 05.3s) | C | 60 | 17.7 | 2997 | 2020-04-03 22:19:43 | MASTER-Tavrida | (05h 35m 03.03s , +71d 17m 48.8s) | C | 60 | 17.8 | 3078 | 2020-04-03 22:21:04 | MASTER-Tavrida | (05h 46m 51.99s , +73d 18m 07.5s) | C | 60 | 18.0 | 3158 | 2020-04-03 22:22:24 | MASTER-Tavrida | (06h 15m 43.28s , +73d 20m 59.6s) | C | 60 | 18.0 | 4576 | 2020-04-03 22:46:02 | MASTER-Tavrida | (05h 35m 07.25s , +71d 19m 49.2s) | C | 60 | 17.9 | 4657 | 2020-04-03 22:47:23 | MASTER-Tavrida | (06h 15m 55.03s , +73d 20m 01.5s) | C | 60 | 18.1 | 4737 | 2020-04-03 22:48:43 | MASTER-Tavrida | (05h 29m 21.00s , +75d 17m 32.7s) | C | 60 | 18.2 | 4818 | 2020-04-03 22:50:04 | MASTER-Tavrida | (06h 01m 00.14s , +71d 18m 50.9s) | C | 60 | 18.0 | 4898 | 2020-04-03 22:51:24 | MASTER-Tavrida | (05h 26m 01.86s , +69d 18m 22.2s) | C | 60 | 17.8 | 5059 | 2020-04-03 22:54:05 | MASTER-Tavrida | (05h 29m 14.89s , +75d 17m 27.9s) | C | 60 | 18.2 | 5220 | 2020-04-03 22:56:46 | MASTER-Tavrida | (06h 01m 00.67s , +71d 19m 57.3s) | C | 60 | 17.0 | 5586 | 2020-04-03 23:02:52 | MASTER-Kislovodsk | (04h 56m 58.20s , +72d 18m 49.4s) | C | 60 | 18.1 | 6590 | 2020-04-03 23:19:36 | MASTER-Tavrida | (06h 26m 53.55s , +71d 21m 22.8s) | C | 60 | 18.0 | 6671 | 2020-04-03 23:20:57 | MASTER-Tavrida | (05h 26m 09.73s , +69d 18m 26.5s) | C | 60 | 17.8 | 6751 | 2020-04-03 23:22:17 | MASTER-Tavrida | (05h 49m 24.89s , +69d 18m 06.2s) | C | 60 | 17.9 | 7073 | 2020-04-03 23:27:39 | MASTER-Tavrida | (06h 26m 58.66s , +71d 20m 57.9s) | C | 60 | 18.2 | 7153 | 2020-04-03 23:28:59 | MASTER-Tavrida | (05h 49m 25.62s , +69d 19m 00.9s) | C | 60 | 17.6 | 8324 | 2020-04-03 23:48:30 | MASTER-Kislovodsk | (04h 57m 13.02s , +72d 16m 06.6s) | C | 60 | 18.2 | 8404 | 2020-04-03 23:49:50 | MASTER-Kislovodsk | (05h 22m 51.79s , +72d 15m 25.0s) | C | 60 | 18.3 | 8485 | 2020-04-03 23:51:11 | MASTER-Kislovodsk | (05h 32m 54.85s , +74d 17m 11.2s) | C | 60 | 18.6 | 8646 | 2020-04-03 23:53:51 | MASTER-Kislovodsk | (05h 15m 12.48s , +70d 17m 16.5s) | C | 60 | 18.1 | 8726 | 2020-04-03 23:55:12 | MASTER-Kislovodsk | (05h 23m 00.88s , +72d 16m 18.3s) | C | 60 | 18.3 | 8806 | 2020-04-03 23:56:32 | MASTER-Kislovodsk | (05h 32m 55.40s , +74d 15m 21.6s) | C | 60 | 18.6 | 8887 | 2020-04-03 23:57:53 | MASTER-Kislovodsk | (06h 01m 51.41s , +74d 15m 53.8s) | C | 60 | 18.7 | 9208 | 2020-04-04 00:03:14 | MASTER-Kislovodsk | (05h 38m 34.54s , +70d 16m 27.1s) | C | 60 | 18.2 | 9288 | 2020-04-04 00:04:34 | MASTER-Kislovodsk | (06h 01m 49.69s , +74d 17m 41.1s) | C | 60 | 18.8 | 9449 | 2020-04-04 00:07:15 | MASTER-Kislovodsk | (05h 48m 50.54s , +72d 15m 52.3s) | C | 60 | 18.5 | 9529 | 2020-04-04 00:08:35 | MASTER-Kislovodsk | (05h 38m 38.45s , +70d 17m 08.3s) | C | 60 | 18.2 | 9770 | 2020-04-04 00:12:36 | MASTER-Kislovodsk | (05h 48m 52.83s , +72d 16m 24.0s) | C | 60 | 18.6 | 9851 | 2020-04-04 00:13:56 | MASTER-Kislovodsk | (06h 14m 31.83s , +72d 15m 46.9s) | C | 60 | 18.9 | 10203 | 2020-04-04 00:19:49 | MASTER-Tavrida | (05h 18m 04.58s , +73d 18m 13.7s) | C | 60 | 18.2 | 10252 | 2020-04-04 00:20:38 | MASTER-Kislovodsk | (06h 14m 34.61s , +72d 16m 39.5s) | C | 60 | 18.9 | 10654 | 2020-04-04 00:27:20 | MASTER-Kislovodsk | (06h 01m 57.31s , +70d 16m 29.3s) | C | 60 | 18.7 | 11055 | 2020-04-04 00:34:01 | MASTER-Kislovodsk | (06h 02m 05.17s , +70d 18m 17.8s) | C | 60 | 18.8 | 11136 | 2020-04-04 00:35:22 | MASTER-Kislovodsk | (06h 25m 21.54s , +70d 17m 10.1s) | C | 60 | 18.8 | 11457 | 2020-04-04 00:40:43 | MASTER-Kislovodsk | (06h 25m 17.95s , +70d 16m 36.9s) | C | 60 | 18.9 | 11925 | 2020-04-04 00:48:30 | MASTER-Tavrida | (05h 21m 22.25s , +74d 11m 54.5s) | C | 60 | 18.5 | 16683 | 2020-04-04 02:07:49 | MASTER-Tavrida | (05h 05m 39.87s , +70d 10m 30.5s) | C | 60 | 18.0 | 16923 | 2020-04-04 02:11:49 | MASTER-Tavrida | (06h 15m 46.19s , +70d 14m 23.5s) | C | 60 | 18.1 | 17047 | 2020-04-04 02:13:53 | MASTER-Tavrida | (05h 05m 33.52s , +70d 11m 27.4s) | C | 60 | 17.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200402C: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27480, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB 200402C (Fermi GBM team, GCN 27479) errorbox 795 sec after notice time and 824 sec after trigger time at 2020-04-02 20:00:07 UT, with upper limit up to 18.8 mag. The observations began at zenith distance = 71 deg. The sun altitude is -38.9 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200402C errorbox 3198 sec after notice time and 3226 sec after trigger time at 2020-04-02 20:40:09 UT, with upper limit up to 17.5 mag. The observations began at zenith distance = 64 deg. The sun altitude is -38.5 deg. The galactic latitude b = 41 deg., longitude l = 351 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1328483 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 914 | 2020-04-02 20:00:07 | MASTER-Kislovodsk | (15h 39m 46.92s , -02d 19m 10.2s) | C | 180 | 18.5 | 1342 | 2020-04-02 20:07:15 | MASTER-Kislovodsk | (15h 41m 28.75s , -04d 17m 34.1s) | C | 180 | 18.5 | 1543 | 2020-04-02 20:10:36 | MASTER-Kislovodsk | (15h 39m 42.18s , -02d 18m 24.0s) | C | 180 | 18.8 | 1744 | 2020-04-02 20:13:56 | MASTER-Kislovodsk | (15h 44m 19.40s , -06d 18m 32.7s) | C | 180 | 18.7 | 1884 | 2020-04-02 20:17:17 | MASTER-Kislovodsk | (14h 59m 55.59s , -08d 17m 44.2s) | C | 60 | 18.4 | 1965 | 2020-04-02 20:18:37 | MASTER-Kislovodsk | (15h 04m 49.88s , -10d 17m 55.1s) | C | 60 | 18.2 | 2045 | 2020-04-02 20:19:58 | MASTER-Kislovodsk | (14h 56m 01.60s , -06d 17m 06.3s) | C | 60 | 18.6 | 2126 | 2020-04-02 20:21:18 | MASTER-Kislovodsk | (15h 12m 12.24s , -06d 17m 29.7s) | C | 60 | 18.1 | 2466 | 2020-04-02 20:25:59 | MASTER-Kislovodsk | (15h 41m 29.86s , -04d 18m 49.1s) | C | 180 | 18.8 | 2868 | 2020-04-02 20:32:40 | MASTER-Kislovodsk | (15h 44m 17.84s , -06d 18m 41.3s) | C | 180 | 18.6 | 3209 | 2020-04-02 20:39:22 | MASTER-Kislovodsk | (14h 59m 51.89s , -08d 16m 45.8s) | C | 60 | 18.4 | 3257 | 2020-04-02 20:40:09 | MASTER-Tavrida | (14h 57m 13.88s , -03d 29m 26.4s) | C | 60 | 15.2 | 3290 | 2020-04-02 20:40:42 | MASTER-Kislovodsk | (15h 07m 57.40s , -08d 15m 55.7s) | C | 60 | 18.3 | 3370 | 2020-04-02 20:42:03 | MASTER-Kislovodsk | (15h 04m 56.13s , -10d 16m 49.8s) | C | 60 | 18.3 | 3451 | 2020-04-02 20:43:24 | MASTER-Kislovodsk | (15h 12m 55.89s , -10d 18m 00.2s) | C | 60 | 18.3 | 3531 | 2020-04-02 20:44:44 | MASTER-Kislovodsk | (14h 56m 09.67s , -06d 17m 04.1s) | C | 60 | 18.6 | 3612 | 2020-04-02 20:46:04 | MASTER-Kislovodsk | (15h 04m 09.25s , -06d 15m 45.8s) | C | 60 | 18.4 | 3692 | 2020-04-02 20:47:25 | MASTER-Kislovodsk | (15h 12m 10.84s , -06d 17m 24.2s) | C | 60 | 18.4 | 3773 | 2020-04-02 20:48:45 | MASTER-Kislovodsk | (15h 20m 16.38s , -06d 16m 07.6s) | C | 60 | 18.5 | 3819 | 2020-04-02 20:49:32 | MASTER-Tavrida | (15h 05m 20.26s , -03d 28m 42.8s) | C | 60 | 15.7 | 4141 | 2020-04-02 20:54:53 | MASTER-Tavrida | (14h 55m 36.26s , -01d 28m 41.2s) | C | 60 | 17.4 | 4221 | 2020-04-02 20:56:14 | MASTER-Tavrida | (14h 42m 24.22s , -11d 28m 11.8s) | C | 60 | 16.3 | 4302 | 2020-04-02 20:57:34 | MASTER-Tavrida | (14h 41m 17.34s , -03d 29m 15.5s) | C | 60 | 17.4 | 4455 | 2020-04-02 21:00:08 | MASTER-Kislovodsk | (15h 07m 59.11s , -08d 17m 23.8s) | C | 60 | 18.3 | 4535 | 2020-04-02 21:01:28 | MASTER-Kislovodsk | (15h 13m 04.45s , -10d 17m 09.9s) | C | 60 | 18.3 | 4543 | 2020-04-02 21:01:36 | MASTER-Tavrida | (14h 55m 41.60s , -01d 28m 02.6s) | C | 60 | 17.5 | 4616 | 2020-04-02 21:02:48 | MASTER-Kislovodsk | (15h 04m 10.48s , -06d 15m 39.0s) | C | 60 | 18.4 | 4624 | 2020-04-02 21:02:56 | MASTER-Tavrida | (15h 03m 36.08s , -01d 28m 52.9s) | C | 60 | 17.5 | 4696 | 2020-04-02 21:04:09 | MASTER-Kislovodsk | (15h 20m 14.75s , -06d 17m 33.2s) | C | 60 | 18.2 | 4704 | 2020-04-02 21:04:17 | MASTER-Tavrida | (14h 42m 19.74s , -11d 27m 19.2s) | C | 60 | 17.0 | 4776 | 2020-04-02 21:05:29 | MASTER-Kislovodsk | (14h 45m 21.39s , -14d 15m 54.5s) | C | 60 | 18.2 | 4785 | 2020-04-02 21:05:37 | MASTER-Tavrida | (14h 50m 35.10s , -11d 28m 24.6s) | C | 60 | 16.2 | 4856 | 2020-04-02 21:06:49 | MASTER-Kislovodsk | (15h 25m 32.44s , -04d 16m 40.2s) | C | 60 | 18.3 | 4865 | 2020-04-02 21:06:58 | MASTER-Tavrida | (14h 41m 12.31s , -03d 29m 30.5s) | C | 60 | 17.4 | 4937 | 2020-04-02 21:08:10 | MASTER-Kislovodsk | (15h 28m 20.50s , -06d 17m 26.3s) | C | 60 | 18.2 | 4946 | 2020-04-02 21:08:19 | MASTER-Tavrida | (14h 49m 17.89s , -03d 29m 21.3s) | C | 60 | 17.4 | 5018 | 2020-04-02 21:09:30 | MASTER-Kislovodsk | (14h 32m 27.83s , -10d 16m 08.1s) | C | 60 | 18.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 607537834: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27477, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB200402.69 (trigger No 607537834,12h 40m 21.60s , -06d 36m 00.0s, R=6.5) errorbox 1354 sec after notice time and 1382 sec after trigger time at 2020-04-02 16:53:32 UT, with upper limit up to 18.5 mag. The observations began at zenith distance = 61 deg. The sun altitude is -33.7 deg. The galactic latitude b = 56 deg., longitude l = 299 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1328400 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 1472 | 2020-04-02 16:53:32 | MASTER-Tunka | (12h 54m 32.61s , -10d 03m 51.8s) | P| | 180 | 18.4 | 1672 | 2020-04-02 16:56:51 | MASTER-Tunka | (12h 54m 38.75s , -10d 04m 55.1s) | P| | 180 | 18.4 | 1872 | 2020-04-02 17:00:11 | MASTER-Tunka | (12h 54m 32.29s , -10d 05m 55.3s) | P| | 180 | 18.4 | 2072 | 2020-04-02 17:03:31 | MASTER-Tunka | (12h 54m 39.51s , -10d 05m 38.4s) | P| | 180 | 18.5 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200402A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27475, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the Fermi GRB 200402A (Fermi GBM team, GCN 27472) errorbox 5729 sec after notice time and 5754 sec after trigger time at 2020-04-02 11:15:32 UT, with upper limit up to 17.0 mag. Observations started at twilight. The observations began at zenith distance = 55 deg. The sun altitude is -11.9 deg. The galactic latitude b = -12 deg., longitude l = 151 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1328194 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 5785 | 2020-04-02 11:15:32 | MASTER-Amur | (02h 52m 11.07s , +43d 55m 08.3s) | C | 60 | 15.8 | 5864 | 2020-04-02 11:16:52 | MASTER-Amur | (02h 46m 41.32s , +41d 54m 04.5s) | C | 60 | 15.8 | 5944 | 2020-04-02 11:18:11 | MASTER-Amur | (02h 58m 14.77s , +45d 54m 24.0s) | C | 60 | 16.1 | 6105 | 2020-04-02 11:20:53 | MASTER-Amur | (02h 52m 05.11s , +43d 55m 55.5s) | C | 60 | 16.7 | 6185 | 2020-04-02 11:22:12 | MASTER-Amur | (03h 03m 17.29s , +43d 54m 57.2s) | C | 60 | 17.0 | 6264 | 2020-04-02 11:23:32 | MASTER-Amur | (02h 46m 34.49s , +41d 53m 50.0s) | C | 60 | 16.6 | 6344 | 2020-04-02 11:24:51 | MASTER-Amur | (02h 57m 26.77s , +41d 54m 01.6s) | C | 60 | 16.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi GRB 200401A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27470, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the Fermi GRB 200401A (Fermi GBM team, GCN 27469) errorbox 15214 sec after notice time and 15242 sec after trigger time at 2020-04-01 11:14:30 UT, with upper limit up to 17.5 mag. Observations started at twilight. The observations began at zenith distance = 34 deg. The sun altitude is -12.0 deg. The galactic latitude b = 37 deg., longitude l = 216 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1327489 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 15272 | 2020-04-01 11:14:30 | MASTER-Amur | (09h 27m 57.60s , +18d 03m 51.2s) | C | 60 | 17.2 | 15352 | 2020-04-01 11:15:50 | MASTER-Amur | (09h 21m 55.66s , +16d 03m 03.0s) | C | 60 | 17.2 | 15431 | 2020-04-01 11:17:09 | MASTER-Amur | (09h 38m 32.22s , +16d 03m 05.9s) | C | 60 | 17.1 | 15510 | 2020-04-01 11:18:29 | MASTER-Amur | (09h 34m 43.85s , +20d 03m 44.3s) | C | 60 | 17.2 | 15590 | 2020-04-01 11:19:48 | MASTER-Amur | (09h 27m 53.86s , +18d 04m 43.8s) | C | 60 | 17.2 | 15669 | 2020-04-01 11:21:08 | MASTER-Amur | (09h 36m 23.78s , +18d 03m 45.9s) | C | 60 | 17.2 | 15750 | 2020-04-01 11:22:28 | MASTER-Amur | (09h 21m 51.89s , +16d 02m 42.0s) | C | 60 | 17.2 | 15829 | 2020-04-01 11:23:47 | MASTER-Amur | (09h 30m 15.73s , +16d 02m 54.4s) | C | 60 | 17.2 | 15909 | 2020-04-01 11:25:07 | MASTER-Amur | (09h 38m 32.58s , +16d 04m 21.2s) | C | 60 | 17.0 | 15988 | 2020-04-01 11:26:27 | MASTER-Amur | (09h 46m 51.33s , +16d 03m 13.6s) | C | 60 | 17.1 | 16073 | 2020-04-01 11:27:51 | MASTER-Amur | (09h 34m 51.09s , +20d 04m 22.2s) | C | 60 | 17.2 | 16157 | 2020-04-01 11:29:16 | MASTER-Amur | (09h 43m 14.92s , +20d 03m 41.7s) | C | 60 | 17.1 | 16247 | 2020-04-01 11:30:46 | MASTER-Amur | (09h 36m 16.97s , +18d 04m 42.1s) | C | 60 | 17.0 | 16329 | 2020-04-01 11:32:07 | MASTER-Amur | (09h 30m 16.05s , +16d 03m 41.8s) | C | 60 | 17.3 | 16408 | 2020-04-01 11:33:27 | MASTER-Amur | (09h 46m 49.85s , +16d 02m 47.4s) | C | 60 | 17.1 | 16488 | 2020-04-01 11:34:46 | MASTER-Amur | (09h 43m 22.30s , +20d 03m 01.8s) | C | 60 | 17.1 | 16568 | 2020-04-01 11:36:06 | MASTER-Amur | (09h 33m

10.02s , +14d 03m 12.4s) | C | 60 | 17.0 | 16648 | 2020-04-01 11:37:26 | MASTER-Amur | (09h 44m 43.16s , +18d 03m 42.5s) | C | 60 | 17.1 | 16727 | 2020-04-01 11:38:46 | MASTER-Amur | (09h 16m 44.38s , +14d 03m 37.6s) | C | 60 | 17.1 | 16807 | 2020-04-01 11:40:05 | MASTER-Amur | (09h 25m 21.07s , +22d 02m 48.1s) | C | 60 | 17.2 | 16886 | 2020-04-01 11:41:25 | MASTER-Amur | (09h 33m 10.23s , +14d 04m 26.8s) | C | 60 | 17.3 | 16966 | 2020-04-01 11:42:44 | MASTER-Amur | (09h 41m 25.07s , +14d 02m 50.0s) | C | 60 | 17.3 | 17046 | 2020-04-01 11:44:04 | MASTER-Amur | (09h 44m 49.15s , +18d 04m 25.7s) | C | 60 | 17.2 | 17126 | 2020-04-01 11:45:24 | MASTER-Amur | (09h 53m 07.25s , +18d 03m 44.0s) | C | 60 | 17.2 | 17205 | 2020-04-01 11:46:44 | MASTER-Amur | (09h 16m 37.55s , +14d 04m 36.2s) | C | 60 | 17.1 | 17285 | 2020-04-01 11:48:03 | MASTER-Amur | (09h 24m 58.46s , +14d 03m 38.1s) | C | 60 | 17.3 | 17364 | 2020-04-01 11:49:23 | MASTER-Amur | (09h 25m 15.33s , +22d 02m 27.2s) | C | 60 | 17.2 | 17444 | 2020-04-01 11:50:42 | MASTER-Amur | (09h 33m 59.19s , +22d 02m 42.0s) | C | 60 | 17.4 | 17523 | 2020-04-01 11:52:02 | MASTER-Amur | (09h 41m 25.38s , +14d 04m 44.0s) | C | 60 | 17.3 | 17612 | 2020-04-01 11:53:30 | MASTER-Amur | (09h 53m 10.41s , +18d 02m 47.9s) | C | 60 | 17.2 | 17692 | 2020-04-01 11:54:50 | MASTER-Amur | (09h 24m 59.64s , +14d 04m 30.5s) | C | 60 | 17.4 | 17771 | 2020-04-01 11:56:09 | MASTER-Amur | (09h 33m 54.25s , +22d 03m 29.0s) | C | 60 | 17.5 | 17851 | 2020-04-01 11:57:29 | MASTER-Amur | (09h 28m 38.48s , +12d 03m 39.5s) | C | 60 | 17.0 | 17930 | 2020-04-01 11:58:48 | MASTER-Amur | (09h 42m 38.34s , +22d 02m 46.8s) | C | 60 | 17.3 | 18009 | 2020-04-01 12:00:08 | MASTER-Amur | (09h 51m 49.87s , +20d 02m 50.8s) | C | 60 | 17.2 | 18096 | 2020-04-01 12:01:34 | MASTER-Amur | (09h 49m 37.22s , +14d 03m 45.2s) | C | 60 | 17.2 | 18175 | 2020-04-01 12:02:54 | MASTER-Amur | (09h 28m 32.57s , +12d 04m 39.1s) | C | 60 | 17.2 | 18255 | 2020-04-01 12:04:13 | MASTER-Amur | (09h 36m 47.63s , +12d 03m 40.5s) | C | 60 | 17.1 | 18334 | 2020-04-01 12:05:32 | MASTER-Amur | (09h 42m 31.26s , +22d 02m 30.6s) | C | 60 | 17.2 | 18413 | 2020-04-01 12:06:52 | MASTER-Amur | (09h 51m 15.35s , +22d 02m 59.2s) | C | 60 | 17.5 | 18493 | 2020-04-01 12:08:11 | MASTER-Amur | (09h 51m 51.16s , +20d 04m 13.2s) | C | 60 | 17.2 | 18572 | 2020-04-01 12:09:31 | MASTER-Amur | (10h 00m 21.49s , +20d 03m 01.2s) | C | 60 | 17.3 | 18652 | 2020-04-01 12:10:50 | MASTER-Amur | (09h 49m 42.15s , +14d 04m 43.5s) | C | 60 | 17.3 | 18732 | 2020-04-01 12:12:10 | MASTER-Amur | (09h 57m 52.00s , +14d 03m 45.9s) | C | 60 | 17.5 | 18811 | 2020-04-01 12:13:29 | MASTER-Amur | (09h 36m 42.00s , +12d 04m 39.9s) | C | 60 | 17.1 | 18891 | 2020-04-01 12:14:49 | MASTER-Amur | (09h 51m 16.93s , +22d 03m 31.6s) | C | 60 | 17.4 | 18999 | 2020-04-01 12:16:38 | MASTER-Amur | (10h 00m 18.41s , +20d 02m 37.0s) | C | 60 | 17.1 | 19079 | 2020-04-01 12:17:57 | MASTER-Amur | (09h 57m 57.86s , +14d 03m 08.8s) | C | 60 | 17.3 | 19160 | 2020-04-01 12:19:18 | MASTER-Amur | (09h 55m 13.22s , +16d 02m 50.8s) | C | 60 | 17.1 | 19240 | 2020-04-01 12:20:38 | MASTER-Amur | (09h 44m 54.12s , +12d 03m 39.8s) | C | 60 | 16.8 | 19329 | 2020-04-01 12:22:08 | MASTER-Amur | (09h 11m 44.18s , +11d 57m 32.4s) | C | 60 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Balanutsa, P., Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Zhirkov, K., Kornilov, V., Tiurina, N., Gress, O., Budnev, N. M., et al. MASTER: OT in Andromeda direction and CV // The Astronomer's Telegram, 2020, V. 13674, p. 1
AT2020ihf MASTER-IAC auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 00h 36m 34.19s +41d 22m 43.1s on 2020-04-22.21025 UT. The OT automatic unfiltered magnitude is 18.0m (mlim=18.4).

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Zhirkov, K., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tiurina, N., Budnev, N. M., Ershova, O., Yurkov, V., Gabovich, A., et al. MASTER prediscovery optical counterpart of SRGt J071522.1-191609 observations // The Astronomer's Telegram, 2020, V. 13672, p. 1
MASTER Global Robotic Net (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) observed the field of SRGt J071522.1-191609 (Gokus et al. ATel #13657)about hundred times since 2009 without OT. RA, DEC = 07 15 22.03 -19 16 05.2 There is optical source at this position (ATel #13669, #13663, #13661) with automatic unfiltered m_OT~17.9 at on 2019-01-18 17:37 made during MASTER inspection of Fermi trigger 56940784) with automatic unfiltered m_OT~17.9 The reduction will be continued.

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Zhirkov, K., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tiurina, N., Budnev, N. M., Ershova, O., Yurkov, V., Gabovich, A., et al. MASTER synchronous optical observations of FRB180916.J0158+65 during radio burst. // The Astronomer's Telegram, 2020, V. 13671, p. 1
MASTER Global Robotic Net (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) observed synchronously FRB180916.J0158+65 (Aggarwal et al. ATel #13664; Zhirkov et al.,ATel #13621) during millisecond radio burst.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER OT J111012.51+274912.8 - optical counterpart of GRB 200412B in Gagarin Day // The Astronomer's Telegram, 2020, V. 13627, p. 1
MASTER-Amur(twin 40cm robotic telescope of MASTER Global Robotic Net (Lomonosov MSU), that is located near Cosmodrom Vostochniy) started alert observations of Fermi GRB 200412B / trigger 606840801 (Fermi GCN #27547, BALROG GCN #27548) at 2020-04-12 11:32:08 UT just after sunset (Lipunov et al. GCN #27549, GCN #27555 https://master.sai.msu.ru/site/master2/event.php?id=1335007) During inspect MASTER-Amur auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 18h 33m 15.33s +62d 31m 57.0s on 2020-04-12.48156 UT in Fermi error box (GCN 27547, 27548) Lipunov et al., GCN 27549).

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Kechin, Y., Bodrov, S., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tiurina, N., Budnev, N. M., Podesta, R., Lopez, C., et al. MASTER Bright Comet Discovery // The Astronomer's Telegram, 2020, V. 13619, p. 1
MASTER-OAFA auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered moved source with a comet activity (tail) at (RA, Dec) = 17h 06m 08.06s -77d 28m 13.4s on 2020-03-28.26086 UT. The unfiltered OT magnitude (close to R) is 15.8m (upper limit at an image 19.5).

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Jordana-Mitjans, N., Mundell, C. G., Kobayashi, S., Smith, R. J., Guidorzi, C., Steele, I. A., Shrestha, M., Gomboc, A., Marongiu, M., et al. Lowly Polarized Light from a Highly Magnetized Jet of GRB 190114C // The Astrophysical Journal, 2020, V. 892, p. 97
We report multicolor optical imaging and polarimetry observations of the afterglow of the first TeV-detected gamma-ray burst (GRB), GRB 190114C, using the RINGO3 and MASTER II polarimeters. Observations begin 31 s after the onset of the GRB and continue until □7000 s postburst. The light curves reveal a chromatic break at □400-500 s, with initial temporal decay $\alpha = 1.669 \pm 0.013$ flattening to $\alpha \approx 1$ postbreak, which we model as a combination of reverse and forward shock components with magnetization parameter R_B □ 70. The observed polarization degree decreases from 7.7% ± 1.1% to 2%-4% 52-109 s postburst and remains steady at this level for the subsequent □2000 s at a constant position angle. Broadband spectral energy distribution modeling of the afterglow confirms that GRB 190114C is highly obscured (A_{V,HG} = 1.49 ± 0.12 mag; N_H HG = (9.0 ± 0.03) × 10²² cm⁻²). We interpret the measured afterglow polarization as intrinsically low and dominated by dust - in contrast to the P > 10% measured previously for other GRB reverse shocks - with a small contribution from polarized prompt photons in the first minute. We test whether first- and higher-order inverse Compton scattering in a magnetized reverse shock can explain the low optical polarization and subteraelectronvolt emission but conclude that neither is explained in the reverse shock inverse Compton model. Instead, the unexpectedly low intrinsic polarization degree in GRB 190114C can be explained if large-scale jet magnetic fields are distorted on timescales prior to reverse shock emission.

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-31 // Transient Name Server Discovery Report, 2020, V. 2020-918, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-29 // Transient Name Server Discovery Report, 2020, V. 2020-900, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-28 // Transient Name Server Discovery Report, 2020, V. 2020-889, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-28 // Transient Name Server Discovery Report, 2020, V. 2020-888, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-03-27 // Transient Name Server Discovery Report, 2020, V. 2020-882, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-03-26 // Transient Name Server Discovery Report, 2020, V. 2020-878, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-03-22 // Transient Name Server Discovery Report, 2020, V. 2020-847, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-22 // Transient Name Server Discovery Report, 2020, V. 2020-846, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-21 // Transient Name Server Discovery Report, 2020, V. 2020-839, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-20 // Transient Name Server Discovery Report, 2020, V. 2020-834, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-19 // Transient Name Server Discovery Report, 2020, V. 2020-829, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-19 // Transient Name Server Discovery Report, 2020, V. 2020-828, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-17 // Transient Name Server Discovery Report, 2020, V. 2020-813, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-16 // Transient Name Server Discovery Report, 2020, V. 2020-806, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-15 // Transient Name Server Discovery Report, 2020, V. 2020-800, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-03-15 // Transient Name Server Discovery Report, 2020, V. 2020-799, p. 1

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Lipunov, V., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Gorbovskoy, E., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-03-14 // Transient Name Server Discovery Report, 2020, V. 2020-793, p. 1

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Pogrosheva, T., Lipunov, V., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-03-13 // Transient Name Server Discovery Report, 2020, V. 2020-786, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-10 // Transient Name Server Discovery Report, 2020, V. 2020-769, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-03-07 // Transient Name Server Discovery Report, 2020, V. 2020-741, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-03-05 // Transient Name Server Discovery Report, 2020, V. 2020-722, p. 1

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Balanutsa, P., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-05 // Transient Name Server Discovery Report, 2020, V. 2020-721, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-03-03 // Transient Name Server Discovery Report, 2020, V. 2020-696, p. 1

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Gorbovskoy, E., Lipunov, V., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-03-03 // Transient Name Server Discovery Report, 2020, V. 2020-695, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-03-02 // Transient Name Server Discovery Report, 2020, V. 2020-683, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 607035413: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27459, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200327A (Fermi GBM team, GCN 27458) errorbox 2773 sec after notice time and 2803 sec after trigger time at 2020-03-27 21:43:31 UT, with upper limit up to 19.8 mag. The observations began at zenith distance = 62 deg. The sun altitude is -57.6 deg. The galactic latitude b = 43 deg., longitude l = 8 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1323666 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 2833 | 2020-03-27 21:43:31 | MASTER-SAAO | (15h 44m 24.56s , -11d 52m 31.7s) | C | 60 | 19.6 | 2833 | 2020-03-27 21:43:31 | MASTER-SAAO | (15h 51m 31.06s , -11d 51m 56.8s) | C | 60 | 19.6 | 3204 | 2020-03-27 21:49:41 | MASTER-SAAO | (15h 44m 16.74s , -11d 54m 34.4s) | C | 60 | 19.6 | 3204 | 2020-03-27 21:49:41 | MASTER-SAAO | (15h 51m 23.36s , -11d 53m 57.9s) | C | 60 | 19.6 | 3667 | 2020-03-27 21:57:25 | MASTER-SAAO | (15h 37m 49.74s , -09d 53m 23.0s) | C | 60 | 19.7 | 3667 | 2020-03-27 21:57:25 | MASTER-SAAO | (15h 44m 53.62s , -09d 52m 44.8s) | C | 60 | 19.7 | 3759 | 2020-03-27 21:58:57 | MASTER-SAAO | (15h 54m 06.40s , -09d 52m 26.4s) | C | 60 | 19.6 | 3759 | 2020-03-27 21:58:57 | MASTER-SAAO | (16h 01m 10.19s , -09d 51m 48.9s) | C | 60 | 19.6 | 4036 | 2020-03-27 22:03:34 | MASTER-SAAO | (15h 37m 54.80s , -09d 54m 01.9s) | C | 60 | 19.7 | 4036 | 2020-03-27 22:03:34 | MASTER-SAAO | (15h 44m 58.77s , -09d 53m 23.6s) | C | 60 | 19.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 606918292: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27451, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB 200326A (Fermi GBM team, GCN 27447) errorbox 19451 sec after trigger time at 2020-03-26 17:48:58 UT, with upper limit up to 18.1 mag. The observations began at zenith distance = 78 deg. The sun altitude is -35.9 deg. The galactic latitude b = 19 deg., longitude l = 355 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1322435 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 19481 | 2020-03-26 17:48:58 | MASTER-Tunka | (15h 59m 56.19s , -16d 05m 17.0s) | C | 60 | 17.9 | 19561 | 2020-03-26 17:50:18 | MASTER-Tunka | (16h 07m 25.70s , -14d 05m 29.1s) | C | 60 | 18.1 | 19641 | 2020-03-26 17:51:39 | MASTER-Tunka | (15h 53m 23.54s , -18d 06m 48.7s) | C | 60 | 17.9 | 19802 | 2020-03-26 17:54:19 | MASTER-Tunka | (16h 23m 54.03s , -14d 08m 22.8s) | C | 60 | 17.9 | 20045 | 2020-03-26 17:58:22 | MASTER-Tunka | (16h 16m 31.52s , -16d 06m 14.7s) | C | 60 | 17.8 | 20576 | 2020-03-26 18:07:14 | MASTER-Tunka | (15h 47m 54.66s , -20d 06m 06.1s) | C | 60 | 17.9 | 20659 | 2020-03-26 18:08:36 | MASTER-Tunka | (16h 40m 25.97s , -14d 08m 58.2s) | C | 60 | 17.8 | 20751 | 2020-03-26 18:10:08 | MASTER-Tunka | (16h 10m 06.15s , -18d 06m 28.3s) | C | 60 | 17.7 | 21340 | 2020-03-26 18:19:57 | MASTER-Tunka | (16h 33m 14.00s , -16d 07m 15.3s) | C | 60 | 18.0 | 21420 | 2020-03-26 18:21:17 | MASTER-Tunka | (16h 04m 54.51s , -20d 06m 27.2s) | C | 60 | 17.6 | 21699 | 2020-03-26 18:25:57 | MASTER-Tunka | (16h 26m 56.12s , -18d 06m 54.3s) | C | 60 | 17.9 | 21941 | 2020-03-26 18:29:59 | MASTER-Tunka | (16h 49m 52.24s , -16d 08m 41.8s) | C | 60 | 17.6 | 23027 | 2020-03-26 18:48:04 | MASTER-Tunka | (16h 21m 49.78s , -20d 04m 52.6s) | C | 60 | 17.8 | 23107 | 2020-03-26 18:49:25 | MASTER-Tunka | (16h 00m 33.07s , -22d 05m 51.5s) | C | 60 | 17.7 | 23188 | 2020-03-26 18:50:45 | MASTER-Tunka | (16h 43m 48.61s , -18d 06m 22.5s) | C | 60 | 17.8 | 23350 | 2020-03-26 18:53:28 | MASTER-Tunka | (16h 17m 54.79s , -22d 05m 43.1s) | C | 60 | 17.6 | 23512 | 2020-03-26 18:56:09 | MASTER-Tunka | (16h 38m 57.11s , -20d 06m 43.4s) | C | 60 | 17.8 | 23694 | 2020-03-26 18:59:12 | MASTER-Tunka | (15h 57m 22.35s , -24d 03m 40.9s) | C | 60 | 17.5 | 26790 | 2020-03-26 19:50:47 | MASTER-Tunka | (16h 15m 06.20s , -24d 03m 35.1s) | C | 60 | 17.6 | 26871 | 2020-03-26 19:52:08 | MASTER-Tunka | (16h 35m 16.41s , -22d 05m 17.1s) | C | 60 | 17.9 | 26954 | 2020-03-26 19:53:31 | MASTER-Tunka | (16h 13m 13.61s , -26d 04m 18.4s) | C | 60 | 17.6 | 27036 | 2020-03-26 19:54:54 | MASTER-Tunka | (16h 32m 28.92s , -24d 04m 25.3s) | C | 60 | 18.1 | 27137 | 2020-03-26 19:56:35 | MASTER-Tunka | (15h 55m 29.65s , -26d 03m 53.5s) | C | 60 | 17.5 | 27221 | 2020-03-26 19:57:58 | MASTER-Tunka | (16h 49m 57.97s , -24d 05m 16.4s) | C | 60 | 17.7 | 27303 | 2020-03-26 19:59:21 | MASTER-Tunka | (16h 52m 30.54s , -22d 05m 48.1s) | C | 60 | 17.5 | 27391 | 2020-03-26 20:00:48 | MASTER-Tunka | (16h 55m 58.04s , -20d 05m 23.1s) | C | 60 | 17.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 606799116: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27448, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200325A (Fermi GBM team, GCN 27434) errorbox 15 sec after notice time and 44 sec after trigger time at 2020-03-25 03:19:16 UT, with upper limit up to 19.7 mag. The observations began at zenith distance = 70 deg. The sun altitude is -19.1 deg. MASTER-OAFA robotic telescope located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200325A errorbox 29 sec after notice time and 59 sec after trigger time at 2020-03-25 03:19:30 UT, with upper limit up to 19.0 mag. The observations began at zenith distance = 61 deg. The sun altitude is -55.1 deg. The galactic latitude b = -34 deg., longitude l = 290 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1321238 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 50 | 2020-03-25 03:19:16 | MASTER-SAAO | (04h 23m 50.57s , -77d 32m 51.4s) | C | 10 | 18.4 | 50 | 2020-03-25 03:19:16 | MASTER-SAAO | (04h 56m 48.78s , -77d 30m 55.2s) | C | 10 | 18.1 | 64 | 2020-03-25 03:19:30 | MASTER-OAFA | (04h 39m 22.28s , -77d 37m 35.3s) | C | 10 | 17.5 | 92 | 2020-03-25 03:19:58 | MASTER-SAAO | (04h 23m 43.90s , -77d 33m 23.3s) | C | 10 | 18.4 | 92 | 2020-03-25 03:19:58 | MASTER-SAAO | (04h 56m 43.18s , -77d 31m 27.9s) | C | 10 | 18.0 | 110 | 2020-03-25 03:20:11 | MASTER-OAFA | (04h 39m 28.23s , -77d 37m 12.8s) | C | 20 | 18.2 | 140 | 2020-03-25 03:20:42 | MASTER-SAAO | (04h 23m 46.13s , -77d 32m 21.9s) | C | 20 | 19.0 | 140 | 2020-03-25 03:20:42 | MASTER-SAAO | (04h 56m 42.53s , -77d 30m 27.1s) | C | 20 | 18.6 | 167 | 2020-03-25 03:21:03 | MASTER-OAFA | (04h 39m 24.81s , -77d 35m 51.5s) | C | 30 | 18.4 | 198 | 2020-03-25 03:21:34 | MASTER-SAAO | (04h 23m 50.30s , -77d 33m 18.8s) | C | 30 | 19.2 | 198 | 2020-03-25 03:21:34 | MASTER-SAAO | (04h 56m 49.01s , -77d 31m 24.6s) | C | 30 | 18.8 | 233 | 2020-03-25 03:22:04 | MASTER-OAFA | (04h 39m 24.99s , -77d 37m 22.5s) | C | 40 | 18.7 | 265 | 2020-03-25 03:22:36 | MASTER-SAAO | (04h 23m 42.47s , -77d 34m 17.0s) | C | 40 | 19.5 | 265 | 2020-03-25 03:22:36 | MASTER-SAAO | (04h 56m 43.61s , -77d 32m 23.0s) | C | 40 | 19.1 | 309 | 2020-03-25 03:23:16 | MASTER-OAFA | (04h 39m 27.94s , -77d 35m 38.9s) | C | 50 | 18.9 | 347 | 2020-03-25 03:23:49 | MASTER-SAAO | (04h 23m 48.15s , -77d 34m 03.8s) | C | 60 | 19.7 | 347 | 2020-03-25 03:23:49 | MASTER-SAAO | (04h 56m 48.57s , -77d 32m 10.8s) | C | 60 | 19.3 | 401 | 2020-03-25 03:24:37 | MASTER-OAFA | (04h 39m 21.75s , -77d 36m 39.4s) | C | 70 | 19.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, . %P ., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. GRB 200325B: MASTERt OT detection // GRB Coordinates Network, 2020, V. 27446, p. 1
MASTER OT J111012.51+274912.8 discovery - new OT inside Fermi GRB 200325B (trigger 606840801) MASTER Global Robotic Net inspected GRB 200325B: Fermi trigger 606840801, Ttr=2020-03-05 14:53:16 UT, GCN #27441, MASTER report GCN #27442, MASTER map and OT position. During inspection MASTER-Kislovodsk auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered new OT source at (RA, Dec) = 11h 10m 12.51s +27d 49m 12.8s on 2020-03-25 16:21:15 UT. The OT unfiltered magnitude is 16.1m (mlim=17.8). The OT is seen in 2 inspect images (MASTER has 2 tubes at each observatory and works with large error-fields like Fermi in open mode, that gives 8 square degrees, i.e. 2x4sq.deg.). There is no minor planet at this place and no any sources in VIZIER database (22mag limit in POSS history). We have reference images on 2010-03-13.87244 UT with unfiltered mlim= 20.2m, on 2020-02-21 21:54:40UT with mlim=20.3. Spectral observations are required. The discovery and reference images are available at:
http://master.sai.msu.ru/static/OT/111012.51274912.8.png

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 606840801: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27442, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB 200325B (Fermi GBM team, GCN 27441) errorbox 101 sec after notice time and 129 sec after trigger time at 2020-03-25 14:55:25 UT, with upper limit up to 18.5 mag. The observations began at zenith distance = 25 deg. The sun altitude is -29.4 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB 200325B errorbox 101 sec after notice time and 5198 sec after trigger time at 2020-03-25 16:19:54 UT, with upper limit up to 18.1 mag. Observations started at twilight. The observations began at zenith distance = 48 deg. The sun altitude is -10.0 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200325B errorbox 101 sec after notice time and 7545 sec after trigger time at 2020-03-25 16:59:01 UT, with upper limit up to 17.2 mag. Observations started at twilight. The observations began at zenith distance = 46 deg. The sun altitude is -11.1 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB 200325B errorbox 101 sec after notice time and 11810 sec after trigger time at 2020-03-25 18:10:06 UT, with upper limit up to 16.1 mag. The observations began at zenith distance = 75 deg. The sun altitude is -19.1 deg. The galactic latitude b = 70 deg., longitude l = 205 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1321597 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 145 | 2020-03-25 14:55:25 | MASTER-Tunka | (11h 16m 38.82s , +30d 17m 40.1s) | P| | 30 | 17.1 | 194 | 2020-03-25 14:56:15 | MASTER-Tunka | (11h 16m 35.54s , +30d 19m 13.0s) | P| | 30 | 17.2 | 249 | 2020-03-25 14:57:04 | MASTER-Tunka | (11h 16m 35.52s , +30d 17m 42.4s) | P| | 40 | 17.1 | 313 | 2020-03-25 14:58:04 | MASTER-Tunka | (11h 16m 39.10s , +30d 19m 15.7s) | P| | 50 | 17.5 | 393 | 2020-03-25 14:59:13 | MASTER-Tunka | (11h 16m 33.29s , +30d 18m 25.1s) | P| | 70 | 17.9 | 643 | 2020-03-25 15:02:59 | MASTER-Tunka | (11h 08m 06.42s , +26d 38m 13.4s) | P| | 120 | 18.2 | 792 | 2020-03-25 15:05:18 | MASTER-Tunka | (11h 08m 12.76s , +26d 37m 16.6s) | P| | 140 | 18.5 | 5228 | 2020-03-25 16:19:54 | MASTER-Kislovodsk | (11h 18m 11.30s , +30d 09m 55.5s) | C | 60 | 17.1 | 5228 | 2020-03-25 16:19:54 | MASTER-Kislovodsk | (11h 27m 41.11s , +29d 42m 01.1s) | C | 60 | 17.5 | 5309 | 2020-03-25 16:21:15 | MASTER-Kislovodsk | (11h 05m 15.52s , +28d 09m 12.6s) | C | 60 | 17.4 | 5309 | 2020-03-25 16:21:15 | MASTER-Kislovodsk | (11h 14m 34.63s , +27d 41m 21.4s) | C | 60 | 17.6 | 5390 | 2020-03-25 16:22:35 | MASTER-Kislovodsk | (11h 13m 45.48s , +32d 07m 57.3s) | C | 60 | 17.5 | 5390 | 2020-03-25 16:22:35 | MASTER-Kislovodsk | (11h 23m 26.74s , +31d 40m 04.0s) | C | 60 | 17.7 | 5470 | 2020-03-25 16:23:56 | MASTER-Kislovodsk | (10h 59m 49.50s , +30d 08m 33.1s) | C | 60 | 17.8 | 5470 | 2020-03-25 16:23:56 | MASTER-Kislovodsk | (11h 09m 19.34s , +29d 40m 43.5s) | C | 60 | 17.9 | 5551 | 2020-03-25 16:25:16 | MASTER-Kislovodsk | (11h 18m 16.68s , +30d 09m 33.0s) | C | 60 | 17.6 | 5551 | 2020-03-25 16:25:16 | MASTER-Kislovodsk | (11h 27m 44.96s , +29d 41m 36.3s) | C | 60 | 17.9 | 5631 | 2020-03-25 16:26:36 | MASTER-Kislovodsk | (11h 05m 14.16s , +28d 08m 24.5s) | C | 60 | 17.7 | 5631 | 2020-03-25 16:26:36 | MASTER-Kislovodsk | (11h 14m 32.00s , +27d 40m 31.1s) | C | 60 | 17.8 | 5711 | 2020-03-25 16:27:57 | MASTER-Kislovodsk | (11h 13m 50.96s , +32d 09m 38.0s) | C | 60 | 17.5 | 5711 | 2020-03-25 16:27:57 | MASTER-Kislovodsk | (11h 23m 31.48s , +31d 41m 42.2s) | C | 60 | 18.0 | 5792 | 2020-03-25 16:29:18 | MASTER-Kislovodsk | (10h 59m 44.77s , +30d 09m 23.4s) | C | 60 | 17.8 | 5792 | 2020-03-25 16:29:18 | MASTER-Kislovodsk | (11h 09m 14.00s , +29d 41m 32.0s) | C | 60 | 18.1 | 5872 | 2020-03-25 16:30:38 | MASTER-Kislovodsk | (11h 23m 18.78s , +28d 09m 51.7s) | C | 60 | 17.7 | 5872 | 2020-03-25 16:30:38 | MASTER-Kislovodsk | (11h 32m 35.10s , +27d 41m 53.3s) | C | 60 | 17.9 | 7576 | 2020-03-25 16:59:01 | MASTER-Tavrida | (10h 59m 11.46s , +26d 01m 29.0s) | C | 60 | 17.2 | 11841 | 2020-03-25 18:10:06 | MASTER-SAAO | (11h 01m 49.44s , +26d 06m 26.4s) | C | 60 | 12.1 | 12139 | 2020-03-25 18:15:04 | MASTER-SAAO | (11h 01m 58.23s , +26d 06m 59.4s) | C | 60 | 13.1 | 12705 | 2020-03-25 18:24:30 | MASTER-SAAO | (11h 11m 47.63s , +26d 05m 56.0s) | C | 60 | 14.4 | 12705 | 2020-03-25 18:24:30 | MASTER-SAAO | (11h 19m 56.86s , +26d 06m 42.1s) | C | 60 | 14.0 | 13076 | 2020-03-25 18:30:41 | MASTER-SAAO | (11h 11m 35.71s , +26d 07m 07.0s) | C | 60 | 15.6 | 13076 | 2020-03-25 18:30:41 | MASTER-SAAO | (11h 19m 45.03s , +26d 07m 51.9s) | C | 60 | 16.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200324.69: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27427, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) was pointed to the Swift GRB200324.69 (trigger No 963260,14h 50m 44.40s , +35d 58m 04.8s, R=0.05) errorbox 16 sec after notice time and 58 sec after trigger time at 2020-03-24 16:40:06 UT, with upper limit up to 16.3 mag. The observations began at zenith distance = 22 deg. The sun altitude is -36.6 deg. The galactic latitude b = 63 deg., longitude l = 59 deg. Real time updated cover map and OT discovered available here:

https://master.sai.msu.ru/site/master2/observ.php?id=1320927 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment
_____|_____|_____|_____ 64 | MASTER-Amur | P/ | 10 | 15.8 | 91 | MASTER-Amur | P/ | 20 | 15.9 | 126 | MASTER-Amur | P/ | 20 | 15.9 | 163 | MASTER-Amur | P/ | 30 | 16.1 | 225 | MASTER-Amur | P/ | 40 | 16.3 | 282 | MASTER-Amur | P/ | 50 | 16.3 | 350 | MASTER-Amur | P/ | 60 | 16.3 | 429 | MASTER-Amur | P/ | 60 | 16.3 | 509 | MASTER-Amur | P/ | 60 | 16.2 | 657 | MASTER-Amur | P/ | 60 | 16.3 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 606681997: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27424, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200323A (Fermi GBM team, GCN 27422) errorbox 17767 sec after trigger time at 2020-03-23 23:42:40 UT, with upper limit up to 18.1 mag. Observations started at twilight. The observations began at zenith distance = 41 deg. The sun altitude is -13.9 deg. The galactic latitude b = 2 deg., longitude l = 284 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1320359 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 88 | 2020-03-23 18:47:55 | MASTER- | (10h 21m 10.74s , -56d 03m 31.5s) | C | 10 | 15.6 | 88 | 2020-03-23 18:47:55 | MASTER- | (10h 07m 59.36s , -56d 04m 27.9s) | C | 10 | 17.5 | 138 | 2020-03-23 18:48:40 | MASTER- | (10h 21m 05.77s , -56d 04m 32.4s) | C | 20 | 15.8 | 138 | 2020-03-23 18:48:40 | MASTER- | (10h 07m 54.08s , -56d 05m 29.4s) | C | 20 | 18.1 | 195 | 2020-03-23 18:49:32 | MASTER- | (10h 21m 11.74s , -56d 04m 28.7s) | C | 30 | 15.9 | 195 | 2020-03-23 18:49:32 | MASTER- | (10h 08m 00.09s , -56d 05m 26.0s) | C | 30 | 18.4 | 263 | 2020-03-23 18:50:35 | MASTER- | (10h 21m 08.53s , -56d 02m 54.1s) | C | 40 | 16.0 | 263 | 2020-03-23 18:50:35 | MASTER- | (10h 07m 57.47s , -56d 03m 51.5s) | C | 40 | 18.5 | 345 | 2020-03-23 18:51:48 | MASTER- | (10h 21m 09.08s , -56d 04m 08.7s) | C | 60 | 16.9 | 345 | 2020-03-23 18:51:48 | MASTER- | (10h 07m 57.63s , -56d 05m 05.7s) | C | 60 | 18.8 | 447 | 2020-03-23 18:53:20 | MASTER- | (10h 21m 12.69s , -56d 02m 42.4s) | C | 80 | 16.1 | 447 | 2020-03-23 18:53:20 | MASTER- | (10h 08m 01.88s , -56d 03m 40.2s) | C | 80 | 18.7 | 569 | 2020-03-23 18:55:12 | MASTER- | (10h 21m 05.66s , -56d 03m 40.5s) | C | 100 | 16.2 | 569 | 2020-03-23 18:55:12 | MASTER- | (10h 07m 54.64s , -56d 04m 38.6s) | C | 100 | 19.0 | 717 | 2020-03-23 18:57:25 | MASTER- | (10h 30m 56.36s , -55d 21m 05.8s) | C | 130 | 15.9 | 717 | 2020-03-23 18:57:25 | MASTER- | (10h 17m 59.63s , -55d 22m 02.5s) | C | 130 | 18.6 | 895 | 2020-03-23 19:00:07 | MASTER- | (10h 31m 04.88s , -55d 22m 08.0s) | C | 160 | 16.0 | 895 | 2020-03-23 19:00:07 | MASTER- | (10h 18m 07.87s , -55d 23m 04.4s) | C | 160 | 18.7 | 1097 | 2020-03-23 19:03:20 | MASTER- | (10h 30m 58.45s , -55d 23m 11.3s) | C | 180 | 16.1 | 1097 | 2020-03-23 19:03:20 | MASTER- | (10h 18m 01.05s , -55d 24m 07.9s) | C | 180 | 18.7 | 1310 | 2020-03-23 19:06:52 | MASTER- | (10h 18m 08.64s , -55d 23m 56.9s) | C | 180 | 18.9 | 1310 | 2020-03-23 19:06:52 | MASTER- | (10h 31m 06.16s , -55d 23m 00.2s) | C | 180 | 16.2 | 1522 | 2020-03-23 19:10:24 | MASTER- | (10h 31m 02.53s , -55d 21m 37.4s) | C | 180 | 16.2 | 1522 | 2020-03-23 19:10:24 | MASTER- | (10h 18m 05.32s , -55d 22m 34.8s) | C | 180 | 18.9 | 1734 | 2020-03-23 19:13:57 | MASTER- | (10h 31m 03.28s , -55d 23m 16.0s) | C | 180 | 16.1 | 1734 | 2020-03-23 19:13:57 | MASTER- | (10h 18m 05.54s , -55d 24m 13.3s) | C | 180 | 18.7 | 1887 | 2020-03-23 19:17:29 | MASTER- | (10h 34m 46.22s , -55d 49m 20.9s) | C | 60 | 15.6 | 1887 | 2020-03-23 19:17:29 | MASTER- | (10h 21m 39.90s , -55d 50m 17.2s) | C | 60 | 18.4 | 1979 | 2020-03-23 19:19:01 | MASTER- | (10h 06m 11.14s , -55d 50m 40.0s) | C | 60 | 16.0 | 3257 | 2020-03-23 19:40:19 | MASTER- | (10h 34m 43.30s , -55d 51m 03.1s) | C | 60 | 17.9 | 3257 | 2020-03-23 19:40:19 | MASTER- | (10h 21m 36.46s , -55d 52m 02.7s) | C | 60 | 18.0 | 3349 | 2020-03-23 19:41:52 | MASTER- | (10h 06m 20.69s , -55d 51m 49.5s) | C | 60 | 17.6 | 3442 | 2020-03-23 19:43:24 | MASTER- | (10h 09m 37.09s , -57d 50m 00.4s) | C | 60 | 17.2 | 3534 | 2020-03-23 19:44:57 | MASTER- | (10h 31m 04.94s , -53d 51m 01.0s) | C | 60 | 16.9 | 3534 | 2020-03-23 19:44:57 | MASTER- | (10h 18m 35.95s , -53d 52m 03.0s) | C | 60 | 17.0 | 3627 | 2020-03-23 19:46:29 | MASTER- | (10h 39m 43.60s , -57d 49m 24.7s) | C | 60 | 16.7 | 3627 | 2020-03-23 19:46:29 | MASTER- | (10h 25m 54.01s , -57d 50m 23.7s) | C | 60 | 16.7 | 3812 | 2020-03-23 19:49:35 | MASTER- | (10h 09m 34.78s , -57d 49m 53.7s) | C | 60 | 15.2 | 3905 | 2020-03-23 19:51:07 | MASTER- | (10h 31m 07.95s , -53d 50m 31.0s) | C | 60 | 15.9 | 3905 | 2020-03-23 19:51:07 | MASTER- | (10h 18m 38.75s , -53d 51m 33.5s) | C | 60 | 15.5 | 3997 | 2020-03-23 19:52:39 | MASTER- | (10h 39m 38.15s , -57d 51m 10.5s) | C | 60 | 15.4 | 3997 | 2020-03-23 19:52:39 | MASTER- | (10h 25m 47.50s , -57d 52m 09.9s) | C | 60 | 15.9 | 17797 | 2020-03-23 23:42:40 | MASTER-OAFA | (10h 21m 36.06s , -55d 52m 31.9s) | C | 60 | 17.3 | 18071 | 2020-03-23 23:47:13 | MASTER-OAFA | (10h 18m 28.11s , -53d 52m 44.4s) | C | 60 | 17.3 | 18162 | 2020-03-23 23:48:44 | MASTER-OAFA | (10h 21m 32.24s , -55d 51m 42.7s) | C | 60 | 17.7 | 18253 | 2020-03-23 23:50:16 | MASTER-OAFA | (10h 35m 54.16s , -55d 52m 36.9s) | C | 60 | 17.4 | 18435 | 2020-03-23 23:53:18 | MASTER-OAFA | (10h 07m 22.16s , -55d 53m 34.4s) | C | 60 | 18.1 | 18617 | 2020-03-23 23:56:20 | MASTER-OAFA | (10h 10m 42.80s , -57d 53m 30.0s) | C | 60 | 17.9 | 18708 | 2020-03-23 23:57:50 | MASTER-OAFA | (10h 18m 34.61s , -53d 52m 09.8s) | C | 60 | 17.4 | 18799 | 2020-03-23 23:59:22 | MASTER-OAFA | (10h 32m 03.67s , -53d 52m 44.0s) | C | 60 | 17.4 | 18890 | 2020-03-24 00:00:53 | MASTER-OAFA | (10h 35m 47.66s , -55d 51m 42.2s) | C | 60 | 17.5 | 18982 | 2020-03-24 00:02:24 | MASTER-OAFA | (10h 07m 20.98s , -55d 52m 58.9s) | C | 60 | 18.1 | 19073 | 2020-03-24 00:03:55 | MASTER-OAFA | (10h 10m 39.03s , -57d 53m 55.4s) | C | 60 | 17.9 | 19164 | 2020-03-24 00:05:27 | MASTER-OAFA | (10h 32m 08.58s , -53d 53m 19.4s) | C | 60 | 17.3 | 19255 | 2020-03-24 00:06:58 | MASTER-OAFA | (10h 25m 46.65s , -57d 53m 33.6s) | C | 60 | 17.5 | 19620 | 2020-03-24 00:13:03 | MASTER-OAFA | (10h 25m 46.27s , -57d 51m 52.2s) | C | 60 | 17.5 | 19711 | 2020-03-24 00:14:34 | MASTER-OAFA | (10h 40m 49.75s , -57d 53m 17.5s) | C | 60 | 17.4 | 20349 | 2020-03-24 00:25:12 | MASTER-OAFA | (10h 40m 49.33s , -57d 51m 40.6s) | C | 60 | 17.4 | 20440 | 2020-03-24 00:26:43 | MASTER-OAFA | (10h 04m 54.88s , -53d 53m 42.3s) | C | 60 | 17.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 606614927: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27420, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB200323.01 (trigger No 606614927,22h 56m 50.40s , +53d 01m 48.0s, R=11.83) errorbox 7587 sec after trigger time at 2020-03-23 02:15:10 UT, with upper limit up to 16.4 mag. Observations started at twilight. The observations began at zenith distance = 62 deg. The sun altitude is -10.6 deg. The galactic latitude b = -6 deg., longitude l = 106 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1319802 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 7618 | 2020-03-23 02:15:10 | MASTER-Kislovodsk | (23h 24m 13.70s , +48d 05m 07.5s) | C | 60 | 16.4 | 7618 | 2020-03-23 02:15:10 | MASTER-Kislovodsk | (23h 36m 23.26s , +47d 37m 07.0s) | C | 60 | 16.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 606263732: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27413, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB 200318A (Fermi GBM team, GCN 27412) errorbox 55 sec after notice time and 82 sec after trigger time at 2020-03-18 22:36:50 UT, with upper limit up to 20.0 mag. The observations began at zenith distance = 42 deg. The sun altitude is -45.4 deg. The galactic latitude b = 34 deg., longitude l = 158 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1316766 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 93 | 2020-03-18 22:36:50 | MASTER-Tavrida | (08h 19m 21.28s , +56d 57m 36.1s) | C | 20 | 17.9 | 147 | 2020-03-18 22:37:39 | MASTER-Tavrida | (08h 24m 37.29s , +56d 33m 38.1s) | C | 30 | 18.3 | 182 | 2020-03-18 22:37:39 | MASTER-Tavrida | (08h 24m 37.30s , +56d 33m 38.2s) | C | 100 | 19.0 | Coadd 198 | 2020-03-18 22:38:29 | MASTER-Tavrida | (08h 24m 30.80s , +56d 32m 51.9s) | C | 30 | 18.3 | 253 | 2020-03-18 22:39:20 | MASTER-Tavrida | (08h 24m 30.94s , +56d 33m 52.4s) | C | 40 | 18.5 | 324 | 2020-03-18 22:40:21 | MASTER-Tavrida | (08h 24m 36.88s , +56d 32m 52.9s) | C | 60 | 18.8 | 404 | 2020-03-18 22:40:21 | MASTER-Tavrida | (08h 24m 36.88s , +56d 32m 52.9s) | C | 220 | 19.6 | Coadd 410 | 2020-03-18 22:41:41 | MASTER-Tavrida | (08h 24m 31.25s , +56d 31m 52.8s) | C | 70 | 19.0 | 510 | 2020-03-18 22:43:12 | MASTER-Tavrida | (08h 24m 37.47s , +56d 32m 22.9s) | C | 90 | 19.0 | 630 | 2020-03-18 22:45:02 | MASTER-Tavrida | (08h 20m 46.62s , +59d 11m 30.9s) | C | 110 | 19.2 | 785 | 2020-03-18 22:45:02 | MASTER-Tavrida | (08h 20m 46.62s , +59d 11m 30.9s) | C | 420 | 20.0 | Coadd 776 | 2020-03-18 22:47:13 | MASTER-Tavrida | (08h 20m 49.34s , +59d 13m 12.9s) | C | 140 | 19.3 | 952 | 2020-03-18 22:49:54 | MASTER-Tavrida | (08h 20m 43.99s , +59d 12m 16.3s) | C | 170 | 19.5 | 1148 | 2020-03-18 22:53:05 | MASTER-Tavrida | (08h 20m 44.65s , +59d 13m 13.8s) | C | 180 | 19.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 606098435: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27393, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200317A (Fermi GBM team, GCN 27392) errorbox 37 sec after notice time and 65 sec after trigger time at 2020-03-17 00:41:36 UT, with upper limit up to 20.0 mag. The observations began at zenith distance = 43 deg. The sun altitude is -24.3 deg. The galactic latitude b = -44 deg., longitude l = 252 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1315429 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 71 | 2020-03-17 00:41:36 | MASTER-OAFA | (04h 16m 01.16s , -44d 46m 37.0s) | C | 10 | 17.6 | 117 | 2020-03-17 00:42:17 | MASTER-OAFA | (04h 16m 01.01s , -44d 45m 40.8s) | C | 20 | 18.2 | 173 | 2020-03-17 00:43:08 | MASTER-OAFA | (04h 16m 08.20s , -44d 46m 44.3s) | C | 30 | 18.6 | 240 | 2020-03-17 00:44:10 | MASTER-OAFA | (04h 16m 01.03s , -44d 47m 48.0s) | C | 40 | 18.9 | 316 | 2020-03-17 00:45:21 | MASTER-OAFA | (04h 16m 07.14s , -44d 47m 23.2s) | C | 50 | 19.0 | 408 | 2020-03-17 00:46:43 | MASTER-OAFA | (04h 16m 04.79s , -44d 45m 58.7s) | C | 70 | 19.3 | 648 | 2020-03-17 00:50:18 | MASTER-OAFA | (04h 21m 40.40s , -46d 21m 27.0s) | C | 120 | 19.6 | 810 | 2020-03-17 00:52:50 | MASTER-OAFA | (04h 21m 36.72s , -46d 19m 45.7s) | C | 140 | 19.6 | 1001 | 2020-03-17 00:55:41 | MASTER-OAFA | (04h 21m 36.73s , -46d 21m 43.2s) | C | 180 | 19.9 | 1212 | 2020-03-17 00:59:12 | MASTER-OAFA | (04h 21m 39.24s , -46d 20m 05.2s) | C | 180 | 20.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200316bj: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27387, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the LIGO/Virgo S200316bj errorbox 115 sec after notice time and 472 sec after trigger time at 2020-03-16 22:05:48 UT, with upper limit up to 16.1 mag. The observations began at zenith distance = 65 deg. The sun altitude is -47.1 deg. The galactic latitude b = -60 deg., longitude l = 98 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11492 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 517 | 2020-03-16 22:05:48 | MASTER-Kislovodsk | (05h 53m 16.56s , +47d 21m 53.5s) | C | 90 | 13.2 | 638 | 2020-03-16 22:07:38 | MASTER-Kislovodsk | (05h 53m 22.39s , +47d 20m 52.7s) | C | 110 | 16.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 605789837: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27380, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the Fermi GRB 200313B (Fermi GBM team, GCN 27379) errorbox 277 sec after notice time and 306 sec after trigger time at 2020-03-13 11:02:18 UT, with upper limit up to 17.6 mag. Observations started at twilight. The observations began at zenith distance = 66 deg. The sun altitude is -15.2 deg. The galactic latitude b = 75 deg., longitude l = 94 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1312669 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 336 | 2020-03-13 11:02:18 | MASTER-Amur | (13h 59m 44.22s , +44d 04m 32.5s) | C | 60 | 17.3 | 496 | 2020-03-13 11:04:57 | MASTER-Amur | (13h 43m 27.40s , +46d 05m 54.5s) | C | 60 | 17.4 | 740 | 2020-03-13 11:09:01 | MASTER-Amur | (13h 29m 24.68s , +40d 04m 05.8s) | C | 60 | 17.6 | 819 | 2020-03-13 11:10:21 | MASTER-Amur | (13h 59m 47.11s , +44d 05m 39.2s) | C | 60 | 17.6 | 979 | 2020-03-13 11:13:00 | MASTER-Amur | (13h 43m 28.93s , +46d 05m 37.6s) | C | 60 | 17.6 | 1297 | 2020-03-13 11:18:19 | MASTER-Amur | (13h 29m 24.72s , +40d 05m 11.5s) | C | 60 | 17.6 | 1376 | 2020-03-13 11:19:38 | MASTER-Amur | (13h 39m 50.24s , +40d 03m 59.7s) | C | 60 | 17.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 605756501: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27376, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200313A (Fermi GBM team, GCN 27374) errorbox 41 sec after notice time and 71 sec after trigger time at 2020-03-13 01:42:47 UT, with upper limit up to 17.4 mag. The observations began at zenith distance = 72 deg. The sun altitude is -35.1 deg. The galactic latitude b = -12 deg., longitude l = 182 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1312412 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 76 | 2020-03-13 01:42:47 | MASTER-OAFA | (05h 02m 00.29s , +20d 57m 42.4s) | C | 10 | 16.6 | 122 | 2020-03-13 01:43:29 | MASTER-OAFA | (05h 01m 56.21s , +20d 59m 11.6s) | C | 20 | 16.9 | 180 | 2020-03-13 01:44:21 | MASTER-OAFA | (05h 01m 56.09s , +20d 57m 41.3s) | C | 30 | 17.1 | 248 | 2020-03-13 01:45:24 | MASTER-OAFA | (05h 01m 59.88s , +20d 59m 19.5s) | C | 40 | 17.2 | 329 | 2020-03-13 01:46:35 | MASTER-OAFA | (05h 01m 53.08s , +20d 58m 30.4s) | C | 60 | 17.4 | 425 | 2020-03-13 01:48:06 | MASTER-OAFA | (05h 01m 52.20s , +20d 59m 32.3s) | C | 70 | 17.3 | 536 | 2020-03-13 01:49:48 | MASTER-OAFA | (05h 01m 58.90s , +20d 58m 34.4s) | C | 90 | 17.3 | 673 | 2020-03-13 01:51:49 | MASTER-OAFA | (05h 01m 52.49s , +20d 57m 35.6s) | C | 120 | 17.2 | 839 | 2020-03-13 01:54:20 | MASTER-OAFA | (05h 01m 57.99s , +20d 58m 03.5s) | C | 150 | 17.3 | 1035 | 2020-03-13 01:57:21 | MASTER-OAFA | (05h 01m 55.87s , +20d 59m 18.9s) | C | 180 | 17.2 | 1246 | 2020-03-13 02:00:53 | MASTER-OAFA | (05h 01m 55.94s , +20d 57m 46.0s) | C | 180 | 17.0 | 1458 | 2020-03-13 02:04:24 | MASTER-OAFA | (05h 01m 58.08s , +20d 59m 23.5s) | C | 180 | 16.7 | 1669 | 2020-03-13 02:07:55 | MASTER-OAFA | (05h 01m 52.94s , +20d 58m 38.0s) | C | 180 | 16.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200312.89: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27375, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) was pointed to the Swift GRB200312.89 (trigger No 960986,18h 17m 53.04s , -16d 06m 07.2s, R=0.05) errorbox 15975 sec after trigger time at 2020-03-13 01:43:03 UT, with upper limit up to 18.1 mag. The observations began at zenith distance = 67 deg. The sun altitude is -19.6 deg. The galactic latitude b = -1 deg., longitude l = 15 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1312200 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 10404 | MASTER- | C | 180 | 17.4 | 10404 | MASTER- | C | 180 | 17.2 | 11254 | MASTER- | C | 180 | 16.2 | 11254 | MASTER- | C | 180 | 17.7 | 11467 | MASTER- | C | 180 | 16.4 | 11467 | MASTER- | C | 180 | 17.3 | 11679 | MASTER- | C | 180 | 17.3 | 11892 | MASTER- | C | 180 | 16.3 | 11892 | MASTER- | C | 180 | 17.4 | 12104 | MASTER- | C | 180 | 16.3 | 12104 | MASTER- | C | 180 | 17.2 | 12317 | MASTER- | C | 180 | 16.4 | 12317 | MASTER- | C | 180 | 17.5 | 12529 | MASTER- | C | 180 | 17.4 | 12742 | MASTER- | C | 180 | 16.3 | 12742 | MASTER- | C | 180 | 17.2 | 12954 | MASTER- | C | 180 | 16.4 | 12954 | MASTER- | C | 180 | 17.6 | 13167 | MASTER- | C | 180 | 16.1 | 13167 | MASTER- | C | 180 | 17.5 | 13379 | MASTER- | C | 180 | 17.4 | 13592 | MASTER- | C | 180 | 15.8 | 13592 | MASTER- | C | 180 | 17.6 | 16066 | MASTER-Kislovodsk | C | 180 | 17.6 | 16066 | MASTER-Kislovodsk | C | 180 | 18.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 605632577: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27370, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB 200311A (Fermi GBM team, GCN 27363) errorbox 30385 sec after trigger time at 2020-03-11 23:42:38 UT, with upper limit up to 17.9 mag. Observations started at twilight. The observations began at zenith distance = 76 deg. The sun altitude is -10.6 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 200311A errorbox 39226 sec after trigger time at 2020-03-12 02:09:59 UT, with upper limit up to 16.7 mag. The observations began at zenith distance = 79 deg. The sun altitude is -61.8 deg. The galactic latitude b = 12 deg., longitude l = 311 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1311002 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 30416 | 2020-03-11 23:42:38 | MASTER-OAFA | (13h 33m 58.49s , -49d 55m 05.7s) | C | 60 | 14.5 | 30781 | 2020-03-11 23:48:43 | MASTER-OAFA | (13h 33m 50.99s , -49d 54m 03.4s) | C | 60 | 15.4 | 30874 | 2020-03-11 23:50:17 | MASTER-OAFA | (13h 46m 37.64s , -49d 54m 28.4s) | C | 60 | 15.7 | 30965 | 2020-03-11 23:51:48 | MASTER-OAFA | (13h 25m 57.05s , -47d 55m 01.5s) | C | 60 | 16.0 | 31058 | 2020-03-11 23:53:20 | MASTER-OAFA | (13h 37m 43.69s , -47d 55m 58.6s) | C | 60 | 15.6 | 31240 | 2020-03-11 23:56:23 | MASTER-OAFA | (13h 31m 03.43s , -51d 54m 32.2s) | C | 60 | 16.7 | 31423 | 2020-03-11 23:59:25 | MASTER-OAFA | (13h 21m 40.70s , -49d 53m 46.7s) | C | 60 | 17.0 | 31515 | 2020-03-12 00:00:58 | MASTER-OAFA | (13h 46m 16.75s , -49d 54m 16.0s) | C | 60 | 16.3 | 31614 | 2020-03-12 00:02:36 | MASTER-OAFA | (13h 37m 59.02s , -47d 54m 07.6s) | C | 60 | 17.0 | 31705 | 2020-03-12 00:04:08 | MASTER-OAFA | (13h 31m 01.12s , -51d 54m 57.3s) | C | 60 | 17.4 | 31796 | 2020-03-12 00:05:39 | MASTER-OAFA | (13h 21m 45.26s , -49d 54m 46.0s) | C | 60 | 17.6 | 31887 | 2020-03-12 00:07:10 | MASTER-OAFA | (13h 44m 02.54s , -51d 55m 02.3s) | C | 60 | 17.5 | 31979 | 2020-03-12 00:08:41 | MASTER-OAFA | (13h 49m 49.11s , -47d 54m 17.3s) | C | 60 | 17.5 | 32252 | 2020-03-12 00:13:15 | MASTER-OAFA | (13h 44m 02.79s , -51d 53m 12.0s) | C | 60 | 17.8 | 32440 | 2020-03-12 00:16:22 | MASTER-OAFA | (13h 49m 55.52s , -47d 53m 33.4s) | C | 60 | 17.9 | 39256 | 2020-03-12 02:09:59 | MASTER-IAC | (13h 21m 25.21s , -49d 54m 32.2s) | C | 60 | 16.7 | 39861 | 2020-03-12 02:20:04 | MASTER-IAC | (13h 21m 22.67s , -49d 54m 43.2s) | C | 60 | 16.7 | 41037 | 2020-03-12 02:39:39 | MASTER- | (13h 45m 21.20s , -49d 52m 09.1s) | C | 60 | 17.1 | 41037 | 2020-03-12 02:39:39 | MASTER- | (13h 34m 14.56s , -49d 53m 01.5s) | C | 60 | 17.3 | 41130 | 2020-03-12 02:41:12 | MASTER- | (13h 36m 48.75s , -47d 53m 11.9s) | C | 60 | 15.7 | 41130 | 2020-03-12 02:41:12 | MASTER- | (13h 26m 08.50s , -47d 54m 05.6s) | C | 60 | 15.6 | 41222 | 2020-03-12 02:42:44 | MASTER- | (13h 29m 49.21s , -51d 53m 59.9s) | C | 60 | 18.3 | 41315 | 2020-03-12 02:44:17 | MASTER- | (13h 44m 16.14s , -51d 54m 56.8s) | C | 60 | 16.7 | 41407 | 2020-03-12 02:45:49 | MASTER- | (13h 45m 22.86s , -49d 52m 17.4s) | C | 60 | 16.1 | 41407 | 2020-03-12 02:45:49 | MASTER- | (13h 34m 17.05s , -49d 53m 07.7s) | C | 60 | 16.4 | 41499 | 2020-03-12 02:47:22 | MASTER- | (13h 26m 05.07s , -47d 54m 54.6s) | C | 60 | 13.5 | 41500 | 2020-03-12 02:47:22 | MASTER- | (13h 36m 45.10s , -47d 54m 02.3s) | C | 60 | 13.8 | 41592 | 2020-03-12 02:48:54 | MASTER- | (13h 29m 54.43s , -51d 52m 21.2s) | C | 60 | 17.4 | 41685 | 2020-03-12 02:50:27 | MASTER- | (13h 44m 09.15s , -51d 54m 02.6s) | C | 60 | 18.0 | 41777 | 2020-03-12 02:52:00 | MASTER- | (13h 49m 56.03s , -47d 53m 15.9s) | C | 60 | 16.7 | 42147 | 2020-03-12 02:58:10 | MASTER- | (13h 49m 57.70s , -47d 53m 23.4s) | C | 60 | 15.5 | 43079 | 2020-03-12 03:13:41 | MASTER- | (13h 20m 33.19s , -49d 52m 24.0s) | C | 60 | 16.5 | 43634 | 2020-03-12 03:22:56 | MASTER- | (13h 20m 30.39s , -49d 52m 30.0s) | C | 60 | 16.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 605309224: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27349, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB 200307A (Fermi GBM team, GCN 27344) errorbox 80771 sec after trigger time at 2020-03-08 19:53:10 UT, with upper limit up to 17.1 mag. Observations started at twilight. The observations began at zenith distance = 75 deg. The sun altitude is -10.9 deg. The galactic latitude b = -32 deg., longitude l = 252 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1307366 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 75417 | 2020-03-08 18:23:26 | MASTER- | (03h 15m 36.05s , -54d 03m 58.0s) | C | 60 | 18.1 | 75787 | 2020-03-08 18:29:36 | MASTER- | (03h 15m 40.56s , -54d 02m 21.4s) | C | 60 | 17.9 | 76064 | 2020-03-08 18:34:13 | MASTER- | (03h 25m 48.21s , -56d 02m 36.0s) | C | 60 | 17.6 | 76064 | 2020-03-08 18:34:13 | MASTER- | (03h 12m 53.59s , -56d 04m 03.5s) | C | 60 | 18.2 | 76434 | 2020-03-08 18:40:23 | MASTER- | (03h 25m 44.24s , -56d 03m 18.2s) | C | 60 | 17.5 | 76434 | 2020-03-08 18:40:23 | MASTER- | (03h 12m 49.40s , -56d 04m 42.9s) | C | 60 | 18.2 | 77854 | 2020-03-08 19:04:03 | MASTER- | (03h 37m 13.03s , -58d 02m 10.1s) | C | 60 | 18.2 | 77854 | 2020-03-08 19:04:03 | MASTER- | (03h 23m 36.28s , -58d 03m 36.8s) | C | 60 | 18.2 | 78224 | 2020-03-08 19:10:13 | MASTER- | (03h 37m 09.63s , -58d 02m 56.6s) | C | 60 | 18.2 | 78224 | 2020-03-08 19:10:13 | MASTER- | (03h 23m 32.70s , -58d 04m 21.9s) | C | 60 | 18.2 | 78501 | 2020-03-08 19:14:50 | MASTER- | (03h 42m 48.57s , -54d 01m 20.0s) | C | 60 | 17.7 | 78501 | 2020-03-08 19:14:50 | MASTER- | (03h 30m 32.77s , -54d 02m 43.6s) | C | 60 | 17.9 | 78778 | 2020-03-08 19:19:27 | MASTER- | (03h 31m 12.53s , -62d 03m 05.4s) | C | 60 | 18.4 | 78871 | 2020-03-08 19:20:59 | MASTER- | (03h 42m 51.44s , -54d 01m 21.9s) | C | 60 | 17.7 | 78871 | 2020-03-08 19:20:59 | MASTER- | (03h 30m 35.65s , -54d 02m 45.5s) | C | 60 | 17.8 | 79148 | 2020-03-08 19:25:37 | MASTER- | (03h 31m 05.18s , -62d 02m 05.3s) | C | 60 | 18.4 | 79426 | 2020-03-08 19:30:15 | MASTER- | (03h 32m 37.36s , -52d 03m 41.9s) | C | 60 | 16.0 | 79426 | 2020-03-08 19:30:15 | MASTER- | (03h 20m 54.29s , -52d 05m 03.6s) | C | 60 | 16.0 | 79796 | 2020-03-08 19:36:25 | MASTER- | (03h 32m 42.52s , -52d 02m 01.5s) | C | 60 | 14.8 | 79796 | 2020-03-08 19:36:25 | MASTER- | (03h 20m 59.66s , -52d 03m 21.9s) | C | 60 | 13.8 | 80537 | 2020-03-08 19:48:45 | MASTER- | (03h 54m 22.18s , -56d 01m 04.6s) | C | 60 | 12.5 | 80801 | 2020-03-08 19:53:10 | MASTER-IAC | (04h 01m 18.77s , -42d 02m 56.1s) | C | 60 | 16.0 | 80801 | 2020-03-08 19:53:10 | MASTER-IAC | (03h 50m 29.24s , -41d 59m 08.7s) | C | 60 | 15.6 | 81035 | 2020-03-08 19:57:04 | MASTER-IAC | (03h 54m 02.04s , -40d 05m 26.5s) | C | 60 | 16.4 | 81035 | 2020-03-08 19:57:04 | MASTER-IAC | (03h 43m 31.17s , -40d 01m 35.4s) | C | 60 | 15.9 | 81152 | 2020-03-08 19:59:01 | MASTER-IAC | (03h 50m 33.11s , -42d 01m 10.6s) | C | 60 | 16.1 | 81152 | 2020-03-08 19:59:01 | MASTER-IAC | (04h 01m 23.43s , -42d 04m 60.0s) | C | 60 | 16.4 | 81391 | 2020-03-08 20:03:00 | MASTER-IAC | (03h 43m 33.08s , -40d 01m 24.5s) | C | 60 | 16.2 | 81391 | 2020-03-08 20:03:00 | MASTER-IAC | (03h 54m 04.42s , -40d 05m 16.0s) | C | 60 | 16.7 | 81512 | 2020-03-08 20:05:01 | MASTER-IAC | (03h 37m 17.78s , -38d 00m 07.6s) | C | 60 | 16.5 | 81512 | 2020-03-08 20:05:01 | MASTER-IAC | (03h 47m 31.50s , -38d 04m 01.6s) | C | 60 | 16.7 | 81634 | 2020-03-08 20:07:02 | MASTER-IAC | (04h 22m 50.91s , -42d 03m 38.7s) | C | 60 | 16.8 | 81634 | 2020-03-08 20:07:02 | MASTER-IAC | (04h 12m 00.42s , -41d 59m 49.2s) | C | 60 | 16.4 | 81755 | 2020-03-08 20:09:03 | MASTER-IAC | (04h 14m 55.21s , -40d 02m 57.5s) | C | 60 | 16.9 | 81755 | 2020-03-08 20:09:03 | MASTER-IAC | (04h 04m 24.10s , -39d 59m 05.6s) | C | 60 | 16.5 | 81757 | 2020-03-08 20:09:06 | MASTER- | (03h 46m 12.22s , -64d 02m 32.7s) | C | 60 | 13.6 | 81874 | 2020-03-08 20:11:03 | MASTER-IAC | (03h 37m 17.77s , -38d 01m 02.0s) | C | 60 | 16.5 | 81874 | 2020-03-08 20:11:03 | MASTER-IAC | (03h 47m 31.88s , -38d 04m 54.6s) | C | 60 | 16.7 | 81995 | 2020-03-08 20:13:04 | MASTER-IAC | (04h 22m 51.35s , -42d 04m 42.6s) | C | 60 | 16.8 | 81995 | 2020-03-08 20:13:04 | MASTER-IAC | (04h 12m 00.31s , -42d 00m 53.2s) | C | 60 | 16.4 | 82112 | 2020-03-08 20:15:01 | MASTER-IAC | (04h 15m 02.11s , -40d 04m 40.1s) | C | 60 | 17.0 | 82112 | 2020-03-08 20:15:01 | MASTER-IAC | (04h 04m 30.27s , -40d 00m 48.2s) | C | 60 | 16.5 | 82231 | 2020-03-08 20:16:59 | MASTER-IAC | (03h 41m 31.47s , -36d 04m 35.2s) | C | 60 | 17.1 | 82348 | 2020-03-08 20:18:56 | MASTER-IAC | (03h 51m 20.42s , -36d 01m 20.8s) | C | 60 | 16.7 | 82348 | 2020-03-08 20:18:56 | MASTER-IAC | (04h 01m 19.25s , -36d 05m 16.8s) | C | 60 | 17.0 | 82584 | 2020-03-08 20:22:53 | MASTER-IAC | (03h 41m 28.39s , -36d 05m 11.9s) | C | 60 | 17.0 | 82702 | 2020-03-08 20:24:51 | MASTER-IAC | (04h 01m 15.40s , -36d 03m 33.4s) | C | 60 | 16.9 | 82702 | 2020-03-08 20:24:51 | MASTER-IAC | (03h 51m 16.27s , -35d 59m 37.4s) | C | 60 | 16.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200306.95: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27327, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) was pointed to the Swift GRB200306.95 (trigger No 960102,13h 14m 19.68s , +11d 15m 18.0s, R=0.05) errorbox 18 sec after notice time and 63 sec after trigger time at 2020-03-06 22:51:42 UT, with upper limit up to 18.9 mag. The observations began at zenith distance = 32 deg. The sun altitude is -47.4 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the Swift GRB200306.95 errorbox 40 sec after notice time and 85 sec after trigger time at 2020-03-06 22:52:04 UT, with upper limit up to 18.9 mag. The observations began at zenith distance = 36 deg. The sun altitude is -49.3 deg. The galactic latitude b = 73 deg., longitude l = 324 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1306689 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 69 | MASTER-Kislovodsk | P- | 10 | 16.9 | 89 | MASTER-Kislovodsk | P- | 50 | 18.0 | Coadd 69 | MASTER-Kislovodsk | P| | 10 | 16.8 | 89 | MASTER-Kislovodsk | P| | 50 | 17.9 | Coadd 91 | MASTER-Kislovodsk | P- | 20 | 17.4 | 91 | MASTER-Kislovodsk | P| | 20 | 17.2 | 96 | MASTER-Tavrida | C | 20 | 17.5 | 121 | MASTER-Tavrida | C | 70 | 18.2 | Coadd 117 | MASTER-Kislovodsk | P- | 20 | 17.3 | 117 | MASTER-Kislovodsk | P| | 20 | 17.2 | 136 | MASTER-Tavrida | C | 20 | 17.5 | 149 | MASTER-Kislovodsk | P- | 30 | 17.1 | 149 | MASTER-Kislovodsk | P| | 30 | 17.5 | 184 | MASTER-Kislovodsk | P| | 100 | 18.3 |

Coadd 181 | MASTER-Tavrida | C | 30 | 17.7 | 185 | MASTER-Kislovodsk | P- | 30 | 17.6 | 230 | MASTER-Kislovodsk | P- | 120 | 18.5 | Coadd 185 | MASTER-Kislovodsk | P| | 30 | 17.5 | 227 | MASTER-Kislovodsk | P- | 40 | 17.9 | 227 | MASTER-Kislovodsk | P| | 40 | 17.6 | 237 | MASTER-Tavrida | C | 40 | 18.0 | 297 | MASTER-Tavrida | C | 160 | 18.9 | Coadd 278 | MASTER-Kislovodsk | P- | 50 | 18.1 | 278 | MASTER-Kislovodsk | P| | 50 | 17.8 | 343 | MASTER-Kislovodsk | P| | 180 | 18.6 | Coadd 302 | MASTER-Tavrida | C | 50 | 18.2 | 340 | MASTER-Kislovodsk | P- | 60 | 18.2 | 420 | MASTER-Kislovodsk | P- | 220 | 18.9 | Coadd 340 | MASTER-Kislovodsk | P| | 60 | 17.9 | 383 | MASTER-Tavrida | C | 70 | 18.3 | 411 | MASTER-Kislovodsk | P- | 70 | 18.2 | 411 | MASTER-Kislovodsk | P| | 70 | 18.1 | 483 | MASTER-Tavrida | C | 90 | 18.5 | 498 | MASTER-Kislovodsk | P- | 90 | 18.2 | 498 | MASTER-Kislovodsk | P| | 90 | 18.1 | 605 | MASTER-Kislovodsk | P- | 110 | 18.2 | 605 | MASTER-Kislovodsk | P| | 110 | 18.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Kuvshinov, D., Tyurina, N., Balanutsa, P., Kuznetsov, A., Vlasenko, D., Balakin, F., et al. Swift GRB200306.95: Global MASTER-Net OT detection // GRB Coordinates Network, 2020, V. 27325, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) was pointed to the GRB200306.95 20 sec after notice time and 63 sec after trigger time at 2020-03-06 22:51:42 UT. On our first (10s exposure) set we found 1 optical transient within Swift error-box (ra=198.579 dec=11.2547 r=0.05) brighter than 16.3. T-Tmid Date Time Expt. Ra Dec Mag ---------|---------------------|-------|-----------------|-----------------|------- 68 2020-03-06 22:51:42 10 (13h 14m 13.43s , +11d 16m 11.4s) 14.1 The 5-sigma upper limit has been about 16.3mag The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Kuvshinov, D., Tyurina, N., Balanutsa, P., Kuznetsov, A., Vlasenko, D., Balakin, F., et al. Swift GRB200306.95: Global MASTER-Net OT detection // GRB Coordinates Network, 2020, V. 27324, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) was pointed to the GRB200306.95 41 sec after notice time and 85 sec after trigger time at 2020-03-06 22:52:04 UT. On our first (20s exposure) set we found 1 optical transient within Swift error-box (ra=198.579 dec=11.2547 r=0.05) brighter than 17.0. T-Tmid Date Time Expt. Ra Dec Mag ---------|---------------------|-------|-----------------|-----------------|------- 95 2020-03-06 22:52:04 20 (13h 14m 13.50s , +11d 16m 12.0s) 14.9 The 5-sigma upper limit has been about 17.0mag The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200306.01: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27319, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the Swift GRB200306.01 (trigger No 959917,06h 44m 24.72s , -62d 00m 18.0s, R=0.00130556) errorbox 12 sec after notice time and 49 sec after trigger time at 2020-03-06 00:21:46 UT, with upper limit up to 18.5 mag. The observations began at zenith distance = 31 deg. The sun altitude is -17.1 deg. The galactic latitude b = -24 deg., longitude l = 272 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1305993 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 55 | MASTER-OAFA | C | 10 | 17.2 | 96 | MASTER-OAFA | C | 10 | 17.2 | 144 | MASTER-OAFA | C | 20 | 17.7 | 201 | MASTER-OAFA | C | 30 | 18.0 | 274 | MASTER-OAFA | C | 50 | 18.3 | 361 | MASTER-OAFA | C | 60 | 18.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200303.11: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27296, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) was pointed to the Swift GRB200303.11 (trigger No 959431,14h 10m 47.52s , +51d 21m 36.0s, R=0.05) errorbox 124 sec after notice time and 148 sec after trigger time at 2020-03-03 02:37:26 UT, with upper limit up to 18.0 mag. The observations began at zenith distance = 31 deg. The sun altitude is -61.2 deg. The galactic latitude b = 62 deg., longitude l = 96 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1303174 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 154 | MASTER-IAC | P- | 10 | 16.7 | 154 | MASTER-IAC | P| | 10 | 16.3 | 182 | MASTER-IAC | P- | 20 | 17.3 | 182 | MASTER-IAC | P| | 20 | 17.0 | 221 | MASTER-IAC | P- | 20 | 17.3 | 221 | MASTER-IAC | P| | 20 | 16.9 | 257 | MASTER-IAC | P- | 30 | 17.6 | 257 | MASTER-IAC | P| | 30 | 17.4 | 307 | MASTER-IAC | P| | 40 | 17.5 | 307 | MASTER-IAC | P- | 40 | 17.8 | 364 | MASTER-IAC | P| | 50 | 17.7 | 364 | MASTER-IAC | P- | 50 | 18.0 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 604895668: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27295, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB200303.11 (trigger No 604895668,13h 49m 45.60s , +50d 45m 00.0s, R=3.8) errorbox 174 sec after notice time and 182 sec after trigger time at 2020-03-03 02:37:26 UT, with upper limit up to 17.2 mag. The observations began at zenith distance = 31 deg. The sun altitude is -61.2 deg. The galactic latitude b = 64 deg., longitude l = 101 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1303204 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 187 | 2020-03-03 02:37:26 | MASTER-IAC | (14h 09m 12.58s , +51d 33m 11.2s) | P- | 10 | 16.7 | 187 | 2020-03-03 02:37:26 | MASTER-IAC | (14h 10m 24.06s , +51d 28m 50.4s) | P| | 10 | 16.3 | 216 | 2020-03-03 02:37:49 | MASTER-IAC | (14h 09m 10.53s , +51d 33m 11.5s) | P- | 20 | 17.3 | 216 | 2020-03-03 02:37:49 | MASTER-IAC | (14h 10m 21.98s , +51d 28m 50.5s) | P| | 20 | 17.0 | 255 | 2020-03-03 02:38:28 | MASTER-IAC | (14h 09m 10.64s , +51d 34m 11.7s) | P- | 20 | 17.3 | 255 | 2020-03-03 02:38:28 | MASTER-IAC | (14h 10m 22.08s , +51d 29m 50.4s) | P| | 20 | 16.9 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200302c: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27277, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the LIGO/Virgo S200302c errorbox 2 sec after notice time and 208 sec after trigger time at 2020-03-02 02:01:39 UT, with upper limit up to 17.5 mag. The observations began at zenith distance = 71 deg. The sun altitude is -19.7 deg. The galactic latitude b = -3 deg., longitude l = 317 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11407 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 228 | 2020-03-02 02:01:39 | MASTER-Kislovodsk | (22h 50m 53.42s , +46d 08m 51.7s) | C | 40 | 17.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Shumkov, V., Pogrosheva, T., Lipunov, V., Kornilov, V., Gress, O., Gorbovskoy, E., Vladimirov, V., Tyurina, N., Kuznetsov, A., et al. MASTER: PSN in spiral ESO342-034 // The Astronomer's Telegram, 2020, V. 13595, p. 1
MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 21h 18m 17.43s -38d 12m 02.7s on 2020-03-25 02:25:40 UT. The OT unfiltered magnitude is 17.0m (mlim=18.9).

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Pogrosheva, T., Lipunov, V., Kornilov, V., Gress, O., Gorbovskoy, E., Balanutsa, P., Vladimirov, V., Tyurina, N., Kuznetsov, A., et al. MASTER: possibly optical counterpart of Fermi GRB 200325B // The Astronomer's Telegram, 2020, V. 13591, p. 1
MASTER Global Robotic Net inspected GRB 200325B: Fermi trigger 606840801, Ttr=2020-03-05 14:53:16 UT, GCN #27441, MASTER report GCN #27442, MASTER map and OT position.

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Pogrosheva, T., Lipunov, V., Buckley, D., Kornilov, V., Gress, O., Gorbovskoy, E., Balanutsa, P., Vladimirov, V., Tyurina, N., et al. MASTER-SAAO: new OT with ampl>5.4m // The Astronomer's Telegram, 2020, V. 13568, p. 1
MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L)) discovered OT source at (RA, Dec) = 17h 30m 10.69s -74d 38m 22.1s on 2020-03-18.91581 UT. The OT unfiltered magnitude is 16.6m (mlim=19.8).

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Shumkov, V., Lipunov, V., Kornilov, V., Gress, O., Gorbovskoy, E., Balanutsa, P., Vladimirov, V., Tyurina, N., Kuznetsov, A., et al. MASTER: possibly Nova outburst, ampl>8m // The Astronomer's Telegram, 2020, V. 13567, p. 1
MASTER-Tavrida auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 349171) discovered OT source at (RA, Dec) = 06h 16m 42.05s +43d 56m 17.9s on 2020-03-18.92777 UT. The OT unfiltered magnitude is 15.0m (automatic, +-0.1, mlim=18.7).

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Koryukova, T., Lipunov, V., Kornilov, V., Gress, O., Gorbovskoy, E., Vladimirov, V., Tyurina, N., Kuznetsov, A., Vlasenko, D., et al. MASTER: new OT with amplitude more then 6m // The Astronomer's Telegram, 2020, V. 13552, p. 1
AT2020elc MASTER-OAFA auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 14h 14m 01.39s -48d 33m 05.7s on 2020-03-13.20671 UT. The OT unfiltered magnitude is 16.4m (mlim=18.2).

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Balanutsa, P., Lipunov, V., Kornilov, V., Gress, O., Gorbovskoy, E., Vladimirov, V., Tyurina, N., Kuznetsov, A., Vlasenko, D., et al. MASTER detection of the outburst with duration less then 39h // The Astronomer's Telegram, 2020, V. 13543, p. 1
MASTER-Kislovodsk auto-detection system (Lipunov et al., "MASTER Global Robotic Net",Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 05h 49m 05.59s +58d 25m 07.4s on 2020-03-04.89435 UT. The OT unfiltered magnitude is 17.7m (mlim=18.7).

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Pogrosheva, T., Lipunov, V., Kornilov, V., Gress, O., Tyurina, N., Balanutsa, P., Gorbovskoy, E., Kuznetsov, A., Vladimirov, V., et al. MASTER: bright outburst with ampl>6.4m // The Astronomer's Telegram, 2020, V. 13537, p. 1
MASTER-Tunka auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 22h 02m 20.89s +81d 45m 32.5s on 2020-03-02 17:22:57UT.

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Ershova, O. A., Lipunov, V. M., Gorbovskoy, E. S., Tyurina, N. V., Kornilov, V. G., Zimnukhov, D. S., Gabovich, A., Gress, O. A., Budnev, N. M., et al. Early Optical Observations of Gamma-Ray Bursts Compared with Their Gamma- and X-Ray Characteristics Using a MASTER Global Network of Robotic Telescopes from Lomonosov Moscow State University // Astronomy Reports, 2020, V. 64, p. 126-158
<sec id="ASec1"><title>Abstract—We present the results of early observations for 130 error-boxes of gamma-ray bursts performed with the Mobile Astronomical System of TElescope-Robots (MASTER) global network of robotic telescopes from Moscow State University in fully automatic mode (2011-2017). Among them, GRB 130907A, GRB 120811C, GRB 110801A, GRB 120404A, GRB 140129B, GRB140311B, and GRB 160227A are considered in details. Among these 130 gamma-ray bursts, in the first 60 s after the trigger with the Swift, Fermi, INTEGRAL, MAXI, Lomonosov, and Konus-Wind orbital observatories, the MASTER was pointed on 51 gamma-ray bursts, being the leader in terms of the first pointing. Full observation automation and MASTER own real-time image processing software allowed us to obtain unique data on early optical emission that accompanied 44 gamma-ray bursts (GRB 110801A, GRB120106A, GRB 120404A, GRB 120811C, GRB 120907A, GRB 121011A, GRB 130122A, GRB 130907A, GRB 131030A, GRB 131125A, GRB 140103A, GRB 140108A, GRB 140129B, GRB 140206A, GRB 140304A, GRB 140311B, GRB 140512A, GRB 140629A, GRB 140801A, GRB140907A, GRB 140930B, GRB141028A, GRB 141225A, GRB 150210A, GRB 150211A, GRB 150301B, GRB 150323C, GRB 150404A/Fermi trigger 449861706, GRB 150403A, GRB 150413A, GRB 150518A, GRB 150627A, GRB 151021A, GRB 151215A, GRB 160104A, GRB 160117B, GRB 160131A, GRB 160227A, GRB 160425A, GRB 160611A, GRB 160625B, GRB 160804A, GRB 160910A, GRB 161017A, GRB 161117A, GRB 161119A). We obtain light curves for 13 gamma-ray bursts among the above listed ones and compare the data in the optical (MASTER), X-ray (Swift-XRT), and hard X-ray (Swift-BAT) ranges.</sec>

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-29 // Transient Name Server Discovery Report, 2020, V. 2020-674, p. 1

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Lipunov, E. G. V., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., Gorbunov, I., et al. MASTER Transient Discovery Report for 2020-02-29 // Transient Name Server Discovery Report, 2020, V. 2020-673, p. 1

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Gorbovskoy, E., Lipunov, V., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-02-29 // Transient Name Server Discovery Report, 2020, V. 2020-672, p. 1

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Gorbovskoy, E., Lipunov, V., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-02-29 // Transient Name Server Discovery Report, 2020, V. 2020-671, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-02-28 // Transient Name Server Discovery Report, 2020, V. 2020-663, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-28 // Transient Name Server Discovery Report, 2020, V. 2020-662, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-02-26 // Transient Name Server Discovery Report, 2020, V. 2020-637, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-26 // Transient Name Server Discovery Report, 2020, V. 2020-636, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-24 // Transient Name Server Discovery Report, 2020, V. 2020-610, p. 1

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Gress, O., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-22 // Transient Name Server Discovery Report, 2020, V. 2020-591, p. 1

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Pogrosheva, T., Gress, O., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., et al. MASTER Transient Discovery Report for 2020-02-20 // Transient Name Server Discovery Report, 2020, V. 2020-565, p. 1

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Gorbovskoy, R., Lipunov, V., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-02-19 // Transient Name Server Discovery Report, 2020, V. 2020-553, p. 1

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Balanutsa, P., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-19 // Transient Name Server Discovery Report, 2020, V. 2020-552, p. 1

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Balanutsa, P., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-02-19 // Transient Name Server Discovery Report, 2020, V. 2020-551, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-17 // Transient Name Server Discovery Report, 2020, V. 2020-523, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-16 // Transient Name Server Discovery Report, 2020, V. 2020-516, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-15 // Transient Name Server Discovery Report, 2020, V. 2020-505, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-02-14 // Transient Name Server Discovery Report, 2020, V. 2020-485, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-02-13 // Transient Name Server Discovery Report, 2020, V. 2020-470, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-13 // Transient Name Server Discovery Report, 2020, V. 2020-469, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-12 // Transient Name Server Discovery Report, 2020, V. 2020-457, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-07 // Transient Name Server Discovery Report, 2020, V. 2020-416, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-02-05 // Transient Name Server Discovery Report, 2020, V. 2020-396, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-02-04 // Transient Name Server Discovery Report, 2020, V. 2020-384, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-02-03 // Transient Name Server Discovery Report, 2020, V. 2020-372, p. 1

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Shumkov, V., Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., et al. MASTER Transient Discovery Report for 2020-02-02 // Transient Name Server Discovery Report, 2020, V. 2020-363, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-01 // Transient Name Server Discovery Report, 2020, V. 2020-352, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-02-01 // Transient Name Server Discovery Report, 2020, V. 2020-351, p. 1

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Markidonov, A. V., Starostenkov, M. D., Zakharov, P. V., Lubyanoi, D. A., & Lipunov, V. N. Emission of Dislocation Loops from Nanovoids in an FCC Crystal Subjected to Shear Deformation under Post-Cascade Shock Waves // Soviet Journal of Experimental and Theoretical Physics, 2020, V. 129, p. 985-989
The method of molecular dynamics is applied to the study of the effect of post-cascade shock waves generated in a solid irradiated by high-energy particles on the heterogeneous formation of dislocation loops in a simulated gold crystal containing a spherical nanovoid, which is subjected to shear deformation. The interaction between atoms is described with the use of a potential calculated by the embedded atom method. Shock waves are created by assigning a velocity exceeding the speed of sound in the simulated material to the boundary atoms of the computational cell. It is shown that two regions of increased mechanical stress are formed under shear deformation near the surface of a nanovoid, which are the sources of emerging partial dislocations. The main mechanism for the formation of dislocations is the displacement of a group of atoms towards the inner surface of the void, which does not contradict modern ideas about the heterogeneous formation of dislocations. It is shown that, when the values of shear stress are insufficient for the formation of dislocations, loop emission can be initiated by a post-cascade shock wave generated in the computational cell. As temperature increases, the number of nucleated dislocation loops increases, and, in addition, the formation of Lomer-Cottrell dislocations is observed, which is attributed to the additional tangential stresses created by the unloading wave. In this case, the formation of a stable dislocation loop in which the linear tension is balanced by the Peach-Koehler force due to external stress requires that the shock wave front affect the regions of increased stress near the void surface while propagating through the simulated crystal.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200228B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27269, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) was pointed to the Swift GRB 200228B (S. Laha et al., GCN 27254) errorbox 45652 sec after trigger time at 2020-02-28 23:55:33 UT, with upper limit up to 18.6 mag. The observations began at zenith distance = 51 deg. The sun altitude is -41.7 deg. The galactic latitude b = 34 deg., longitude l = 36 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1300236 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____|_____ 45742 | MASTER-Kislovodsk | C | 180 | 18.4 | 45742 | MASTER-Kislovodsk | C | 180 | 18.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 604565918: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27252, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB200228.29 (trigger No 604565918,21h 52m 02.40s , -46d 27m 00.0s, R=1.51) errorbox 5750 sec after trigger time at 2020-02-28 08:34:23 UT, with upper limit up to 18.9 mag. The observations began at zenith distance = 81 deg. The sun altitude is -23.1 deg. The galactic latitude b = -51 deg., longitude l = 352 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1300070 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 5840 | 2020-02-28 08:34:23 | MASTER-OAFA | (21h 50m 46.37s , -46d 04m 53.9s) | C | 180 | 17.4 | 6054 | 2020-02-28 08:37:58 | MASTER-OAFA | (21h 50m 58.67s , -46d 06m 26.5s) | C | 180 | 18.1 | 7542 | 2020-02-28 09:02:45 | MASTER-OAFA | (21h 47m 01.75s , -47d 53m 08.8s) | C | 180 | 18.5 | 7753 | 2020-02-28 09:06:16 | MASTER-OAFA | (21h 46m 54.08s , -47d 53m 30.7s) | C | 180 | 18.9 | 7964 | 2020-02-28 09:09:48 | MASTER-OAFA | (21h 58m 56.72s , -46d 34m 38.3s) | C | 180 | 18.6 | 8175 | 2020-02-28 09:13:19 | MASTER-OAFA | (21h 59m 03.86s , -46d 35m 37.3s) | C | 180 | 18.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 604231129: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27208, p. 1

R. Podesta, C.Lopez, F. Podesta, C.Francile (Observatorio Astronomico Felix Aguilar OAFA), H.Levato (Instituto de Ciencias Astronomicas, de la Tierra y del Espacio ICATE), R. Rebolo, M. Serra (The Instituto de Astrofisica de Canarias), D. Buckley (South African Astronomical Observatory), O.A. Gres, N.M. Budnev, O.Ershova (Irkutsk State University, API), A. Tlatov, D. Dormidontov (Kislovodsk Solar Station of the Pulkovo Observatory), V. Yurkov, A. Gabovich, Yu. Sergienko (Blagoveschensk Educational State University) MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB200224.42 (trigger No 604231129,18h 02m 04.80s , -56d 51m 00.0s, R=5.99) errorbox 60274 sec after trigger time at 2020-02-25 02:43:19 UT, with upper limit up to 18.1 mag. The observations began at zenith distance = 80 deg. The sun altitude is -39.7 deg. The galactic latitude b = -17 deg., longitude l = 337 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1296212 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 55266 | 2020-02-25 01:19:20 | MASTER- | (17h 59m 18.60s , -58d 00m 13.8s) | C | 60 | 19.2 | 55266 | 2020-02-25 01:19:20 | MASTER- | (18h 12m 41.78s , -57d 59m 20.7s) | C | 60 | 19.3 | 55346 | 2020-02-25 01:20:40 | MASTER- | (17h 31m 30.66s , -55d 59m 28.7s) | C | 60 | 18.9 | 55346 | 2020-02-25 01:20:40 | MASTER- | (17h 44m 11.85s , -55d 58m 32.9s) | C | 60 | 18.8 | 55595 | 2020-02-25 01:24:49 | MASTER- | (17h 59m 24.84s , -57d 58m 22.1s) | C | 60 | 19.3 | 55595 | 2020-02-25 01:24:49 | MASTER- | (18h 12m 47.46s , -57d 57m 28.2s) | C | 60 | 19.3 | 55674 | 2020-02-25 01:26:08 | MASTER- | (17h 31m 24.73s , -55d 58m 46.5s) | C | 60 | 18.9 | 55674 | 2020-02-25 01:26:08 | MASTER- | (17h 44m 05.83s , -55d 57m 49.8s) | C | 60 | 18.8 | 55754 | 2020-02-25 01:27:28 | MASTER- | (17h 34m 42.05s , -53d 58m 01.2s) | C | 60 | 18.9 | 55754 | 2020-02-25 01:27:28 | MASTER- | (17h 46m 46.09s , -53d 57m 04.7s) | C | 60 | 18.8 | 55833 | 2020-02-25 01:28:47 | MASTER- | (18h 28m 43.07s , -56d 00m 03.3s) | C | 60 | 19.6 | 55833 | 2020-02-25 01:28:47 | MASTER- | (18h 41m 24.31s , -55d 59m 10.3s) | C | 60 | 19.6 | 55913 | 2020-02-25 01:30:07 | MASTER- | (18h 29m 29.37s , -58d 00m 52.7s) | C | 60 | 19.5 | 55913 | 2020-02-25 01:30:07 | MASTER- | (18h 42m 53.11s , -57d 59m 59.9s) | C | 60 | 19.5 | 56084 | 2020-02-25 01:32:58 | MASTER- | (17h 46m 48.43s , -53d 57m 16.2s) | C | 60 | 18.8 | 56084 | 2020-02-25 01:32:58 | MASTER- | (17h 34m 44.10s , -53d 58m 13.4s) | C | 60 | 18.8 | 56163 | 2020-02-25 01:34:18 | MASTER- | (18h 28m 39.63s , -56d 01m 03.0s) | C | 60 | 19.5 | 56163 | 2020-02-25 01:34:18 | MASTER- | (18h 41m 21.51s , -56d 00m 09.7s) | C | 60 | 19.5 | 56243 | 2020-02-25 01:35:37 | MASTER- | (18h 29m 36.58s , -57d 58m 54.8s) | C | 60 | 19.6 | 56243 | 2020-02-25 01:35:37 | MASTER- | (18h 42m 59.69s , -57d 58m 01.6s) | C | 60 | 19.5 | 56653 | 2020-02-25 01:42:27 | MASTER- | (18h 29m 12.48s , -54d 01m 12.4s) | C | 60 | 19.6 | 56653 | 2020-02-25 01:42:27 | MASTER- | (18h 41m 16.90s , -54d 00m 18.2s) | C | 60 | 19.7 | 56982 | 2020-02-25 01:47:56 | MASTER- | (18h 29m 05.27s , -54d 00m 22.8s) | C | 60 | 19.6 | 56982 | 2020-02-25 01:47:57 | MASTER- | (18h 41m 09.50s , -53d 59m 28.6s) | C | 60 | 19.7 | 57062 | 2020-02-25 01:49:16 | MASTER- | (18h 02m 06.15s , -61d 58m 04.1s) | C | 60 | 19.5 | 57062 | 2020-02-25 01:49:16 | MASTER- | (18h 17m 12.37s , -61d 57m 09.0s) | C | 60 | 19.4 | 57142 | 2020-02-25 01:50:36 | MASTER- | (17h 28m 06.54s , -59d 58m 32.8s) | C | 60 | 19.6 | 57142 | 2020-02-25 01:50:36 | MASTER- | (17h 42m 18.12s , -59d 57m 34.3s) | C | 60 | 19.5 | 57222 | 2020-02-25 01:51:56 | MASTER- | (17h 28m 02.96s , -61d 59m 24.1s) | C | 60 | 19.7 | 57222 | 2020-02-25 01:51:56 | MASTER- | (17h 43m 10.30s , -61d 58m 26.1s) | C | 60 | 19.5 | 57301 | 2020-02-25 01:53:16 | MASTER- | (18h 00m 07.40s , -56d 00m 25.2s) | C | 60 | 19.2 | 57302 | 2020-02-25 01:53:16 | MASTER- | (18h 12m 49.07s , -55d 59m 28.1s) | C | 60 | 19.5 | 57381 | 2020-02-25 01:54:36 | MASTER- | (18h 02m 09.35s , -61d 58m 10.5s) | C | 60 | 19.5 | 57381 | 2020-02-25 01:54:36 | MASTER- | (18h 17m 15.60s , -61d 57m 14.4s) | C | 60 | 19.5 | 57461 | 2020-02-25 01:55:55 | MASTER- | (17h 28m 03.69s , -59d 59m 23.8s) | C | 60 | 19.6 | 57461 | 2020-02-25 01:55:55 | MASTER- | (17h 42m 15.58s , -59d 58m 25.0s) | C | 60 | 19.5 | 57541 | 2020-02-25 01:57:15 | MASTER- | (17h 28m 10.43s , -61d 57m 30.3s) | C | 60 | 19.8 | 57541 | 2020-02-25 01:57:15 | MASTER- | (17h 43m 16.70s , -61d 56m 31.8s) | C | 60 | 19.6 | 57621 | 2020-02-25 01:58:35 | MASTER- | (18h 00m 01.86s , -55d 59m 35.2s) | C | 60 | 19.2 | 57621 | 2020-02-25 01:58:35 | MASTER- | (18h 12m 43.23s , -55d 58m 37.9s) | C | 60 | 19.5 | 58516 | 2020-02-25 02:13:30 | MASTER- | (18h 30m 50.76s , -52d 01m 49.0s) | C | 60 | 19.5 | 58516 | 2020-02-25 02:13:30 | MASTER- | (18h 42m 22.62s , -52d 00m 53.4s) | C | 60 | 19.5 | 58596 | 2020-02-25 02:14:50 | MASTER- | (18h 02m 00.72s , -54d 00m 53.8s) | C | 60 | 19.5 | 58596 | 2020-02-25 02:14:50 | MASTER- | (18h 14m 05.54s , -53d 59m 55.6s) | C | 60 | 19.5 | 58846 | 2020-02-25 02:19:00 | MASTER- | (18h 30m 58.46s , -52d 00m 16.2s) | C | 60 | 19.5 | 58846 | 2020-02-25 02:19:00 | MASTER- | (18h 42m 30.12s , -51d 59m 19.0s) | C | 60 | 19.5 | 58926 | 2020-02-25 02:20:20 | MASTER- | (18h 01m 56.17s , -54d 00m 01.9s) | C | 60 | 19.5 | 58926 | 2020-02-25 02:20:20 | MASTER- | (18h 14m 00.90s , -53d 59m 01.9s) | C | 60 | 19.5 | 59005 | 2020-02-25 02:21:39 | MASTER- | (17h 15m 35.89s , -55d 56m 37.8s) | C | 60 | 19.2 | 59085 | 2020-02-25 02:22:59 | MASTER- | (17h 19m 43.37s , -53d 57m 53.9s) | C | 60 | 19.1 | 59165 | 2020-02-25 02:24:19 | MASTER- | (17h 12m 27.85s , -57d 58m 25.3s) | C | 60 | 19.4 | 59244 | 2020-02-25 02:25:39 | MASTER- | (17h 29m 18.76s , -57d 59m 55.6s) | C | 60 | 19.1 | 59244 | 2020-02-25 02:25:39 | MASTER- | (17h 42m 43.22s , -57d 58m 52.4s) | C | 60 | 19.0 | 59324 | 2020-02-25 02:26:58 | MASTER- | (17h 15m 39.17s , -55d 56m 57.0s) | C | 60 | 19.2 | 59404 | 2020-02-25 02:28:18 | MASTER- | (17h 19m 41.68s , -53d 58m 42.8s) | C | 60 | 19.1 | 59484 | 2020-02-25 02:29:38 | MASTER- | (17h 12m 32.95s , -57d 56m 51.1s) | C | 60 | 19.4 | 59564 | 2020-02-25 02:30:58 | MASTER- | (17h 29m 12.78s , -57d 59m 09.2s) | C | 60 | 18.9 | 59564 | 2020-02-25 02:30:58 | MASTER- | (17h 42m 36.99s , -57d 58m 05.9s) | C | 60 | 19.0 | 59644 | 2020-02-25 02:32:18 | MASTER- | (18h 36m 12.38s , -61d 59m 09.8s) | C | 60 | 19.1 | 59723 | 2020-02-25 02:33:37 | MASTER- | (17h 24m 38.05s , -51d 58m 12.5s) | C | 60 | 18.7 | 59803 | 2020-02-25 02:34:57 | MASTER- | (18h 00m 01.36s , -60d 00m 37.3s) | C | 60 | 19.3 | 59803 | 2020-02-25 02:34:57 | MASTER- | (18h 14m 14.07s , -59d 59m 35.8s) | C | 60 | 19.5 | 59883 | 2020-02-25 02:36:17 | MASTER- | (17h 10m 24.44s , -59d 58m 09.4s) | C | 60 | 19.5 | 59962 | 2020-02-25 02:37:37 | MASTER- | (18h 36m 15.71s , -61d 59m 37.3s) | C | 60 | 19.0 | 60042 | 2020-02-25 02:38:56 | MASTER- | (17h 24m 34.32s , -51d 58m 48.7s) | C | 60 | 18.7 | 60122 | 2020-02-25 02:40:16 | MASTER- | (18h 00m 07.51s , -59d 59m 09.5s) | C | 60 | 19.3 | 60122 | 2020-02-25 02:40:16 | MASTER- | (18h 14m 19.43s , -59d 58m 07.2s) | C | 60 | 19.5 | 60202 | 2020-02-25 02:41:36 | MASTER- | (17h 10m 17.70s , -59d 57m 23.2s) | C | 60 | 19.6 | 60282 | 2020-02-25 02:42:56 | MASTER- | (18h 57m 18.24s , -56d 00m 09.9s) | C | 60 | 19.2 | 60305 | 2020-02-25 02:43:19 | MASTER-OAFA | (17h 45m 58.71s , -64d 00m 22.6s) | C | 60 | 17.6 | 60361 | 2020-02-25 02:44:15 | MASTER- | (18h 59m 52.30s , -58d 01m 01.4s) | C | 60 | 19.5 | 60441 | 2020-02-25 02:45:35 | MASTER- | (18h 04m 55.27s , -52d 01m 26.1s) | C | 60 | 19.2 | 60441 | 2020-02-25 02:45:35 | MASTER- | (18h 16m 27.60s , -52d 00m 23.2s) | C | 60 | 19.5 | 60601 | 2020-02-25 02:48:15 | MASTER- | (18h 57m 20.42s , -56d 00m 38.0s) | C | 60 | 19.8 | 60680 | 2020-02-25 02:49:34 | MASTER- | (18h 59m 48.85s , -58d 02m 01.2s) | C | 60 | 19.9 | 60760 | 2020-02-25 02:50:54 | MASTER- | (18h 16m 33.19s , -51d 58m 46.4s) | C | 60 | 19.5 | 60760 | 2020-02-25 02:50:54 | MASTER- | (18h 05m 01.21s , -51d 59m 49.9s) | C | 60 | 19.6 | 60864 | 2020-02-25 02:52:38 | MASTER-OAFA | (17h 45m 32.00s , -64d 00m 53.7s) | C | 60 | 17.3 | 60999 | 2020-02-25 02:54:53 | MASTER- | (18h 32m 07.53s , -60d 00m 21.0s) | C | 60 | 19.6 | 60999 | 2020-02-25 02:54:53 | MASTER- | (18h 46m 19.57s , -59d 59m 19.8s) | C | 60 | 19.8 | 61329 | 2020-02-25 03:00:23 | MASTER- | (18h 32m 04.73s , -60d 01m 20.9s) | C | 60 | 19.6 | 61329 | 2020-02-25 03:00:23 | MASTER- | (18h 46m 17.22s , -60d 00m 19.2s) | C | 60 | 19.8 | 61663 | 2020-02-25 03:05:57 | MASTER- | (18h 06m 06.38s , -63d 59m 46.2s) | C | 60 | 19.6 | 61663 | 2020-02-25 03:05:57 | MASTER- | (18h 22m 18.38s , -63d 58m 43.6s) | C | 60 | 19.7 | 64067 | 2020-02-25 03:46:01 | MASTER-OAFA | (17h 29m 52.38s , -55d 58m 42.7s) | C | 60 | 16.7 | 64161 | 2020-02-25 03:47:36 | MASTER-OAFA | (18h 00m 24.46s , -62d 00m 23.0s) | C | 60 | 17.2 | 64263 | 2020-02-25 03:49:17 | MASTER-OAFA | (17h 26m 07.79s , -60d 00m 35.7s) | C | 60 | 17.0 | 64361 | 2020-02-25 03:50:55 | MASTER-OAFA | (17h 26m 22.90s , -61d 59m 08.8s) | C | 60 | 17.4 | 64454 | 2020-02-25 03:52:28 | MASTER-OAFA | (17h 29m 48.73s , -56d 00m 28.1s) | C | 60 | 16.8 | 64550 | 2020-02-25 03:54:04 | MASTER-OAFA | (17h 44m 26.44s , -55d 59m 47.1s) | C | 60 | 16.9 | 64642 | 2020-02-25 03:55:36 | MASTER-OAFA | (18h 00m 06.71s , -62d 00m 32.7s) | C | 60 | 17.0 | 64740 | 2020-02-25 03:57:14 | MASTER-OAFA | (18h 17m 28.47s , -62d 00m 46.8s) | C | 60 | 17.2 | 64834 | 2020-02-25 03:58:48 | MASTER-OAFA | (17h 26m 13.05s , -59d 59m 41.6s) | C | 60 | 17.0 | 64928 | 2020-02-25 04:00:22 | MASTER-OAFA | (17h 42m 23.44s , -60d 01m 29.9s) | C | 60 | 17.2 | 65027 | 2020-02-25 04:02:01 | MASTER-OAFA | (17h 26m 07.97s , -62d 00m 30.6s) | C | 60 | 17.1 | 65120 | 2020-02-25 04:03:34 | MASTER-OAFA | (17h 43m 25.41s , -61d 59m 56.9s) | C | 60 | 17.1 | 65214 | 2020-02-25 04:05:09 | MASTER-OAFA | (17h 44m 06.41s , -56d 00m 53.3s) | C | 60 | 16.5 | 65308 | 2020-02-25 04:06:42 | MASTER-OAFA | (18h 17m 34.48s , -62d 00m 47.2s) | C | 60 | 17.1 | 65403 | 2020-02-25 04:08:17 | MASTER-OAFA | (17h 42m 06.97s , -60d 00m 06.7s) | C | 60 | 16.8 | 65500 | 2020-02-25 04:09:54 | MASTER-OAFA | (17h 43m 22.15s , -61d 59m 27.3s) | C | 60 | 17.4 | 65598 | 2020-02-25 04:11:32 | MASTER-OAFA | (17h 57m 34.97s , -58d 01m 27.7s) | C | 60 | 16.5 | 65691 | 2020-02-25 04:13:05 | MASTER-OAFA | (17h 33m 24.58s , -53d 59m 06.2s) | C | 60 | 16.9 | 65783 | 2020-02-25 04:14:37 | MASTER-OAFA | (17h 58m 13.68s , -59d 59m 42.9s) | C | 60 | 16.9 | 65878 | 2020-02-25 04:16:12 | MASTER-OAFA | (17h 58m 38.30s , -56d 00m 02.3s) | C | 60 | 17.0 | 65973 | 2020-02-25 04:17:47 | MASTER-OAFA | (17h 57m 41.40s , -58d 00m 29.2s) | C | 60 | 16.9 | 66067 | 2020-02-25 04:19:21 | MASTER-OAFA | (18h 12m 58.85s , -58d 02m 29.9s) | C | 60 | 17.2 | 66162 | 2020-02-25 04:20:56 | MASTER-OAFA | (17h 33m 11.81s , -54d 00m 31.0s) | C | 60 | 16.9 | 66257 | 2020-02-25 04:22:31 | MASTER-OAFA | (17h 47m 01.25s , -53d 59m 39.0s) | C | 60 | 17.0 | 66351 | 2020-02-25 04:24:06 | MASTER-OAFA | (17h 58m 09.97s , -60d 01m 11.2s) | C | 60 | 17.0 | 66445 | 2020-02-25 04:25:39 | MASTER-OAFA | (18h 14m 31.76s , -60d 00m 36.9s) | C | 60 | 17.3 | 66539 | 2020-02-25 04:27:13 | MASTER-OAFA | (17h 58m 21.73s , -56d 00m 30.4s) | C | 60 | 16.9 | 66635 | 2020-02-25 04:28:49 | MASTER-OAFA | (18h 12m 58.42s , -56d 00m 25.4s) | C | 60 | 17.1 | 66974 | 2020-02-25 04:34:28 | MASTER-OAFA | (18h 12m 41.56s , -58d 01m 48.3s) | C | 60 | 17.2 | 67069 | 2020-02-25 04:36:03 | MASTER-OAFA | (17h 47m 03.75s , -54d 01m 04.0s) | C | 60 | 17.2 | 67166 | 2020-02-25 04:37:40 | MASTER-OAFA | (18h 14m 10.57s , -60d 00m 10.6s) | C | 60 | 17.3 | 67264 | 2020-02-25 04:39:18 | MASTER-OAFA | (18h 13m 00.46s , -56d 02m 19.8s) | C | 60 | 17.5 | 67360 | 2020-02-25 04:40:54 | MASTER-OAFA | (18h 27m 46.22s , -58d 01m 16.4s) | C | 60 | 17.1 | 67455 | 2020-02-25 04:42:29 | MASTER-OAFA | (18h 34m 38.03s , -62d 02m 01.2s) | C | 60 | 17.6 | 67553 | 2020-02-25 04:44:07 | MASTER-OAFA | (18h 27m 04.10s , -56d 02m 10.8s) | C | 60 | 16.9 | 67647 | 2020-02-25 04:45:41 | MASTER-OAFA | (18h 00m 38.53s , -54d 01m 36.3s) | C | 60 | 17.2 | 67742 | 2020-02-25 04:47:16 | MASTER-OAFA | (18h 27m 53.62s , -58d 00m 30.9s) | C | 60 | 17.2 | 67837 | 2020-02-25 04:48:51 | MASTER-OAFA | (18h 43m 12.16s , -58d 02m 19.3s) | C | 60 | 17.3 | 67930 | 2020-02-25 04:50:24 | MASTER-OAFA | (18h 34m 11.76s , -62d 00m 32.9s) | C | 60 | 17.5 | 68121 | 2020-02-25 04:53:35 |

MASTER-OAFA | (18h 26m 58.99s , -56d 02m 16.4s) | C | 60 | 17.0 | 68218 | 2020-02-25 04:55:12 | MASTER-OAFA | (18h 41m 41.42s , -56d 03m 00.5s) | C | 60 | 17.4 | 68310 | 2020-02-25 04:56:44 | MASTER-OAFA | (18h 00m 22.73s , -54d 00m 02.5s) | C | 60 | 17.1 | 68404 | 2020-02-25 04:58:18 | MASTER-OAFA | (18h 14m 15.31s , -54d 02m 10.0s) | C | 60 | 17.4 | 68497 | 2020-02-25 04:59:51 | MASTER-OAFA | (18h 42m 59.58s , -58d 01m 07.8s) | C | 60 | 17.2 | 68682 | 2020-02-25 05:02:57 | MASTER-OAFA | (18h 41m 17.68s , -56d 00m 38.4s) | C | 60 | 17.1 | 68779 | 2020-02-25 05:04:33 | MASTER-OAFA | (18h 14m 17.49s , -54d 01m 06.8s) | C | 60 | 17.5 | 68874 | 2020-02-25 05:06:08 | MASTER-OAFA | (18h 27m 38.58s , -54d 02m 08.3s) | C | 60 | 16.9 | 68968 | 2020-02-25 05:07:42 | MASTER-OAFA | (18h 30m 27.96s , -60d 02m 22.1s) | C | 60 | 17.8 | 69155 | 2020-02-25 05:10:50 | MASTER-OAFA | (18h 03m 56.85s , -64d 00m 54.1s) | C | 60 | 17.8 | 69253 | 2020-02-25 05:12:27 | MASTER-OAFA | (18h 27m 50.55s , -54d 02m 33.4s) | C | 60 | 17.4 | 69345 | 2020-02-25 05:13:59 | MASTER-OAFA | (18h 41m 14.72s , -54d 02m 32.5s) | C | 60 | 16.9 | 69437 | 2020-02-25 05:15:31 | MASTER-OAFA | (18h 30m 28.09s , -60d 00m 42.3s) | C | 60 | 17.8 | 69530 | 2020-02-25 05:17:04 | MASTER-OAFA | (18h 46m 11.44s , -60d 02m 31.5s) | C | 60 | 17.5 | 69712 | 2020-02-25 05:20:06 | MASTER-OAFA | (17h 15m 38.82s , -55d 58m 59.5s) | C | 60 | 17.6 | 69805 | 2020-02-25 05:21:39 | MASTER-OAFA | (18h 03m 50.23s , -63d 59m 51.8s) | C | 60 | 18.0 | 69896 | 2020-02-25 05:23:10 | MASTER-OAFA | (18h 22m 25.98s , -64d 01m 10.6s) | C | 60 | 18.1 | 69987 | 2020-02-25 05:24:41 | MASTER-OAFA | (18h 41m 10.39s , -54d 02m 41.7s) | C | 60 | 17.1 | 70086 | 2020-02-25 05:26:20 | MASTER-OAFA | (18h 46m 32.54s , -60d 02m 56.8s) | C | 60 | 17.9 | 70177 | 2020-02-25 05:27:51 | MASTER-OAFA | (17h 15m 43.35s , -55d 58m 04.6s) | C | 60 | 17.6 | 70269 | 2020-02-25 05:29:23 | MASTER-OAFA | (18h 22m 08.49s , -64d 02m 14.7s) | C | 60 | 17.9 | 70363 | 2020-02-25 05:30:57 | MASTER-OAFA | (18h 29m 35.71s , -52d 01m 21.9s) | C | 60 | 17.4 | 70456 | 2020-02-25 05:32:30 | MASTER-OAFA | (18h 55m 42.88s , -56d 02m 07.0s) | C | 60 | 17.3 | 70550 | 2020-02-25 05:34:04 | MASTER-OAFA | (18h 58m 23.78s , -58d 03m 11.2s) | C | 60 | 18.0 | 70732 | 2020-02-25 05:37:06 | MASTER-OAFA | (18h 29m 43.28s , -52d 00m 30.1s) | C | 60 | 17.6 | 70829 | 2020-02-25 05:38:43 | MASTER-OAFA | (18h 42m 21.27s , -52d 01m 51.0s) | C | 60 | 17.1 | 70923 | 2020-02-25 05:40:17 | MASTER-OAFA | (18h 55m 55.68s , -56d 01m 15.4s) | C | 60 | 17.9 | 71110 | 2020-02-25 05:43:24 | MASTER-OAFA | (18h 58m 18.66s , -58d 03m 19.9s) | C | 60 | 18.1 | 71383 | 2020-02-25 05:47:58 | MASTER-OAFA | (17h 19m 43.76s , -53d 59m 36.0s) | C | 60 | 17.5 | 71475 | 2020-02-25 05:49:29 | MASTER-OAFA | (18h 42m 42.65s , -52d 00m 48.7s) | C | 60 | 17.7 | 71751 | 2020-02-25 05:54:05 | MASTER-OAFA | (17h 19m 46.72s , -53d 58m 57.2s) | C | 60 | 17.6 | 71934 | 2020-02-25 05:57:08 | MASTER-OAFA | (17h 27m 39.93s , -57d 59m 51.5s) | C | 60 | 17.9 | 72298 | 2020-02-25 06:03:12 | MASTER-OAFA | (17h 12m 37.53s , -57d 59m 24.5s) | C | 60 | 17.8 | 72389 | 2020-02-25 06:04:43 | MASTER-OAFA | (17h 27m 40.25s , -57d 58m 07.0s) | C | 60 | 17.8 | 72480 | 2020-02-25 06:06:14 | MASTER-OAFA | (17h 42m 46.60s , -58d 00m 11.5s) | C | 60 | 17.9 | 72663 | 2020-02-25 06:09:17 | MASTER-OAFA | (17h 10m 19.86s , -59d 58m 31.7s) | C | 60 | 17.9 | 72845 | 2020-02-25 06:12:19 | MASTER-OAFA | (17h 24m 39.81s , -51d 58m 56.2s) | C | 60 | 17.2 | 72936 | 2020-02-25 06:13:50 | MASTER-OAFA | (17h 12m 31.33s , -57d 59m 32.7s) | C | 60 | 17.7 | 73027 | 2020-02-25 06:15:21 | MASTER-OAFA | (17h 42m 49.26s , -58d 00m 03.5s) | C | 60 | 17.9 | 73118 | 2020-02-25 06:16:52 | MASTER-OAFA | (17h 10m 23.30s , -59d 57m 56.2s) | C | 60 | 17.9 | 73209 | 2020-02-25 06:18:23 | MASTER-OAFA | (17h 24m 36.85s , -51d 59m 39.1s) | C | 60 | 17.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200225q: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27200, p. 1
R. Podesta, C.Lopez, F. Podesta, C.Francile (Observatorio Astronomico Felix Aguilar OAFA), H.Levato (Instituto de Ciencias Astronomicas, de la Tierra y del Espacio ICATE), R. Rebolo, M. Serra (The Instituto de Astrofisica de Canarias), D. Buckley (South African Astronomical Observatory), O.A. Gres, N.M. Budnev, O.Ershova (Irkutsk State University, API), A. Tlatov, D. Dormidontov (Kislovodsk Solar Station of the Pulkovo Observatory), V. Yurkov, A. Gabovich, Yu. Sergienko (Blagoveschensk Educational State University) MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the LIGO/Virgo S200225q errorbox 15719 sec after trigger time at 2020-02-25 10:26:20 UT, with upper limit up to 18.4 mag. Observations started at twilight. The observations began at zenith distance = 19 deg. The sun altitude is -13.9 deg. The galactic latitude b = 25 deg., longitude l = 169 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11369 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 15810 | 2020-02-25 10:26:20 | MASTER-Amur | (07h 15m 42.44s , +52d 07m 18.8s) | C | 180 | 18.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200224ca: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27186, p. 1
R. Podesta, C.Lopez, F. Podesta, C.Francile (Observatorio Astronomico Felix Aguilar OAFA), H.Levato (Instituto de Ciencias Astronomicas, de la Tierra y del Espacio ICATE), R. Rebolo, M. Serra (The Instituto de Astrofisica de Canarias), D. Buckley (South African Astronomical Observatory), O.A. Gres, N.M. Budnev, O.Ershova (Irkutsk State University, API), A. Tlatov, D. Dormidontov (Kislovodsk Solar Station of the Pulkovo Observatory), V. Yurkov, A. Gabovich, Yu. Sergienko (Blagoveschensk Educational State University) MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the LIGO/Virgo S200224ca errorbox 325 sec after trigger time at 2020-02-24 22:27:59 UT, with upper limit up to 18.2 mag. The observations began at zenith distance = 53 deg. The sun altitude is -53.7 deg. The galactic latitude b = 49 deg., longitude l = 277 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11357 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 347 | 2020-02-24 22:27:51 | MASTER- | (11h 42m 01.93s , -09d 53m 27.1s) | C | 60 | 19.6 | 347 | 2020-02-24 22:27:51 | MASTER- | (11h 34m 56.14s , -09d 54m 43.0s) | C | 60 | 19.6 | 355 | 2020-02-24 22:27:59 | MASTER-Kislovodsk | (11h 34m 39.10s , -09d 50m 29.2s) | C | 60 | 18.2 | 445 | 2020-02-24 22:27:59 | MASTER-Kislovodsk | (11h 34m 39.10s , -09d 50m 29.1s) | C | 240 | 17.9 | Coadd 355 | 2020-02-24 22:27:59 | MASTER-Kislovodsk | (11h 43m 03.44s , -10d 17m 30.1s) | C | 60 | 17.8 | 437 | 2020-02-24 22:29:10 | MASTER- | (11h 42m 04.88s , -09d 52m 42.1s) | C | 80 | 19.7 | 437 | 2020-02-24 22:29:10 | MASTER- | (11h 34m 59.09s , -09d 53m 58.4s) | C | 80 | 19.7 | 446 | 2020-02-24 22:29:19 | MASTER-Kislovodsk | (11h 34m 36.01s , -09d 51m 35.1s) | C | 80 | 16.8 | 446 | 2020-02-24 22:29:19 | MASTER-Kislovodsk | (11h 43m 00.26s , -10d 18m 36.8s) | C | 80 | 16.9 | 546 | 2020-02-24 22:30:50 | MASTER- | (11h 41m 58.48s , -09d 53m 34.6s) | C | 100 | 19.8 | 546 | 2020-02-24 22:30:50 | MASTER- | (11h 34m 52.68s , -09d 54m 51.1s) | C | 100 | 19.8 | 557 | 2020-02-24 22:31:00 | MASTER-Kislovodsk | (11h 34m 42.29s , -09d 51m 09.1s) | C | 100 | 15.6 | 557 | 2020-02-24 22:31:00 | MASTER-Kislovodsk | (11h 43m 06.46s , -10d 18m 10.4s) | C | 100 | 15.8 | 781 | 2020-02-24 22:34:24 | MASTER-Kislovodsk | (11h 34m 40.04s , -09d 37m 01.3s) | C | 140 | 15.9 | 781 | 2020-02-24 22:34:24 | MASTER-Kislovodsk | (11h 43m 04.25s , -10d 04m 06.0s) | C | 140 | 15.8 | 820 | 2020-02-24 22:34:59 | MASTER- | (11h 42m 01.97s , -09d 40m 05.0s) | C | 150 | 19.9 | 820 | 2020-02-24 22:34:59 | MASTER- | (11h 34m 56.44s , -09d 41m 21.8s) | C | 150 | 19.9 | 966 | 2020-02-24 22:37:10 | MASTER-Kislovodsk | (11h 44m 13.13s , -09d 46m 09.6s) | C | 180 | 14.8 | 966 | 2020-02-24 22:37:10 | MASTER-Kislovodsk | (11h 35m 57.55s , -09d 19m 57.4s) | C | 180 | 14.2 | 1005 | 2020-02-24 22:37:48 | MASTER- | (11h 42m 05.26s , -09d 40m 50.2s) | C | 180 | 19.5 | 1005 | 2020-02-24 22:37:48 | MASTER- | (11h 34m 59.65s , -09d 42m 07.0s) | C | 180 | 19.9 | 1167 | 2020-02-24 22:40:31 | MASTER-Kislovodsk | (11h 44m 12.27s , -09d 45m 20.2s) | C | 180 | 13.1 | 1167 | 2020-02-24 22:40:31 | MASTER-Kislovodsk | (11h 35m 56.78s , -09d 19m 09.3s) | C | 180 | 13.3 | 1204 | 2020-02-24 22:41:08 | MASTER- | (11h 42m 01.99s , -09d 39m 27.2s) | C | 180 | 19.5 | 1204 | 2020-02-24 22:41:08 | MASTER- | (11h 34m 56.37s , -09d 40m 44.3s) | C | 180 | 19.9 | 1368 | 2020-02-24 22:43:52 | MASTER-Kislovodsk | (11h 44m 19.63s , -09d 46m 23.8s) | C | 180 | 16.4 | 1368 | 2020-02-24 22:43:52 | MASTER-Kislovodsk | (11h 36m 04.16s , -09d 20m 13.2s) | C | 180 | 16.1 | 1404 | 2020-02-24 22:44:27 | MASTER- | (11h 42m 01.96s , -09d 40m 48.7s) | C | 180 | 19.5 | 1404 | 2020-02-24 22:44:27 | MASTER- | (11h 34m 56.31s , -09d 42m 06.0s) | C | 180 | 19.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 604213554: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27175, p. 1
R. Podesta, C.Lopez, F. Podesta, C.Francile (Observatorio Astronomico Felix Aguilar OAFA), H.Levato (Instituto de Ciencias Astronomicas, de la Tierra y del Espacio ICATE), R. Rebolo, M. Serra (The Instituto de Astrofisica de Canarias), D. Buckley (South African Astronomical Observatory), O.A. Gres, N.M. Budnev, O.Ershova (Irkutsk State University, API), A. Tlatov, D. Dormidontov (Kislovodsk Solar Station of the Pulkovo Observatory), V. Yurkov, A. Gabovich, Yu. Sergienko (Blagoveschensk Educational State University) MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB200224.21 (trigger No 604213554,11h 51m 36.00s , -28d 52m 12.0s, R=3.08) errorbox 548 sec after notice time and 579 sec after trigger time at 2020-02-24 05:15:28 UT, with upper limit up to

20.2 mag. The observations began at zenith distance = 13 deg. The sun altitude is -48.7 deg. The galactic latitude b = 32 deg., longitude l = 288 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1296022 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 640 | 2020-02-24 05:15:28 | MASTER-OAFA | (11h 50m 33.57s , -28d 44m 47.1s) | C | 120 | 19.4 | 800 | 2020-02-24 05:15:28 | MASTER-OAFA | (11h 50m 33.57s , -28d 44m 47.1s) | C | 440 | 20.2 | Coadd 801 | 2020-02-24 05:18:00 | MASTER-OAFA | (11h 50m 35.98s , -28d 44m 56.4s) | C | 140 | 19.5 | 992 | 2020-02-24 05:20:51 | MASTER-OAFA | (11h 50m 30.37s , -28d 46m 03.0s) | C | 180 | 19.8 | 1204 | 2020-02-24 05:24:23 | MASTER-OAFA | (11h 50m 36.20s , -28d 45m 57.3s) | C | 180 | 19.8 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited. [GCN OPS NOTE(24feb20): This is the fourth Circular in the sequence of 8 circulars which were all (except this one) labeled A because of the sequence assigner being offline. In the normal lettering method this would be burst B.]

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200224.14: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27172, p. 1
R. Podesta, C.Lopez, F. Podesta, C.Francile (Observatorio Astronomico Felix Aguilar OAFA), H.Levato (Instituto de Ciencias Astronomicas, de la Tierra y del Espacio ICATE), R. Rebolo, M. Serra (The Instituto de Astrofisica de Canarias), D. Buckley (South African Astronomical Observatory), O.A. Gres, N.M. Budnev, O.Ershova (Irkutsk State University, API), A. Tlatov, D. Dormidontov (Kislovodsk Solar Station of the Pulkovo Observatory), V. Yurkov, A. Gabovich, Yu. Sergienko (Blagoveschensk Educational State University) MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) was pointed to the Swift GRB200224.14 (trigger No 958141,16h 35m 10.56s , +41d 40m 30.0s, R=0.05) errorbox 17 sec after notice time and 90 sec after trigger time at 2020-02-24 03:26:19 UT, with upper limit up to 13.8 mag. Observations started at twilight. The observations began at zenith distance = 2 deg. The sun altitude is -6.3 deg. The galactic latitude b = 42 deg., longitude l = 66 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1295946 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 95 | MASTER-Kislovodsk | P- | 10 | 13.8 | 95 | MASTER-Kislovodsk | P| | 10 | 13.0 | The observation and reduction will continue. The message may be cited. [GCN OPS NOTE(24feb20): This is the beginning Circular in the sequence of 8 circulars which were all labeled A because of the sequence assigner being offline. In particular, this circular is using the .dd fractional time format instead of the letter A, but the A is equivalent for this event.]

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 603949983: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27158, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB200221.16 (trigger No 603949983,10h 28m 24.00s , +33d 09m 00.0s, R=4.81) errorbox 28 sec after notice time and 34 sec after trigger time at 2020-02-21 03:53:32 UT, with upper limit up to 13.9 mag. The observations began at zenith distance = 66 deg. The sun altitude is -46.1 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB200221.16 errorbox 40 sec after notice time and 46 sec after trigger time at 2020-02-21 03:53:44 UT, with upper limit up to 16.8 mag. The observations began at zenith distance = 31 deg. The sun altitude is -49.4 deg. The galactic latitude b = 59 deg., longitude l = 194 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1293900 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 39 | 2020-02-21 03:53:32 | MASTER-OAFA | (10h 27m 30.29s , +33d 14m 49.8s) | C | 10 | 13.9 | 51 | 2020-02-21 03:53:44 | MASTER-IAC | (10h 27m 15.98s , +33d 15m 15.6s) | P| | 10 | 16.7 | 51 | 2020-02-21 03:53:44 | MASTER-IAC | (10h 26m 28.29s , +33d 18m 53.9s) | P- | 10 | 16.5 | 128 | 2020-02-21 03:55:01 | MASTER-IAC | (10h 27m 12.17s , +33d 15m 11.9s) | P| | 10 | 16.8 | 128 | 2020-02-21 03:55:01 | MASTER-IAC | (10h 26m 24.56s , +33d 18m 50.5s) | P- | 10 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 603849435: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27146, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB200220.00 (trigger No 603849435,17h 37m 55.20s , +08d 23m 24.0s, R=1) errorbox 95 sec after notice time and 137 sec after trigger time at 2020-02-19 23:59:28 UT, with upper limit up to 17.8 mag. The observations began at zenith distance = 72 deg. The sun altitude is -43.9 deg. The galactic latitude b = 20 deg., longitude l = 32 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1293061 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 153 | 2020-02-19 23:59:28 | MASTER-Kislovodsk | (17h 39m 31.03s , +09d 29m 17.1s) | P- | 30 | 17.0 | 188 | 2020-02-19 23:59:28 | MASTER-Kislovodsk | (17h 39m 31.03s , +09d 29m 17.1s) | P- | 100 | 17.6 | Coadd 153 | 2020-02-19 23:59:28 | MASTER-Kislovodsk | (17h 39m 22.69s , +09d 01m 41.2s) | P| | 30 | 16.9 | 188 | 2020-02-19 23:59:28 | MASTER-Kislovodsk | (17h 39m 22.69s , +09d 01m 41.2s) | P| | 100 | 17.7 | Coadd 203 | 2020-02-20 00:00:18 | MASTER-Kislovodsk | (17h 39m 35.01s , +09d 29m 58.7s) | P- | 30 | 17.0 | 203 | 2020-02-20 00:00:18 | MASTER-Kislovodsk | (17h 39m 26.73s , +09d 02m 22.6s) | P| | 30 | 17.0 | 259 | 2020-02-20 00:01:09 | MASTER-Kislovodsk | (17h 39m 28.17s , +09d 29m 16.3s) | P- | 40 | 17.2 | 259 | 2020-02-20 00:01:09 | MASTER-Kislovodsk | (17h 39m 19.96s , +09d 01m 39.9s) | P| | 40 | 17.1 | 329 | 2020-02-20 00:02:09 | MASTER-Kislovodsk | (17h 39m 28.89s , +09d 30m 15.3s) | P- | 60 | 17.5 | 329 | 2020-02-20 00:02:09 | MASTER-Kislovodsk | (17h 39m 20.77s , +09d 02m 38.9s) | P| | 60 | 17.5 | 415 | 2020-02-20 00:03:30 | MASTER-Kislovodsk | (17h 39m 33.96s , +09d 29m 16.6s) | P- | 70 | 17.6 | 415 | 2020-02-20 00:03:30 | MASTER-Kislovodsk | (17h 39m 25.89s , +09d 01m 40.1s) | P| | 70 | 17.5 | 638 | 2020-02-20 00:06:48 | MASTER-Kislovodsk | (17h 37m 16.50s , +08d 31m 11.3s) | P- | 120 | 17.8 | 638 | 2020-02-20 00:06:48 | MASTER-Kislovodsk | (17h 37m 08.44s , +08d 03m 34.1s) | P| | 120 | 17.8 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200219ac: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27129, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the LIGO/Virgo S200219ac errorbox 101 sec after notice time and 9677 sec after trigger time at 2020-02-19 12:25:32 UT, with upper limit up to 17.2 mag. The observations began at zenith distance = 53 deg. The sun altitude is -34.0 deg. The galactic latitude b = -84 deg., longitude l = 224 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11346 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 9707 | 2020-02-19 12:25:32 | MASTER-Amur | (12h 46m 13.37s , +51d 52m 37.4s) | C | 60 | 17.2 | 9787 | 2020-02-19 12:26:51 | MASTER-Amur | (12h 46m 13.51s , +51d 53m 32.6s) | C | 60 | 17.2 | 9866 | 2020-02-19 12:28:11 | MASTER-Amur | (12h 46m 20.20s , +51d 52m 30.7s) | C | 60 | 17.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Tiurina, N., Lipunov, V., Gorbovskoy, E., Kornilov, V., Balanutsa, P., Kuznetsov, A., Vladimirov, V., Gress, O., Vlasenko, D., et al. GRB 200219A: MASTER catalog automatic possible Host Galaxy candidate // GRB Coordinates Network, 2020, V. 27126, p. 1
MASTER Global Robotic Net Catalog System (http://observ.pereplet.ru, Lipunov et al., 2010,Advances in Astronomy,v. 2010, 30L) reducted GRB 200219A (Lien et al. GCN 27125, Lipunov et al GCN 27124) XRT error box. It found possible Host Galaxy in 1 sec from XRT center error box: The Guide Star Catalog, WISE All-Sky Data Release (Cutri+ 2012) AllWISE Data Release (Cutri+ 2013), The VISTA Hemisphere Survey (VHS) catalog DR4.1 (McMahon+, 2013) RA,DEC (AllWISE) coordinates 22 50 33.023904 -59 07 10.83396 This message can be used.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200219.32: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27124, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the Swift GRB200219.32 (trigger No 957271,22h 50m 34.56s , -59d 06m 28.8s, R=0.05) errorbox 74 sec after trigger time at 2020-02-19 07:38:03 UT, with upper limit up to 16.5 mag. The observations began at zenith distance = 87 deg. The sun altitude is -31.2 deg. The galactic latitude b = -52 deg., longitude l = 328 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1292468 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 79 | MASTER-OAFA | C | 10 | 14.2 | 125 | MASTER-OAFA | C | 20 | 15.2 | 188 | MASTER-OAFA | C | 30 | 15.1 | 263 | MASTER-OAFA | C | 50 | 15.8 | 439 | MASTER-OAFA | C | 80 | 16.5 | 567 | MASTER-OAFA | C | 100 | 16.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200216.56: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27100, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) was pointed to the Swift GRB200216.56 (trigger No 956824,10h 41m 50.64s , +19d 27m 14.4s, R=0.05) errorbox 18 sec after notice time and 38 sec after trigger time at 2020-02-16 13:33:12 UT, with upper limit up to 17.6 mag. The observations began at zenith distance = 46 deg. The sun altitude is -43.8 deg. MASTER-Tunka robotic telescope located in Russia (Applied Physics Institute, Irkutsk State University) was pointed to the Swift GRB200216.56 errorbox 49 sec after notice time and 69 sec after trigger time at 2020-02-16 13:33:43 UT, with upper limit up to 17.2 mag. The observations began at zenith distance = 61 deg. The sun altitude is -30.3 deg. The galactic latitude b = 60 deg., longitude l = 221 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1289334 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 43 | MASTER-Amur | P/ | 10 | 17.0 | 64 | MASTER-Amur | P/ | 10 | 16.8 | 75 | MASTER-Tunka | P| | 10 | 16.2 | 90 | MASTER-Amur | P/ | 20 | 16.9 | 109 | MASTER-Tunka | P| | 20 | 16.3 | 121 | MASTER-Amur | P/ | 20 | 16.8 | 149 | MASTER-Tunka | P| | 20 | 16.3 | 157 | MASTER-Amur | P/ | 30 | 17.4 | 193 | MASTER-Tunka | P| | 30 | 16.8 | 207 | MASTER-Amur | P/ | 40 | 17.3 | 258 | MASTER-Tunka | P| | 50 | 17.2 | 264 | MASTER-Amur | P/ | 50 | 17.6 | 334 | MASTER-Amur | P/ | 60 | 17.3 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200215.61: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27080, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) was pointed to the Swift GRB200215.61 (trigger No 956639,02h 16m 29.28s , +12d 46m 51.6s, R=0.05) errorbox 20 sec after notice time and 40 sec after trigger time at 2020-02-15 14:40:12 UT, with upper limit up to 18.5 mag. The observations began at zenith distance = 70 deg. The sun altitude is -39.9 deg. The galactic latitude b = -45 deg., longitude l = 154 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1288551 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 46 | MASTER-Tunka | P| | 10 | 15.3 | 75 | MASTER-Tunka | P| | 10 | 15.2 | 110 | MASTER-Tunka | P| | 20 | 15.5 | 160 | MASTER-Tunka | P| | 30 | 16.1 | 215 | MASTER-Tunka | P| | 40 | 16.0 | 279 | MASTER-Tunka | P| | 50 | 16.4 | 354 | MASTER-Tunka | P| | 60 | 16.6 | 443 | MASTER-Tunka | P| | 80 | 16.7 | 553 | MASTER-Tunka | P| | 100 | 16.7 | 682 | MASTER-Tunka | P| | 120 | 16.8 | 837 | MASTER-Tunka | P| | 150 | 16.9 | 1021 | MASTER-Tunka | P| | 180 | 17.1 | 1221 | MASTER-Tunka | P| | 180 | 17.0 | 1420 | MASTER-Tunka | P| | 180 | 16.9 | 1761 | MASTER-Tunka | C | 180 | 18.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Shumkov, V., Gorbovskoy, E., Kornilov, V., Balanutsa, P., Tyurina, N., Vladimirov, V., Kuznetsov, A., Balakin, F., et al. LIGO/Virgo S200213t: MASTER possible Kilonova candidate in PGC315337 // GRB Coordinates Network, 2020, V. 27077, p. 1
MASTER Global Robotic Net (http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) covered 1525 square degrees of S299213t (LVC GCN 27042, Lipunov et al. GCN 27041, GCN 27072 https://gcn.gsfc.nasa.gov/other/S200213t.gcn3) that is equal to 100% of 50%-error-field and 81% of 90%-error-field https://master.sai.msu.ru/site/master2/ligo_1.php?id=11331 MASTER OT J044008.76-651302.3 discovery - OT in 15"W,39.5"S from PGC315337 center (in 3-sigma of LVC error-box) AT2020cph MASTER-SAAO auto-detection system discovered OT source at R.A.,Dec(2000) = 04h 40m 08.76s -65d 13m 02.3s on 2020-02-14.91294 UT. The OT unfiltered magnitude (automatic photometry): 2020-02-13 22:03:33UT 19.6 2020-02-14 02:11:16UT 19.0 2020-02-14 22:04:43UT 18.9 We have reference image on 2017-12-22.95279 UT with unfiltered mlim= 20.3m, nearest in time at 2020-01-27 20:13:33 with mlim=19.0 Spectral observations are required. PGC315337 has Btc=16.2 (no V in LEDA) Observations and analysys will be continued. The message may be cited.

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Lipunov, V., Balanutsa, P., Gorbovskoy, E., Kornilov, V., Tyurina, N., Kuznetsov, A., Balakin, F., Zhirkov, K., Vladimirov, V., et al. LIGO/Virgo S200213t: MASTER OT detection in PGC673735 // GRB Coordinates Network, 2020, V. 27072, p. 1
MASTER Global Robotic Net (http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) covered 1376 square degrees of S299213t (LVC GCN 27042, Lipunov et al. GCN 27041, https://gcn.gsfc.nasa.gov/other/S200213t.gcn3) that is equal to 100% of 50%-error-field and 79% of 90%-error-field https://master.sai.msu.ru/site/master2/ligo_1.php?id=11331 MASTER OT J095359.98-333736.2 discovery - PSN in 3.3"E,0.7"N of PGC673735 MASTER-SAAO auto-detection system discovered OT source at (RA, Dec) = 09h 53m 59.98s -33d 37m 36.2s on 2020-02-11.78015 UT. The OT unfiltered magnitude is 19.0m (mlim=19.7). The OT is seen in both 2 inspect images. There is no minor planet at this place. We have reference image on 2015-01-23.98993 UT with unfiltered mlim= 19.9m. Spectral observations are required. The discovery and reference images are available at: Observations and analysys will be continued. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200213t: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27041, p. 1
R. Podesta, C.Lopez, F. Podesta, C.Francile (Observatorio Astronomico Felix Aguilar OAFA), H.Levato (Instituto de Ciencias Astronomicas, de la Tierra y del Espacio ICATE), R. Rebolo, M. Serra (The Instituto de Astrofisica de Canarias), D. Buckley (South African Astronomical Observatory), O.A. Gres, N.M. Budnev, O.Ershova (Irkutsk State University, API), A. Tlatov, D. Dormidontov (Kislovodsk Solar Station of the Pulkovo Observatory), V. Yurkov, A. Gabovich, Yu. Sergienko (Blagoveschensk Educational State University) MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the LIGO/Virgo S200213t errorbox 113 sec after notice time and 397 sec after trigger time at 2020-02-13 04:17:17 UT, with upper limit up to 17.5 mag. The observations began at zenith distance = 79 deg. The sun altitude is -45.8 deg. The galactic latitude b = -7 deg., longitude l = 126 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11324 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 488 | 2020-02-13 04:17:17 | MASTER-IAC | (20h 29m 19.75s , +57d 55m 31.9s) | C | 180 | 17.5 | 488 | 2020-02-13 04:17:17 | MASTER-IAC | (20h 44m 39.60s , +57d 50m 46.6s) | C | 180 | 17.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 603197394: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27038, p. 1
R. Podesta, C.Lopez, F. Podesta, C.Francile (Observatorio Astronomico Felix Aguilar OAFA), H.Levato (Instituto de Ciencias Astronomicas, de la Tierra y del Espacio ICATE), R. Rebolo, M. Serra (The Instituto de Astrofisica de Canarias), D. Buckley (South African Astronomical Observatory), O.A. Gres, N.M. Budnev, O.Ershova (Irkutsk State University, API), A. Tlatov, D. Dormidontov (Kislovodsk Solar Station of the Pulkovo Observatory), V. Yurkov, A. Gabovich, Yu. Sergienko (Blagoveschensk Educational State University) MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB200212.45 (trigger No 603197394,08h 27m 43.20s , +08d 48m 36.0s, R=17.85) errorbox 1916 sec after notice time and 1944 sec after trigger time at 2020-02-12 11:22:14 UT, with upper limit up to 13.7 mag. Observations started at twilight. The observations began at zenith distance = 54 deg. The sun altitude is -10.9 deg. The galactic latitude b = 26 deg., longitude l = 216 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1285493 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 1975 | 2020-02-12 11:22:14 | MASTER-Tunka | (07h 47m 35.71s , +23d 51m 50.3s) | C | 60 | 13.4 | 2565 | 2020-02-12 11:32:04 | MASTER-Tunka | (07h 46m 22.76s , +25d 52m 13.0s) | C | 60 | 13.7 | 2644 | 2020-02-12 11:33:23 | MASTER-Tunka | (07h 47m 38.28s , +23d 53m 40.6s) | C | 60 | 13.2 | 2724 | 2020-02-12 11:34:43 | MASTER-Tunka | (07h 56m 18.69s , +23d 53m 07.2s) | C | 60 | 12.1 | 2883 | 2020-02-12 11:37:21 | MASTER-Tunka | (07h 38m 54.01s , +23d 53m 18.4s) | C | 60 | 13.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200208q: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27018, p. 1
R. Podesta, C.Lopez, F. Podesta, C.Francile (Observatorio Astronomico Felix Aguilar OAFA), H.Levato (Instituto de Ciencias Astronomicas, de la Tierra y del Espacio ICATE), R. Rebolo, M. Serra (The Instituto de Astrofisica de Canarias), D. Buckley (South African Astronomical Observatory), O.A. Gres, N.M. Budnev, O.Ershova (Irkutsk State University, API), A. Tlatov, D. Dormidontov (Kislovodsk Solar Station of the Pulkovo Observatory), V. Yurkov, A. Gabovich, Yu. Sergienko (Blagoveschensk Educational State University) MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the LIGO/Virgo S200208q errorbox 9684 sec after trigger time at 2020-02-08 15:42:41 UT, with upper limit up to 16.7 mag. The observations began at zenith distance = 48 deg. The sun altitude is -49.0 deg. The galactic latitude b = 10 deg., longitude l = 263 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11306 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 9774 | 2020-02-08 15:42:41 | MASTER-Tunka | (18h 08m 02.18s , +80d 05m 28.4s) | C | 180 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 602817262: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27013, p. 1
R. Podesta, C.Lopez, F. Podesta, C.Francile (Observatorio Astronomico Felix Aguilar OAFA), H.Levato (Instituto de Ciencias Astronomicas, de la Tierra y del Espacio ICATE), R. Rebolo, M. Serra (The Instituto de Astrofisica de Canarias), D. Buckley (South African Astronomical Observatory), O.A. Gres, N.M. Budnev, O.Ershova (Irkutsk State University, API), A. Tlatov, D. Dormidontov (Kislovodsk Solar Station of the Pulkovo Observatory), V. Yurkov, A. Gabovich, Yu. Sergienko (Blagoveschensk Educational State University) MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB200208.05 (trigger No 602817262,01h 46m 55.20s , +25d 18m 36.0s, R=6.24) errorbox 35741 sec after trigger time at 2020-02-08 11:09:58 UT, with upper limit up to 18.0 mag. Observations started at twilight. The observations began at zenith distance = 31 deg. The sun altitude is -10.0 deg. The galactic latitude b = -35 deg., longitude l = 139 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1280839 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 35772 | 2020-02-08 11:09:58 | MASTER-Tunka | (01h 41m 21.17s , +25d 48m 54.2s) | C | 60 | 17.0 | 35851 | 2020-02-08 11:11:18 | MASTER-Tunka | (01h 39m 44.09s , +23d 48m 03.9s) | C | 60 | 17.0 | 35930 | 2020-02-08 11:12:37 | MASTER-Tunka | (01h 43m 06.39s , +27d 47m 55.9s) | C | 60 | 17.8 | 36010 | 2020-02-08 11:13:57 | MASTER-Tunka | (01h 38m 09.59s , +21d 48m 49.7s) | C | 60 | 17.2 | 36090 | 2020-02-08 11:15:16 | MASTER-Tunka | (01h 41m 13.40s , +25d 49m 49.6s) | C | 60 | 17.0 | 36169 | 2020-02-08 11:16:35 | MASTER-Tunka | (01h 50m 13.64s , +25d 49m 02.2s) | C | 60 | 17.3 | 36248 | 2020-02-08 11:17:55 | MASTER-Tunka | (01h 39m 36.72s , +23d 47m 46.9s) | C | 60 | 17.1 | 36327 | 2020-02-08 11:19:14 | MASTER-Tunka | (01h 48m 26.84s , +23d 48m 03.3s) | C | 60 | 17.2 | 36407 | 2020-02-08 11:20:34 | MASTER-Tunka | (01h 43m 05.17s , +27d 49m 22.9s) | C | 60 | 18.0 | 36486 | 2020-02-08 11:21:53 | MASTER-Tunka | (01h 52m 08.87s , +27d 48m 06.7s) | C | 60 | 17.6 | 36566 | 2020-02-08 11:23:12 | MASTER-Tunka | (01h 38m 14.53s , +21d 49m 27.2s) | C | 60 | 17.4 | 36645 | 2020-02-08 11:24:32 | MASTER-Tunka | (01h 46m 45.97s , +21d 48m 56.0s) | C | 60 | 16.8 | 36725 | 2020-02-08 11:25:51 | MASTER-Tunka | (01h 50m 07.48s , +25d 49m 56.9s) | C | 60 | 16.9 | 36878 | 2020-02-08 11:28:25 | MASTER-Tunka | (01h 52m 06.16s , +27d 47m 56.1s) | C | 60 | 17.4 | 36958 | 2020-02-08 11:29:45 | MASTER-Tunka | (01h 46m 52.34s , +21d 48m 01.4s) | C | 60 | 16.7 | 37037 | 2020-02-08 11:31:04 | MASTER-Tunka | (01h 57m 09.34s , +23d 48m 16.4s) | C | 60 | 16.3 | 37117 | 2020-02-08 11:32:23 | MASTER-Tunka | (01h 59m 00.94s , +25d 49m 06.1s) | C | 60 | 16.3 | 37196 | 2020-02-08 11:33:43 | MASTER-Tunka | (01h 23m 30.47s , +25d 48m 07.2s) | C | 60 | 15.8 | 37276 | 2020-02-08 11:35:03 | MASTER-Tunka | (01h 55m 29.55s , +21d 48m 05.4s) | C | 60 | 15.4 | 37356 | 2020-02-08 11:36:22 | MASTER-Tunka | (01h 57m 08.95s , +23d 49m 43.6s) | C | 60 | 13.0 | 37435 | 2020-02-08 11:37:42 | MASTER-Tunka | (02h 05m 54.38s , +23d 48m 35.8s) | C | 60 | 13.1 | 37674 | 2020-02-08 11:41:41 | MASTER-Tunka | (01h 23m 23.97s , +25d 48m 58.4s) | C | 60 | 14.5 | 37754 | 2020-02-08 11:43:00 | MASTER-Tunka | (01h 32m 23.87s , +25d 48m 13.4s) | C | 60 | 16.1 | 37833 | 2020-02-08 11:44:20 | MASTER-Tunka | (01h 55m 23.44s , +21d 47m 56.5s) | C | 60 | 14.7 | 37913 | 2020-02-08 11:45:39 | MASTER-Tunka | (02h 04m 06.08s , +21d 48m 18.4s) | C | 60 | 14.2 | 37992 | 2020-02-08 11:46:59 | MASTER-Tunka | (02h 05m 53.98s , +23d 50m 06.0s) | C | 60 | 14.3 | 38071 | 2020-02-08 11:48:18 | MASTER-Tunka | (02h 07m 57.35s , +25d 48m 28.8s) | C | 60 | 14.9 | 38151 | 2020-02-08 11:49:37 | MASTER-Tunka | (01h 32m 24.35s , +25d 49m 05.0s) | C | 60 | 13.2 | 38230 | 2020-02-08 11:50:57 | MASTER-Tunka | (02h 04m 01.09s , +21d 49m 05.1s) | C | 60 | 14.5 | 38309 | 2020-02-08 11:52:16 | MASTER-Tunka | (01h 22m 08.59s , +23d 47m 46.2s) | C | 60 | 15.4 | 38389 | 2020-02-08 11:53:36 | MASTER-Tunka | (01h 24m 58.32s , +27d 47m 13.5s) | C | 60 | 17.4 | 38469 | 2020-02-08 11:54:55 | MASTER-Tunka | (01h 45m 03.06s , +29d 47m 20.2s) | C | 60 | 17.3 | 38548 | 2020-02-08 11:56:15 | MASTER-Tunka | (02h 01m 07.67s , +27d 48m 50.0s) | C | 60 | 16.8 | 38628 | 2020-02-08 11:57:34 | MASTER-Tunka | (01h 22m 02.09s , +23d 48m 39.5s) | C | 60 | 16.8 | 38707 | 2020-02-08 11:58:54 | MASTER-Tunka | (01h 30m 54.25s , +23d 47m 55.1s) | C | 60 | 16.9 | 38787 | 2020-02-08 12:00:14 | MASTER-Tunka | (01h 24m 51.18s , +27d 46m 38.0s) | C | 60 | 17.5 | 38867 | 2020-02-08 12:01:33 | MASTER-Tunka | (01h 34m 02.38s , +27d 47m 07.6s) | C | 60 | 17.7 | 38946 | 2020-02-08 12:02:53 | MASTER-Tunka | (01h 45m 02.37s , +29d 48m 47.7s) | C | 60 | 17.6 | 39026 | 2020-02-08 12:04:12 | MASTER-Tunka | (01h 54m 16.68s , +29d 47m 44.9s) | C | 60 | 17.4 | 39105 | 2020-02-08 12:05:32 | MASTER-Tunka | (02h 01m 11.92s , +27d 49m 14.3s) | C | 60 | 17.0 | 39185 | 2020-02-08 12:06:51 | MASTER-Tunka | (02h 10m 09.76s , +27d 48m 57.0s) | C | 60 | 16.9 | 39264 | 2020-02-08 12:08:10 | MASTER-Tunka | (01h 30m 47.27s , +23d 48m 43.8s) | C | 60 | 16.3 | 39343 | 2020-02-08 12:09:30 | MASTER-Tunka | (01h 34m 00.86s , +27d 47m 44.4s) | C | 60 | 16.8 | 39422 | 2020-02-08 12:10:49 | MASTER-Tunka | (01h 54m 12.81s , +29d 47m 20.4s) | C | 60 | 16.4 | 39502 | 2020-02-08 12:12:09 | MASTER-Tunka | (02h 10m 15.32s , +27d 47m 55.2s) | C | 60 | 16.0 | 39581 | 2020-02-08 12:13:28 | MASTER-Tunka | (01h 36m 51.32s , +19d 47m 15.4s) | C | 60 | 15.8 | 39661 | 2020-02-08 12:14:47 | MASTER-Tunka | (01h 26m 30.66s , +29d 47m 20.5s) | C | 60 | 15.7 | 39740 | 2020-02-08 12:16:07 | MASTER-Tunka | (01h 20m 56.69s , +21d 47m 15.2s) | C | 60 | 15.3 | 39820 | 2020-02-08 12:17:26 | MASTER-Tunka | (01h 53m 55.62s , +19d 47m 28.2s) | C | 60 | 16.1 | 39899 | 2020-02-08 12:18:46 | MASTER-Tunka | (01h 36m 51.08s , +19d 48m 27.5s) | C | 60 | 15.8 | 39979 | 2020-02-08 12:20:05 | MASTER-Tunka | (01h 45m 21.95s , +19d 47m 06.1s) | C | 60 | 14.5 | 41485 | 2020-02-08 12:45:12 | MASTER-Tunka | (01h 28m 00.87s , +30d 14m 27.3s) | C | 60 | 16.2 | 41565 | 2020-02-08 12:46:31 | MASTER-Tunka | (01h 37m 20.79s , +30d 13m 43.9s) | C | 60 | 15.7 | 41644 | 2020-02-08 12:47:51 | MASTER-Tunka | (01h 22m 18.36s , +22d 12m 11.2s) | C | 60 | 15.7 | 41724 | 2020-02-08 12:49:10 | MASTER-Tunka | (01h 31m 00.82s , +22d 12m 34.9s) | C | 60 | 15.6 | 41803 | 2020-02-08 12:50:30 | MASTER-Tunka | (01h 55m 18.38s , +20d 15m 02.2s) | C | 60 | 15.9 | 41882 | 2020-02-08 12:51:49 | MASTER-Tunka | (02h 03m 49.05s , +20d 14m 00.8s) | C | 60 | 15.8 | 41962 | 2020-02-08 12:53:09 | MASTER-Tunka | (01h 46m 51.28s , +20d 14m 39.9s) | C | 60 | 16.5 | 42041 | 2020-02-08 12:54:28 | MASTER-Tunka | (01h 37m 15.46s , +30d 13m 31.0s) | C | 60 | 17.5 | 42121 | 2020-02-08 12:55:47 | MASTER-Tunka | (01h 30m 53.86s , +22d 14m 17.3s) | C | 60 | 16.8 | 42200 | 2020-02-08 12:57:07 | MASTER-Tunka | (02h 03m 51.90s , +20d 14m 31.8s) | C | 60 | 17.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 602731380: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27009, p. 1
R. Podesta, C.Lopez, F. Podesta, C.Francile (Observatorio Astronomico Felix Aguilar OAFA), H.Levato (Instituto de Ciencias Astronomicas, de la Tierra y del Espacio ICATE), R. Rebolo, M. Serra (The Instituto de Astrofisica de Canarias), D. Buckley (South African Astronomical Observatory), O.A. Gres, N.M. Budnev, O.Ershova (Irkutsk State University, API), A. Tlatov, D. Dormidontov (Kislovodsk Solar Station of the Pulkovo Observatory), V. Yurkov, A. Gabovich, Yu. Sergienko (Blagoveschensk Educational State University) MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB200207.06 (trigger No 602731380,16h 16m 21.60s , -48d 18m 00.0s, R=3.24) errorbox 15375 sec after trigger time at 2020-02-07 05:39:10 UT, with upper limit up to 17.5 mag. The observations began at zenith distance = 79 deg. The sun altitude is -28.6 deg. MASTER-OAFA robotic telescope located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB200207.06 errorbox 20328 sec after trigger time at 2020-02-07 07:01:44 UT, with upper limit up to 18.2 mag. The observations began at zenith distance = 55 deg. The sun altitude is -33.6 deg. The galactic latitude b = 1 deg., longitude l = 335 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1280159 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 15405 | 2020-02-07 05:39:10 | MASTER-IAC | (16h 00m 28.62s , -43d 57m 11.4s) | C | 60 | 14.7 | 15767 | 2020-02-07 05:45:12 | MASTER-IAC | (16h 00m 28.96s , -43d 55m 40.2s) | C | 60 | 14.7 | 17409 | 2020-02-07 06:12:34 | MASTER-IAC | (15h 48m 55.84s , -47d 53m 12.0s) | C | 60 | 16.5 | 17409 | 2020-02-07 06:12:34 | MASTER-IAC | (16h 00m 53.88s , -47d 57m 14.2s) | C | 60 | 17.5 | 17890 | 2020-02-07 06:20:35 | MASTER-IAC | (16h 00m 48.57s , -47d 56m 37.9s) | C | 60 | 17.2 | 17890 | 2020-02-07 06:20:35 | MASTER-IAC | (15h 48m 50.69s , -47d 52m 37.0s) | C | 60 | 16.4 | 20359 | 2020-02-07 07:01:44 | MASTER-OAFA | (16h 13m 04.39s , -47d 55m 59.1s) | C | 60 | 18.0 | 20450 | 2020-02-07 07:03:15 | MASTER-OAFA | (16h 03m 07.46s , -49d 55m 17.8s) | C | 60 | 18.1 | 20542 | 2020-02-07 07:04:47 | MASTER-OAFA | (16h 00m 14.79s , -45d 57m 12.9s) | C | 60 | 17.9 | 20633 | 2020-02-07 07:06:18 | MASTER-OAFA | (16h 23m 20.15s , -45d 56m 11.7s) | C | 60 | 17.8 | 21457 | 2020-02-07 07:20:02 | MASTER-OAFA | (16h 12m 59.65s , -47d 56m 36.2s) | C | 60 | 18.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200207.13: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 27007, p. 1
R. Podesta, C.Lopez, F. Podesta, C.Francile (Observatorio Astronomico Felix Aguilar OAFA), H.Levato (Instituto de Ciencias Astronomicas, de la Tierra y del Espacio ICATE), R. Rebolo, M. Serra (The Instituto de Astrofisica de Canarias), D. Buckley (South African Astronomical Observatory), O.A. Gres, N.M. Budnev, O.Ershova (Irkutsk State University, API), A. Tlatov, D. Dormidontov (Kislovodsk Solar Station of the Pulkovo Observatory), V. Yurkov, A. Gabovich, Yu. Sergienko (Blagoveschensk Educational State University) MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) was pointed to the Swift GRB200207.13 (trigger No 954840,10h 54m 29.52s , -49d 34m 51.6s, R=0.05) errorbox 70 sec after notice time and 878 sec after trigger time at 2020-02-07 03:16:56 UT, with upper limit up to 16.9 mag. The observations began at zenith distance = 78 deg. The sun altitude is -59.6 deg. The galactic latitude b = 9 deg., longitude l = 285 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1280220 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 958 | MASTER-IAC | P- | 160 | 16.7 | 958 | MASTER-IAC | P| | 160 | 16.9 | 1152 | MASTER-IAC | P| | 180 | 16.7 | 1152 | MASTER-IAC | P- | 180 | 16.5 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 602626648: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26997, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200205.85 (trigger No 602626648,14h 52m 50.40s , -42d 46m 48.0s, R=9.77) errorbox 16207 sec after trigger time at 2020-02-06 00:47:30 UT, with upper limit up to 13.2 mag. The observations began at zenith distance = 46 deg. The sun altitude is -34.8 deg. The galactic latitude b = 14 deg., longitude l = 326 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1279086 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 16237 | 2020-02-06 00:47:30 | MASTER-SAAO | (15h 03m 07.38s , -51d 53m 02.2s) | C | 60 | 13.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200205.81: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26992, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB200205.81 (trigger No 954519,07h 11m 12.72s , -56d 28m 51.6s, R=0.05) errorbox 21 sec after notice time and 300 sec after trigger time at 2020-02-05 19:26:44 UT, with upper limit up to 18.0 mag. The observations began at zenith distance = 28 deg. The sun altitude is -21.2 deg. The galactic latitude b = -20 deg., longitude l = 267 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1278994 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 331 | MASTER-SAAO | P\ | 60 | 16.2 | 411 | MASTER-SAAO | P\ | 220 | 16.8 | Coadd 419 | MASTER-SAAO | P\ | 70 | 16.6 | 521 | MASTER-SAAO | P\ | 90 | 16.9 | 642 | MASTER-SAAO | P\ | 110 | 17.5 | 797 | MASTER-SAAO | P\ | 420 | 18.0 | Coadd 789 | MASTER-SAAO | P\ | 140 | 17.5 | 966 | MASTER-SAAO | P\ | 170 | 17.6 | The observation and reduction will continue. The message may be cited.

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Buckley, D., Potter, S., Kniazev, A., Kotze, M., Lipunov, V., Gorbovskoy, E., Kornilov, V., Kuvshinov, D., Tyurina, N., et al. Swift GRB200205.81: Global MASTER-Net OT detection // GRB Coordinates Network, 2020, V. 26991, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the GRB200205.81 21 sec after notice time and 300 sec after trigger time at 2020-02-05 19:26:44 UT. On our first (60s exposure) set we found 1 optical transient within Swift error-box (ra=107.8 dec=-56.4808 r=0.05) brighter than 15.7. T-Tmid Date Time Expt. Ra Dec Mag ---------|--------------------|-------|----------------|----------------|------- 330 2020-02-05 19:26:44 60 (07h 11m 09.07s , -56d 29m 14.6s) 16.3 The 5-sigma upper limit has been about 15.7mag The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MAXI GRB200205.29: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26985, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the MAXI GRB200205.29 (trigger No 884222838,08h 40m 11.04s , -35d 21m 43.2s, R=1) errorbox 8 sec after trigger time at 2020-02-05 06:54:39 UT, with upper limit up to 19.2 mag. The observations began at zenith distance = 33 deg. The sun altitude is -34.0 deg. The galactic latitude b = 4 deg., longitude l = 257 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1278160 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 99 | 2020-02-05 06:54:39 | MASTER-OAFA | (08h 39m 57.54s , -35d 09m 42.9s) | C | 180 | 19.1 | 310 | 2020-02-05 06:58:10 | MASTER-OAFA | (08h 39m 50.71s , -35d 10m 45.6s) | C | 180 | 19.1 | 521 | 2020-02-05 07:01:42 | MASTER-OAFA | (08h 39m 56.58s , -35d 10m 21.2s) | C | 180 | 19.2 | 732 | 2020-02-05 07:05:13 |

MASTER-OAFA | (08h 39m 53.86s , -35d 09m 01.6s) | C | 180 | 19.2 | 944 | 2020-02-05 07:08:44 | MASTER-OAFA | (08h 39m 53.89s , -35d 10m 49.8s) | C | 180 | 19.2 | 1155 | 2020-02-05 07:12:15 | MASTER-OAFA | (08h 39m 57.46s , -35d 09m 19.0s) | C | 180 | 19.1 | 1652 | 2020-02-05 07:20:32 | MASTER-OAFA | (08h 39m 53.68s , -35d 11m 24.3s) | C | 180 | 18.9 | 1864 | 2020-02-05 07:24:04 | MASTER-OAFA | (08h 39m 49.82s , -35d 12m 26.6s) | C | 180 | 19.1 | 2075 | 2020-02-05 07:27:36 | MASTER-OAFA | (08h 39m 57.19s , -35d 12m 13.6s) | C | 180 | 19.1 | 2286 | 2020-02-05 07:31:06 | MASTER-OAFA | (08h 39m 53.81s , -35d 10m 35.3s) | C | 180 | 19.1 | 2497 | 2020-02-05 07:34:38 | MASTER-OAFA | (08h 39m 53.88s , -35d 12m 01.5s) | C | 180 | 19.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tiurina, N., Kornilov, V., Balanutsa, P., Kuznetsov, A., Vladimirov, V., Gress, O., Vlasenko, D., et al. GRB 200205A: MASTER Ot detection // GRB Coordinates Network, 2020, V. 26984, p. 1
MASTER Global Robotic Net (http://observ.pereplet.ru, Lipunov et al., 2010,Advances in Astronomy,v. 2010, 30L) observed Swift GRB 200205A (Evans et al. GCN 26982, Lipunov et al GCN 26983) MASTEr auto-detection system detected new variable OT MASTER OT J084040.87-351625.3 at RA,Dec2000= 08 40 40.87 -35 16 25.3 with m_OT=15.8 observation and reduction will be continued

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200205A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26983, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) was pointed to the Swift GRB 200205A (P. A. Evans et al., GCN 26982) errorbox 24 sec after notice time and 916 sec after trigger time at 2020-02-05 06:51:08 UT, with upper limit up to 18.9 mag. The observations began at zenith distance = 32 deg. The sun altitude is -34.4 deg. The galactic latitude b = 4 deg., longitude l = 257 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1278043 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment
_____|_____|_____|_____ 1007 | MASTER-OAFA | C | 180 | 18.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 602455182: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26981, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200203.86 (trigger No 602455182,17h 32m 48.00s , -45d 04m 48.0s, R=8.92) errorbox 7916 sec after trigger time at 2020-02-03 22:51:34 UT, with upper limit up to 17.1 mag. The observations began at zenith distance = 79 deg. The sun altitude is -41.5 deg. The galactic latitude b = -7 deg., longitude l = 345 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1276216 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 7947 | 2020-02-03 22:51:34 | MASTER-SAAO | (16h 46m 26.66s , -51d 58m 08.2s) | C | 60 | 16.0 | 8244 | 2020-02-03 22:56:31 | MASTER-SAAO | (16h 46m 29.96s , -51d 58m 38.8s) | C | 60 | 15.9 | 8343 | 2020-02-03 22:58:10 | MASTER-SAAO | (16h 59m 23.53s , -52d 00m 18.1s) | C | 60 | 16.3 | 8749 | 2020-02-03 23:04:56 | MASTER-SAAO | (16h 35m 45.40s , -45d 57m 21.4s) | C | 60 | 16.4 | 8849 | 2020-02-03 23:06:36 | MASTER-SAAO | (16h 59m 22.30s , -51d 59m 03.0s) | C | 60 | 16.3 | 9044 | 2020-02-03 23:09:51 | MASTER-SAAO | (17h 06m 52.48s , -54d 00m 21.2s) | C | 60 | 16.7 | 9144 | 2020-02-03 23:11:31 | MASTER-SAAO | (16h 35m 45.03s , -45d 58m 41.5s) | C | 60 | 16.5 | 9247 | 2020-02-03 23:13:15 | MASTER-SAAO | (17h 12m 25.29s , -52d 00m 17.1s) | C | 60 | 16.3 | 9344 | 2020-02-03 23:14:51 | MASTER-SAAO | (17h 06m 57.89s , -53d 58m 35.5s) | C | 60 | 16.7 | 9444 | 2020-02-03 23:16:31 | MASTER-SAAO | (17h 20m 29.84s , -53d 59m 54.4s) | C | 60 | 16.8 | 9545 | 2020-02-03 23:18:12 | MASTER-SAAO | (16h 47m 15.20s , -45d 58m 11.2s) | C | 60 | 16.4 | 9642 | 2020-02-03 23:19:49 | MASTER-SAAO | (16h 47m 09.79s , -45d 59m 09.2s) | C | 60 | 16.5 | 9741 | 2020-02-03 23:21:29 | MASTER-SAAO | (17h 12m 28.41s , -51d 59m 55.3s) | C | 60 | 16.5 | 9841 | 2020-02-03 23:23:08 | MASTER-SAAO | (17h 25m 24.88s , -51d 59m 15.5s) | C | 60 | 16.4 | 9942 | 2020-02-03 23:24:50 | MASTER-SAAO | (17h 20m 32.21s , -54d 00m 32.1s) | C | 60 | 16.9 | 10043 | 2020-02-03 23:26:30 | MASTER-SAAO | (16h 47m 16.03s , -45d 57m 03.3s) | C | 60 | 17.1 | 10148 | 2020-02-03 23:28:15 | MASTER-SAAO | (16h 58m 40.90s , -45d 58m 33.5s) | C | 60 | 17.0 | 10247 | 2020-02-03 23:29:54 | MASTER-SAAO | (17h 25m 21.69s , -51d 58m 52.5s) | C | 60 | 16.5 | 10344 | 2020-02-03 23:31:32 | MASTER-SAAO | (17h 18m 36.05s , -50d 00m 29.4s) | C | 60 | 16.2 | 10444 | 2020-02-03 23:33:11 | MASTER-SAAO | (16h 58m 47.12s , -45d 59m 04.7s) | C | 60 | 17.0 | 10542 | 2020-02-03 23:34:49 | MASTER-SAAO | (17h 01m 41.72s , -47d 59m 18.3s) | C | 60 | 17.1 | 11065 | 2020-02-03 23:43:33 | MASTER-SAAO | (17h 19m 45.41s , -49d 58m 11.4s) | C | 60 | 16.4 | 11164 | 2020-02-03 23:45:12 | MASTER-SAAO | (17h 31m 11.07s , -49d 59m 46.9s) | C | 60 | 16.5 | 11265 | 2020-02-03 23:46:53 | MASTER-SAAO | (17h 01m 42.07s , -47d 59m 12.5s) | C | 60 | 17.1 | 11364 | 2020-02-03 23:48:31 | MASTER-SAAO | (17h 13m 44.87s , -47d 59m 38.5s) | C | 60 | 16.6 | 11463 | 2020-02-03 23:50:10 | MASTER-SAAO | (17h 25m 39.12s , -48d 00m 08.3s) | C | 60 | 16.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gress, O., Gorbovskoy, E., Tiurina, N., Kornilov, V., Balanutsa, P., Kuznetsov, A., Vladimirov, V., Vlasenko, D., et al. AMON IceCube-HAWC_200202A: MASTER optical inspect // GRB Coordinates Network, 2020, V. 26973, p. 1
MASTER Global Robotic Net (http://observ.pereplet.ru, Lipunov et al., 2010,Advances in Astronomy,v. 2010, 30L) observed IceCube-HAWC 200202A (error-bx AMON GCN 26963) since 2020-02-02 21:50:53 UT.o MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) was pointed to the IceCube Alert 200202.33 (trigger No 20200202075852,13h 21m 12.00s , +12d 42m 36.0s, R=0.3) errorbox 49921 sec after trigger time at 2020-02-02 21:50:53 UT, with upper limit up to 17.2 mag. Observations started at twilight. The observations began at zenith distance = 44 deg. The sun altitude is -11.8 deg. MASTER-Tunka robotic telescope located in Russia (Applied Physics Institute, Irkutsk State University) was pointed to the IceCube Alert 200202.33 errorbox 50850 sec after trigger time at 2020-02-02 22:06:22 UT, with upper limit up to 18.2 mag. The observations began at zenith distance = 39 deg., sun altitude was -24.6 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) was pointed to the IceCube Alert 200202.33 errorbox 53716 sec after trigger time at 2020-02-02 22:54:08 UT, with upper limit up to 20.4 mag. The observations began at zenith distance = 76 deg., sun altitude was -41.2 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) was pointed to the IceCube Alert 200202.33 errorbox 59842 sec after trigger time at 2020-02-03 00:36:14 UT, with upper limit up to 21.5 mag. The observations began at zenith distance = 69 deg.,sun altitude was -75.5 deg. The error-box galactic latitude b = 73 deg., longitude l = 332 deg. Auto-detection system marginally found possible OT in SDSS J132141.10+125747.3 with m ~ 19.6 (host galaxy photom.z~0.47749). But hand analysis do not strong supply this resuts. There is QSO SDSS_J13210+1237 in error-box, but it didn't change the brightness Reduction and analysys of galaxy clusters inside error-box will be continued.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 602392636: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26971, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200203.14 (trigger No 602392636,16h 44m 48.00s , -52d 55m 01.2s, R=28.82) errorbox 29 sec after notice time and 59 sec after trigger time at 2020-02-03 03:18:11 UT, with upper limit up to 15.9 mag. Observations started at twilight. The observations began at zenith distance = 38 deg. The sun altitude is -9.9 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB200203.14 errorbox 2232 sec after notice time and 2261 sec after trigger time at 2020-02-03 03:54:53 UT, with upper limit up to 16.8 mag. Observations started at twilight. The observations began at zenith distance = 76 deg. The sun altitude is -11.9 deg. The galactic latitude b = -5 deg., longitude l = 334 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1275661 We obtain a

following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 149 | 2020-02-03 03:18:11 | MASTER-SAAO | (16h 29m 14.72s , -49d 55m 46.3s) | C | 180 | 15.9 | 2351 | 2020-02-03 03:54:53 | MASTER-Tavrida | (15h 03m 15.78s , -32d 02m 31.2s) | C | 180 | 16.8 | 2956 | 2020-02-03 04:04:58 | MASTER-Tavrida | (15h 03m 22.27s , -32d 03m 16.8s) | C | 180 | 16.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Gorbovskoy, E., Pogrosheva, T., Lipunov, V., Kornilov, V., Gress, O., Tyurina, N., Balanutsa, P., Kuznetsov, A., Vladimirov, V., et al. MASTER: OT ourbursts detection // The Astronomer's Telegram, 2020, V. 13534, p. 1
Spectral observations are required for every OT. MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 07h 53m 05.60s -62d 01m 03.2s on 2020-02-26.97531 UT. The OT unfiltered magnitude (0.2B+0.8R by USNO-B1) is 18.5m (mlim=20.2).

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Pogrosheva, T., Lipunov, V., Kornilov, V., Gress, O., Tyurina, N., Balanutsa, P., Gorbovskoy, E., Kuznetsov, A., Vladimirov, V., et al. MASTER: bright outburst with ampl>6m // The Astronomer's Telegram, 2020, V. 13524, p. 1
MASTER-OAFA auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 18h 46m 25.50s -53d 19m 32.8s on 2020-02-25.21804 UT. The OT unfiltered magnitude is 16.1m (mlim=17.2).

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Gres, O. A., Tyurina, N., Lipunov, V., Gorbovskoy, E., Kornilov, V., Kuznetsov, A., Balakin, F., Zhirkov, K., Vladimirov, V., et al. Two OT`s detected by MASTER // The Astronomer's Telegram, 2020, V. 13515, p. 1
MASTER-OAFA auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 11h 43m 40.37s -46d 54m 58.8s on 2020-02-19.25363 UT. The OT magnitude in 'BLANK' filter is 17.5m (mlim = 19.5).

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Balanutsa, P., Gorbovskoy, E., Lipunov, V., Buckley, D., Kornilov, V., Tyurina, N., Kuznetsov, A., Balakin, F., Zhirkov, K., et al. MASTER: optical transients detection // The Astronomer's Telegram, 2020, V. 13504, p. 1
2020cxs MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 16h 48m 57.22s -64d 33m 51.9s on 2020-02-17.12516 UT. The OT unfiltered magnitude is 17.3m (mlim=19.4).

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Balanutsa, P., Tyurina, N., Kuznetsov, A., Balakin, F., Zhirkov, K., et al. MASTER: OT with ampl>6.5m // The Astronomer's Telegram, 2020, V. 13491, p. 1
AT2020cts MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 18h 10m 25.50s -61d 17m 46.0s on 2020-02-17.04291 UT. The OT unfiltered magnitude is 15.6m (mlim=19.3).

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Shumkov, V., Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Balanutsa, P., Tyurina, N., Kuznetsov, A., Balakin, F., et al. MASTER: 2 outbursts with ampl>4.2m // The Astronomer's Telegram, 2020, V. 13490, p. 1
AT2020csp MASTER-IAC auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 00h 18m 29.62s +43d 02m 08.4s on 2020-02-15.82226 UT. The OT unfiltered magnitude is 17.1m (mlim=19.1).

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Balanutsa, P., Tyurina, N., Kuznetsov, A., Balakin, F., Zhirkov, K., et al. MASTER OT J044008.76-651302.3 Kilonova candidate for LVC S200213t BNS merging // The Astronomer's Telegram, 2020, V. 13487, p. 1
MASTER Global Robotic Net (http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) covered 1525 square degrees of S299213t (LVC GCN #27042, Lipunov et al. GCN #27041, GCN #27072 https://gcn.gsfc.nasa.gov/other/S200213t.gcn3) that is equal to 100% of 50%-error-field and 81% of 90%-error-field https://master.sai.msu.ru/site/master2/ligo_1.php?id=11331 AT2020cph MASTER-SAAO auto-detection system discovered OT source at R.A.,Dec(2000) = 04h 40m 08.76s -65d 13m 02.3s on 2020-02-14.91294 UT. The OT unfiltered magnitude (automatic photometry): 2020-02-13 22:03:33UT 19.6 2020-02-14 02:11:16UT 19.0 2020-02-14 22:04:43UT 18.9 We have reference image on 2017-12-22.95279 UT with unfiltered mlim= 20.3m, nearest in time at 2020-01-27 20:13:33 with mlim=19.0 There is no any sources in VIZIER database and in MASTER database(since Dec 2014) at this position PGC315337 has Btc=16.2 (no V in LEDA, NED) Observations and analisys will be continued.

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Balanutsa, P., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Kuznetsov, A., Balakin, F., Zhirkov, K., Vladimirov, V., et al. Master: Psn in PGC673735 // The Astronomer's Telegram, 2020, V. 13486, p. 1
AT2020cnb MASTER-SAAO auto-detection system discovered OT source at (RA, Dec) = 09h 53m 59.98s -33d 37m 36.2s on 2020-02-11.78015 UT. The OT unfiltered magnitude is 19.0m (mlim=19.7).

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Balanutsa, P., Lipunov, V., Buckley, D. A. H., Rebolo, R., Serra, M., Kornilov, V., Gorbovskoy, E., Gress, O., Tiurina, N., et al. MASTER: bright PSN in PGC549147 and CV // The Astronomer's Telegram, 2020, V. 13482, p. 1
AT 2020cna MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 04h 12m 06.51s -43d 24m 19.7s on 2020-02-12.88860 UT. The OT unfiltered magnitude is 16.6m (mlim=19.7).

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Pogrosheva, T., Gorbovskoy, E., Lipunov, V., Rebolo, R., Serra, M., Buckley, D., Kornilov, V., Gress, O., Tiurina, N., et al. MASTER: PSN and 2 outbursts // The Astronomer's Telegram, 2020, V. 13481, p. 1
AT2020clz MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net",Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 06h 07m 17.51s -49d 13m 08.3s on 2020-02-13.00944 UT. The OT unfiltered magnitude is 17.6m (mlim=19.1).

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Shumkov, V., Pogrosheva, T., Lipunov, V., Rebolo, R., Serra, M., Buckley, D., Gorbovskoy, E., Kornilov, V., Gress, O., et al. MASTER: OT with ampl>7.2m // The Astronomer's Telegram, 2020, V. 13441, p. 1
AT2020bre MASTER-IAC auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 15h 07m 19.46s -28d 31m 14.9s on 2020-02-01 03:50:00 UT. The OT unfiltered magnitude is 14.8m (mlim=18.7).

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Pogrosheva, T., Balanutsa, P., Lipunov, V., Podesta, R., Lopez, C., Podesta, F., Francile, C., Levato, H., Buckley, D., et al. MASTER: optical transients detection // The Astronomer's Telegram, 2020, V. 13438, p. 1
MASTER-IAC auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 04h 00m 52.30s +34d 04m 38.0s on UT. The OT unfiltered magnitude was (mlim=19.1).

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-01-31 // Transient Name Server Discovery Report, 2020, V. 2020-338, p. 1

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Chasovnikov, A., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-01-28 // Transient Name Server Discovery Report, 2020, V. 2020-292, p. 1

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Gress, O., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-01-23 // Transient Name Server Discovery Report, 2020, V. 2020-229, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-01-22 // Transient Name Server Discovery Report, 2020, V. 2020-218, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-01-22 // Transient Name Server Discovery Report, 2020, V. 2020-217, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-01-21 // Transient Name Server Discovery Report, 2020, V. 2020-208, p. 1

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Balanutsa, P., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-01-21 // Transient Name Server Discovery Report, 2020, V. 2020-207, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-01-20 // Transient Name Server Discovery Report, 2020, V. 2020-192, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-01-16 // Transient Name Server Discovery Report, 2020, V. 2020-156, p. 1

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Pogrosheva, E., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-01-15 // Transient Name Server Discovery Report, 2020, V. 2020-144, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-01-15 // Transient Name Server Discovery Report, 2020, V. 2020-143, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-01-12 // Transient Name Server Discovery Report, 2020, V. 2020-110, p. 1

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Shumkov, V., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., et al. MASTER Transient Discovery Report for 2020-01-11 // Transient Name Server Discovery Report, 2020, V. 2020-100, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-01-07 // Transient Name Server Discovery Report, 2020, V. 2020-70, p. 1

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-01-06 // Transient Name Server Discovery Report, 2020, V. 2020-60, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-01-02 // Transient Name Server Discovery Report, 2020, V. 2020-16, p. 1

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Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Vladimirov, V., Vlasenko, D., et al. MASTER Transient Discovery Report for 2020-01-01 // Transient Name Server Discovery Report, 2020, V. 2020-4, p. 1

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Lipunov, V., Tyurina, N., Gorbovskoy, E., Gress, O., Kornilov, V., Balanutsa, P., Kuznetsov, A., Vladimirov, V., Vlasenko, D., et al. GRB 200131A: MASTER optical transient detection // GRB Coordinates Network, 2020, V. 26954, p. 1
MASTER Global Robotic Net (http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy,v. 2010, 30L) started Swift GRB 200131A (Sbarufatti et al. GCN 26953) alert observation 50s after trigger time (Lipunov et al. GCN 26952) at MASTER-Tunka and 78s after trigger time at MASTER-IAC. MASTER auto-detection system found MASTER OT J001222.56+510700.3 at RA,Dec(2000) = 00h 12m 22.56s , +51d 07m 00s.3 with m_OT=14.5 (unfiltered) at the first exposition (10s) with optical decay , also detected by Swift UVOT (GCN 26953) Observation and reduction will be continued

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200131.95: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26952, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) was pointed to the Swift GRB200131.95 (trigger No 953689,00h 12m 22.80s , +51d 07m 26.4s, R=0.05) errorbox 50 sec after trigger time at 2020-01-31 22:42:06 UT, with upper limit up to 16.6 mag. The observations began at zenith distance = 75 deg. The sun altitude is -19.4 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) was pointed to the Swift GRB200131.95 errorbox 12 sec after notice time and 78 sec after trigger time at 2020-01-31 22:42:34 UT, with upper limit up to 16.8 mag. The observations began at zenith distance = 70 deg. The sun altitude is -53.2 deg. The galactic latitude b = -11 deg., longitude l = 117 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1273952 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment
_____|_____|_____|_____ 55 | MASTER-Tunka | P| | 10 | 14.5 | 83 | MASTER-IAC | P- | 10 | 16.1 | 84 | MASTER-IAC | P| | 10 | 16.4 | 128 | MASTER-IAC | P- | 20 | 16.4 | 128 | MASTER-IAC | P| | 20 | 16.6 | 182 | MASTER-IAC | P- | 30 | 16.5 | 182 | MASTER-IAC | P| | 30 | 16.8 | 325 | MASTER-Tunka | P| | 60 | 16.6 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 602071201: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26946, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200130.42 (trigger No 602071201,09h 10m 07.20s , -51d 20m 24.0s, R=3.5) errorbox 33136 sec after trigger time at 2020-01-30 19:12:13 UT, with upper limit up to 18.7 mag. The observations began at zenith distance = 46 deg. The sun altitude is -17.6 deg. The galactic latitude b = -2 deg., longitude l = 272 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1272682 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 33227 | 2020-01-30 19:12:13 | MASTER-SAAO | (09h 02m 05.88s , -49d 54m 28.8s) | C | 180 | 18.1 | 33441 | 2020-01-30 19:15:47 | MASTER-SAAO | (09h 02m 04.55s , -49d 52m 45.1s) | C | 180 | 18.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 602056641: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26943, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Fermi GRB200130.25 (trigger No 602056641,21h 57m 09.60s , -65d 55m 48.0s, R=1.69) errorbox 3000 sec after notice time and 3031 sec after trigger time at 2020-01-30 06:47:47 UT, with upper limit up to 18.3 mag. The observations began at zenith distance = 81 deg. The sun altitude is -33.3 deg. The galactic latitude b = -43 deg., longitude l = 325 deg. Real time updated cover map and OT discovered available here:
https://master.sai.msu.ru/site/master2/observ.php?id=1272515 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 3122 | 2020-01-30 06:47:47 | MASTER-OAFA | (21h 50m 31.63s , -67d 22m 55.6s) | C | 180 | 18.0 | 3852 | 2020-01-30 06:59:58 | MASTER-OAFA | (21h 50m 32.48s , -67d 22m 54.7s) | C | 180 | 17.9 | 4149 | 2020-01-30 07:04:54 | MASTER-OAFA | (22h 11m 22.45s , -68d 50m 41.0s) | C | 180 | 18.3 | 4866 | 2020-01-30 07:16:52 | MASTER-OAFA | (22h 11m 23.63s , -68d 50m 40.5s) | C | 180 | 18.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200129m: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26933, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the LIGO/Virgo S200129m errorbox 15067 sec after trigger time at 2020-01-29 11:06:05 UT, with upper limit up to 16.4 mag. Observations started at twilight. The observations began at zenith distance = 74 deg. The sun altitude is -11.8 deg. The galactic latitude b = -29 deg., longitude l = 56 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11295 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 15157 | 2020-01-29 11:06:05 | MASTER-Tunka | (21h 12m 26.71s , +12d 10m 03.5s) | C | 180 | 14.1 | 15402 | 2020-01-29 11:10:09 | MASTER-Tunka | (21h 12m 30.70s , +12d 11m 17.9s) | C | 180 | 15.2 | 15903 | 2020-01-29 11:18:31 | MASTER-Tunka | (21h 14m 27.13s , +14d 09m 07.8s) | C | 180 | 16.4 | 16115 | 2020-01-29 11:22:03 | MASTER-Tunka | (20h 38m 50.12s , +22d 10m 14.8s) | C | 180 | 15.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Tyurina, N., Gorbovskoy, E., Gress, O., Kornilov, V., Balanutsa, P., Kuznetsov, A., Vladimirov, V., Vlasenko, D., et al. Fermi-LAT ANTARES 200127.79 coincidence: MASTER alert observation and presence of young pulsar close to error-box // GRB Coordinates Network, 2020, V. 26920, p. 1
MASTER Global Robotic Net (http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy,v. 2010, 30L) started inspect observations of ANTARES alert 200127.79 (Fermi-LAT ANTARES GCN 26915) 13h after trigger time with mlim=20.0 by MASTER-OAFA. Observations started when Error-box_center_Altitude was

40deg, Dist. to Moon: 92deg, Moon disk: 0.1. Error box Gal. latitude: -0.620347 Gal. longitude: 329.684389 We also have ~400 images of this error-box made by MASTER-SAAO very wide field cameras (MASTER-VWFC 384square degrees) started ~7h after trigger time during MASTER LIGO/Virgo S200128d alert observation (Lipunov et al. GCN 26903, LVC GCN 26906). We note this error-box is near MW - no galaxies, Blazars/QSO. There are 2 pulsars 1) at thederror box border PSR J1601-5244 J1601-5244 in 0.237deg. (usual 2 sec pulsar, not interesting) 2) Young PSR J1601-5335 (288 ms period) in 0.638 deg from the center of error-box with 73300 years old. This is may be interesting as possible source of high energy particles. High energy neutriutrino can be result of interaction particle accelerated by SN shell or pulsar with shell. Optical observations and analysis proceed. This message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200128d: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26903, p. 1

MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the LIGO/Virgo S200128d errorbox 37 sec after notice time and 322 sec after trigger time at 2020-01-28 02:25:33 UT, with upper limit up to 18.4 mag. The observations began at zenith distance = 41 deg. The sun altitude is -18.1 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the LIGO/Virgo S200128d errorbox 71 sec after notice time and 356 sec after trigger time at 2020-01-28 02:26:07 UT, with upper limit up to 18.1 mag. The observations began at zenith distance = 68 deg. The sun altitude is -71.2 deg. The galactic latitude b = 11 deg., longitude l = 332 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11283 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 353 | 2020-01-28 02:25:33 | MASTER-SAAO | (15h 32m 49.48s , -42d 18m 49.4s) | C | 60 | 18.4 | 392 | 2020-01-28 02:26:07 | MASTER-IAC | (04h 23m 02.77s , +35d 36m 33.1s) | P| | 70 | 18.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 601841483: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26900, p. 1

MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB200127.76 (trigger No 601841483,05h 03m 33.60s , +20d 04m 12.0s, R=3.26) errorbox 286 sec after notice time and 314 sec after trigger time at 2020-01-27 18:16:33 UT, with upper limit up to 20.4 mag. The observations began at zenith distance = 22 deg. The sun altitude is -43.8 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200127.76 errorbox 558 sec after notice time and 586 sec after trigger time at 2020-01-27 18:21:05 UT, with upper limit up to 17.1 mag. Observations started at twilight. The observations began at zenith distance = 54 deg. The sun altitude is -7.9 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB200127.76 errorbox 558 sec after notice time and 4264 sec after trigger time at 2020-01-27 19:22:22 UT, with upper limit up to 19.2 mag. The observations began at zenith distance = 27 deg. The sun altitude is -49.1 deg. The galactic latitude b = -12 deg., longitude l = 182 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1270672 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 344 | 2020-01-27 18:16:33 | MASTER-Kislovodsk | (04h 57m 58.65s , +22d 03m 18.3s) | C | 60 | 19.4 | 344 | 2020-01-27 18:16:33 | MASTER-Kislovodsk | (04h 48m 54.85s , +22d 29m 11.9s) | C | 60 | 19.5 | 437 | 2020-01-27 18:18:05 | MASTER-Kislovodsk | (05h 02m 25.14s , +24d 01m 47.2s) | C | 60 | 19.0 | 437 | 2020-01-27 18:18:05 | MASTER-Kislovodsk | (04h 53m 12.60s , +24d 27m 48.1s) | C | 60 | 19.4 | 640 | 2020-01-27 18:20:58 | MASTER-Kislovodsk | (05h 08m 07.85s , +20d 06m 36.5s) | C | 120 | 19.6 | 795 | 2020-01-27 18:20:58 | MASTER-Kislovodsk | (05h 08m 07.85s , +20d 06m 36.6s) | C | 430 | 20.3 | Coadd 640 | 2020-01-27 18:20:58 | MASTER-Kislovodsk | (04h 59m 11.90s , +20d 32m 39.7s) | C | 120 | 19.8 | 795 | 2020-01-27 18:20:58 | MASTER-Kislovodsk | (04h 59m 11.90s , +20d 32m 39.8s) | C | 430 | 20.4 | Coadd 647 | 2020-01-27 18:21:05 | MASTER-SAAO | (05h 02m 56.22s , +20d 10m 28.0s) | C | 120 | 15.4 | 790 | 2020-01-27 18:23:19 | MASTER-Kislovodsk | (05h 08m 03.89s , +20d 07m 36.5s) | C | 140 | 19.7 | 791 | 2020-01-27 18:23:19 | MASTER-Kislovodsk | (04h 59m 07.92s , +20d 33m 38.8s) | C | 140 | 19.9 | 798 | 2020-01-27 18:23:26 | MASTER-SAAO | (05h 02m 59.89s , +20d 10m 31.1s) | C | 140 | 16.6 | 966 | 2020-01-27 18:25:59 | MASTER-Kislovodsk | (05h 08m 10.89s , +20d 06m 34.2s) | C | 170 | 19.7 | 966 | 2020-01-27 18:25:59 | MASTER-Kislovodsk | (04h 59m 15.01s , +20d 32m 35.2s) | C | 170 | 19.9 | 979 | 2020-01-27 18:26:08 | MASTER-SAAO | (05h 02m 54.22s , +20d 09m 31.7s) | C | 180 | 17.1 | 1162 | 2020-01-27 18:29:10 | MASTER-Kislovodsk | (05h 08m 04.86s , +20d 05m 33.1s) | C | 180 | 19.8 | 1162 | 2020-01-27 18:29:10 | MASTER-Kislovodsk | (04h 59m 09.11s , +20d 31m 32.9s) | C | 180 | 20.0 | 1404 | 2020-01-27 18:34:13 | MASTER-Kislovodsk | (04h 57m 58.68s , +22d 03m 01.3s) | C | 60 | 19.3 | 1405 | 2020-01-27 18:34:13 | MASTER-Kislovodsk | (04h 48m 55.53s , +22d 29m 02.8s) | C | 60 | 19.4 | 1501 | 2020-01-27 18:35:49 | MASTER-Kislovodsk | (05h 02m 25.13s , +24d 01m 21.4s) | C | 60 | 18.9 | 1501 | 2020-01-27 18:35:49 | MASTER-Kislovodsk | (04h 53m 13.19s , +24d 27m 30.8s) | C | 60 | 19.4 | 1679 | 2020-01-27 18:38:47 | MASTER-Kislovodsk | (05h 10m 59.72s , +20d 02m 20.7s) | C | 60 | 19.0 | 1679 | 2020-01-27 18:38:47 | MASTER-Kislovodsk | (05h 02m 04.34s , +20d 28m 17.8s) | C | 60 | 19.4 | 1769 | 2020-01-27 18:40:17 | MASTER-Kislovodsk | (05h 07m 18.21s , +18d 03m 21.8s) | C | 60 | 19.1 | 1769 | 2020-01-27 18:40:17 | MASTER-Kislovodsk | (04h 58m 29.94s , +18d 29m 11.6s) | C | 60 | 19.4 | 1861 | 2020-01-27 18:41:49 | MASTER-Kislovodsk | (05h 15m 17.74s , +22d 02m 20.2s) | C | 60 | 19.0 | 1861 | 2020-01-27 18:41:49 | MASTER-Kislovodsk | (05h 06m 14.38s , +22d 28m 24.5s) | C | 60 | 19.0 | 1950 | 2020-01-27 18:43:18 | MASTER-Kislovodsk | (05h 15m 17.68s , +18d 27m 17.0s) | C | 60 | 18.8 | 2038 | 2020-01-27 18:44:46 | MASTER-Kislovodsk | (05h 02m 11.51s , +20d 27m 25.6s) | C | 60 | 19.3 | 2042 | 2020-01-27 18:44:50 | MASTER-Kislovodsk | (05h 11m 06.73s , +20d 01m 30.3s) | C | 60 | 19.0 | 2131 | 2020-01-27 18:46:19 | MASTER-Kislovodsk | (05h 07m 21.25s , +18d 03m 12.4s) | C | 60 | 19.1 | 2131 | 2020-01-27 18:46:19 | MASTER-Kislovodsk | (04h 58m 33.06s , +18d 28m 59.7s) | C | 60 | 19.2 | 2475 | 2020-01-27 18:52:03 | MASTER-Kislovodsk | (05h 15m 17.71s , +22d 03m 12.0s) | C | 60 | 18.9 | 2475 | 2020-01-27 18:52:03 | MASTER-Kislovodsk | (05h 06m 14.47s , +22d 28m 53.9s) | C | 60 | 19.0 | 2579 | 2020-01-27 18:53:47 | MASTER-Kislovodsk | (05h 15m 19.21s , +18d 28m 17.1s) | C | 60 | 18.9 | 2890 | 2020-01-27 18:58:58 | MASTER-Kislovodsk | (05h 12m 08.49s , +16d 28m 50.8s) | C | 60 | 19.2 | 2980 | 2020-01-27 19:00:29 | MASTER-Kislovodsk | (05h 19m 07.74s , +20d 27m 55.0s) | C | 60 | 19.0 | 3081 | 2020-01-27 19:02:10 | MASTER-Kislovodsk | (04h 54m 01.95s , +20d 00m 57.6s) | C | 60 | 19.3 | 3082 | 2020-01-27 19:02:10 | MASTER-Kislovodsk | (04h 45m 11.65s , +20d 27m 35.3s) | C | 60 | 19.6 | 3979 | 2020-01-27 19:17:07 | MASTER-Kislovodsk | (05h 12m 02.80s , +16d 29m 06.3s) | C | 60 | 19.3 | 4070 | 2020-01-27 19:18:38 | MASTER-Kislovodsk | (05h 19m 14.66s , +20d 28m 20.0s) | C | 60 | 19.0 | 4294 | 2020-01-27 19:22:22 | MASTER-Tavrida | (04h 51m 09.61s , +21d 51m 55.1s) | C | 60 | 19.2 | 4392 | 2020-01-27 19:24:00 | MASTER-Tavrida | (04h 55m 30.97s , +23d 51m 18.0s) | C | 60 | 19.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200127.61: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26896, p. 1

MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) was pointed to the Swift GRB200127.61 (trigger No 952791,19h 40m 48.96s , +44d 54m 36.0s, R=0.05) errorbox 2 sec after notice time and 99 sec after trigger time at 2020-01-27 14:46:10 UT, with upper limit up to 12.5 mag. The observations began at zenith distance = 85 deg. The sun altitude is -56.5 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) was pointed to the Swift GRB200127.61 errorbox 6 sec after notice time and 102 sec after trigger time at 2020-01-27 14:46:14 UT, with upper limit up to 16.1 mag. Observations started at twilight. The observations began at zenith distance = 64 deg. The sun altitude is -6.0 deg. The galactic latitude b = 11 deg., longitude l = 78 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1270540 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 109 | MASTER-Amur | P/ | 20 | 12.5 | 113 | MASTER-Kislovodsk | P| | 20 | 14.3 | 146 | MASTER-Amur | P/ | 30 | 12.5 | 727 | MASTER-Kislovodsk | P| | 130 | 16.1 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 601729856: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26890, p. 1

MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200126.47 (trigger No 601729856,03h 57m 52.80s , -59d 37m 12.0s, R=12.33) errorbox 27066 sec after trigger time at 2020-01-26 18:41:58 UT, with upper limit up to 19.4 mag. Observations started at twilight. The observations began at zenith distance = 23 deg. The sun altitude is -11.7 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB200126.47 errorbox 30219 sec after trigger time at 2020-01-26 19:34:31 UT, with upper limit up to 18.2 mag. Observations started at twilight. The observations began at zenith distance = 78 deg. The sun altitude is -12.8 deg. The galactic latitude b = -45 deg., longitude l = 272 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1269813 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 27096 | 2020-01-26 18:41:58 | MASTER-SAAO | (04h 16m 26.40s , -54d 50m 11.3s) | C | 60 | 17.4 | 27188 | 2020-01-26 18:43:29 | MASTER-SAAO | (04h 16m 32.20s , -54d 51m 12.8s) | V | 60 | 17.1 | 27287 | 2020-01-26 18:45:08 | MASTER-SAAO | (04h 04m 07.50s , -59d 56m 30.2s) | C | 60 | 18.5 | 27385 | 2020-01-26 18:46:46 | MASTER-SAAO | (04h 20m 27.28s , -57d 55m 35.7s) | C | 60 | 18.0 | 27485 | 2020-01-26 18:48:26 | MASTER-SAAO | (04h 06m 45.11s , -55d 55m 32.1s) | C | 60 | 17.7 | 27582 | 2020-01-26 18:50:04 | MASTER-SAAO | (04h 20m 02.50s , -61d 54m 54.8s) | C | 60 | 18.7 | 27679 | 2020-01-26 18:51:40 | MASTER-SAAO | (04h 04m 03.11s , -59d 56m 42.8s) | C | 60 | 18.8 | 27776 | 2020-01-26 18:53:18 | MASTER-SAAO | (04h 20m 08.65s , -59d 56m 01.0s) | C | 60 | 18.9 | 27873 | 2020-01-26 18:54:54 | MASTER-SAAO | (04h 20m 28.22s , -57d 54m 11.2s) | C | 60 | 18.4 | 27970 | 2020-01-26 18:56:31 | MASTER-SAAO | (04h 35m 33.29s , -57d 55m 16.1s) | C | 60 | 18.6 | 28066 | 2020-01-26 18:58:07 | MASTER-SAAO | (04h 16m 35.15s , -54d 50m 34.0s) | C | 60 | 17.7 | 28166 | 2020-01-26 18:59:47 | MASTER-SAAO | (04h 16m 27.84s , -54d 51m 37.5s) | V | 60 | 17.3 | 28268 | 2020-01-26 19:01:29 | MASTER-SAAO | (04h 06m 44.34s , -55d 54m 48.8s) | C | 60 | 17.8 | 28365 | 2020-01-26 19:03:06 | MASTER-SAAO | (04h 21m 09.32s , -55d 55m 11.3s) | C | 60 | 17.8 | 28463 | 2020-01-26 19:04:44 | MASTER-SAAO | (04h 19m 57.07s , -61d 56m 13.6s) | C | 60 | 18.9 | 28559 | 2020-01-26 19:06:20 | MASTER-SAAO | (04h 37m 04.01s , -61d 55m 26.2s) | C | 60 | 18.7 | 28657 | 2020-01-26 19:07:58 | MASTER-SAAO | (04h 20m 05.82s , -59d 54m 41.4s) | C | 60 | 18.9 | 28754 | 2020-01-26 19:09:35 | MASTER-SAAO | (04h 35m 33.53s , -57d 55m 27.9s) | C | 60 | 18.5 | 28850 | 2020-01-26 19:11:11 | MASTER-SAAO | (04h 21m 10.93s , -55d 54m 26.6s) | C | 60 | 17.6 | 28947 | 2020-01-26 19:12:48 | MASTER-SAAO | (04h 36m 59.91s , -61d 54m 35.2s) | C | 60 | 18.7 | 29044 | 2020-01-26 19:14:25 | MASTER-SAAO | (04h 36m 09.10s , -59d 54m 41.0s) | C | 60 | 18.8 | 29142 | 2020-01-26 19:16:03 | MASTER-SAAO | (04h 54m 06.73s , -61d 54m 26.1s) | C | 60 | 18.8 | 29241 | 2020-01-26 19:17:42 | MASTER-SAAO | (04h 02m 01.51s , -63d 57m 17.7s) | C | 60 | 18.8 | 29339 | 2020-01-26 19:19:20 | MASTER-SAAO | (04h 38m 27.10s , -63d 54m 40.1s) | C | 60 | 18.9 | 29436 | 2020-01-26 19:20:57 | MASTER-SAAO | (04h 36m 03.61s , -59d 53m 50.8s) | C | 60 | 19.0 | 29533 | 2020-01-26 19:22:34 | MASTER-SAAO | (04h 52m 08.87s , -59d 54m 07.8s) | C | 60 | 19.0 | 29629 | 2020-01-26 19:24:10 | MASTER-SAAO | (04h 54m 02.88s , -61d 55m 02.0s) | C | 60 | 18.7 | 29730 | 2020-01-26 19:25:52 | MASTER-SAAO | (05h 11m 09.92s , -61d 54m 04.8s) | C | 60 | 18.6 | 29829 | 2020-01-26 19:27:30 | MASTER-SAAO | (04h 01m 59.68s , -63d 55m 57.1s) | C | 60 | 18.6 | 29926 | 2020-01-26 19:29:07 | MASTER-SAAO | (04h 20m 14.15s , -63d 56m 14.9s) | C | 60 | 18.6 | 30027 | 2020-01-26 19:30:49 | MASTER-SAAO | (04h 38m 30.62s , -63d 54m 06.0s) | C | 60 | 18.6 | 30124 | 2020-01-26 19:32:25 | MASTER-SAAO | (04h 56m 40.27s , -63d 54m 04.9s) | C | 60 | 18.6 | 30222 | 2020-01-26 19:34:03 | MASTER-SAAO | (04h 52m 01.71s , -59d 53m 23.0s) | C | 60 | 18.8 | 30250 | 2020-01-26 19:34:31 | MASTER-IAC | (04h 04m 23.53s , -48d 02m 37.8s) | C | 60 | 17.4 | 30250 | 2020-01-26 19:34:31 | MASTER-IAC | (03h 52m 20.08s , -47d 59m 11.2s) | C | 60 | 16.6 | 30319 | 2020-01-26 19:35:40 | MASTER-SAAO | (05h 11m 07.39s , -61d 53m 29.7s) | C | 60 | 18.8 | 30386 | 2020-01-26 19:36:47 | MASTER-IAC | (03h 40m 22.42s , -48d 04m 21.2s) | C | 60 | 17.6 | 30386 | 2020-01-26 19:36:47 | MASTER-IAC | (03h 28m 18.82s , -48d 00m 55.6s) | C | 60 | 16.9 | 30417 | 2020-01-26 19:37:19 | MASTER-SAAO | (04h 20m 12.98s , -63d 56m 55.7s) | C | 60 | 18.8 | 30516 | 2020-01-26 19:38:58 | MASTER-SAAO | (04h 56m 46.12s , -63d 54m 49.1s) | C | 60 | 18.8 | 30615 | 2020-01-26 19:40:36 | MASTER-SAAO | (04h 20m 52.48s , -65d 56m 43.5s) | C | 60 | 18.7 | 30713 | 2020-01-26 19:42:14 | MASTER-SAAO | (03h 41m 24.59s , -65d 57m 55.8s) | C | 60 | 18.8 | 30756 | 2020-01-26 19:42:58 | MASTER-IAC | (04h 04m 21.79s , -48d 03m 22.0s) | C | 60 | 18.2 | 30756 | 2020-01-26 19:42:58 | MASTER-IAC | (03h 52m 18.34s , -47d 59m 55.7s) | C | 60 | 17.5 | 30812 | 2020-01-26 19:43:53 | MASTER-SAAO | (05h 00m 09.81s , -65d 54m 09.3s) | C | 60 | 18.3 | 30892 | 2020-01-26 19:45:13 | MASTER-IAC | (03h 40m 29.23s , -48d 02m 31.5s) | C | 60 | 18.2 | 30892 | 2020-01-26 19:45:13 | MASTER-IAC | (03h 28m 26.04s , -47d 59m 05.7s) | C | 60 | 17.5 | 30912 | 2020-01-26 19:45:33 | MASTER-SAAO | (03h 25m 28.35s , -63d 59m 25.7s) | C | 60 | 18.8 | 31011 | 2020-01-26 19:47:12 | MASTER-SAAO | (04h 20m 48.24s , -65d 55m 11.8s) | C | 60 | 18.7 | 31108 | 2020-01-26 19:48:49 | MASTER-SAAO | (04h 40m 27.63s , -65d 55m 53.8s) | C | 60 | 18.6 | 31207 | 2020-01-26 19:50:29 | MASTER-SAAO | (03h 41m 30.34s , -65d 57m 26.2s) | C | 60 | 18.7 | 31304 | 2020-01-26 19:52:05 | MASTER-SAAO | (04h 01m 05.33s , -65d 57m 11.3s) | C | 60 | 18.5 | 31402 | 2020-01-26 19:53:43 | MASTER-SAAO | (05h 00m 05.01s , -65d 53m 21.1s) | C | 60 | 18.3 | 31499 | 2020-01-26 19:55:20 | MASTER-SAAO | (05h 19m 48.37s , -65d 53m 28.0s) | C | 60 | 18.0 | 31600 | 2020-01-26 19:57:01 | MASTER-SAAO | (03h 25m 22.64s , -64d 00m 06.9s) | C | 60 | 18.8 | 31697 | 2020-01-26 19:58:39 | MASTER-SAAO | (03h 43m 44.01s , -63d 58m 53.5s) | C | 60 | 19.0 | 31796 | 2020-01-26 20:00:18 | MASTER-SAAO | (04h 40m 28.74s , -65d 54m 41.6s) | C | 60 | 18.6 | 31903 | 2020-01-26 20:02:04 | MASTER-SAAO | (04h 01m 08.79s , -65d 58m 18.7s) | C | 60 | 18.7 | 32006 | 2020-01-26 20:03:47 | MASTER-SAAO | (05h 19m 49.59s , -65d 52m 51.0s) | C | 60 | 18.0 | 32105 | 2020-01-26 20:05:27 | MASTER-SAAO | (03h 43m 39.79s , -63d 58m 26.9s) | C | 60 | 18.9 | 32204 | 2020-01-26 20:07:06 | MASTER-SAAO | (03h 50m 16.77s , -57d 58m 11.7s) | C | 60 | 18.5 | 32301 | 2020-01-26 20:08:42 | MASTER-SAAO | (03h 38m 11.22s , -55d 59m 25.4s) | C | 60 | 17.9 | 32402 | 2020-01-26 20:10:23 | MASTER-SAAO | (03h 54m 43.64s , -53d 59m 01.7s) | C | 60 | 17.8 | 32499 | 2020-01-26 20:12:01 | MASTER-SAAO | (04h 35m 19.53s , -55d 56m 01.0s) | C | 60 | 17.9 | 32598 | 2020-01-26 20:13:40 | MASTER-SAAO | (03h 50m 11.08s , -57d 57m 20.4s) | C | 60 | 18.5 | 32695 | 2020-01-26 20:15:17 | MASTER-SAAO | (04h 05m 23.53s , -57d 57m 36.1s) | C | 60 | 18.4 | 32794 | 2020-01-26 20:16:55 | MASTER-SAAO | (03h 38m 05.66s , -56d 00m 03.1s) | C | 60 | 17.9 | 32889 | 2020-01-26 20:18:30 | MASTER-SAAO | (03h 52m 30.18s , -55d 58m 55.3s) | C | 60 | 17.8 | 32985 | 2020-01-26 20:20:07 | MASTER-SAAO | (03h 54m 43.85s , -53d 57m 42.1s) | C | 60 | 17.8 | 33082 | 2020-01-26 20:21:44 | MASTER-SAAO | (04h 08m 20.75s , -53d 58m 21.6s) | C | 60 | 17.7 | 33180 | 2020-01-26 20:23:21 | MASTER-SAAO | (04h 35m 27.07s , -55d 55m 18.2s) | C | 60 | 18.1 | 33276 | 2020-01-26 20:24:57 | MASTER-SAAO | (04h 49m 38.79s , -55d 55m 36.1s) | C | 60 | 19.0 | 33375 | 2020-01-26 20:26:36 | MASTER-SAAO | (04h 05m 18.55s , -57d 56m 54.1s) | C | 60 | 18.3 | 33472 | 2020-01-26 20:28:13 | MASTER-SAAO | (03h 52m 31.67s , -55d 58m 37.7s) | C | 60 | 17.8 | 33569 | 2020-01-26 20:29:51 | MASTER-SAAO | (04h 08m 18.37s , -53d 58m 52.0s) | C | 60 | 17.8 | 33668 | 2020-01-26 20:31:29 | MASTER-SAAO | (04h 49m 44.62s , -55d 56m 41.4s) | C | 60 | 19.0 | 33767 | 2020-01-26 20:33:08 | MASTER-SAAO | (05h 20m 49.27s , -57d 54m 42.9s) | C | 60 | 18.9 | 33868 | 2020-01-26 20:34:50 | MASTER-SAAO | (04h 49m 14.24s , -49d 55m 56.6s) | C | 60 | 19.4 | 33968 | 2020-01-26 20:36:29 | MASTER-SAAO | (04h 37m 54.93s , -47d 56m 33.8s) | C | 60 | 19.3 | 34068 | 2020-01-26 20:38:09 | MASTER-SAAO | (05h 32m 39.95s , -55d 54m 34.0s) | C | 60 | 18.9 | 34165 | 2020-01-26 20:39:46 | MASTER-SAAO | (05h 20m 50.28s , -57d 53m 28.8s) | C | 60 | 18.9 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 601677816: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26886, p. 1

MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB200125.86 (trigger No 601677816,00h 29m 48.00s , +64d 41m 24.0s, R=1) errorbox 48 sec after notice time and 95 sec after trigger time at 2020-01-25 20:45:06 UT, with upper limit up to 19.2 mag. The observations began at zenith distance = 57 deg. The sun altitude is -61.0 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the Fermi GRB200125.86 errorbox 108 sec after notice time and 155 sec after trigger time at 2020-01-25 20:46:06 UT, with upper limit up to 19.1 mag. The observations began at zenith distance = 48 deg. The sun altitude is -28.4 deg. MASTER-Amur robotic telescope located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the Fermi GRB200125.86 errorbox 108 sec after notice time and 3849 sec after trigger time at 2020-01-25 21:47:40 UT, with upper limit up to 17.5 mag. Observations started at twilight. The observations began at zenith distance = 63 deg. The sun altitude is -13.7 deg. The galactic latitude b = 2 deg., longitude l = 121 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1269314 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 105 | 2020-01-25 20:45:06 | MASTER-Tavrida | (00h 21m 53.05s , +64d 30m 03.6s) | C | 20 | 18.0 | 170 | 2020-01-25 20:46:06 | MASTER-IAC | (00h 45m 48.20s , +64d 38m 36.5s) | P| | 30 | 17.3 | 220 | 2020-01-25 20:46:06 | MASTER-IAC | (00h 45m 48.20s , +64d 38m 36.6s) | P| | 130 | 18.0 | Coadd 170 | 2020-01-25 20:46:06 | MASTER-IAC | (00h 44m 14.93s , +64d 42m 25.3s) | P- | 30 | 17.3 | 220 | 2020-01-25 20:46:06 | MASTER-IAC | (00h 44m 14.93s , +64d 42m 25.3s) | P- | 130 | 18.1 | Coadd 220 | 2020-01-25 20:46:51 | MASTER-Tavrida | (00h 30m 06.67s , +64d 34m 50.1s) | C | 40 | 18.5 | 275 | 2020-01-25 20:46:51 | MASTER-Tavrida | (00h 30m 06.65s , +64d 34m 50.1s) | C | 150 | 19.3 | Coadd 261 | 2020-01-25 20:47:31 | MASTER-IAC | (00h 44m 17.49s , +64d 41m 52.9s) | P- | 40 | 17.5 | 261 | 2020-01-25 20:47:31 | MASTER-IAC | (00h 45m 50.35s , +64d 38m 03.3s) | P| | 40 | 17.4 | 286 | 2020-01-25 20:47:52 | MASTER-Tavrida | (00h 30m 10.72s , +64d 34m 09.7s) | C | 50 | 18.7 | 361 | 2020-01-25 20:49:02 | MASTER-Tavrida | (00h 30m 07.28s , +64d 35m 07.1s) | C | 60 | 18.7 | 368 | 2020-01-25 20:49:08 | MASTER-IAC | (00h 44m 14.86s , +64d 43m 02.2s) | P- | 60 | 17.8 | 368 | 2020-01-25 20:49:08 | MASTER-IAC | (00h 45m 47.54s , +64d 39m 11.8s) | P| | 60 | 17.7 | 452 | 2020-01-25 20:50:23 | MASTER-Tavrida | (00h 30m 08.03s , +64d 33m 54.4s) | C | 80 | 18.7 | 497 | 2020-01-25 20:51:08 | MASTER-IAC | (00h 45m 47.30s , +64d 37m 40.3s) | P| | 80 | 17.9 | 497 | 2020-01-25 20:51:08 | MASTER-IAC | (00h 44m 14.91s , +64d 41m 31.4s) | P- | 80 | 18.0 | 656 | 2020-01-25 20:53:27 | MASTER-IAC | (00h 28m 59.43s , +64d 33m 48.2s) | P| | 120 | 18.1 | 821 | 2020-01-25 20:53:27 | MASTER-IAC | (00h 28m 59.43s , +64d 33m 48.2s) | P| | 450 | 18.8 | Coadd 656 | 2020-01-25 20:53:27 | MASTER-IAC | (00h 27m 27.77s , +64d 37m 39.4s) | P- | 120 | 18.2 | 821 | 2020-01-25 20:53:27 | MASTER-IAC | (00h 27m 27.79s , +64d 37m

39.4s) | P- | 450 | 19.0 | Coadd 695 | 2020-01-25 20:54:00 | MASTER-Tavrida | (00h 21m 49.35s , +64d 29m 33.0s) | C | 130 | 18.3 | 855 | 2020-01-25 20:56:31 | MASTER-Tavrida | (00h 21m 46.37s , +64d 30m 14.5s) | C | 150 | 18.1 | 859 | 2020-01-25 20:56:34 | MASTER-IAC | (00h 27m 25.06s , +64d 37m 37.4s) | P- | 150 | 18.4 | 859 | 2020-01-25 20:56:34 | MASTER-IAC | (00h 28m 56.25s , +64d 33m 45.8s) | P| | 150 | 18.3 | 1040 | 2020-01-25 20:59:21 | MASTER-Tavrida | (00h 21m 54.02s , +64d 28m 55.1s) | C | 180 | 17.9 | 1085 | 2020-01-25 21:00:06 | MASTER-IAC | (00h 27m 24.32s , +64d 38m 35.4s) | P- | 180 | 18.5 | 1085 | 2020-01-25 21:00:06 | MASTER-IAC | (00h 28m 55.68s , +64d 34m 43.1s) | P| | 180 | 18.4 | 1241 | 2020-01-25 21:02:42 | MASTER-Tavrida | (00h 21m 50.52s , +64d 27m 31.8s) | C | 180 | 17.7 | 1324 | 2020-01-25 21:04:05 | MASTER-IAC | (00h 29m 02.16s , +64d 33m 40.3s) | P| | 180 | 18.4 | 1504 | 2020-01-25 21:04:05 | MASTER-IAC | (00h 29m 02.16s , +64d 33m 40.3s) | P| | 540 | 19.0 | Coadd 1324 | 2020-01-25 21:04:05 | MASTER-IAC | (00h 27m 30.45s , +64d 37m 33.4s) | P- | 180 | 18.6 | 1442 | 2020-01-25 21:06:03 | MASTER-Tavrida | (00h 21m 57.58s , +64d 27m 35.7s) | C | 180 | 17.7 | 1563 | 2020-01-25 21:08:03 | MASTER-IAC | (00h 28m 57.84s , +64d 32m 38.6s) | P| | 180 | 18.5 | 1563 | 2020-01-25 21:08:03 | MASTER-IAC | (00h 27m 25.88s , +64d 36m 31.4s) | P- | 180 | 18.6 | 1642 | 2020-01-25 21:09:23 | MASTER-Tavrida | (00h 21m 55.34s , +64d 28m 22.7s) | C | 180 | 17.7 | 1803 | 2020-01-25 21:12:03 | MASTER-IAC | (00h 29m 03.22s , +64d 33m 01.3s) | P| | 180 | 18.5 | 2375 | 2020-01-25 21:21:36 | MASTER-Tavrida | (00h 23m 04.00s , +64d 09m 15.5s) | C | 180 | 17.4 | 2408 | 2020-01-25 21:22:08 | MASTER-IAC | (00h 28m 30.48s , +64d 19m 47.3s) | P- | 180 | 18.5 | 2588 | 2020-01-25 21:22:08 | MASTER-IAC | (00h 28m 30.49s , +64d 19m 47.2s) | P- | 540 | 19.0 | Coadd 2408 | 2020-01-25 21:22:08 | MASTER-IAC | (00h 29m 58.94s , +64d 16m 02.9s) | P| | 180 | 18.5 | 2588 | 2020-01-25 21:22:08 | MASTER-IAC | (00h 29m 58.96s , +64d 16m 03.0s) | P| | 540 | 19.1 | Coadd 2575 | 2020-01-25 21:24:56 | MASTER-Tavrida | (00h 23m 08.20s , +64d 09m 47.5s) | C | 180 | 17.2 | 2646 | 2020-01-25 21:26:06 | MASTER-IAC | (00h 28m 28.15s , +64d 19m 47.6s) | P- | 180 | 18.5 | 2646 | 2020-01-25 21:26:06 | MASTER-IAC | (00h 29m 56.82s , +64d 16m 00.8s) | P| | 180 | 18.5 | 2776 | 2020-01-25 21:28:17 | MASTER-Tavrida | (00h 23m 03.04s , +64d 08m 25.0s) | C | 180 | 17.4 | 2883 | 2020-01-25 21:30:04 | MASTER-IAC | (00h 28m 27.09s , +64d 20m 46.7s) | P- | 180 | 18.5 | 2883 | 2020-01-25 21:30:04 | MASTER-IAC | (00h 29m 55.87s , +64d 16m 59.1s) | P| | 180 | 18.5 | 2977 | 2020-01-25 21:31:38 | MASTER-Tavrida | (00h 23m 05.25s , +64d 09m 17.9s) | C | 180 | 18.8 | 3122 | 2020-01-25 21:34:03 | MASTER-IAC | (00h 28m 32.81s , +64d 19m 45.2s) | P- | 180 | 18.5 | 3122 | 2020-01-25 21:34:03 | MASTER-IAC | (00h 30m 01.51s , +64d 15m 57.3s) | P| | 180 | 18.5 | 3879 | 2020-01-25 21:47:40 | MASTER-Amur | (00h 27m 55.52s , +64d 00m 36.1s) | C | 60 | 17.0 | 3974 | 2020-01-25 21:49:15 | MASTER-Amur | (00h 46m 08.57s , +63d 58m 30.2s) | C | 60 | 17.2 | 4112 | 2020-01-25 21:51:32 | MASTER-Amur | (00h 30m 11.44s , +66d 00m 20.8s) | C | 60 | 17.5 | 4206 | 2020-01-25 21:53:06 | MASTER-Amur | (00h 49m 43.17s , +65d 59m 17.4s) | C | 60 | 17.4 | 4301 | 2020-01-25 21:54:42 | MASTER-Amur | (00h 26m 00.37s , +62d 00m 40.1s) | C | 60 | 17.0 | 4698 | 2020-01-25 22:01:19 | MASTER-Amur | (00h 46m 09.87s , +64d 00m 08.3s) | C | 60 | 17.0 | 4793 | 2020-01-25 22:02:53 | MASTER-Amur | (00h 49m 47.18s , +65d 58m 42.9s) | C | 60 | 17.1 | 4987 | 2020-01-25 22:06:07 | MASTER-IAC | (00h 24m 00.39s , +61d 53m 55.8s) | C | 60 | 18.2 | 5352 | 2020-01-25 22:12:13 | MASTER-Tavrida | (00h 20m 01.38s , +63d 43m 16.6s) | C | 60 | 18.4 | 5405 | 2020-01-25 22:13:05 | MASTER-IAC | (00h 23m 58.34s , +61d 53m 50.4s) | C | 60 | 18.1 | 5444 | 2020-01-25 22:13:45 | MASTER-Tavrida | (00h 21m 37.56s , +65d 44m 45.9s) | C | 60 | 19.0 | 5542 | 2020-01-25 22:15:23 | MASTER-IAC | (00h 07m 53.75s , +63d 50m 12.6s) | C | 60 | 18.4 | 5673 | 2020-01-25 22:17:34 | MASTER-IAC | (00h 07m 53.39s , +63d 50m 10.5s) | C | 60 | 18.4 | 5769 | 2020-01-25 22:19:09 | MASTER-Tavrida | (00h 20m 01.76s , +63d 44m 23.9s) | C | 60 | 18.4 | 5861 | 2020-01-25 22:20:42 | MASTER-Tavrida | (00h 38m 12.54s , +63d 45m 25.6s) | C | 60 | 18.5 | 5954 | 2020-01-25 22:22:15 | MASTER-Tavrida | (00h 21m 41.47s , +65d 44m 16.0s) | C | 60 | 18.9 | 6046 | 2020-01-25 22:23:47 | MASTER-Tavrida | (00h 41m 11.30s , +65d 43m 20.4s) | C | 60 | 18.8 | 6373 | 2020-01-25 22:29:13 | MASTER-Tavrida | (00h 38m 15.51s , +63d 43m 40.4s) | C | 60 | 18.5 | 6463 | 2020-01-25 22:30:44 | MASTER-Tavrida | (00h 41m 15.96s , +65d 44m 56.9s) | C | 60 | 18.8 | 6468 | 2020-01-25 22:30:49 | MASTER-IAC | (00h 08m 36.77s , +65d 48m 59.0s) | C | 60 | 19.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200125A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26881, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB 200125A (A. Y. Lien et al., GCN 26876) errorbox 47603 sec after trigger time at 2020-01-26 00:45:02 UT, with upper limit up to 18.5 mag. The observations began at zenith distance = 71 deg. The sun altitude is -32.2 deg. The galactic latitude b = 40 deg., longitude l = 352 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1268985 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____|_____ 47693 | MASTER-SAAO | C | 180 | 18.5 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 601363105: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26858, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the Fermi GRB200122.22 (trigger No 601363105,08h 18m 38.40s , +67d 05m 24.0s, R=16.59) errorbox 28513 sec after trigger time at 2020-01-22 13:13:33 UT, with upper limit up to 17.9 mag. The observations began at zenith distance = 20 deg. The sun altitude is -47.8 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB200122.22 errorbox 53000 sec after trigger time at 2020-01-22 20:01:41 UT, with upper limit up to 19.8 mag. The observations began at zenith distance = 21 deg. The sun altitude is -61.2 deg. The galactic latitude b = 34 deg., longitude l = 149 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1266432 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 28603 | 2020-01-22 13:13:33 | MASTER-Amur | (06h 57m 23.31s , +68d 07m 37.2s) | C | 180 | 17.7 | 28818 | 2020-01-22 13:17:08 | MASTER-Amur | (06h 33m 08.68s , +64d 05m 36.4s) | C | 180 | 17.8 | 29032 | 2020-01-22 13:20:42 | MASTER-Amur | (06h 42m 22.81s , +72d 07m 20.5s) | C | 180 | 17.9 | 29257 | 2020-01-22 13:24:27 | MASTER-Amur | (06h 33m 03.21s , +74d 06m 57.3s) | C | 180 | 17.8 | 29473 | 2020-01-22 13:28:03 | MASTER-Amur | (06h 06m 48.84s , +78d 07m 13.5s) | C | 180 | 17.8 | 29694 | 2020-01-22 13:31:44 | MASTER-Amur | (05h 43m 26.63s , +79d 59m 28.3s) | C | 180 | 17.6 | 29909 | 2020-01-22 13:35:20 | MASTER-Amur | (05h 12m 31.96s , +76d 01m 30.7s) | C | 180 | 17.6 | 30343 | 2020-01-22 13:42:34 | MASTER-Amur | (04h 56m 20.09s , +72d 01m 48.4s) | C | 180 | 17.6 | 30558 | 2020-01-22 13:46:08 | MASTER-Amur | (05h 29m 54.77s , +68d 00m 07.5s) | C | 180 | 17.5 | 30771 | 2020-01-22 13:49:42 | MASTER-Amur | (05h 32m 20.52s , +74d 01m 29.6s) | C | 180 | 17.4 | 31208 | 2020-01-22 13:56:58 | MASTER-Amur | (06h 57m 17.41s , +68d 06m 28.0s) | C | 180 | 16.4 | 31422 | 2020-01-22 14:00:32 | MASTER-Amur | (07h 18m 40.56s , +68d 07m 30.3s) | C | 180 | 16.6 | 31644 | 2020-01-22 14:04:14 | MASTER-Amur | (06h 33m 08.53s , +64d 06m 28.5s) | C | 180 | 16.2 | 31856 | 2020-01-22 14:07:47 | MASTER-Amur | (06h 51m 19.00s , +64d 05m 32.8s) | C | 180 | 16.3 | 32073 | 2020-01-22 14:11:23 | MASTER-Amur | (06h 42m 14.89s , +72d 05m 45.1s) | C | 180 | 16.6 | 32287 | 2020-01-22 14:14:58 | MASTER-Amur | (07h 08m 09.24s , +72d 07m 16.2s) | C | 180 | 16.8 | 32509 | 2020-01-22 14:18:39 | MASTER-Amur | (06h 30m 27.09s , +74d 00m 12.2s) | C | 180 | 16.7 | 32730 | 2020-01-22 14:22:21 | MASTER-Amur | (07h 01m 54.23s , +74d 07m 07.5s) | C | 180 | 16.6 | 32956 | 2020-01-22 14:26:06 | MASTER-Amur | (06h 03m 33.20s , +78d 00m 24.4s) | C | 180 | 16.4 | 33172 | 2020-01-22 14:29:43 | MASTER-Amur | (06h 42m 09.93s , +78d 01m 39.2s) | C | 180 | 16.5 | 33388 | 2020-01-22 14:33:18 | MASTER-Amur | (05h 43m 08.07s , +80d 00m 04.2s) | C | 180 | 16.3 | 33602 | 2020-01-22 14:36:53 | MASTER-Amur | (06h 29m 19.16s , +79d 59m 22.7s) | C | 180 | 15.9 | 33818 | 2020-01-22 14:40:28 | MASTER-Amur | (05h 12m 21.19s , +75d 59m 09.9s) | C | 180 | 16.1 | 34032 | 2020-01-22 14:44:02 | MASTER-Amur | (05h 45m 25.52s , +76d 01m 01.8s) | C | 180 | 15.7 | 53091 | 2020-01-22 20:01:41 | MASTER-Kislovodsk | (06h 51m 13.90s , +64d 02m 35.2s) | C | 180 | 18.4 | 53091 | 2020-01-22 20:01:41 | MASTER-Kislovodsk | (06h 31m 48.77s , +64d 29m 09.6s) | C | 180 | 17.7 | 53364 | 2020-01-22 20:06:14 | MASTER-Kislovodsk | (07h 13m 34.70s , +62d 12m 40.0s) | C | 180 | 18.9 | 53544 | 2020-01-22 20:06:14 | MASTER-Kislovodsk | (07h 13m 34.69s , +62d 12m 39.5s) | C | 540 | 19.8 | Coadd 53364 | 2020-01-22 20:06:14 | MASTER-Kislovodsk | (07h 31m 21.62s , +61d 46m 50.8s) | C | 180 | 18.5 | 53576 | 2020-01-22 20:09:46 | MASTER-Kislovodsk | (07h 31m 25.79s , +61d 45m 53.5s) | C | 180 | 19.1 | 53576 | 2020-01-22 20:09:46 | MASTER-Kislovodsk | (07h 13m 39.30s , +62d 11m 41.9s) | C | 180 | 19.5 | 53788 | 2020-01-22 20:13:19 | MASTER-Kislovodsk | (07h 13m 32.15s , +62d 10m 41.2s) | C | 180 | 19.3 | 53788 | 2020-01-22 20:13:19 | MASTER-Kislovodsk | (07h 31m 18.12s , +61d 44m 54.4s) | C | 180 | 18.7 | 58905 | 2020-01-22 21:38:36 | MASTER-Kislovodsk | (06h 50m 53.41s , +64d 01m 35.4s) | C | 180 | 15.7 | 58905 | 2020-01-22 21:38:36 | MASTER-Kislovodsk | (06h 31m 31.32s , +64d 26m 50.1s) | C | 180 | 15.3 | 59123 | 2020-01-22 21:42:14 | MASTER-Kislovodsk | (07h 32m 02.01s , +62d 02m 10.5s) | C | 180 | 16.6 | 59303 | 2020-01-22 21:42:14 | MASTER-Kislovodsk | (07h 32m 02.03s , +62d 02m 10.6s) | C | 540 | 17.0 | Coadd 59123 | 2020-01-22 21:42:14 | MASTER-Kislovodsk | (07h 13m 55.20s , +62d 27m 54.3s) | C | 180 | 16.1 | 59341 | 2020-01-22 21:45:52 | MASTER-Kislovodsk | (07h 31m 58.91s , +62d 03m 34.5s) | C | 180 | 16.4 | 59341 | 2020-01-22 21:45:52 | MASTER-Kislovodsk | (07h 13m 51.19s , +62d 29m 17.2s) | C | 180 | 15.9 | 59556 | 2020-01-22 21:49:26 | MASTER-Kislovodsk | (07h 31m 58.05s , +62d 02m 16.2s) | C | 180 | 16.0 | 59556 | 2020-01-22 21:49:26 | MASTER-Kislovodsk | (07h 13m 51.13s , +62d 27m 56.4s) | C | 180 | 15.6 | 59816 | 2020-01-22 21:53:47 | MASTER-Kislovodsk | (07h 31m 53.45s , +62d 02m 51.6s) | C | 180 | 15.5 | 59816 | 2020-01-22 21:53:47 | MASTER-Kislovodsk | (07h 13m 46.09s , +62d 28m 27.7s) | C | 180 | 15.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200122A: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26845, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) was pointed to the Swift GRB 200122A (E. Sonbas et al., GCN 26844) errorbox 8770 sec after trigger time at 2020-01-22 04:07:10 UT, with upper limit up to 19.4 mag. The observations began at zenith distance = 38 deg. The sun altitude is -49.9 deg. The galactic latitude b = 74 deg., longitude l = 38 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1266128 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 8860 | MASTER-IAC | C | 180 | 19.4 | 8860 | MASTER-IAC | C | 180 | 19.2 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 601254300: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26842, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200120.96 (trigger No 601254300,09h 17m 28.80s , -70d 41m 24.0s, R=1) errorbox 70747 sec after trigger time at 2020-01-21 18:44:03 UT, with upper limit up to 18.4 mag. Observations started at twilight. The observations began at zenith distance = 56 deg. The sun altitude is -11.5 deg. The galactic latitude b = -15 deg., longitude l = 287 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1264783 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 70778 | 2020-01-21 18:44:03 | MASTER-SAAO | (09h 17m 08.06s , -69d 53m 15.6s) | C | 60 | 17.2 | 70872 | 2020-01-21 18:45:36 | MASTER-SAAO | (09h 17m 02.32s , -69d 54m 14.4s) | C | 60 | 17.5 | 70967 | 2020-01-21 18:47:12 | MASTER-SAAO | (09h 24m 45.63s , -71d 52m 29.3s) | C | 60 | 17.5 | 71063 | 2020-01-21 18:48:48 | MASTER-SAAO | (09h 11m 25.62s , -67d 52m 41.9s) | C | 60 | 17.3 | 71159 | 2020-01-21 18:50:24 | MASTER-SAAO | (09h 17m 04.39s , -69d 53m 11.0s) | C | 60 | 17.3 | 71257 | 2020-01-21 18:52:02 | MASTER-SAAO | (09h 40m 15.78s , -69d 52m 01.6s) | C | 60 | 17.7 | 71353 | 2020-01-21 18:53:38 | MASTER-SAAO | (09h 24m 51.85s , -71d 53m 02.9s) | C | 60 | 15.6 | 71451 | 2020-01-21 18:55:15 | MASTER-SAAO | (09h 50m 26.25s , -71d 53m 55.2s) | C | 60 | 16.7 | 71549 | 2020-01-21 18:56:53 | MASTER-SAAO | (09h 11m 28.74s , -67d 53m 43.7s) | C | 60 | 17.1 | 71741 | 2020-01-21 19:00:06 | MASTER-SAAO | (09h 40m 22.58s , -69d 53m 44.4s) | C | 60 | 17.2 | 71843 | 2020-01-21 19:01:48 | MASTER-SAAO | (09h 50m 32.83s , -71d 52m 11.5s) | C | 60 | 17.3 | 72438 | 2020-01-21 19:11:43 | MASTER-SAAO | (08h 59m 12.03s , -71d 53m 16.3s) | C | 60 | 18.3 | 72634 | 2020-01-21 19:14:59 | MASTER-SAAO | (08h 54m 06.00s , -69d 53m 22.7s) | C | 60 | 15.4 | 72929 | 2020-01-21 19:19:54 | MASTER-SAAO | (08h 59m 18.22s , -71d 52m 40.1s) | C | 60 | 18.3 | 73025 | 2020-01-21 19:21:29 | MASTER-SAAO | (08h 54m 04.88s , -69d 54m 17.6s) | C | 60 | 18.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200120.78: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26829, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the IceCube Alert 200120.78 (trigger No 43767651,04h 30m 57.12s , -14d 35m 13.2s, R=0.51) errorbox 67 sec after trigger time at 2020-01-20 18:49:26 UT, with upper limit up to 19.0 mag. Observations started at twilight. The observations began at zenith distance = 18 deg. The sun altitude is -12.4 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) was pointed to the IceCube Alert 200120.78 errorbox 70 sec after trigger time at 2020-01-20 18:49:29 UT, with upper limit up to 19.9 mag. The observations began at zenith distance = 59 deg. The sun altitude is -50.9 deg. The galactic latitude b = -37 deg., longitude l = 211 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1264643 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 158 | 2020-01-20 18:49:26 | MASTER-SAAO | (04h 28m 46.35s , -14d 29m 07.8s) | C | 180 | 19.0 | 161 | 2020-01-20 18:49:29 | MASTER-Kislovodsk | (04h 31m 14.62s , -14d 32m 24.1s) | C | 180 | 19.8 | 161 | 2020-01-20 18:49:29 | MASTER-Kislovodsk | (04h 31m 22.22s , -14d 05m 31.4s) | C | 180 | 19.7 | 359 | 2020-01-20 18:52:47 | MASTER-SAAO | (04h 28m 48.69s , -14d 29m 11.3s) | C | 180 | 18.5 | 362 | 2020-01-20 18:52:50 | MASTER-Kislovodsk | (04h 31m 16.86s , -14d 33m 13.3s) | C | 180 | 19.9 | 362 | 2020-01-20 18:52:50 | MASTER-Kislovodsk | (04h 31m 24.63s , -14d 06m 19.0s) | C | 180 | 19.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200117.46: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26799, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) was pointed to the IceCube Alert 200117.46 (trigger No 1410505,07h 43m 50.64s , +29d 19m 12.0s, R=0.51) errorbox 12 sec after notice time and 69 sec after trigger time at 2020-01-17 11:09:39 UT, with upper limit up to 18.2 mag. The observations began at zenith distance = 52 deg. The sun altitude is -30.0 deg. The galactic latitude b = 24 deg., longitude l = 191 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1262734 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 160 | 2020-01-17 11:09:39 | MASTER-Amur | (07h 44m 08.40s , +29d 24m 08.3s) | C | 180 | 17.8 | 360 | 2020-01-17 11:12:59 | MASTER-Amur | (07h 44m 10.58s , +29d 24m 03.9s) | C | 180 | 18.2 | 559 | 2020-01-17 11:16:18 | MASTER-Amur | (07h 44m 04.76s , +29d 23m 04.8s) | C | 180 | 18.2 | 758 | 2020-01-17 11:19:38 | MASTER-Amur | (07h 44m 11.94s , +29d 23m 18.9s) | C | 180 | 18.0 | 958 | 2020-01-17 11:22:57 | MASTER-Amur | (07h 37m 34.85s , +30d 04m 25.1s) | C | 180 | 18.0 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200116ah: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26784, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the LIGO/Virgo S200116ah errorbox 85 sec after notice time and 344 sec after trigger time at 2020-01-16 12:02:26 UT, with upper limit up to 17.3 mag. The observations began at zenith distance = 56 deg. The sun altitude is -23.3 deg. MASTER-Amur robotic telescope located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the LIGO/Virgo S200116ah errorbox 127 sec after notice time and 385 sec after trigger time at 2020-01-16 12:03:07 UT, with upper limit up to 17.4 mag. The observations began at zenith distance = 46 deg. The sun altitude is -38.7 deg. The galactic latitude b = 16 deg., longitude l = 16 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11258 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 379 | 2020-01-16 12:02:26 | MASTER-Tunka | (05h 26m 46.70s , +07d 56m 47.6s) | P| | 70 | 17.3 | 416 | 2020-01-16 12:03:07 | MASTER-Amur | (05h 08m 58.09s , +05d 13m 55.9s) | C | 60 | 17.4 | 495 | 2020-01-16 12:04:27 | MASTER-Amur | (05h 08m 58.11s , +05d 13m 08.1s) | C | 60 | 17.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200116.22: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26782, p. 1

MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the Baksan Neutrino Observatory Alert 200116.22 (trigger No 1629868225,13h 29m 12.00s , -55d 42m 00.0s, R=3) errorbox 106 sec after trigger time at 2020-01-16 05:12:11 UT, with upper limit up to 16.7 mag. The observations began at zenith distance = 84 deg. The sun altitude is -35.5 deg. MASTER-OAFA robotic telescope located in Argentina (OAFA observatory of San Juan National University) started inspect of the Baksan Neutrino Observatory Alert 200116.22 errorbox 174 sec after notice time and 695 sec after trigger time at 2020-01-16 05:22:00 UT, with upper limit up to 18.3 mag. The observations began at zenith distance = 57 deg. The sun altitude is -37.1 deg. The galactic latitude b = 6 deg., longitude l = 309 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1261954 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 176 | 2020-01-16 05:12:11 | MASTER-IAC | (13h 08m 27.54s , -54d 31m 09.0s) | P| | 140 | 16.7 | 176 | 2020-01-16 05:12:11 | MASTER-IAC | (13h 07m 37.05s , -54d 28m 02.1s) | P- | 140 | 16.7 | 635 | 2020-01-16 05:20:00 | MASTER-IAC | (13h 27m 23.43s , -55d 31m 45.9s) | P- | 120 | 16.2 | 795 | 2020-01-16 05:20:00 | MASTER-IAC | (13h 27m 23.69s , -55d 31m 51.4s) | P- | 440 | 16.4 | Coadd 635 | 2020-01-16 05:20:00 | MASTER-IAC | (13h 28m 22.00s , -55d 35m 04.2s) | P| | 120 | 16.1 | 795 | 2020-01-16 05:20:00 | MASTER-IAC | (13h 28m 22.03s , -55d 35m 04.9s) | P| | 440 | 16.5 | Coadd 765 | 2020-01-16 05:22:00 | MASTER-OAFA | (13h 26m 15.16s , -54d 51m 05.9s) | C | 140 | 17.9 | 940 | 2020-01-16 05:22:00 | MASTER-OAFA | (13h 26m 15.16s , -54d 51m 05.8s) | C | 490 | 18.3 | Coadd 828 | 2020-01-16 05:23:03 | MASTER-IAC | (13h 27m 26.57s , -55d 31m 01.1s) | P- | 140 | 15.9 | 828 | 2020-01-16 05:23:03 | MASTER-IAC | (13h 28m 24.96s , -55d 34m 18.2s) | P| | 140 | 15.8 | 952 | 2020-01-16 05:24:51 | MASTER-OAFA | (13h 26m 21.25s , -54d 52m 04.7s) | C | 170 | 18.0 | 1048 | 2020-01-16 05:26:23 | MASTER-IAC | (13h 28m 18.13s , -55d 34m 45.6s) | P| | 180 | 16.2 | 1048 | 2020-01-16 05:26:23 | MASTER-IAC | (13h 27m 19.84s , -55d 31m 31.1s) | P- | 180 | 16.2 | 1158 | 2020-01-16 05:28:13 | MASTER-OAFA | (13h 26m 15.15s , -54d 53m 03.2s) | C | 180 | 17.9 | 1292 | 2020-01-16 05:30:27 | MASTER-IAC | (13h 27m 18.57s , -55d 30m 15.6s) | P- | 180 | 16.4 | 1292 | 2020-01-16 05:30:27 | MASTER-IAC | (13h 28m 17.14s , -55d 33m 30.4s) | P| | 180 | 16.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Tyurina, N., Kornilov, V., Balanutsa, P., Gorbunov, I., Vlasenko, D., Vladimirov, V., Kuznetsov, A., et al. Baksan Neutrino Observatory Alert 200116.21: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26781, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the Baksan Neutrino Observatory Alert 200116.21 (trigger No 1629867585,13h 09m 12.00s , -54d 36m 00.0s, R=3) errorbox 17 sec after notice time and 282 sec after trigger time at 2020-01-16 05:04:27 UT, with upper limit up to 18.0 mag. The observations began at zenith distance = 56 deg. The sun altitude is -37.7 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the Baksan Neutrino Observatory Alert 200116.21 errorbox 53 sec after notice time and 318 sec after trigger time at 2020-01-16 05:05:03 UT, with upper limit up to 16.7 mag. The observations began at zenith distance = 85 deg. The sun altitude is -37.1 deg. The galactic latitude b = 8 deg., longitude l = 306 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1261945 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 313 | 2020-01-16 05:04:27 | MASTER-OAFA | (13h 06m 21.40s , -53d 45m 55.6s) | C | 60 | 17.8 | 348 | 2020-01-16 05:05:03 | MASTER-IAC | (13h 08m 17.77s , -54d 27m 55.8s) | P| | 60 | 12.7 | 409 | 2020-01-16 05:05:59 | MASTER-OAFA | (13h 06m 21.28s , -53d 45m 12.1s) | C | 70 | 17.8 | 477 | 2020-01-16 05:07:02 | MASTER-IAC | (13h 07m 35.10s , -54d 26m 56.3s) | P- | 80 | 16.5 | 477 | 2020-01-16 05:07:02 | MASTER-IAC | (13h 08m 25.92s , -54d 30m 03.2s) | P| | 80 | 16.6 | 521 | 2020-01-16 05:07:40 | MASTER-OAFA | (13h 06m 21.19s , -53d 46m 46.6s) | C | 90 | 17.9 | 632 | 2020-01-16 05:09:21 | MASTER-IAC | (13h 07m 29.53s , -54d 28m 05.0s) | P- | 110 | 16.7 | 632 | 2020-01-16 05:09:21 | MASTER-IAC | (13h 08m 20.22s , -54d 31m 12.7s) | P| | 110 | 16.7 | 658 | 2020-01-16 05:09:42 | MASTER-OAFA | (13h 06m 24.06s , -53d 44m 52.2s) | C | 120 | 18.0 | 817 | 2020-01-16 05:12:11 | MASTER-IAC | (13h 08m 27.54s , -54d 31m 09.0s) | P| | 140 | 16.7 | 817 | 2020-01-16 05:12:11 | MASTER-IAC | (13h 07m 37.05s , -54d 28m 02.1s) | P- | 140 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200115.49: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26770, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) was pointed to the Swift GRB200115.49 (trigger No 949361,03h 45m 48.96s , +05d 36m 46.8s, R=0.05) errorbox 352 sec after notice time and 432 sec after trigger time at 2020-01-15 11:57:35 UT, with upper limit up to 17.0 mag. The observations began at zenith distance = 45 deg. The sun altitude is -38.0 deg. The galactic latitude b = -36 deg., longitude l = 182 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1261497 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 462 | MASTER-Amur | P/ | 60 | 16.7 | 542 | MASTER-Amur | P/ | 60 | 17.0 | 621 | MASTER-Amur | P/ | 60 | 17.0 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200115j: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26755, p. 1
MASTER-IAC robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Spain (IAC Teide Observatory) started inspect of the LIGO/Virgo S200115j errorbox 438 sec after trigger time at 2020-01-15 04:30:27 UT, with upper limit up to 14.6 mag. The observations began at zenith distance = 44 deg. The sun altitude is -44.7 deg. The galactic latitude b = -31 deg., longitude l = 347 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11234 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 484 | 2020-01-15 04:30:27 | MASTER-IAC | (09h 55m 13.34s , +71d 23m 02.5s) | P| | 90 | 14.6 | 484 | 2020-01-15 04:30:27 | MASTER-IAC | (09h 53m 18.93s , +71d 25m 54.8s) | P- | 90 | 14.5 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 600666048: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26737, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB200114.15 (trigger No 600666048,13h 17m 31.20s , -00d 19m 12.0s, R=2.58) errorbox 29 sec after notice time and 65 sec after trigger time at 2020-01-14 03:41:49 UT, with upper limit up to 18.0 mag. Observations started at twilight. The observations began at zenith distance = 44 deg. The sun altitude is -10.6 deg. The galactic latitude b = 61 deg., longitude l = 318 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1259379 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 71 | 2020-01-14 03:41:49 | MASTER-Kislovodsk | (13h 27m 34.37s , -00d 23m 13.3s) | C | 10 | 16.3 | 71 | 2020-01-14 03:41:49 | MASTER-Kislovodsk | (13h 19m 21.30s , +00d 03m 13.2s) | C | 10 | 16.8 | 91 | 2020-01-14 03:41:49 | MASTER-Kislovodsk | (13h 19m 21.31s , +00d 03m 13.2s) | C | 50 | 17.8 | Coadd 106 | 2020-01-14 03:42:19 | MASTER-Kislovodsk | (13h 27m 34.37s , -00d 23m 52.6s) | C | 20 | 17.0 | 141 | 2020-01-14 03:42:19 | MASTER-Kislovodsk | (13h 27m 34.36s , -00d 23m 52.6s) | C | 90 | 17.9 | Coadd 106 | 2020-01-14 03:42:19 | MASTER-Kislovodsk | (13h 19m 21.37s , +00d 02m 34.8s) | C | 20 | 17.1 | 147 | 2020-01-14 03:43:00 | MASTER-Kislovodsk | (13h 27m 36.54s , -00d 22m 46.4s) | C | 20 | 16.9 | 147 | 2020-01-14 03:43:00 | MASTER-Kislovodsk | (13h 19m 23.55s , +00d 03m 40.2s) | C | 20 | 17.0 | 193 | 2020-01-14 03:43:41 | MASTER-Kislovodsk | (13h 19m 18.58s , +00d 03m 01.4s) | C | 30 | 17.3 | 238 | 2020-01-14 03:43:41 | MASTER-Kislovodsk | (13h 19m 18.59s , +00d 03m 01.3s) | C | 120 | 18.0 | Coadd 248 | 2020-01-14 03:44:31 | MASTER-Kislovodsk | (13h 19m 18.59s , +00d 03m 58.5s) | C | 40 | 17.2 | 314 | 2020-01-14 03:45:32 | MASTER-Kislovodsk | (13h 27m 37.72s , -00d 23m 29.1s) | C | 50 | 17.3 | 314 | 2020-01-14 03:45:32 | MASTER-Kislovodsk | (13h 19m 24.75s , +00d 02m 55.4s) | C | 50 | 17.3 | 394 | 2020-01-14 03:46:42 | MASTER-Kislovodsk | (13h 27m 31.71s , -00d 24m 32.1s) | C | 70 | 16.7 | 394 | 2020-01-14 03:46:42 | MASTER-Kislovodsk | (13h 19m 18.74s , +00d 01m 52.2s) | C | 70 | 16.8 | 641 | 2020-01-14 03:50:24 | MASTER-Kislovodsk | (13h 21m 56.93s , -00d 16m 54.2s) | C | 120 | 16.1 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200114f: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26731, p. 1
MASTER-OAFA robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Argentina (OAFA observatory of San Juan National University) started inspect of the LIGO/Virgo S200114f errorbox 380 sec after trigger time at 2020-01-14 02:14:38 UT, with upper limit up to 18.2 mag. The observations began at zenith distance = 58 deg. The sun altitude is -26.5 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the LIGO/Virgo S200114f errorbox 381 sec after trigger time at 2020-01-14 02:14:39 UT, with upper limit up to 17.5 mag. The observations began at zenith distance = 69 deg. The sun altitude is -26.1 deg. The galactic latitude b = -60 deg., longitude l = 98 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11224 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 421 | 2020-01-14 02:14:38 | MASTER-OAFA | (07h 21m 28.46s , +17d 44m 04.5s) | C | 80 | 18.3 | 421 | 2020-01-14 02:14:39 | MASTER-Kislovodsk | (07h 28m 48.40s , +16d 54m 16.5s) | C | 80 | 17.4 | 421 | 2020-01-14 02:14:39 | MASTER-Kislovodsk | (07h 20m 31.03s , +17d 20m 26.8s) | C | 80 | 17.3 | 527 | 2020-01-14 02:16:19 | MASTER-Kislovodsk | (07h 28m 45.30s , +16d 53m 07.0s) | C | 90 | 17.5 | 527 | 2020-01-14 02:16:19 | MASTER-Kislovodsk | (07h 20m 28.19s , +17d 19m 14.5s) | C | 90 | 17.4 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200112r: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26717, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the LIGO/Virgo S200112r errorbox 223 sec after trigger time at 2020-01-12 16:02:21 UT, with upper limit up to 17.6 mag. The observations began at zenith distance = 76 deg. The sun altitude is -61.3 deg. The galactic latitude b = -14 deg., longitude l = 35 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11211 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 243 | 2020-01-12 16:02:21 | MASTER-Amur | (15h 49m 38.40s , +39d 01m 12.7s) | C | 40 | 16.0 | 308 | 2020-01-12 16:03:20 | MASTER-Amur | (15h 49m 38.58s , +39d 01m 51.2s) | C | 50 | 16.1 | 382 | 2020-01-12 16:04:30 | MASTER-Amur | (15h 49m 38.51s , +39d 00m 17.2s) | C | 60 | 16.2 | 462 | 2020-01-12 16:05:49 | MASTER-Amur | (15h 49m 41.99s , +39d 01m 46.9s) | C | 60 | 15.6 | 1818 | 2020-01-12 16:27:26 | MASTER-Amur | (17h 13m 19.61s , +51d 59m 49.8s) | C | 180 | 16.9 | 2031 | 2020-01-12 16:30:58 | MASTER-Amur | (15h 51m 14.18s , +44d 01m 04.0s) | C | 180 | 16.9 | 2245 | 2020-01-12 16:34:33 | MASTER-Amur | (16h 13m 40.13s , +54d 00m 14.5s) | C | 180 | 17.5 | 2460 | 2020-01-12 16:38:08 | MASTER-Amur | (17h 13m 24.34s , +52d 00m 30.0s) | C | 180 | 17.0 | 2673 | 2020-01-12 16:41:41 | MASTER-Amur | (17h 26m 22.02s , +51d 58m 50.4s) | C | 180 | 16.8 | 2889 | 2020-01-12 16:45:17 | MASTER-Amur | (15h 51m 15.54s , +44d 02m 13.6s) | C | 180 | 17.0 | 3101 | 2020-01-12 16:48:48 | MASTER-Amur | (16h 02m 16.42s , +44d 01m 10.6s) | C | 180 | 17.0 | 3313 | 2020-01-12 16:52:20 | MASTER-Amur | (16h 13m 35.41s , +54d 02m 05.0s) | C | 180 | 17.5 | 3525 | 2020-01-12 16:55:53 | MASTER-Amur | (16h 27m 16.53s , +54d 00m 56.3s) | C | 180 | 17.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 600525396: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26712, p. 1
MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the Fermi GRB200112.53 (trigger No 600525396,10h 00m 31.20s , +64d 24m 36.0s, R=2) errorbox 44 sec after notice time and 80 sec after trigger time at 2020-01-12 12:37:51 UT, with upper limit up to 16.5 mag. The observations began at zenith distance = 43 deg. The sun altitude is -44.7 deg. The galactic latitude b = 44 deg., longitude l = 147 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1257928 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 90 | 2020-01-12 12:37:51 | MASTER-Amur | (10h 05m 10.02s , +65d 13m 49.8s) | P/ | 20 | 15.9 | 130 | 2020-01-12 12:38:31 | MASTER-Amur | (10h 05m 10.09s , +65d 12m 53.1s) | P/ | 20 | 15.7 | 174 | 2020-01-12 12:39:10 | MASTER-Amur | (10h 05m 13.47s , +65d 14m 44.5s) | P/ | 30 | 16.4 | 229 | 2020-01-12 12:40:00 | MASTER-Amur | (10h 05m 07.32s , +65d 13m 51.6s) | P/ | 40 | 16.5 | 294 | 2020-01-12 12:41:00 | MASTER-Amur | (10h 05m 06.27s , +65d 14m 52.7s) | P/ | 50 | 16.5 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 600448273: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26706, p. 1
MASTER-Tunka robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB200111.63 (trigger No 600448273,06h 57m 57.60s , +31d 43m 12.0s, R=3.47) errorbox 63 sec after notice time and 98 sec after trigger time at 2020-01-11 15:12:46 UT, with upper limit up to 15.5 mag. The observations began at zenith distance = 25 deg. The sun altitude is -52.5 deg. MASTER-Amur robotic telescope located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the Fermi GRB200111.63 errorbox 77 sec after notice time and 113 sec after trigger time at 2020-01-11 15:13:01 UT, with upper limit up to 16.6 mag. The observations began at zenith distance = 19 deg. The sun altitude is -61.4 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the Fermi GRB200111.63 errorbox 546 sec after notice time and 581 sec after trigger time at 2020-01-11 15:20:49 UT, with upper limit up to 13.5 mag. Observations started at twilight. The observations began at zenith distance = 69 deg. The sun altitude is -9.9 deg. The galactic latitude b = 16 deg., longitude l = 185 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1257171 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 109 | 2020-01-11 15:12:46 | MASTER-Tunka | (06h 52m 26.41s , +31d 40m 09.4s) | P| | 20 | 14.8 | 124 | 2020-01-11 15:13:01 | MASTER-Amur | (06h 47m 20.88s , +31d 41m 48.8s) | C | 20 | 15.9 | 148 | 2020-01-11 15:13:26 | MASTER-Tunka | (06h 52m 24.19s , +31d 40m 10.6s) | P| | 20 | 15.1 | 168 | 2020-01-11 15:13:41 | MASTER-Amur | (06h 47m 22.89s , +31d 41m 42.8s) | C | 30 | 16.3 | 193 | 2020-01-11 15:14:06 | MASTER-Tunka | (06h 52m 24.13s , +31d 41m 11.8s) | P| | 30 | 15.4 | 223 | 2020-01-11 15:14:31 | MASTER-Amur | (06h 47m 16.93s , +31d 40m 39.7s) | C | 40 | 16.4 | 248 | 2020-01-11 15:14:55 | MASTER-Tunka | (06h 52m 28.46s , +31d 40m 12.9s) | P| | 40 | 15.4 | 287 | 2020-01-11 15:15:30 | MASTER-Amur | (06h 47m 23.88s , +31d 40m 56.5s) | C | 50 | 16.5 | 313 | 2020-01-11 15:15:55 | MASTER-Tunka | (06h 52m 23.34s , +31d 39m 14.5s) | P| | 50 | 15.5 | 362 | 2020-01-11 15:16:40 | MASTER-Amur | (06h 47m 20.85s , +31d 42m 14.2s) | C | 60 | 14.3 | 392 | 2020-01-11 15:17:05 | MASTER-Tunka | (06h 52m 30.09s , +31d 39m 34.1s) | P| | 70 | 15.4 | 612 | 2020-01-11 15:20:49 | MASTER-Amur | (06h 52m 01.78s , +31d 40m 54.4s) | C | 60 | 16.3 | 642 | 2020-01-11 15:20:49 | MASTER-Tavrida | (07h 00m 40.56s , +31d 38m 28.3s) | C | 120 | 13.1 | 691 | 2020-01-11 15:22:09 | MASTER-Amur | (06h 51m 58.71s , +31d 40m 47.3s) | C | 60 | 16.6 | 792 | 2020-01-11 15:23:10 | MASTER-Tavrida | (07h 00m 37.09s , +31d 37m 27.6s) | C | 140 | 13.5 | 771 | 2020-01-11 15:23:29 | MASTER-Amur | (06h 51m 57.64s , +31d 41m 43.2s) | C | 60 | 16.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200109.99: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26695, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the IceCube Alert 200109.99 (trigger No 37927131,11h 01m 03.84s , +14d 55m 44.4s, R=1.94) errorbox 22 sec after notice time and 75 sec after trigger time at 2020-01-09 23:42:55 UT, with upper limit up to 16.1 mag. The observations began at zenith distance = 36 deg. The sun altitude is -58.1 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the IceCube Alert 200109.99 errorbox 53 sec after notice time and 105 sec after trigger time at 2020-01-09 23:43:25 UT, with upper limit up to 17.0 mag. The observations began at zenith distance = 71 deg. The sun altitude is -69.6 deg. The galactic latitude b = 62 deg., longitude l = 234 deg. Real time updated cover map and OT discovered available here:

https://master.sai.msu.ru/site/master2/observ.php?id=1255748 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 165 | 2020-01-09 23:42:55 | MASTER-Tavrida | (10h 56m 21.38s , +15d 06m 07.1s) | R | 180 | 16.1 | 116 | 2020-01-09 23:43:25 | MASTER-IAC | (10h 59m 44.66s , +14d 59m 44.6s) | P- | 20 | 13.7 | 116 | 2020-01-09 23:43:25 | MASTER-IAC | (10h 59m 05.97s , +15d 03m 29.4s) | P| | 20 | 16.4 | 204 | 2020-01-09 23:44:48 | MASTER-IAC | (10h 59m 41.41s , +15d 00m 39.1s) | P- | 30 | 14.6 | 204 | 2020-01-09 23:44:48 | MASTER-IAC | (10h 59m 02.65s , +15d 04m 23.9s) | P| | 30 | 16.6 | 301 | 2020-01-09 23:46:15 | MASTER-IAC | (10h 59m 08.75s , +15d 03m 20.4s) | P| | 50 | 17.0 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200109.99: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26694, p. 1
MASTER-Tavrida robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the IceCube Alert 200109.99 (11h 01m 03.91s , +14d 55m 43.7s, R=1.9429) errorbox 20 sec after notice time and 75 sec after trigger time at 2020-01-09 23:42:55 UT, with upper limit up to 16.1 mag. The observations began at zenith distance = 36 deg. The sun altitude is -58.1 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the IceCube Alert 200109.99 errorbox 50 sec after notice time and 105 sec after trigger time at 2020-01-09 23:43:25 UT, with upper limit up to 17.0 mag. The observations began at zenith distance = 71 deg. The sun altitude is -69.6 deg. The galactic latitude b = 62 deg., longitude l = 234 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1255752 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 165 | 2020-01-09 23:42:55 | MASTER-Tavrida | (10h 56m 21.38s , +15d 06m 07.1s) | R | 180 | 16.1 | 116 | 2020-01-09 23:43:25 | MASTER-IAC | (10h 59m 44.66s , +14d 59m 44.6s) | P- | 20 | 13.7 | 116 | 2020-01-09 23:43:25 | MASTER-IAC | (10h 59m 05.97s , +15d 03m 29.4s) | P| | 20 | 16.4 | 204 | 2020-01-09 23:44:48 | MASTER-IAC | (10h 59m 41.41s , +15d 00m 39.1s) | P- | 30 | 14.6 | 204 | 2020-01-09 23:44:48 | MASTER-IAC | (10h 59m 02.65s , +15d 04m 23.9s) | P| | 30 | 16.6 | 301 | 2020-01-09 23:46:15 | MASTER-IAC | (10h 59m 08.75s , +15d 03m 20.4s) | P| | 50 | 17.0 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Gress, O., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Vladimirov, V., Vlasenko, D., et al. Fermi-LAT ANTARES coincidence /ANTARES alert 200108.39: MASTER alert and inspect observation // GRB Coordinates Network, 2020, V. 26684, p. 1
MASTER Global Robotic Net (http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy,v. 2010, 30L) started alert observations of ANTARES alert 200108.39 (FermiLAT ANTARES GCN 26674) 21 sec after notice time (31 sec after trigger time) at 2020-01-08 09:25:43 UT. We also have images 9h,11h and 14h befor ANTARES alerts (MASTER LVC inspect survey). and MASTER observed this error-box at MASTER-Amur,-Kislovodsk,-IAC,-SAAO during 2020-01-08 15:41:24-23:36:23UT https://master.sai.msu.ru/site/master2/event.php?id=1254160 Optical observations and analysis proceed. MASTER-Amur robotic telescope, located in Russia (Blagoveshchensk State Pedagogical University) started alert observations of ANTARES Alert200108.39 21 sec after notice time (31 sec after trigger time) at 2020-01-08 09:25:43 UT. We started 180s exposure set. The galactic latitude b = -60 deg., longitude l = 202 deg. The observations made on zenith distance = 72 deg. The moon (93 % bright part) is 35 deg. above the horizont. The distance between moon and object is 50deg. The sun altitude was -15.5 deg. (twilight) MASTER-Kislovodsk started inspect of ANTARES Alert200108.39 at 2020-01-08 15:41:24UT. Error-box_center_Altitude was 26deg, Sun_altitude was -20deg. MASTER-SAAO started inspect of ANTARES Alert200108.39 at 2020-01-08 20:35:58UT Error-box_center_Altitude was 56deg, Sun_altitude was -27deg. MASTER-IAC started inspect of ANTARES Alert200108.39 at 2020-01-08 22:20:00UT Error-box_center_Altitude was 38deg, Sun_altitude was -51deg.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 600227156: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26680, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB200109.07 (trigger No 600227156,20h 06m 04.08s , +55d 12m 00.0s, R=23.3) errorbox 44 sec after notice time and 94 sec after trigger time at 2020-01-09 01:47:26 UT, with upper limit up to 18.1 mag. The observations began at zenith distance = 75 deg. The sun altitude is -31.2 deg. The galactic latitude b = 12 deg., longitude l = 90 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1254865 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 100 | 2020-01-09 01:47:26 | MASTER-Kislovodsk | (20h 28m 40.37s , +53d 02m 45.1s) | P- | 10 | 16.3 | 100 | 2020-01-09 01:47:26 | MASTER-Kislovodsk | (20h 28m 33.68s , +52d 35m 07.9s) | P| | 10 | 16.1 | 130 | 2020-01-09 01:47:52 | MASTER-Kislovodsk | (20h 28m 36.13s , +53d 03m 42.7s) | P- | 20 | 16.7 | 130 | 2020-01-09 01:47:52 | MASTER-Kislovodsk | (20h 28m 29.41s , +52d 36m 02.8s) | P| | 20 | 16.6 | 157 | 2020-01-09 01:48:18 | MASTER-Kislovodsk | (20h 28m 42.27s , +53d 02m 39.7s) | P- | 20 | 16.6 | 157 | 2020-01-09 01:48:18 | MASTER-Kislovodsk | (20h 28m 35.52s , +52d 34m 58.4s) | P| | 20 | 16.6 | 188 | 2020-01-09 01:48:45 | MASTER-Kislovodsk | (20h 28m 29.44s , +52d 33m 55.9s) | P| | 30 | 16.8 | 233 | 2020-01-09 01:48:45 | MASTER-Kislovodsk | (20h 28m 29.44s , +52d 33m 55.9s) | P| | 120 | 17.4 | Coadd 230 | 2020-01-09 01:49:21 | MASTER-Kislovodsk | (20h 28m 36.68s , +52d 34m 17.6s) | P| | 40 | 16.8 | 281 | 2020-01-09 01:50:08 | MASTER-Kislovodsk | (20h 28m 40.72s , +53d 03m 21.7s) | P- | 50 | 17.1 | 346 | 2020-01-09 01:50:08 | MASTER-Kislovodsk | (20h 28m 40.72s , +53d 03m 21.6s) | P- | 180 | 17.9 | Coadd 281 | 2020-01-09 01:50:08 | MASTER-Kislovodsk | (20h 28m 33.91s , +52d 35m 37.3s) | P| | 50 | 16.9 | 343 | 2020-01-09 01:51:04 | MASTER-Kislovodsk | (20h 28m 40.83s , +53d 01m 46.9s) | P- | 60 | 17.2 | 343 | 2020-01-09 01:51:04 | MASTER-Kislovodsk | (20h 28m 33.95s , +52d 34m 01.7s) | P| | 60 | 17.0 | 423 | 2020-01-09 01:51:04 | MASTER-Kislovodsk | (20h 28m 33.96s , +52d 34m 01.8s) | P| | 220 | 17.7 | Coadd 414 | 2020-01-09 01:52:11 | MASTER-Kislovodsk | (20h 28m 42.78s , +53d 03m 04.8s) | P- | 70 | 17.4 | 414 | 2020-01-09 01:52:11 | MASTER-Kislovodsk | (20h 28m 35.87s , +52d 35m 18.6s) | P| | 70 | 17.1 | 501 | 2020-01-09 01:53:28 | MASTER-Kislovodsk | (20h 28m 36.79s , +53d 02m 30.7s) | P- | 90 | 17.4 | 621 | 2020-01-09 01:53:28 | MASTER-Kislovodsk | (20h 28m 36.79s , +53d 02m 30.7s) | P- | 330 | 18.1 | Coadd 501 | 2020-01-09 01:53:28 | MASTER-Kislovodsk | (20h 28m 29.86s , +52d 34m 43.4s) | P| | 90 | 17.4 | 608 | 2020-01-09 01:55:04 | MASTER-Kislovodsk | (20h 28m 38.08s , +53d 03m 32.0s) | P- | 110 | 17.5 | 608 | 2020-01-09 01:55:04 | MASTER-Kislovodsk | (20h 28m 31.17s , +52d 35m 44.1s) | P| | 110 | 17.3 | 734 | 2020-01-09 01:57:01 | MASTER-Kislovodsk | (20h 28m 44.22s , +53d 02m 33.2s) | P- | 130 | 17.6 | 735 | 2020-01-09 01:57:01 | MASTER-Kislovodsk | (20h 28m 37.43s , +52d 34m 43.6s) | P| | 130 | 17.4 | 886 | 2020-01-09 01:59:18 | MASTER-Kislovodsk | (20h 28m 38.28s , +53d 01m 36.2s) | P- | 160 | 17.7 | 886 | 2020-01-09 01:59:18 | MASTER-Kislovodsk | (20h 28m 31.62s , +52d 33m 44.1s) | P| | 160 | 17.6 | 1063 | 2020-01-09 02:02:05 | MASTER-Kislovodsk | (20h 28m 44.10s , +53d 01m 46.6s) | P- | 180 | 17.6 | 1063 | 2020-01-09 02:02:05 | MASTER-Kislovodsk | (20h 28m 36.56s , +52d 34m 00.6s) | P| | 180 | 17.6 | 1264 | 2020-01-09 02:05:26 | MASTER-Kislovodsk | (20h 28m 42.77s , +53d 03m 35.4s) | P- | 180 | 17.6 | 1264 | 2020-01-09 02:05:26 | MASTER-Kislovodsk | (20h 28m 35.12s , +52d 35m 48.2s) | P| | 180 | 17.8 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200109.07: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26679, p. 1
MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) was pointed to the Swift GRB200109.07 (trigger No 948361,20h 28m 41.04s , +53d 00m 10.8s, R=0.05) errorbox 12 sec after notice time and 70 sec after trigger time at 2020-01-09 01:47:26 UT, with upper limit up to 17.9 mag. The observations began at zenith distance = 75 deg. The sun altitude is -31.2 deg. The galactic latitude b = 8 deg., longitude l = 90 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1254883 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 75 | MASTER-Kislovodsk | P- | 10 | 16.3 | 75 | MASTER-Kislovodsk | P| | 10 | 16.1 | 106 | MASTER-Kislovodsk | P- | 20 | 16.7 | 106 | MASTER-Kislovodsk | P| | 20 | 16.6 | 133 | MASTER-Kislovodsk | P- | 20 | 16.6 | 133 | MASTER-Kislovodsk | P| | 20 | 16.6 | 164 | MASTER-Kislovodsk | P| | 30 | 16.8 | 209 | MASTER-Kislovodsk | P| | 120 | 17.4 | Coadd 205 | MASTER-Kislovodsk | P| | 40 | 16.8 | 257 | MASTER-Kislovodsk | P- | 50 | 17.1 | 322 | MASTER-Kislovodsk | P- | 180 | 17.9 | Coadd 257 | MASTER-Kislovodsk | P| | 50 | 16.9 | 318 | MASTER-Kislovodsk | P- | 60 | 17.2 | 318 | MASTER-Kislovodsk | P| | 60 | 17.0 | 398 | MASTER-Kislovodsk | P| | 220 | 17.7 | Coadd 390 | MASTER-Kislovodsk | P- | 70 | 17.4 | 390 | MASTER-Kislovodsk | P| | 70 | 17.1 | 477 | MASTER-Kislovodsk | P- | 90 | 17.4 | 477 | MASTER-Kislovodsk | P| | 90 | 17.4 | 584 | MASTER-Kislovodsk | P- | 110 | 17.5 | 584 | MASTER-Kislovodsk | P| | 110 | 17.3 | 710 | MASTER-Kislovodsk | P- | 130 | 17.6 | 710 | MASTER-Kislovodsk | P| | 130 | 17.4 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB 200107B: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26672, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB 200107B (M. G. Bernardini et al., GCN 26661) errorbox 891 sec after notice time and 29 sec after trigger time at 2020-01-07 19:42:11 UT, with upper limit up to 18.7 mag. The observations began at zenith distance = 54 deg. The sun altitude is -20.2 deg. The galactic latitude b = -27 deg., longitude l = 296 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1253675 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 119 | MASTER-SAAO | P\ | 180 | 17.1 | 415 | MASTER-SAAO | P\ | 180 | 17.4 | 616 | MASTER-SAAO | P\ | 180 | 17.4 | 818 | MASTER-SAAO | P\ | 180 | 16.6 | 1231 | MASTER-SAAO | C | 180 | 18.3 | 1348 | MASTER-SAAO | P\ | 180 | 17.4 | 1550 | MASTER-SAAO | P\ | 180 | 17.4 | 1751 | MASTER-SAAO | P\ | 180 | 17.5 | 1953 | MASTER-SAAO | P\ | 180 | 17.3 | 2161 | MASTER-SAAO | C | 180 | 18.6 | 2371 | MASTER-SAAO | C | 180 | 18.5 | 2582 | MASTER-SAAO | C | 180 | 18.5 | 2792 | MASTER-SAAO | C | 180 | 18.5 | 3001 | MASTER-SAAO | C | 180 | 18.6 | 3211 | MASTER-SAAO | C | 180 | 18.6 | 3421 | MASTER-SAAO | C | 180 | 18.7 | 3632 | MASTER-SAAO | C | 180 | 18.5 | 3843 | MASTER-SAAO | C | 180 | 18.7 | 4052 | MASTER-SAAO | C | 180 | 18.6 | 4261 | MASTER-SAAO | C | 180 | 18.6 | 4480 | MASTER-SAAO | C | 180 | 18.7 | 5034 | MASTER-SAAO | C | 180 | 17.6 | 5247 | MASTER-SAAO | C | 180 | 18.6 | 5459 | MASTER-SAAO | C | 180 | 18.6 | 5671 | MASTER-SAAO | C | 180 | 18.6 | 5884 | MASTER-SAAO | C | 180 | 18.6 | 6098 | MASTER-SAAO | C | 180 | 18.5 | 6310 | MASTER-SAAO | C | 180 | 18.6 | 6523 | MASTER-SAAO | C | 180 | 18.5 | 6735 | MASTER-SAAO | C | 180 | 18.5 | 6948 | MASTER-SAAO | C | 180 | 18.4 | 7160 | MASTER-SAAO | C | 180 | 18.4 | 7373 | MASTER-SAAO | C | 180 | 18.5 | 7585 | MASTER-SAAO | C | 180 | 18.5 | 7799 | MASTER-SAAO | C | 180 | 18.6 | 8010 | MASTER-SAAO | C | 180 | 18.5 | 8224 | MASTER-SAAO | C | 180 | 18.5 | 8471 | MASTER-SAAO | C | 180 | 18.6 | 8684 | MASTER-SAAO | C | 180 | 18.5 | 8896 | MASTER-SAAO | C | 180 | 18.5 | 9109 | MASTER-SAAO | C | 180 | 18.5 | 9321 | MASTER-SAAO | C | 180 | 18.4 | 9538 | MASTER-SAAO | C | 180 | 18.4 | 9752 | MASTER-SAAO | C | 180 | 18.5 | 9963 | MASTER-SAAO | C | 180 | 18.3 | 10176 | MASTER-SAAO | C | 180 | 18.3 | 10389 | MASTER-SAAO | C | 180 | 18.3 | 10601 | MASTER-SAAO | C | 180 | 18.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V. Swift GRB200107.81: Global MASTER-Net OT detection // GRB Coordinates Network, 2020, V. 26660, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB200107.81 (trigger No 948219,07h 08m 15.74s , -83d 42m 56.5s, R=0.05) errorbox 18 sec after notice time and 69 sec after trigger time at 2020-01-07 19:27:38 UT, with upper limit up to 17.7 mag. The observations began at zenith distance = 54 deg. The sun altitude is -18.0 deg. We detect a new optical transient at a position Ra=07h 07m 37.58s Dec= -83° 43' 07.0" Mag=17.2

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Swift GRB200107.81: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26658, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) was pointed to the Swift GRB200107.81 (trigger No 948219,07h 08m 15.74s , -83d 42m 56.5s, R=0.05) errorbox 18 sec after notice time and 69 sec after trigger time at 2020-01-07 19:27:38 UT, with upper limit up to 17.7 mag. The observations began at zenith distance = 54 deg. The sun altitude is -18.0 deg. The galactic latitude b = -27 deg., longitude l = 296 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1253647 We obtain a following upper limits. Tmid-T0 | Site |Filt.| Expt. | Limit| Comment _____|_____|_____|_____ 75 | MASTER-SAAO | P\ | 10 | 16.5 | 98 | MASTER-SAAO | P\ | 20 | 16.9 | 126 | MASTER-SAAO | P\ | 20 | 16.9 | 159 | MASTER-SAAO | P\ | 30 | 17.0 | 203 | MASTER-SAAO | P\ | 40 | 17.3 | 256 | MASTER-SAAO | P\ | 50 | 17.3 | 319 | MASTER-SAAO | P\ | 60 | 17.5 | 393 | MASTER-SAAO | P\ | 70 | 17.7 | The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. LIGO/Virgo S200105ae: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26646, p. 1
MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the LIGO/Virgo S200105ae errorbox 11666 sec after trigger time at 2020-01-05 19:38:52 UT, with upper limit up to 17.8 mag. The observations began at zenith distance = 23 deg. The sun altitude is -19.7 deg. MASTER-Amur robotic telescope located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the LIGO/Virgo S200105ae errorbox 11794 sec after trigger time at 2020-01-05 19:41:00 UT, with upper limit up to 17.9 mag. The observations began at zenith distance = 47 deg. The sun altitude is -35.5 deg. MASTER-Tunka robotic telescope located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the LIGO/Virgo S200105ae errorbox 14648 sec after trigger time at 2020-01-05 20:28:34 UT, with upper limit up to 19.8 mag. The observations began at zenith distance = 22 deg. The sun altitude is -42.8 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the LIGO/Virgo S200105ae errorbox 16923 sec after trigger time at 2020-01-05 21:06:29 UT, with upper limit up to 19.6 mag. The observations began at zenith distance = 63 deg. The sun altitude is -35.7 deg. MASTER-Kislovodsk robotic telescope located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the LIGO/Virgo S200105ae errorbox 30457 sec after trigger time at 2020-01-06 00:52:03 UT, with upper limit up to 20.4 mag. The observations began at zenith distance = 23 deg. The sun altitude is -41.3 deg. The galactic latitude b = -61 deg., longitude l = 198 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/ligo_1.php?id=11173 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 11697 | 2020-01-05 19:38:52 | MASTER-SAAO | (04h 16m 28.94s , -54d 51m 36.7s) | C | 60 | 15.2 | 11789 | 2020-01-05 19:40:24 | MASTER-SAAO | (04h 16m 32.72s , -54d 50m 13.2s) | V | 60 | 12.4 | 11884 | 2020-01-05 19:41:00 | MASTER-Amur | (15h 51m 55.39s , +44d 05m 47.6s) | C | 180 | 17.3 | 12310 | 2020-01-05 19:48:05 | MASTER-Amur | (17h 14m 13.40s , +52d 03m 35.9s) | C | 180 | 17.3 | 12521 | 2020-01-05 19:51:37 | MASTER-Amur | (18h 07m 23.59s , +64d 01m 38.3s) | C | 180 | 17.9 | 12686 | 2020-01-05 19:55:22 | MASTER-SAAO | (04h 16m 33.81s , -54d 51m 02.2s) | C | 60 | 15.5 | 12778 | 2020-01-05 19:56:54 | MASTER-SAAO | (04h 16m 26.77s , -54d 52m 08.5s) | V | 60 | 16.0 | 13449 | 2020-01-05 20:08:04 | MASTER-Amur | (13h 28m 54.89s , +58d 07m 56.7s) | C | 60 | 17.1 | 13540 | 2020-01-05 20:09:35 | MASTER-Amur | (13h 28m 57.72s , +58d 09m 28.2s) | C | 60 | 17.1 | 13630 | 2020-01-05 20:11:05 | MASTER-Amur | (13h 43m 58.97s , +58d 08m 24.5s) | C | 60 | 16.9 | 13722 | 2020-01-05 20:12:37 | MASTER-Amur | (13h 28m 51.80s , +58d 09m 31.2s) | C | 60 | 17.2 | 13812 | 2020-01-05 20:14:08 | MASTER-Amur | (13h 44m 03.79s , +58d 08m 25.1s) | C | 60 | 17.0 | 13902 | 2020-01-05 20:15:38 | MASTER-Amur | (13h 43m 52.78s , +56d 07m 26.3s) | C | 60 | 17.1 | 13993 | 2020-01-05 20:17:08 | MASTER-Amur | (13h 43m 49.86s , +56d 09m 18.5s) | C | 60 | 17.1 | 14087 | 2020-01-05 20:18:42 | MASTER-Amur | (13h 58m 09.81s , +56d 07m 31.6s) | C | 60 | 17.1 | 14178 | 2020-01-05 20:20:14 | MASTER-Amur | (13h 43m 52.63s , +56d 09m 02.4s) | C | 60 | 17.1 | 14269 | 2020-01-05 20:21:45 | MASTER-Amur | (13h 58m 05.71s , +56d 08m 21.0s) | C | 60 | 16.9 | 14423 | 2020-01-05 20:23:18 | MASTER-Amur | (15h 51m 51.84s , +44d 06m 58.5s) | C | 180 | 17.1 | 14635 | 2020-01-05 20:26:50 | MASTER-Amur | (16h 03m 03.85s , +44d 05m 49.7s) | C | 180 | 16.9 | 14739 | 2020-01-05 20:28:34 | MASTER-Tunka | (12h 46m 42.62s , +52d 27m 31.5s) | C | 180 | 19.6 | 14847 | 2020-01-05 20:30:23 | MASTER-Amur | (17h 14m 09.17s , +52d 03m 19.8s) | C | 180 | 16.7 | 15057 | 2020-01-05 20:33:53 | MASTER-Amur | (17h 27m 14.97s , +52d 03m 16.5s) | C | 180 | 16.9 | 15269 | 2020-01-05 20:37:24 | MASTER-Amur | (18h 07m 24.08s , +64d 03m 53.8s) | C | 180 | 17.4 | 15366 | 2020-01-05 20:39:02 | MASTER-Tunka | (13h 39m 03.58s , +52d 25m 36.4s) | C | 180 | 19.4 | 15602 | 2020-01-05 20:42:58 | MASTER-Tunka | (14h 18m 37.33s , +51d 55m 18.4s) | C | 180 | 19.4 | 15807 | 2020-01-05 20:46:22 | MASTER-Tunka | (14h 18m 42.53s , +51d 54m 24.0s) | C | 180 | 19.4 | 16063 | 2020-01-05 20:51:39 | MASTER-Amur | (15h 45m 22.45s , +12d 07m 25.3s) | C | 60 | 15.6 | 16158 | 2020-01-05 20:53:14 | MASTER-Amur | (13h 28m 49.41s , +58d 07m 22.7s) | C | 60 | 16.8 | 16249 | 2020-01-05 20:54:44 | MASTER-Amur | (13h 28m 56.20s , +58d 07m 38.1s) | C | 60 | 17.0 | 16340 | 2020-01-05 20:56:16 | MASTER-Amur | (13h 28m 52.14s , +58d 09m 04.6s) | C | 60 | 17.0 | 16431 | 2020-01-05 20:57:47 | MASTER-Amur | (13h 43m 59.48s , +58d 07m 41.8s) | C | 60 | 16.8 | 16522 | 2020-01-05 20:59:18 | MASTER-Amur | (13h 44m 02.27s , +58d 08m 58.1s) | C | 60 | 16.9 | 16613 | 2020-01-05 21:00:48 | MASTER-Amur | (13h 43m 55.98s , +58d 08m 25.1s) | C | 60 | 16.9 | 16709 | 2020-01-05 21:02:25 | MASTER-Amur | (13h 43m 44.31s , +56d 09m 29.4s) | C | 60 | 17.2 | 16799 | 2020-01-05 21:03:54 | MASTER-Amur | (13h 43m 49.95s , +56d 08m 28.3s) | C | 60 | 16.9 | 16889 | 2020-01-05 21:05:25 | MASTER-Amur | (13h 43m 44.05s , +56d 07m 29.2s) | C | 60 | 17.0 | 16953 | 2020-01-05

21:06:29 | MASTER-IAC | (03h 45m 41.44s , -34d 00m 04.4s) | C | 60 | 17.8 | 17013 | 2020-01-05 21:06:29 | MASTER-IAC | (03h 45m 41.44s , -34d 00m 04.4s) | C | 180 | 18.5 | Coadd 16954 | 2020-01-05 21:06:29 | MASTER-IAC | (03h 55m 27.06s , -34d 03m 29.9s) | C | 60 | 18.1 | 17014 | 2020-01-05 21:06:29 | MASTER-IAC | (03h 55m 27.06s , -34d 03m 30.0s) | C | 180 | 18.9 | Coadd 16980 | 2020-01-05 21:06:55 | MASTER-Amur | (13h 58m 11.00s , +56d 07m 54.2s) | C | 60 | 16.9 | 17069 | 2020-01-05 21:08:25 | MASTER-Amur | (13h 58m 06.97s , +56d 09m 22.5s) | C | 60 | 16.9 | 17091 | 2020-01-05 21:08:46 | MASTER-IAC | (03h 55m 30.69s , -34d 02m 11.8s) | C | 60 | 18.1 | 17091 | 2020-01-05 21:08:46 | MASTER-IAC | (03h 45m 45.15s , -33d 58m 44.2s) | C | 60 | 17.8 | 17159 | 2020-01-05 21:09:55 | MASTER-Amur | (13h 58m 06.80s , +56d 07m 48.2s) | C | 60 | 16.9 | 17222 | 2020-01-05 21:10:58 | MASTER-IAC | (03h 45m 39.35s , -33d 59m 36.4s) | C | 60 | 17.8 | 17222 | 2020-01-05 21:10:58 | MASTER-IAC | (03h 55m 25.06s , -34d 03m 05.5s) | C | 60 | 18.1 | 17312 | 2020-01-05 21:11:28 | MASTER-Amur | (16h 03m 06.44s , +44d 07m 21.7s) | C | 180 | 17.0 | 17357 | 2020-01-05 21:13:12 | MASTER-IAC | (04h 14m 43.45s , -34d 01m 33.5s) | C | 60 | 18.3 | 17417 | 2020-01-05 21:13:12 | MASTER-IAC | (04h 14m 43.45s , -34d 01m 33.6s) | C | 180 | 19.0 | Coadd 17357 | 2020-01-05 21:13:13 | MASTER-IAC | (04h 04m 57.99s , -33d 58m 04.3s) | C | 60 | 17.6 | 17417 | 2020-01-05 21:13:13 | MASTER-IAC | (04h 04m 57.99s , -33d 58m 04.3s) | C | 180 | 18.1 | Coadd 17526 | 2020-01-05 21:15:01 | MASTER-Amur | (17h 27m 11.42s , +52d 05m 04.2s) | C | 180 | 16.9 | 17486 | 2020-01-05 21:15:21 | MASTER-IAC | (04h 14m 48.23s , -34d 02m 34.8s) | C | 60 | 18.3 | 17486 | 2020-01-05 21:15:21 | MASTER-IAC | (04h 05m 02.68s , -33d 59m 05.1s) | C | 60 | 17.5 | 17623 | 2020-01-05 21:17:39 | MASTER-IAC | (04h 14m 42.68s , -34d 03m 36.3s) | C | 60 | 18.3 | 17624 | 2020-01-05 21:17:39 | MASTER-IAC | (04h 04m 56.96s , -34d 00m 06.0s) | C | 60 | 17.4 | 17680 | 2020-01-05 21:18:36 | MASTER-Amur | (15h 45m 18.63s , +12d 08m 49.5s) | C | 60 | 15.8 | 17765 | 2020-01-05 21:20:00 | MASTER-IAC | (03h 59m 30.30s , -32d 00m 10.5s) | C | 60 | 17.9 | 17825 | 2020-01-05 21:20:00 | MASTER-IAC | (03h 59m 30.30s , -32d 00m 10.5s) | C | 180 | 18.6 | Coadd 17765 | 2020-01-05 21:20:00 | MASTER-IAC | (04h 09m 03.06s , -32d 03m 42.5s) | C | 60 | 18.3 | 17825 | 2020-01-05 21:20:00 | MASTER-IAC | (04h 09m 03.06s , -32d 03m 42.5s) | C | 180 | 19.1 | Coadd 17774 | 2020-01-05 21:20:10 | MASTER-Amur | (15h 53m 34.61s , +12d 07m 39.0s) | C | 60 | 15.8 | 17895 | 2020-01-05 21:22:11 | MASTER-IAC | (03h 59m 28.17s , -31d 58m 33.7s) | C | 60 | 17.9 | 17895 | 2020-01-05 21:22:11 | MASTER-IAC | (04h 09m 00.75s , -32d 02m 05.7s) | C | 60 | 18.3 | 18028 | 2020-01-05 21:24:23 | MASTER-IAC | (03h 59m 28.08s , -32d 00m 15.1s) | C | 60 | 17.8 | 18028 | 2020-01-05 21:24:23 | MASTER-IAC | (04h 09m 00.92s , -32d 03m 47.3s) | C | 60 | 18.3 | 18082 | 2020-01-05 21:25:18 | MASTER-Amur | (15h 45m 24.85s , +12d 07m 00.2s) | C | 60 | 15.6 | 18162 | 2020-01-05 21:26:37 | MASTER-IAC | (03h 45m 22.04s , -30d 02m 41.1s) | C | 60 | 18.7 | 18222 | 2020-01-05 21:26:37 | MASTER-IAC | (03h 45m 22.04s , -30d 02m 41.2s) | C | 180 | 19.1 | Coadd 18162 | 2020-01-05 21:26:37 | MASTER-IAC | (03h 36m 01.05s , -29d 59m 08.1s) | C | 60 | 17.9 | 18222 | 2020-01-05 21:26:37 | MASTER-IAC | (03h 36m 01.05s , -29d 59m 08.1s) | C | 180 | 18.6 | Coadd 18172 | 2020-01-05 21:26:48 | MASTER-Amur | (15h 53m 32.83s , +12d 08m 33.3s) | C | 60 | 15.6 | 18296 | 2020-01-05 21:28:52 | MASTER-IAC | (03h 45m 15.26s , -30d 03m 31.3s) | C | 60 | 18.7 | 18296 | 2020-01-05 21:28:52 | MASTER-IAC | (03h 35m 54.10s , -29d 59m 58.2s) | C | 60 | 18.0 | 18429 | 2020-01-05 21:31:04 | MASTER-IAC | (03h 45m 17.10s , -30d 02m 31.6s) | C | 60 | 18.6 | 18429 | 2020-01-05 21:31:04 | MASTER-IAC | (03h 35m 55.97s , -29d 58m 58.8s) | C | 60 | 18.0 | 18498 | 2020-01-05 21:32:13 | MASTER-Amur | (15h 53m 36.15s , +12d 08m 34.0s) | C | 60 | 15.6 | 18723 | 2020-01-05 21:34:59 | MASTER-Tunka | (12h 55m 23.79s , +41d 59m 24.3s) | C | 180 | 19.3 | 18816 | 2020-01-05 21:37:31 | MASTER-Amur | (16h 22m 16.99s , +08d 07m 41.3s) | C | 60 | 15.1 | 18928 | 2020-01-05 21:38:23 | MASTER-Tunka | (12h 55m 23.55s , +42d 00m 28.1s) | C | 180 | 19.4 | 18908 | 2020-01-05 21:39:04 | MASTER-Amur | (16h 42m 31.24s , +14d 06m 24.2s) | C | 60 | 15.3 | 19000 | 2020-01-05 21:40:35 | MASTER-Amur | (16h 34m 24.60s , +12d 06m 44.9s) | C | 60 | 15.2 | 19134 | 2020-01-05 21:41:50 | MASTER-Tunka | (13h 06m 18.58s , +41d 59m 14.4s) | C | 180 | 19.2 | 19094 | 2020-01-05 21:42:10 | MASTER-Amur | (13h 43m 56.98s , +58d 09m 12.8s) | C | 60 | 16.7 | 19185 | 2020-01-05 21:43:41 | MASTER-Amur | (13h 43m 51.11s , +58d 08m 40.4s) | C | 60 | 16.8 | 19276 | 2020-01-05 21:45:12 | MASTER-Amur | (13h 43m 51.67s , +58d 09m 41.8s) | C | 60 | 16.8 | 19339 | 2020-01-05 21:45:15 | MASTER-Tunka | (13h 06m 11.88s , +41d 58m 17.6s) | C | 180 | 19.3 | 19370 | 2020-01-05 21:46:45 | MASTER-Amur | (16h 22m 17.59s , +08d 07m 45.1s) | C | 60 | 15.2 | 19462 | 2020-01-05 21:48:17 | MASTER-Amur | (16h 30m 15.36s , +08d 06m 34.8s) | C | 60 | 15.1 | 19544 | 2020-01-05 21:48:39 | MASTER-Tunka | (13h 06m 16.54s , +41d 58m 25.8s) | C | 180 | 19.2 | 19554 | 2020-01-05 21:49:50 | MASTER-Amur | (16h 42m 32.54s , +14d 06m 40.8s) | C | 60 | 15.4 | 19652 | 2020-01-05 21:51:27 | MASTER-Amur | (13h 58m 03.21s , +56d 09m 12.2s) | C | 60 | 16.9 | 19741 | 2020-01-05 21:52:57 | MASTER-Amur | (13h 58m 03.19s , +56d 07m 57.5s) | C | 60 | 16.8 | 19809 | 2020-01-05 21:54:04 | MASTER-IAC | (03h 45m 38.43s , -34d 00m 49.1s) | C | 60 | 17.9 | 19869 | 2020-01-05 21:54:04 | MASTER-IAC | (03h 45m 38.44s , -34d 00m 49.1s) | C | 180 | 18.5 | Coadd 19809 | 2020-01-05 21:54:04 | MASTER-IAC | (03h 55m 24.79s , -34d 04m 12.4s) | C | 60 | 18.2 | 19869 | 2020-01-05 21:54:04 | MASTER-IAC | (03h 55m 24.79s , -34d 04m 12.4s) | C | 180 | 19.0 | Coadd 19831 | 2020-01-05 21:54:27 | MASTER-Amur | (13h 58m 06.02s , +56d 09m 41.9s) | C | 60 | 16.8 | 19952 | 2020-01-05 21:55:27 | MASTER-Tunka | (13h 00m 12.26s , +52d 00m 36.5s) | C | 180 | 19.6 | 19927 | 2020-01-05 21:56:03 | MASTER-Amur | (16h 50m 39.67s , +14d 07m 19.6s) | C | 60 | 15.4 | 19944 | 2020-01-05 21:56:19 | MASTER-IAC | (03h 55m 30.64s , -34d 04m 15.0s) | C | 60 | 18.2 | 19944 | 2020-01-05 21:56:20 | MASTER-IAC | (03h 45m 44.32s , -34d 00m 50.1s) | C | 60 | 17.9 | 20019 | 2020-01-05 21:57:35 | MASTER-Amur | (16h 34m 23.37s , +12d 08m 39.3s) | C | 60 | 15.4 | 20078 | 2020-01-05 21:58:33 | MASTER-IAC | (03h 55m 28.21s , -34d 02m 29.5s) | C | 60 | 18.1 | 20078 | 2020-01-05 21:58:33 | MASTER-IAC | (03h 45m 42.14s , -33d 59m 03.6s) | C | 60 | 17.9 | 20163 | 2020-01-05 21:58:59 | MASTER-Tunka | (13h 13m 15.08s , +51d 58m 45.8s) | C | 180 | 19.6 | 20110 | 2020-01-05 21:59:05 | MASTER-Amur | (16h 42m 38.12s , +12d 07m 29.7s) | C | 60 | 15.4 | 20211 | 2020-01-05 22:00:46 | MASTER-IAC | (04h 14m 46.76s , -34d 03m 38.0s) | C | 60 | 18.3 | 20271 | 2020-01-05 22:00:46 | MASTER-IAC | (04h 14m 46.76s , -34d 03m 38.0s) | C | 180 | 19.0 | Coadd 20212 | 2020-01-05 22:00:47 | MASTER-IAC | (04h 05m 00.60s , -34d 00m 12.0s) | C | 60 | 17.6 | 20272 | 2020-01-05 22:00:47 | MASTER-IAC | (04h 05m 00.60s , -34d 00m 12.0s) | C | 180 | 18.4 | Coadd 20382 | 2020-01-05 22:02:38 | MASTER-Tunka | (13h 43m 33.96s , +43d 59m 14.4s) | C | 180 | 19.5 | 20348 | 2020-01-05 22:03:03 | MASTER-IAC | (04h 05m 03.53s , -33d 58m 27.2s) | C | 60 | 17.7 | 20349 | 2020-01-05 22:03:04 | MASTER-IAC | (04h 14m 49.52s , -34d 01m 54.4s) | C | 60 | 18.4 | 20359 | 2020-01-05 22:03:14 | MASTER-Amur | (16h 22m 16.09s , +08d 07m 48.4s) | C | 60 | 15.3 | 20448 | 2020-01-05 22:04:44 | MASTER-Amur | (16h 30m 16.88s , +08d 09m 04.1s) | C | 60 | 15.3 | 20481 | 2020-01-05 22:05:16 | MASTER-IAC | (04h 14m 43.30s , -34d 02m 50.6s) | C | 60 | 18.4 | 20481 | 2020-01-05 22:05:16 | MASTER-IAC | (04h 04m 57.13s , -33d 59m 22.3s) | C | 60 | 17.7 | 20597 | 2020-01-05 22:06:12 | MASTER-Tunka | (13h 54m 38.63s , +43d 58m 18.7s) | C | 180 | 19.6 | 20541 | 2020-01-05 22:06:16 | MASTER-Amur | (16h 42m 27.28s , +14d 07m 09.2s) | C | 60 | 15.5 | 20624 | 2020-01-05 22:07:39 | MASTER-IAC | (04h 08m 58.33s , -32d 02m 02.0s) | C | 60 | 18.5 | 20684 | 2020-01-05 22:07:39 | MASTER-IAC | (04h 08m 58.33s , -32d 02m 02.0s) | C | 180 | 19.1 | Coadd 20624 | 2020-01-05 22:07:39 | MASTER-IAC | (03h 59m 25.27s , -31d 58m 33.4s) | C | 60 | 18.1 | 20684 | 2020-01-05 22:07:39 | MASTER-IAC | (03h 59m 25.27s , -31d 58m 33.4s) | C | 180 | 18.8 | Coadd 20633 | 2020-01-05 22:07:49 | MASTER-Amur | (16h 50m 45.32s , +14d 08m 29.5s) | C | 60 | 15.7 | 20724 | 2020-01-05 22:09:20 | MASTER-Amur | (16h 34m 20.70s , +12d 08m 16.5s) | C | 60 | 15.3 | 20809 | 2020-01-05 22:09:44 | MASTER-Tunka | (13h 26m 13.51s , +52d 00m 18.0s) | C | 180 | 19.5 | 20816 | 2020-01-05 22:10:51 | MASTER-Amur | (16h 42m 30.59s , +12d 09m 11.0s) | C | 60 | 15.3 | 20830 | 2020-01-05 22:11:06 | MASTER-IAC | (04h 09m 03.79s , -32d 03m 03.1s) | C | 60 | 18.4 | 20830 | 2020-01-05 22:11:06 | MASTER-IAC | (03h 59m 30.58s , -31d 59m 35.3s) | C | 60 | 18.2 | 20909 | 2020-01-05 22:12:25 | MASTER-Amur | (16h 30m 20.22s , +08d 08m 28.3s) | C | 60 | 15.3 | 21019 | 2020-01-05 22:13:14 | MASTER-Tunka | (13h 39m 23.12s , +51d 58m 58.2s) | C | 180 | 19.6 | 21000 | 2020-01-05 22:13:56 | MASTER-Amur | (16h 50m 38.45s , +14d 07m 02.9s) | C | 60 | 15.3 | 21055 | 2020-01-05 22:14:51 | MASTER-IAC | (04h 08m 57.84s , -32d 04m 04.9s) | C | 60 | 18.3 | 21055 | 2020-01-05 22:14:51 | MASTER-IAC | (03h 59m 24.46s , -32d 00m 37.2s) | C | 60 | 18.2 | 21091 | 2020-01-05 22:15:27 | MASTER-Amur | (16h 27m 40.32s , +10d 09m 30.4s) | C | 60 | 15.3 | 21232 | 2020-01-05 22:16:48 | MASTER-Tunka | (13h 52m 20.34s , +51d 57m 36.0s) | C | 180 | 19.7 | 21182 | 2020-01-05 22:16:58 | MASTER-Amur | (16h 42m 34.72s , +12d 07m 18.5s) | C | 60 | 15.1 | 21273 | 2020-01-05 22:18:29 | MASTER-Amur | (16h 17m 58.09s , +06d 08m 48.1s) | C | 60 | 15.4 | 21365 | 2020-01-05 22:20:00 | MASTER-Amur | (16h 13m 17.75s , +02d 08m 54.2s) | C | 60 | 14.9 | 21442 | 2020-01-05 22:20:18 | MASTER-Tunka | (14h 05m 30.04s , +51d 57m 35.6s) | C | 180 | 19.6 | 21508 | 2020-01-05 22:22:24 | MASTER-Amur | (16h 27m 38.82s , +10d 07m 37.7s) | C | 60 | 15.1 | 21655 | 2020-01-05 22:23:51 | MASTER-Tunka | (14h 18m 29.25s , +51d 58m 30.0s) | C | 180 | 19.6 | 21597 | 2020-01-05 22:23:53 | MASTER-Amur | (16h 35m 50.44s , +10d 07m 42.1s) | C | 60 | 14.8 | 21646 | 2020-01-05 22:24:41 | MASTER-IAC | (03h 45m 16.13s , -30d 02m 38.8s) | C | 60 | 18.6 | 21706 | 2020-01-05 22:24:41 | MASTER-IAC | (03h 45m 16.13s , -30d 02m 38.8s) | C | 180 | 19.1 | Coadd 21646 | 2020-01-05 22:24:41 | MASTER-IAC | (03h 35m 53.95s , -29d 59m 09.0s) | C | 60 | 17.9 | 21706 | 2020-01-05 22:24:41 | MASTER-IAC | (03h 35m 53.95s , -29d 59m 09.0s) | C | 180 | 18.6 | Coadd 21743 | 2020-01-05 22:26:18 | MASTER-Amur | (16h 18m 01.71s , +06d 09m 44.8s) | C | 60 | 14.0 | 21775 | 2020-01-05 22:26:51 | MASTER-IAC | (03h 45m 21.86s , -30d 03m 44.5s) | C | 60 | 18.6 | 21775 | 2020-01-05 22:26:51 | MASTER-IAC | (03h 35m 59.72s , -30d 00m 16.5s) | C | 60 | 17.9 | 21867 | 2020-01-05 22:27:23 | MASTER-Tunka | (14h 31m 31.91s , +51d 56m 42.9s) | C | 180 | 19.7 | 21908 | 2020-01-05 22:29:03 | MASTER-IAC | (03h 35m 53.86s , -30d 01m 21.6s) | C | 60 | 18.0 | 21909 | 2020-01-05 22:29:05 | MASTER-IAC | (03h 45m 16.05s , -30d 04m 48.5s) | C | 60 | 18.7 | 22051 | 2020-01-05 22:31:27 | MASTER-IAC | (07h 10m 16.68s , +26d 01m 58.3s) | C | 60 | 18.4 | 22051 | 2020-01-05 22:31:27 | MASTER-IAC | (07h 01m 12.00s , +26d 05m 40.5s) | C | 60 | 17.9 | 22192 | 2020-01-05 22:33:47 | MASTER-IAC | (07h 01m 08.94s , +26d 07m 16.7s) | C | 60 | 18.1 | 22192 | 2020-01-05 22:33:47 | MASTER-IAC | (07h 10m 14.01s , +26d 03m 30.1s) | C | 60 | 18.6 | 22417 | 2020-01-05 22:37:33 | MASTER-IAC | (07h 20m 51.43s , +24d 03m 52.9s) | C | 60 | 18.4 | 22418 | 2020-01-05 22:37:33 | MASTER-IAC | (07h 11m 55.12s , +24d 07m 41.7s) | C | 60 | 18.0 | 22478 | 2020-01-05 22:37:33 | MASTER-IAC | (07h 11m 55.12s , +24d 07m 41.7s) | C | 180 | 18.6 | Coadd 22560 | 2020-01-05 22:39:55 | MASTER-IAC | (07h 11m 49.60s , +24d 06m 49.8s) | C | 60 | 18.0 | 22673 | 2020-01-05 22:41:48 | MASTER-Tunka | (16h 29m 26.78s , +13d 50m 34.2s) | C | 60 | 18.5 | 22673 | 2020-01-05 22:41:49 | MASTER-IAC | (07h 11m 49.31s , +24d 07m 50.3s) | C | 60 | 17.9 | 22673 | 2020-01-05 22:41:49 | MASTER-IAC | (07h 20m 45.81s , +24d 04m 00.4s) | C | 60 | 18.4 | 22834 | 2020-01-05 22:43:29 | MASTER-Tunka | (13h 06m 10.11s , +41d 59m 37.8s) | C | 180 | 19.8 | 22808 | 2020-01-05 22:44:03 | MASTER-IAC | (07h 29m 25.21s , +24d 07m 20.4s) | C | 60 | 17.9 | 22868 | 2020-01-05 22:44:03 | MASTER-IAC | (07h 29m 25.21s , +24d 07m 20.4s) | C | 180 | 18.7 | Coadd 22808 | 2020-01-05 22:44:03 | MASTER-IAC | (07h 38m 21.57s , +24d 03m 29.8s) | C | 60 | 18.7 | 22868 | 2020-01-05 22:44:03 | MASTER-IAC | (07h 38m 21.57s , +24d 03m 29.8s) | C | 180 | 19.4 | Coadd 22940 | 2020-01-05 22:46:15 | MASTER-IAC | (07h 29m 20.55s , +24d 06m 20.5s) | C | 60 | 17.9 | 22940 | 2020-01-05 22:46:15 | MASTER-IAC | (07h 38m 16.94s , +24d 02m 29.8s) | C | 60 | 18.8 | 22994 | 2020-01-05 22:47:09 | MASTER-Tunka | (16h 29m

29.31s , +13d 52m 38.9s) | C | 60 | 18.2 | 23077 | 2020-01-05 22:48:33 | MASTER-IAC | (07h 38m 21.67s , +24d 02m 49.2s) | C | 60 | 18.8 | 23077 | 2020-01-05 22:48:33 | MASTER-IAC | (07h 29m 25.25s , +24d 06m 40.0s) | C | 60 | 17.9 | 23084 | 2020-01-05 22:48:40 | MASTER-Tunka | (16h 37m 43.95s , +13d 50m 21.3s) | C | 60 | 18.2 | 23181 | 2020-01-05 22:50:17 | MASTER-Tunka | (16h 21m 27.05s , +11d 52m 21.0s) | C | 60 | 18.4 | 23213 | 2020-01-05 22:50:48 | MASTER-IAC | (07h 28m 02.92s , +26d 03m 42.2s) | C | 60 | 18.5 | 23273 | 2020-01-05 22:50:48 | MASTER-IAC | (07h 28m 02.92s , +26d 03m 42.3s) | C | 180 | 19.2 | Coadd 23213 | 2020-01-05 22:50:49 | MASTER-IAC | (07h 18m 57.28s , +26d 07m 32.8s) | C | 60 | 17.9 | 23273 | 2020-01-05 22:50:49 | MASTER-IAC | (07h 18m 57.28s , +26d 07m 32.8s) | C | 180 | 18.7 | Coadd 23275 | 2020-01-05 22:51:50 | MASTER-Tunka | (16h 46m 00.60s , +13d 50m 52.5s) | C | 60
| 18.0 | 23347 | 2020-01-05 22:53:02 | MASTER-IAC | (07h 28m 02.85s , +26d 02m 41.3s) | C | 60 | 18.4 | 23348 | 2020-01-05 22:53:04 | MASTER-IAC | (07h 18m 57.38s , +26d 06m 31.6s) | C | 60 | 17.9 | 23368 | 2020-01-05 22:53:24 | MASTER-Tunka | (16h 29m 25.62s , +13d 50m 58.0s) | C | 60 | 18.3 | 23464 | 2020-01-05 22:54:59 | MASTER-Tunka | (16h 37m 47.25s , +13d 50m 59.7s) | C | 60 | 18.1 | 23482 | 2020-01-05 22:55:18 | MASTER-IAC | (07h 19m 00.35s , +26d 07m 38.3s) | C | 60 | 18.0 | 23482 | 2020-01-05 22:55:18 | MASTER-IAC | (07h 28m 05.99s , +26d 03m 47.9s) | C | 60 | 18.5 | 23558 | 2020-01-05 22:56:33 | MASTER-Tunka | (16h 21m 30.17s , +11d 53m 22.4s) | C | 60 | 18.3 | 23651 | 2020-01-05 22:58:06 | MASTER-Tunka | (16h 29m 40.90s , +11d 51m 33.2s) | C | 60 | 18.2 | 23983 | 2020-01-05 23:03:38 | MASTER-Tunka | (16h 45m 55.80s , +13d 51m 17.2s) | C | 60 | 17.9 | 24019 | 2020-01-05 23:04:15 | MASTER-IAC | (07h 46m 51.60s , +24d 06m 48.4s) | C | 60 | 18.5 | 24079 | 2020-01-05 23:04:15 | MASTER-IAC | (07h 46m 51.60s , +24d 06m 48.4s) | C | 180 | 19.1 | Coadd 24019 | 2020-01-05 23:04:15 | MASTER-IAC | (07h 55m 47.86s , +24d 02m 58.1s) | C | 60 | 18.7 | 24079 | 2020-01-05 23:04:15 | MASTER-IAC | (07h 55m 47.86s , +24d 02m 58.0s) | C | 180 | 19.5 | Coadd 24072 | 2020-01-05 23:05:07 | MASTER-Tunka | (16h 45m 55.44s , +13d 52m 22.3s) | C | 60 | 18.0 | 24155 | 2020-01-05 23:06:31 | MASTER-IAC | (07h 46m 58.15s , +24d 06m 57.7s) | C | 60 | 18.4 | 24155 | 2020-01-05 23:06:31 | MASTER-IAC | (07h 55m 54.42s , +24d 03m 07.3s) | C | 60 | 18.8 | 24231 | 2020-01-05 23:06:47 | MASTER-Tunka | (13h 54m 34.63s , +43d 59m 33.1s) | C | 180 | 19.5 | 24287 | 2020-01-05 23:08:43 | MASTER-IAC | (07h 55m 50.77s , +24d 04m 53.7s) | C | 60 | 18.8 | 24287 | 2020-01-05 23:08:43 | MASTER-IAC | (07h 46m 54.34s , +24d 08m 44.0s) | C | 60 | 18.4 | 24391 | 2020-01-05 23:10:27 | MASTER-Tunka | (16h 54m 10.40s , +13d 50m 02.7s) | C | 60 | 18.2 | 24481 | 2020-01-05 23:11:57 | MASTER-Tunka | (16h 37m 46.96s , +13d 51m 23.4s) | C | 60 | 18.1 | 24642 | 2020-01-05 23:13:37 | MASTER-Tunka | (13h 39m 09.31s , +52d 00m 45.5s) | C | 180 | 19.4 | 24799 | 2020-01-05 23:17:15 | MASTER-Tunka | (16h 21m 31.15s , +11d 52m 39.6s) | C | 60 | 18.1 | 24835 | 2020-01-05 23:17:51 | MASTER-IAC | (07h 01m 05.67s , +26d 07m 47.9s) | C | 60 | 18.4 | 24895 | 2020-01-05 23:17:51 | MASTER-IAC | (07h 01m 05.67s , +26d 07m 47.9s) | C | 180 | 19.0 | Coadd 24835 | 2020-01-05 23:17:51 | MASTER-IAC | (07h 10m 11.87s , +26d 03m 51.9s) | C | 60 | 18.6 | 24895 | 2020-01-05 23:17:51 | MASTER-IAC | (07h 10m 11.87s , +26d 03m 51.9s) | C | 180 | 19.4 | Coadd 24887 | 2020-01-05 23:18:43 | MASTER-Tunka | (16h 21m 34.07s , +11d 54m 16.0s) | C | 60 | 18.3 | 24969 | 2020-01-05 23:20:05 | MASTER-IAC | (07h 01m 11.67s , +26d 06m 46.0s) | C | 60 | 18.5 | 24969 | 2020-01-05 23:20:05 | MASTER-IAC | (07h 10m 17.71s , +26d 02m 49.3s) | C | 60 | 18.6 | 24983 | 2020-01-05 23:20:19 | MASTER-Tunka | (16h 29m 39.75s , +11d 52m 52.1s) | C | 60 | 18.1 | 25072 | 2020-01-05 23:21:47 | MASTER-Tunka | (16h 29m 38.01s , +11d 53m 55.2s) | C | 60 | 18.1 | 25101 | 2020-01-05 23:22:16 | MASTER-IAC | (07h 01m 05.13s , +26d 05m 43.9s) | C | 60 | 18.5 | 25101 | 2020-01-05 23:22:16 | MASTER-IAC | (07h 10m 11.03s , +26d 01m 48.0s) | C | 60 | 18.7 | 25165 | 2020-01-05 23:23:21 | MASTER-Tunka | (16h 29m 45.97s , +11d 52m 56.7s) | C | 60 | 18.1 | 25239 | 2020-01-05 23:24:34 | MASTER-IAC | (07h 11m 54.42s , +24d 06m 08.3s) | C | 60 | 18.4 | 25299 | 2020-01-05 23:24:34 | MASTER-IAC | (07h 11m 54.42s , +24d 06m 08.3s) | C | 180 | 19.1 | Coadd 25239 | 2020-01-05 23:24:35 | MASTER-IAC | (07h 20m 51.34s , +24d 02m 12.7s) | C | 60 | 18.6 | 25299 | 2020-01-05 23:24:35 | MASTER-IAC | (07h 20m 51.34s , +24d 02m 12.7s) | C | 180 | 19.4 | Coadd 25326 | 2020-01-05 23:25:02 | MASTER-Tunka | (14h 05m 12.28s , +51d 58m 33.8s) | C | 180 | 18.5 | 25374 | 2020-01-05 23:26:49 | MASTER-IAC | (07h 11m 50.80s , +24d 07m 39.0s) | C | 60 | 18.3 | 25374 | 2020-01-05 23:26:49 | MASTER-IAC | (07h 20m 47.76s , +24d 03m 43.4s) | C | 60 | 18.6 | 25508 | 2020-01-05 23:29:04 | MASTER-IAC | (07h 20m 47.66s , +24d 02m 20.4s) | C | 60 | 19.0 | 25508 | 2020-01-05 23:29:04 | MASTER-IAC | (07h 11m 50.88s , +24d 06m 16.2s) | C | 60 | 18.3 | 25648 | 2020-01-05 23:31:23 | MASTER-IAC | (07h 29m 24.98s , +24d 08m 16.7s) | C | 60 | 18.4 | 25708 | 2020-01-05 23:31:23 | MASTER-IAC | (07h 29m 24.98s , +24d 08m 16.7s) | C | 180 | 19.1 | Coadd 25648 | 2020-01-05 23:31:23 | MASTER-IAC | (07h 38m 21.64s , +24d 04m 19.5s) | C | 60 | 18.8 | 25708 | 2020-01-05 23:31:23 | MASTER-IAC | (07h 38m 21.64s , +24d 04m 19.5s) | C | 180 | 19.4 | Coadd 25781 | 2020-01-05 23:33:37 | MASTER-IAC | (07h 29m 18.50s , +24d 07m 30.3s) | C | 60 | 18.4 | 25781 | 2020-01-05 23:33:37 | MASTER-IAC | (07h 38m 15.12s , +24d 03m 33.8s) | C | 60 | 18.8 | 25914 | 2020-01-05 23:35:49 | MASTER-IAC | (07h 38m 16.13s , +24d 04m 33.2s) | C | 60 | 18.8 | 25914 | 2020-01-05 23:35:49 | MASTER-IAC | (07h 29m 19.46s , +24d 08m 30.1s) | C | 60 | 18.3 | 26054 | 2020-01-05 23:38:10 | MASTER-IAC | (07h 18m 58.67s , +26d 07m 10.4s) | C | 60 | 18.4 | 26114 | 2020-01-05 23:38:10 | MASTER-IAC | (07h 18m 58.67s , +26d 07m 10.4s) | C | 180 | 19.2 | Coadd 26054 | 2020-01-05 23:38:10 | MASTER-IAC | (07h 28m 04.28s , +26d 03m 13.7s) | C | 60 | 18.6 | 26114 | 2020-01-05 23:38:10 | MASTER-IAC | (07h 28m 04.28s , +26d 03m 13.7s) | C | 180 | 19.4 | Coadd 26188 | 2020-01-05 23:40:24 | MASTER-IAC | (07h 27m 58.93s , +26d 02m 13.6s) | C | 60 | 18.6 | 26188 | 2020-01-05 23:40:24 | MASTER-IAC | (07h 18m 53.30s , +26d 06m 10.0s) | C | 60 | 18.4 | 26321 | 2020-01-05 23:42:36 | MASTER-IAC | (07h 28m 05.04s , +26d 02m 41.8s) | C | 60 | 18.6 | 26321 | 2020-01-05 23:42:36 | MASTER-IAC | (07h 18m 59.43s , +26d 06m 38.1s) | C | 60 | 18.4 | 26905 | 2020-01-05 23:51:21 | MASTER-Tunka | (14h 31m 14.17s , +52d 00m 12.6s) | C | 180 | 18.9 | 26859 | 2020-01-05 23:51:34 | MASTER-IAC | (07h 55m 47.75s , +24d 04m 00.8s) | C | 60 | 17.7 | 26919 | 2020-01-05 23:51:34 | MASTER-IAC | (07h 55m 47.75s , +24d 04m 00.9s) | C | 180 | 19.2 | Coadd 26859 | 2020-01-05 23:51:34 | MASTER-IAC | (07h 46m 51.22s , +24d 07m 57.8s) | C | 60 | 17.5 | 26919 | 2020-01-05 23:51:34 | MASTER-IAC | (07h 46m 51.20s , +24d 07m 57.7s) | C | 180 | 19.0 | Coadd 26996 | 2020-01-05 23:53:52 | MASTER-IAC | (07h 46m 51.29s , +24d 08m 57.4s) | C | 60 | 18.5 | 26997 | 2020-01-05 23:53:52 | MASTER-IAC | (07h 55m 48.01s , +24d 05m 00.1s) | C | 60 | 18.8 | 27064 | 2020-01-05 23:54:59 | MASTER-Tunka | (16h 46m 03.52s , +13d 53m 04.3s) | C | 60 | 17.2 | 27127 | 2020-01-05 23:56:03 | MASTER-IAC | (07h 46m 57.40s , +24d 07m 57.2s) | C | 60 | 18.5 | 27127 | 2020-01-05 23:56:03 | MASTER-IAC | (07h 55m 54.01s , +24d 03m 59.9s) | C | 60 | 18.9 | 27155 | 2020-01-05 23:56:31 | MASTER-Tunka | (16h 54m 11.75s , +13d 51m 37.6s) | C | 60 | 17.1 | 27248 | 2020-01-05 23:58:04 | MASTER-Tunka | (16h 29m 45.24s , +11d 53m 31.1s) | C | 60 | 17.1 | 27258 | 2020-01-05 23:58:14 | MASTER-IAC | (07h 46m 49.77s , +24d 06m 56.5s) | C | 60 | 18.6 | 27258 | 2020-01-05 23:58:14 | MASTER-IAC | (07h 55m 46.33s , +24d 02m 59.2s) | C | 60 | 18.8 | 27527 | 2020-01-06 00:02:43 | MASTER-Tunka | (16h 54m 10.60s , +13d 53m 33.8s) | C | 60 | 16.6 | 27618 | 2020-01-06 00:04:14 | MASTER-Tunka | (16h 38m 42.00s , +15d 54m 51.2s) | C | 60 | 16.5 | 27712 | 2020-01-06 00:05:48 | MASTER-Tunka | (17h 06m 19.23s , +17d 51m 14.5s) | C | 60 | 16.1 | 27802 | 2020-01-06 00:07:17 | MASTER-Tunka | (17h 06m 25.76s , +17d 51m 25.8s) | C | 60 | 15.9 | 28626 | 2020-01-06 00:21:02 | MASTER-IAC | (08h 24m 59.07s , +20d 10m 00.9s) | C | 60 | 18.2 | 28686 | 2020-01-06 00:21:02 | MASTER-IAC | (08h 24m 59.07s , +20d 10m 00.9s) | C | 180 | 19.0 | Coadd 28756 | 2020-01-06 00:23:12 | MASTER-IAC | (08h 24m 59.01s , +20d 08m 03.5s) | C | 60 | 18.3 | 28888 | 2020-01-06 00:25:24 | MASTER-IAC | (08h 25m 02.86s , +20d 09m 57.7s) | C | 60 | 18.3 | 29028 | 2020-01-06 00:27:44 | MASTER-IAC | (08h 12m 19.27s , +26d 08m 38.7s) | C | 60 | 18.6 | 29088 | 2020-01-06 00:27:44 | MASTER-IAC | (08h 12m 19.26s , +26d 08m 38.7s) | C | 180 | 19.2 | Coadd 29028 | 2020-01-06 00:27:44 | MASTER-IAC | (08h 21m 25.03s , +26d 04m 34.1s) | C | 60 | 18.9 | 29088 | 2020-01-06 00:27:44 | MASTER-IAC | (08h 21m 25.03s , +26d 04m 34.0s) | C | 180 | 19.6 | Coadd 29164 | 2020-01-06 00:29:59 | MASTER-IAC | (08h 12m 18.43s , +26d 09m 38.7s) | C | 60 | 18.5 | 29164 | 2020-01-06 00:29:59 | MASTER-IAC | (08h 21m 24.29s , +26d 05m 34.1s) | C | 60 | 18.9 | 29301 | 2020-01-06 00:32:17 | MASTER-IAC | (08h 21m 30.94s , +26d 04m 34.0s) | C | 60 | 19.0 | 29302 | 2020-01-06 00:32:18 | MASTER-IAC | (08h 12m 25.12s , +26d 08m 38.7s) | C | 60 | 18.6 | 29437 | 2020-01-06 00:34:33 | MASTER-IAC | (07h 39m 57.64s , +22d 06m 42.0s) | C | 60 | 18.5 | 29497 | 2020-01-06 00:34:33 | MASTER-IAC | (07h 39m 57.64s , +22d 06m 42.0s) | C | 180 | 19.3 | Coadd 29437 | 2020-01-06 00:34:33 | MASTER-IAC | (07h 48m 46.59s , +22d 02m 40.2s) | C | 60 | 18.7 | 29497 | 2020-01-06 00:34:33 | MASTER-IAC | (07h 48m 46.59s , +22d 02m 40.2s) | C | 180 | 19.4 | Coadd 29572 | 2020-01-06 00:36:48 | MASTER-IAC | (07h 40m 02.74s , +22d 07m 03.2s) | C | 60 | 18.5 | 29572 | 2020-01-06 00:36:48 | MASTER-IAC | (07h 48m 51.83s , +22d 03m 01.4s) | C | 60 | 18.7 | 29707 | 2020-01-06 00:39:03 | MASTER-IAC | (07h 39m 59.82s , +22d 08m 28.5s) | C | 60 | 18.6 | 29707 | 2020-01-06 00:39:03 | MASTER-IAC | (07h 48m 49.04s , +22d 04m 26.7s) | C | 60 | 18.7 | 29840 | 2020-01-06 00:41:15 | MASTER-IAC | (07h 22m 43.59s , +22d 06m 18.3s) | C | 60 | 18.3 | 29900 | 2020-01-06 00:41:15 | MASTER-IAC | (07h 22m 43.59s , +22d 06m 18.3s) | C | 180 | 19.1 | Coadd 29840 | 2020-01-06 00:41:16 | MASTER-IAC | (07h 31m 32.91s , +22d 02m 17.6s) | C | 60 | 18.6 | 29900 | 2020-01-06 00:41:16 | MASTER-IAC | (07h 31m 32.91s , +22d 02m 17.6s) | C | 180 | 19.4 | Coadd 29976 | 2020-01-06
00:43:32 | MASTER-IAC | (07h 31m 36.13s , +22d 03m 52.3s) | C | 60 | 18.7 | 29976 | 2020-01-06 00:43:32 | MASTER-IAC | (07h 22m 46.57s , +22d 07m 52.7s) | C | 60 | 18.4 | 30108 | 2020-01-06 00:45:43 | MASTER-IAC | (07h 22m 40.21s , +22d 07m 05.4s) | C | 60 | 18.3 | 30109 | 2020-01-06 00:45:44 | MASTER-IAC | (07h 31m 29.67s , +22d 03m 05.3s) | C | 60 | 18.7 | 30239 | 2020-01-06 00:47:54 | MASTER-IAC | (07h 25m 29.05s , +20d 03m 54.1s) | C | 60 | 18.5 | 30299 | 2020-01-06 00:47:54 | MASTER-IAC | (07h 25m 29.05s , +20d 03m 54.1s) | C | 180 | 19.5 | Coadd 30239 | 2020-01-06 00:47:55 | MASTER-IAC | (07h 16m 46.67s , +20d 07m 53.2s) | C | 60 | 18.4 | 30299 | 2020-01-06 00:47:55 | MASTER-IAC | (07h 16m 46.66s , +20d 07m 53.2s) | C | 180 | 19.1 | Coadd 30376 | 2020-01-06 00:50:11 | MASTER-IAC | (07h 25m 33.99s , +20d 02m 53.1s) | C | 60 | 18.5 | 30376 | 2020-01-06 00:50:11 | MASTER-IAC | (07h 16m 51.67s , +20d 06m 52.5s) | C | 60 | 18.4 | 30547 | 2020-01-06 00:52:03 | MASTER-Kislovodsk | (12h 48m 38.61s , +42d 09m 49.9s) | C | 180 | 19.5 | 30547 | 2020-01-06 00:52:03 | MASTER-Kislovodsk | (13h 00m 15.08s , +41d 42m 42.2s) | C | 180 | 19.8 | 30510 | 2020-01-06 00:52:25 | MASTER-IAC | (07h 16m 46.50s , +20d 05m 51.1s) | C | 60 | 18.4 | 30510 | 2020-01-06 00:52:26 | MASTER-IAC | (07h 25m 28.66s , +20d 01m 51.6s) | C | 60 | 18.6 | 31466 | 2020-01-06 01:08:22 | MASTER-IAC | (08h 25m 01.92s , +20d 08m 56.4s) | C | 60 | 18.5 | 31876 | 2020-01-06 01:15:12 | MASTER-IAC | (08h 21m 24.29s , +26d 05m 27.3s) | C | 60 | 19.1 | 31876 | 2020-01-06 01:15:12 | MASTER-IAC | (08h 12m 17.73s , +26d 09m 29.2s) | C | 60 | 18.6 | 32010 | 2020-01-06 01:17:25 | MASTER-IAC | (08h 21m 30.28s , +26d 04m 26.5s) | C | 60 | 19.1 | 32011 | 2020-01-06 01:17:26 | MASTER-IAC | (08h 12m 23.80s , +26d 08m 28.7s) | C | 60 | 18.7 | 32150 | 2020-01-06 01:19:46 | MASTER-IAC | (07h 39m 56.72s , +22d 06m 29.3s) | C | 60 | 18.7 | 32210 | 2020-01-06 01:19:46 | MASTER-IAC | (07h 39m 56.72s , +22d 06m 29.3s) | C | 180 | 19.5 | Coadd 32150 | 2020-01-06 01:19:46 | MASTER-IAC | (07h 48m 46.19s , +22d 02m 29.6s) | C | 60 | 18.9 | 32210 | 2020-01-06 01:19:46 | MASTER-IAC | (07h 48m 46.19s , +22d 02m 29.7s) | C | 180 | 19.5 | Coadd 32282 | 2020-01-06 01:21:57 | MASTER-IAC | (07h 48m 52.70s , +22d 02m 34.2s) | C | 60 | 18.9 | 32282 | 2020-01-06 01:21:57 | MASTER-IAC | (07h 40m 03.20s , +22d 06m 34.1s) | C | 60 | 18.7 |

32415 | 2020-01-06 01:24:11 | MASTER-IAC | (07h 39m 59.08s , +22d 07m 57.7s) | C | 60 | 18.6 | 32415 | 2020-01-06 01:24:11 | MASTER-IAC | (07h 48m 48.66s , +22d 03m 58.0s) | C | 60 | 18.9 | 32555 | 2020-01-06 01:26:31 | MASTER-IAC | (07h 22m 43.07s , +22d 06m 04.8s) | C | 60 | 18.3 | 32615 | 2020-01-06 01:26:31 | MASTER-IAC | (07h 22m 43.06s , +22d 06m 04.8s) | C | 180 | 19.1 | Coadd 32555 | 2020-01-06 01:26:31 | MASTER-IAC | (07h 31m 32.60s , +22d 02m 06.0s) | C | 60 | 18.8 | 32615 | 2020-01-06 01:26:31 | MASTER-IAC | (07h 31m 32.60s , +22d 02m 06.0s) | C | 180 | 19.5 | Coadd 32693 | 2020-01-06 01:28:48 | MASTER-IAC | (07h 22m 46.52s , +22d 07m 27.4s) | C | 60 | 18.4 | 32693 | 2020-01-06 01:28:48 | MASTER-IAC | (07h 31m 36.12s , +22d 03m 28.9s) | C | 60 | 18.7 | 32829 | 2020-01-06 01:31:05 | MASTER-IAC | (07h 22m 39.79s , +22d 06m 49.8s) | C | 60 | 18.3 | 32830 | 2020-01-06 01:31:05 | MASTER-IAC | (07h 31m 29.37s , +22d 02m 51.3s) | C | 60 | 18.7 | 32963 | 2020-01-06 01:33:19 | MASTER-IAC | (07h 16m 45.57s , +20d 07m 36.3s) | C | 60 | 18.3 | 33023 | 2020-01-06 01:33:19 | MASTER-IAC | (07h 16m 45.57s , +20d 07m 36.3s) | C | 180 | 19.1 | Coadd 32963 | 2020-01-06 01:33:19 | MASTER-IAC | (07h 25m 28.00s , +20d 03m 39.3s) | C | 60 | 18.5 | 33023 | 2020-01-06 01:33:19 | MASTER-IAC | (07h 25m 28.00s , +20d 03m 39.3s) | C | 180 | 19.3 | Coadd 33098 | 2020-01-06 01:35:33 | MASTER-IAC | (07h 16m 51.94s , +20d 06m 35.6s) | C | 60 | 18.3 | 33098 | 2020-01-06 01:35:33 | MASTER-IAC | (07h 25m 34.35s , +20d 02m 38.0s) | C | 60 | 18.5 | 33249 | 2020-01-06 01:38:04 | MASTER-IAC | (07h 25m 27.95s , +20d 01m 37.4s) | C | 60 | 18.6 | 33249 | 2020-01-06 01:38:04 | MASTER-IAC | (07h 16m 45.42s , +20d 05m 33.9s) | C | 60 | 18.4 | 33527 | 2020-01-06 01:42:43 | MASTER-IAC | (07h 59m 35.65s , +20d 04m 06.5s) | C | 60 | 18.5 | 33587 | 2020-01-06 01:42:43 | MASTER-IAC | (07h 59m 35.65s , +20d 04m 06.4s) | C | 180 | 19.3 | Coadd 33527 | 2020-01-06 01:42:43 | MASTER-IAC | (07h 50m 53.65s , +20d 07m 47.3s) | C | 60 | 18.5 | 33587 | 2020-01-06 01:42:43 | MASTER-IAC | (07h 50m 53.65s , +20d 07m 47.3s) | C | 180 | 19.3 | Coadd 33667 | 2020-01-06 01:45:02 | MASTER-IAC | (07h 50m 53.68s , +20d 06m 33.7s) | C | 60 | 18.5 | 33667 | 2020-01-06 01:45:02 | MASTER-IAC | (07h 59m 35.59s , +20d 02m 52.7s) | C | 60 | 18.5 | 33791 | 2020-01-06 01:47:07 | MASTER-Kislovodsk | (16h 09m 39.36s , +10d 08m 28.5s) | C | 60 | 18.2 | 33791 | 2020-01-06 01:47:07 | MASTER-Kislovodsk | (16h 18m 09.19s , +09d 40m 41.1s) | C | 60 | 18.4 | 33804 | 2020-01-06 01:47:19 | MASTER-IAC | (07h 50m 55.63s , +20d 08m 10.6s) | C | 60 | 18.6 | 33804 | 2020-01-06 01:47:19 | MASTER-IAC | (07h 59m 37.65s , +20d 04m 28.9s) | C | 60 | 18.6 | 33884 | 2020-01-06 01:48:39 | MASTER-Kislovodsk | (16h 16m 13.60s , +12d 07m 01.6s) | C | 60 | 18.3 | 33884 | 2020-01-06 01:48:39 | MASTER-Kislovodsk | (16h 24m 46.81s , +11d 39m 24.5s) | C | 60 | 18.5 | 33978 | 2020-01-06 01:50:13 | MASTER-Kislovodsk | (16h 24m 15.25s , +14d 07m 01.6s) | C | 60 | 18.3 | 33978 | 2020-01-06 01:50:13 | MASTER-Kislovodsk | (16h 32m 52.46s , +13d 39m 22.4s) | C | 60 | 18.3 | 34078 | 2020-01-06 01:51:54 | MASTER-Kislovodsk | (16h 33m 29.10s , +16d 08m 22.3s) | C | 60 | 18.0 | 34078 | 2020-01-06 01:51:54 | MASTER-Kislovodsk | (16h 42m 11.10s , +15d 40m 39.9s) | C | 60 | 18.1 | 34080 | 2020-01-06 01:51:55 | MASTER-IAC | (07h 45m 12.65s , +18d 08m 00.8s) | C | 60 | 18.5 | 34140 | 2020-01-06 01:51:55 | MASTER-IAC | (07h 45m 12.65s , +18d 08m 00.8s) | C | 180 | 19.2 | Coadd 34081 | 2020-01-06 01:51:56 | MASTER-IAC | (07h 53m 47.92s , +18d 04m 20.2s) | C | 60 | 18.7 | 34141 | 2020-01-06 01:51:56 | MASTER-IAC | (07h 53m 47.92s , +18d 04m 20.2s) | C | 180 | 19.5 | Coadd 34235 | 2020-01-06 01:53:30 | MASTER-Kislovodsk | (12h 48m 40.82s , +42d 10m 18.3s) | C | 180 | 19.0 | 34415 | 2020-01-06 01:53:30 | MASTER-Kislovodsk | (12h 48m 40.83s , +42d 10m 18.4s) | C | 540 | 19.8 | Coadd 34235 | 2020-01-06 01:53:30 | MASTER-Kislovodsk | (13h 00m 21.19s , +41d 43m 57.1s) | C | 180 | 19.6 | 34415 | 2020-01-06 01:53:30 | MASTER-Kislovodsk | (13h 00m 21.21s , +41d 43m 56.8s) | C | 540 | 20.4 | Coadd 34215 | 2020-01-06 01:54:11 | MASTER-IAC | (07h 53m 54.31s , +18d 03m 21.0s) | C | 60 | 18.6 | 34215 | 2020-01-06 01:54:11 | MASTER-IAC | (07h 45m 19.05s , +18d 07m 01.7s) | C | 60 | 18.5 | 34348 | 2020-01-06 01:56:23 | MASTER-IAC | (07h 53m 48.96s , +18d 02m 20.4s) | C | 60 | 18.7 | 34348 | 2020-01-06 01:56:23 | MASTER-IAC | (07h 45m 13.69s , +18d 06m 01.1s) | C | 60 | 18.5 | 34446 | 2020-01-06 01:57:01 | MASTER-Kislovodsk | (12h 48m 41.99s , +42d 11m 54.4s) | C | 180 | 19.0 | 34446 | 2020-01-06 01:57:02 | MASTER-Kislovodsk | (13h 00m 23.38s , +41d 45m 37.6s) | C | 180 | 19.5 | 34673 | 2020-01-06 02:00:48 | MASTER-Kislovodsk | (12h 48m 36.69s , +42d 11m 03.3s) | C | 180 | 19.3 | 34673 | 2020-01-06 02:00:48 | MASTER-Kislovodsk | (13h 00m 18.27s , +41d 44m 49.1s) | C | 180 | 19.5 | 34626 | 2020-01-06 02:01:02 | MASTER-IAC | (07h 56m 58.60s , +16d 08m 08.7s) | C | 60 | 18.4 | 34686 | 2020-01-06 02:01:02 | MASTER-IAC | (07h 56m 58.60s , +16d 08m 08.7s) | C | 180 | 19.0 | Coadd 34626 | 2020-01-06 02:01:02 | MASTER-IAC | (08h 05m 28.41s , +16d 04m 27.9s) | C | 60 | 18.8 | 34686 | 2020-01-06 02:01:02 | MASTER-IAC | (08h 05m 28.42s , +16d 04m 27.9s) | C | 180 | 19.5 | Coadd 34759 | 2020-01-06 02:03:15 | MASTER-IAC | (08h 05m 28.36s , +16d 02m 59.8s) | C | 60 | 18.8 | 34759 | 2020-01-06 02:03:15 | MASTER-IAC | (07h 56m 58.58s , +16d 06m 41.0s) | C | 60 | 18.3 | 34835 | 2020-01-06 02:04:31 | MASTER-Kislovodsk | (16h 09m 34.17s , +10d 09m 32.5s) | C | 60 | 18.4 | 34835 | 2020-01-06 02:04:31 | MASTER-Kislovodsk | (16h 18m 06.25s , +09d 41m 57.2s) | C | 60 | 18.4 | 34891 | 2020-01-06 02:05:26 | MASTER-IAC | (07h 57m 02.29s , +16d 07m 49.6s) | C | 60 | 18.4 | 34891 | 2020-01-06 02:05:26 | MASTER-IAC | (08h 05m 32.07s , +16d 04m 08.2s) | C | 60 | 18.8 | 34928 | 2020-01-06 02:06:04 | MASTER-Kislovodsk | (16h 24m 53.78s , +11d 40m 43.1s) | C | 60 | 18.5 | 34928 | 2020-01-06 02:06:04 | MASTER-Kislovodsk | (16h 16m 18.34s , +12d 08m 20.1s) | C | 60 | 18.5 | 35063 | 2020-01-06 02:08:18 | MASTER-Kislovodsk | (16h 24m 07.57s , +14d 07m 09.1s) | C | 60 | 18.5 | 35123 | 2020-01-06 02:08:18 | MASTER-Kislovodsk | (16h 24m 07.57s , +14d 07m 09.0s) | C | 180 | 19.1 | Coadd 35063 | 2020-01-06 02:08:18 | MASTER-Kislovodsk | (16h 32m 47.17s , +13d 39m 30.3s) | C | 60 | 18.3 | 35123 | 2020-01-06 02:08:18 | MASTER-Kislovodsk | (16h 32m 47.17s , +13d 39m 30.3s) | C | 180 | 18.7 | Coadd 35155 | 2020-01-06 02:09:50 | MASTER-Kislovodsk | (16h 33m 31.95s , +16d 07m 23.1s) | C | 60 | 18.2 | 35155 | 2020-01-06 02:09:50 | MASTER-Kislovodsk | (16h 42m 16.26s , +15d 39m 41.5s) | C | 60 | 18.2 | 35247 | 2020-01-06 02:11:23 | MASTER-Kislovodsk | (16h 18m 09.97s , +09d 41m 37.1s) | C | 60 | 18.4 | 35247 | 2020-01-06 02:11:23 | MASTER-Kislovodsk | (16h 09m 37.56s , +10d 09m 14.3s) | C | 60 | 18.5 | 35392 | 2020-01-06 02:13:47 | MASTER-Kislovodsk | (16h 16m 15.11s , +12d 07m 32.9s) | C | 60 | 18.4 | 35392 | 2020-01-06 02:13:47 | MASTER-Kislovodsk | (16h 24m 51.11s , +11d 39m 54.0s) | C | 60 | 18.3 | 35486 | 2020-01-06 02:15:21 | MASTER-Kislovodsk | (16h 24m 13.74s , +14d 08m 49.3s) | C | 60 | 18.4 | 35486 | 2020-01-06 02:15:21 | MASTER-Kislovodsk | (16h 32m 53.87s , +13d 41m 09.7s) | C | 60 | 18.0 | 35577 | 2020-01-06 02:16:53 | MASTER-Kislovodsk | (16h 24m 07.60s , +14d 08m 19.5s) | C | 60 | 18.4 | 35577 | 2020-01-06 02:16:53 | MASTER-Kislovodsk | (16h 32m 47.86s , +13d 40m 39.9s) | C | 60 | 18.0 | 35679 | 2020-01-06 02:18:35 | MASTER-Kislovodsk | (16h 24m 09.74s , +14d 09m 22.8s) | C | 60 | 18.5 | 35679 | 2020-01-06 02:18:35 | MASTER-Kislovodsk | (16h 32m 50.22s , +13d 41m 44.1s) | C | 60 | 18.0 | 35772 | 2020-01-06 02:20:08 | MASTER-Kislovodsk | (16h 42m 17.00s , +15d 40m 28.8s) | C | 60 | 18.0 | 35772 | 2020-01-06 02:20:08 | MASTER-Kislovodsk | (16h 33m 31.83s , +16d 08m 08.8s) | C | 60 | 18.1 | 35870 | 2020-01-06 02:21:45 | MASTER-Kislovodsk | (16h 28m 50.77s , +07d 39m 58.1s) | C | 60 | 18.3 | 35870 | 2020-01-06 02:21:46 | MASTER-Kislovodsk | (16h 20m 21.77s , +08d 07m 37.9s) | C | 60 | 18.3 | 35963 | 2020-01-06 02:23:18 | MASTER-Kislovodsk | (16h 40m 44.00s , +14d 07m 11.7s) | C | 60 | 18.1 | 35963 | 2020-01-06 02:23:18 | MASTER-Kislovodsk | (16h 49m 23.44s , +13d 39m 29.9s) | C | 60 | 18.3 | 36061 | 2020-01-06 02:24:56 | MASTER-Kislovodsk | (16h 16m 11.04s , +06d 09m 40.9s) | C | 60 | 18.2 | 36064 | 2020-01-06 02:25:00 | MASTER-Kislovodsk | (16h 24m 38.03s , +05d 42m 02.6s) | C | 60 | 18.3 | 36174 | 2020-01-06 02:26:49 | MASTER-Kislovodsk | (16h 11m 22.31s , +02d 08m 32.2s) | C | 60 | 18.2 | 36174 | 2020-01-06 02:26:49 | MASTER-Kislovodsk | (16h 19m 46.23s , +01d 40m 51.8s) | C | 60 | 18.3 | 36266 | 2020-01-06 02:28:21 | MASTER-Kislovodsk | (16h 20m 27.48s , +08d 09m 33.2s) | C | 60 | 18.3 | 36266 | 2020-01-06 02:28:21 | MASTER-Kislovodsk | (16h 28m 57.01s , +07d 41m 54.4s) | C | 60 | 18.3 | 36434 | 2020-01-06 02:31:09 | MASTER-Kislovodsk | (16h 40m 36.71s , +14d 08m 16.4s) | C | 60 | 18.3 | 36434 | 2020-01-06 02:31:09 | MASTER-Kislovodsk | (16h 49m 16.86s , +13d 40m 36.9s) | C | 60 | 18.4 | 36533 | 2020-01-06 02:32:49 | MASTER-IAC | (07h 59m 33.97s , +20d 04m 11.4s) | C | 60 | 18.6 | 36593 | 2020-01-06 02:32:49 | MASTER-IAC | (07h 59m 33.97s , +20d 04m 11.4s) | C | 180 | 19.4 | Coadd 36533 | 2020-01-06 02:32:49 | MASTER-IAC | (07h 50m 50.67s , +20d 07m 51.3s) | C | 60 | 18.5 | 36593 | 2020-01-06 02:32:49 | MASTER-IAC | (07h 50m 50.67s , +20d 07m 51.4s) | C | 180 | 19.3 | Coadd 36537 | 2020-01-06 02:32:53 | MASTER-Kislovodsk | (16h 16m 08.16s , +06d 10m 04.4s) | C | 60 | 18.4 | 36537 | 2020-01-06 02:32:53 | MASTER-Kislovodsk | (16h 24m 35.77s , +05d 42m 27.4s) | C | 60 | 18.1 | 36630 | 2020-01-06 02:34:25 | MASTER-Kislovodsk | (16h 11m 25.11s , +02d 09m 19.4s) | C | 60 | 18.0 | 36630 | 2020-01-06 02:34:25 | MASTER-Kislovodsk | (16h 19m 49.67s , +01d 41m 41.1s) | C | 60 | 17.8 | 36668 | 2020-01-06 02:35:03 | MASTER-IAC | (07h 50m 55.60s , +20d 06m 53.2s) | C | 60 | 18.5 | 36668 | 2020-01-06 02:35:04 | MASTER-IAC | (07h 59m 38.95s , +20d 03m 13.2s) | C | 60 | 18.6 | 36802 | 2020-01-06 02:37:18 | MASTER-IAC | (07h 59m 33.83s , +20d 02m 13.6s) | C | 60 | 18.6 | 36802 | 2020-01-06 02:37:18 | MASTER-IAC | (07h 50m 50.46s , +20d 05m 52.9s) | C | 60 | 18.4 | 37455 | 2020-01-06 02:48:11 | MASTER-IAC | (07h 45m 14.79s , +18d 05m 36.4s) | C | 60 | 18.5 | 37515 | 2020-01-06 02:48:11 | MASTER-IAC | (07h 45m 14.79s , +18d 05m 36.4s) | C | 180 | 19.4 | Coadd 37455 | 2020-01-06 02:48:11 | MASTER-IAC | (07h 53m 51.38s , +18d 01m 56.7s) | C | 60 | 18.8 | 37515 | 2020-01-06 02:48:11 | MASTER-IAC | (07h 53m 51.38s , +18d 01m 56.7s) | C | 180 | 19.5 | Coadd 37593 | 2020-01-06 02:50:28 | MASTER-IAC | (07h 45m 17.82s , +18d 07m 22.2s) | C | 60 | 18.4 | 37593 | 2020-01-06 02:50:28 | MASTER-IAC | (07h 53m 54.39s , +18d 03m 43.1s) | C | 60 | 18.7 | 37723 | 2020-01-06 02:52:38 | MASTER-IAC | (07h 53m 48.09s , +18d 02m 54.1s) | C | 60 | 18.7 | 37724 | 2020-01-06 02:52:39 | MASTER-IAC | (07h 45m 11.61s , +18d 06m 33.1s) | C | 60 | 18.6 | 37859 | 2020-01-06 02:54:54 | MASTER-IAC | (07h 56m 53.70s , +16d 07m 54.9s) | C | 60 | 18.4 | 37919 | 2020-01-06 02:54:54 | MASTER-IAC | (07h 56m 53.70s , +16d 07m 54.9s) | C | 180 | 19.2 | Coadd 37860 | 2020-01-06 02:54:55 | MASTER-IAC | (08h 05m 24.41s , +16d 04m 15.8s) | C | 60 | 18.8 | 37920 | 2020-01-06 02:54:55 | MASTER-IAC | (08h 05m 24.41s , +16d 04m 15.9s) | C | 180 | 19.5 | Coadd 37994 | 2020-01-06 02:57:10 | MASTER-IAC | (07h 57m 01.01s , +16d 06m 54.6s) | C | 60 | 18.4 | 37996 | 2020-01-06 02:57:12 | MASTER-IAC | (08h 05m 31.69s , +16d 03m 15.2s) | C | 60 | 18.9 | 38125 | 2020-01-06 02:59:20 | MASTER-IAC | (08h 05m 25.72s , +16d 02m 13.9s) | C | 60 | 18.8 | 38125 | 2020-01-06 02:59:20 | MASTER-IAC | (07h 56m 55.18s , +16d 05m 53.2s) | C | 60 | 18.5 | 38227 | 2020-01-06 03:01:02 | MASTER-Kislovodsk | (16h 20m 20.74s , +08d 10m 52.4s) | C | 60 | 18.3 | 38227 | 2020-01-06 03:01:02 | MASTER-Kislovodsk | (16h 28m 53.23s , +07d 43m 16.2s) | C | 60 | 18.7 | 38321 | 2020-01-06 03:02:37 | MASTER-Kislovodsk | (16h 20m 26.61s , +08d 09m 49.8s) | C | 60 | 18.6 | 38321 | 2020-01-06 03:02:37 | MASTER-Kislovodsk | (16h 28m 59.08s , +07d 42m 13.0s) | C | 60 | 18.8 | 38474 | 2020-01-06 03:05:09 | MASTER-Kislovodsk | (16h 40m 38.08s , +14d 08m 16.0s) | C | 60 | 18.5 | 38474 | 2020-01-06 03:05:09 | MASTER-Kislovodsk | (16h 49m 20.99s , +13d 40m 37.6s) | C | 60 | 18.7 | 38576 | 2020-01-06 03:06:51 | MASTER-Kislovodsk | (16h 16m 14.51s , +06d 09m 09.9s) | C | 60 | 18.5 | 38576 | 2020-01-06 03:06:51 | MASTER-Kislovodsk | (16h 24m 44.68s , +05d 41m 34.8s) | C | 60 | 18.7 | 38667 | 2020-01-06 03:08:23 | MASTER-Kislovodsk | (16h 19m 49.20s , +01d 43m 08.4s) | C | 60 | 18.6 | 38667 | 2020-01-06 03:08:23 | MASTER-Kislovodsk | (16h 11m 22.25s , +02d 10m 46.3s) | C | 60 | 18.4 | 38759 | 2020-01-06 03:09:54 | MASTER-Kislovodsk | (15h 54m 45.25s , +00d 09m 34.2s) | C | 60 | 18.6 | 38819 | 2020-01-06 03:09:54 | MASTER-Kislovodsk | (15h 54m 45.24s , +00d 09m 34.3s) | C | 180 | 19.0 | Coadd 38759 | 2020-01-06 03:09:54 | MASTER-Kislovodsk | (16h 03m 12.55s , -00d 18m 00.2s) | C | 60 | 18.9 | 38850 | 2020-01-06 03:11:25 | MASTER-

Kislovodsk | (16h 10m 47.95s , +00d 11m 14.4s) | C | 60 | 18.3 | 38850 | 2020-01-06 03:11:25 | MASTER-Kislovodsk | (16h 19m 14.24s , -00d 16m 25.7s) | C | 60 | 18.4 | 38947 | 2020-01-06 03:13:03 | MASTER-Kislovodsk | (16h 00m 02.96s , +06d 10m 20.1s) | C | 60 | 18.4 | 38947 | 2020-01-06 03:13:03 | MASTER-Kislovodsk | (16h 08m 34.53s , +05d 42m 49.5s) | C | 60 | 18.5 | 39043 | 2020-01-06 03:14:38 | MASTER-Kislovodsk | (16h 13m 08.45s , +04d 11m 08.9s) | C | 60 | 18.2 | 39043 | 2020-01-06 03:14:38 | MASTER-Kislovodsk | (16h 21m 37.11s , +03d 43m 32.5s) | C | 60 | 18.4 | 39170 | 2020-01-06 03:16:45 | MASTER-Kislovodsk | (15h 54m 48.58s , +00d 10m 39.0s) | C | 60 | 18.2 | 39266 | 2020-01-06 03:18:21 | MASTER-Kislovodsk | (15h 54m 43.50s , +00d 09m 40.3s) | C | 60 | 18.1 | 39266 | 2020-01-06 03:18:21 | MASTER-Kislovodsk | (16h 03m 11.30s , -00d 17m 52.8s) | C | 60 | 18.5 | 39357 | 2020-01-06 03:19:52 | MASTER-Kislovodsk | (16h 03m 16.46s , -00d 17m 30.8s) | C | 60 | 18.2 | 39357 | 2020-01-06 03:19:52 | MASTER-Kislovodsk | (15h 54m 48.51s , +00d 10m 02.8s) | C | 60 | 17.8 | 39450 | 2020-01-06 03:21:25 | MASTER-Kislovodsk | (16h 10m 46.31s , +00d 10m 58.5s) | C | 60 | 17.4 | 39450 | 2020-01-06 03:21:25 | MASTER-Kislovodsk | (16h 19m 13.35s , -00d 16m 40.2s) | C | 60 | 17.8 | 39541 | 2020-01-06 03:22:57 | MASTER-Kislovodsk | (16h 10m 46.36s , +00d 09m 31.7s) | C | 60 | 17.5 | 39647 | 2020-01-06 03:24:43 | MASTER-Kislovodsk | (16h 10m 48.23s , +00d 11m 02.3s) | C | 60 | 17.6 | 39647 | 2020-01-06 03:24:43 | MASTER-Kislovodsk | (16h 19m 15.49s , -00d 16m 34.9s) | C | 60 | 17.8 | 39749 | 2020-01-06 03:26:25 | MASTER-Kislovodsk | (16h 00m 02.89s , +06d 10m 31.8s) | C | 60 | 17.9 | 39809 | 2020-01-06 03:26:25 | MASTER-Kislovodsk | (16h 00m 02.89s , +06d 10m 32.1s) | C | 180 | 18.7 | Coadd 39749 | 2020-01-06 03:26:25 | MASTER-Kislovodsk | (16h 08m 35.38s , +05d 43m 04.8s) | C | 60 | 18.0 | 39809 | 2020-01-06 03:26:25 | MASTER-Kislovodsk | (16h 08m 35.39s , +05d 43m 04.8s) | C | 180 | 18.7 | Coadd 39841 | 2020-01-06 03:27:57 | MASTER-Kislovodsk | (16h 00m 03.96s , +06d 11m 33.5s) | C | 60 | 18.0 | 39841 | 2020-01-06 03:27:57 | MASTER-Kislovodsk | (16h 08m 36.58s , +05d 44m 07.5s) | C | 60 | 18.0 | 39945 | 2020-01-06 03:29:40 | MASTER-Kislovodsk | (16h 08m 42.78s , +05d 43m 09.8s) | C | 60 | 18.0 | 40037 | 2020-01-06 03:31:13 | MASTER-Kislovodsk | (16h 13m 08.67s , +04d 09m 24.4s) | C | 60 | 17.8 | 40037 | 2020-01-06 03:31:13 | MASTER-Kislovodsk | (16h 21m 38.49s , +03d 41m 54.8s) | C | 60 | 17.8 | 40133 | 2020-01-06 03:32:48 | MASTER-Kislovodsk | (15h 54m 49.17s , +00d 10m 21.6s) | C | 60 | 18.0 | 40133 | 2020-01-06 03:32:48 | MASTER-Kislovodsk | (16h 03m 18.01s , -00d 17m 05.8s) | C | 60 | 18.0 | 40236 | 2020-01-06 03:34:31 | MASTER-Kislovodsk | (16h 10m 46.51s , +00d 11m 29.1s) | C | 60 | 17.6 | 40236 | 2020-01-06 03:34:31 | MASTER-Kislovodsk | (16h 19m 14.40s , -00d 16m 03.1s) | C | 60 | 17.6 | 40328 | 2020-01-06 03:36:04 | MASTER-Kislovodsk | (16h 00m 05.98s , +06d 09m 53.5s) | C | 60 | 17.8 | 40328 | 2020-01-06 03:36:04 | MASTER-Kislovodsk | (16h 08m 39.12s , +05d 42m 29.9s) | C | 60 | 17.7 | 40427 | 2020-01-06 03:37:43 | MASTER-Kislovodsk | (16h 13m 14.39s , +04d 11m 09.9s) | C | 60 | 17.5 | 40427 | 2020-01-06 03:37:43 | MASTER-Kislovodsk | (16h 21m 44.71s , +03d 43m 41.5s) | C | 60 | 17.6 | 81088 | 2020-01-06 14:55:24 | MASTER-Kislovodsk | (19h 12m 01.79s , +04d 56m 29.8s) | C | 60 | 15.5 | 81088 | 2020-01-06 14:55:24 | MASTER-Kislovodsk | (19h 09m 29.90s , +05d 22m 35.9s) | C | 60 | 15.6 | 87907 | 2020-01-06 16:49:03 | MASTER-Tunka | (07h 52m 49.70s , +23d 56m 42.3s) | C | 60 | 18.3 | 88000 | 2020-01-06 16:50:36 | MASTER-Tunka | (08h 18m 24.30s , +25d 56m 02.6s) | C | 60 | 18.3 | 94710 | 2020-01-06 18:42:10 | MASTER-Kislovodsk | (05h 14m 06.11s , +12d 15m 51.4s) | C | 90 | 17.0 | 94710 | 2020-01-06 18:42:10 | MASTER-Kislovodsk | (05h 22m 48.50s , +11d 48m 44.6s) | C | 90 | 17.3 | 94835 | 2020-01-06 18:42:10 | MASTER-Kislovodsk | (05h 22m 48.50s , +11d 48m 44.5s) | C | 340 | 18.3 | Coadd 94713 | 2020-01-06 18:42:13 | MASTER-SAAO | (05h 18m 49.10s , +12d 11m 33.3s) | C | 90 | 17.4 | 94831 | 2020-01-06 18:44:01 | MASTER-Kislovodsk | (05h 13m 58.35s , +12d 16m 39.1s) | C | 110 | 17.3 | 94831 | 2020-01-06 18:44:01 | MASTER-Kislovodsk | (05h 22m 46.99s , +11d 49m 42.3s) | C | 110 | 17.9 | 94834 | 2020-01-06 18:44:05 | MASTER-SAAO | (05h 18m 52.95s , +12d 11m 36.1s) | C | 110 | 17.2 | 94976 | 2020-01-06 18:46:12 | MASTER-Kislovodsk | (05h 14m 03.78s , +12d 15m 31.0s) | C | 140 | 17.2 | 94976 | 2020-01-06 18:46:12 | MASTER-Kislovodsk | (05h 22m 53.38s , +11d 48m 37.3s) | C | 140 | 17.9 | 94981 | 2020-01-06 18:46:16 | MASTER-SAAO | (05h 18m 45.88s , +12d 10m 37.3s) | C | 140 | 17.7 | 95158 | 2020-01-06 18:48:58 | MASTER-SAAO | (05h 18m 52.30s , +12d 10m 58.6s) | C | 170 | 17.8 | 95348 | 2020-01-06 18:52:04 | MASTER-Kislovodsk | (05h 37m 56.66s , +01d 23m 14.3s) | C | 180 | 17.6 | 95348 | 2020-01-06 18:52:04 | MASTER-Kislovodsk | (05h 46m 31.36s , +00d 56m 25.5s) | C | 180 | 18.3 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 599954133: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26639, p. 1

MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200105.91 (trigger No 599954133,21h 19m 07.92s , -35d 37m 01.2s, R=25.9) errorbox 293 sec after notice time and 348 sec after trigger time at 2020-01-05 22:01:17 UT, with upper limit up to 12.1 mag. The observations began at zenith distance = 75 deg. The sun altitude is -34.4 deg. MASTER-Tunka robotic telescope located in Russia (Applied Physics Institute, Irkutsk State University) started inspect of the Fermi GRB200105.91 errorbox 293 sec after notice time and 44970 sec after trigger time at 2020-01-06 10:24:59 UT, with upper limit up to 16.7 mag. Observations started at twilight. The observations began at zenith distance = 68 deg. The sun altitude is -10.3 deg. The galactic latitude b = -45 deg., longitude l = 9 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1250695 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 378 | 2020-01-05 22:01:17 | MASTER-SAAO | (23h 12m 49.52s , -52d 06m 53.1s) | C | 60 | 12.1 | 45001 | 2020-01-06 10:24:59 | MASTER-Tunka | (22h 20m 46.93s , -12d 13m 08.7s) | C | 60 | 15.6 | 45128 | 2020-01-06 10:27:06 | MASTER-Tunka | (22h 15m 09.86s , -14d 11m 13.6s) | C | 60 | 15.8 | 45219 | 2020-01-06 10:28:37 | MASTER-Tunka | (22h 20m 48.08s , -12d 13m 08.5s) | C | 60 | 16.2 | 45309 | 2020-01-06 10:30:07 | MASTER-Tunka | (22h 20m 50.59s , -12d 11m 37.2s) | C | 60 | 16.3 | 45493 | 2020-01-06 10:33:11 | MASTER-Tunka | (22h 15m 05.05s , -14d 11m 19.1s) | C | 60 | 16.3 | 45584 | 2020-01-06 10:34:43 | MASTER-Tunka | (22h 23m 26.07s , -14d 12m 15.3s) | C | 60 | 16.7 | 45676 | 2020-01-06 10:36:14 | MASTER-Tunka | (22h 31m 40.66s , -14d 13m 14.8s) | C | 60 | 16.6 | 45767 | 2020-01-06 10:37:45 | MASTER-Tunka | (22h 31m 37.84s , -14d 11m 22.8s) | C | 60 | 16.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 599761015: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26636, p. 1

MASTER-Kislovodsk robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Lomonosov MSU, Kislovodsk Solar Station of Pulkovo observatory) started inspect of the Fermi GRB200103.68 (trigger No 599761015,23h 14m 52.08s , -48d 01m 01.2s, R=29.2) errorbox 225 sec after notice time and 257 sec after trigger time at 2020-01-03 16:21:07 UT, with upper limit up to 17.9 mag. The observations began at zenith distance = 77 deg. The sun altitude is -27.1 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200103.68 errorbox 225 sec after notice time and 8820 sec after trigger time at 2020-01-03 18:43:50 UT, with upper limit up to 19.1 mag. Observations started at twilight. The observations began at zenith distance = 29 deg. The sun altitude is -10.8 deg. The galactic latitude b = -62 deg., longitude l = 338 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1248534 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 288 | 2020-01-03 16:21:07 | MASTER-Kislovodsk | (01h 42m 07.05s , -33d 58m 37.0s) | C | 60 | 17.0 | 288 | 2020-01-03 16:21:07 | MASTER-Kislovodsk | (01h 32m 24.13s , -33d 32m 37.2s) | C | 60 | 17.9 | 382 | 2020-01-03 16:22:42 | MASTER-Kislovodsk | (01h 42m 13.11s , -33d 58m 23.6s) | C | 60 | 16.9 | 382 | 2020-01-03 16:22:42 | MASTER-Kislovodsk | (01h 32m 30.78s , -33d 32m 25.0s) | C | 60 | 17.2 | 901 | 2020-01-03 16:31:20 | MASTER-Kislovodsk | (01h 42m 09.54s , -33d 56m 20.8s) | C | 60 | 16.3 | 901 | 2020-01-03 16:31:20 | MASTER-Kislovodsk | (01h 32m 24.56s , -33d 30m 05.4s) | C | 60 | 14.6 | 1027 | 2020-01-03 16:33:26 | MASTER-Kislovodsk | (01h 42m 16.80s , -33d 57m 28.1s) | C | 60 | 15.3 | 1027 | 2020-01-03 16:33:26 | MASTER-Kislovodsk | (01h 32m 32.10s , -33d 31m 13.8s) | C | 60 | 14.6 | 8851 | 2020-01-03 18:43:50 | MASTER-SAAO | (01h 11m 14.63s , -54d 00m 19.6s) | C | 60 | 17.7 | 8949 | 2020-01-03 18:45:28 | MASTER-SAAO | (01h 07m 59.30s , -52d 01m 30.6s) | C | 60 | 18.2 | 9048 | 2020-01-03 18:47:07 | MASTER-SAAO | (00h 43m 54.95s , -54d 02m 07.8s) | C | 60 | 17.8 | 9146 | 2020-01-03 18:48:45 | MASTER-SAAO | (01h 14m 48.09s , -56d 00m 20.1s) | C | 60 | 18.0 | 9245 | 2020-01-03 18:50:25 | MASTER-SAAO | (01h 11m 08.52s , -53d 59m 32.6s) | C | 60 | 18.2 | 9341 | 2020-01-03 18:52:01 | MASTER-SAAO | (01h 24m 52.23s , -54d 00m 06.0s) | C | 60 | 18.2 | 9438 | 2020-01-03 18:53:37 | MASTER-SAAO | (01h 07m 52.77s , -52d 01m 46.9s) | C | 60 | 18.7 | 9535 | 2020-01-03 18:55:14 | MASTER-SAAO | (01h 21m 00.06s , -52d 00m 52.4s) | C | 60 | 19.1 | 9633 | 2020-01-03 18:56:53 | MASTER-SAAO | (00h 43m 55.00s , -54d 00m 48.4s) | C | 60 | 18.5 | 9729 | 2020-01-03 18:58:29 | MASTER-SAAO | (00h 57m 32.80s , -54d 02m 12.5s) | C | 60 | 18.6 | 9828 | 2020-01-03 19:00:07 | MASTER-SAAO | (01h 14m 53.68s , -55d 59m 41.1s) | C | 60 | 18.5 | 9932 | 2020-01-03 19:01:51 | MASTER-SAAO | (01h 29m 08.23s , -56d 00m 10.8s) | C | 60 | 18.5 | 10030 | 2020-01-03 19:03:30 | MASTER-SAAO | (01h 24m 45.54s , -53d 59m 24.7s) | C | 60 | 18.6 | 10129 | 2020-01-03 19:05:09 | MASTER-SAAO | (01h 20m 59.18s , -52d 00m 37.0s) | C | 60 | 19.1 | 10226 | 2020-01-03 19:06:46 | MASTER-SAAO | (00h 57m 29.95s , -54d 02m 28.3s) | C | 60 | 18.8 | 10323 | 2020-01-03 19:08:23 | MASTER-SAAO | (01h 29m 14.04s , -56d 00m 58.1s) | C | 60 | 18.6 | 10421 | 2020-01-03 19:10:01 | MASTER-SAAO | (00h 46m 11.27s , -56d 02m 46.1s) | C | 60 | 18.6 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. IceCube Alert 200101.46: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26629, p. 1

MASTER-Amur robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in Russia (Blagoveshchensk State Pedagogical University) started inspect of the IceCube Alert 200101.46 (03h 05m 26.38s , +20d 25m 12.0s, R=1.7199) errorbox 14595 sec after trigger time at 2020-01-01 15:03:21 UT, with upper limit up to 17.8 mag. The observations began at zenith distance = 48 deg. The sun altitude is -62.4 deg. MASTER-SAAO robotic telescope located in South Africa (South African Astronomical Observatory) started inspect of the IceCube Alert 200101.46 errorbox 27715 sec after trigger time at 2020-01-01 18:42:01 UT, with upper limit up to 19.1 mag. Observations started at twilight. The observations began at zenith distance = 51 deg. The sun altitude is -10.5 deg. MASTER-IAC robotic telescope located in Spain (IAC Teide Observatory) started inspect of the IceCube Alert 200101.46 errorbox 38951 sec after trigger time at 2020-01-01 21:49:17 UT, with upper limit up to 19.6 mag. The observations began at zenith distance = 10 deg. The sun altitude is -45.6 deg. MASTER-Tavrida robotic telescope located in Russia (Lomonosov MSU, SAI Crimea astronomical station) started inspect of the IceCube Alert 200101.46 errorbox 7 sec after notice time and 40057 sec after trigger time at 2020-01-01 22:07:44 UT, with upper limit up to 18.9 mag. The observations began at zenith distance = 56 deg. The sun altitude is -68.6 deg. MASTER-OAFA robotic telescope located in Argentina (OAFA observatory of San Juan National University) started inspect of the IceCube Alert 200101.46 errorbox 7 sec after notice time and 52159 sec after trigger time at 2020-01-02 01:29:25 UT, with upper limit up to 18.7 mag. The observations began at zenith distance = 51 deg. The sun altitude is -19.5 deg. The galactic latitude b = -32 deg., longitude l = 161 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1246909 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 14685 | 2020-01-01 15:03:21 | MASTER-Amur | (03h 13m 05.86s , +18d 42m 51.9s) | C | 180 | 17.4 | 15633 | 2020-01-01 15:19:08 | MASTER-Amur | (03h 13m 07.97s , +18d 41m 33.3s) | C | 180 | 17.7 | 27806 | 2020-01-01 18:42:01 | MASTER-SAAO | (03h 12m 29.60s , +18d 46m 40.2s) | C | 180 | 18.5 | 28142 | 2020-01-01 18:47:37 | MASTER-SAAO | (03h 10m 14.87s , +18d 44m 50.7s) | C | 180 | 19.0 | 38982 | 2020-01-01 21:49:17 | MASTER-IAC | (03h 16m 02.97s , +17d 58m 43.3s) | C | 60 | 18.3 | 39042 | 2020-01-01 21:49:17 | MASTER-IAC | (03h 16m 02.97s , +17d 58m 43.3s) | C | 180 | 18.8 | Coadd 39117 | 2020-01-01 21:51:33 | MASTER-IAC | (03h 16m 08.17s , +17d 59m 10.8s) | C | 60 | 18.3 | 39255 | 2020-01-01 21:53:50 | MASTER-IAC | (03h 16m 05.53s , +18d 00m 13.9s) | C | 60 | 17.5 | 39812 | 2020-01-01 22:03:08 | MASTER-IAC | (03h 07m 51.54s , +17d 56m 30.4s) | C | 60 | 18.8 | 39812 | 2020-01-01 22:03:08 | MASTER-IAC | (02h 59m 13.78s , +18d 00m 10.2s) | C | 60 | 18.5 | 39943 | 2020-01-01 22:05:19 | MASTER-IAC | (03h 07m 57.27s , +17d 55m 27.5s) | C | 60 | 18.2 | 39943 | 2020-01-01 22:05:19 | MASTER-IAC | (02h 59m 19.51s , +17d 59m 07.6s) | C | 60 | 17.8 | 40144 | 2020-01-01 22:07:39 | MASTER-IAC | (03h 04m 19.12s , +20d 21m 12.5s) | P| | 180 | 18.4 | 40324 | 2020-01-01 22:07:39 | MASTER-IAC | (03h 04m 19.12s , +20d 21m 12.5s) | P| | 540 | 19.6 | Coadd 40144 | 2020-01-01 22:07:39 | MASTER-IAC | (03h 03m 36.34s , +20d 24m 25.9s) | P- | 180 | 18.1 | 40324 | 2020-01-01 22:07:39 | MASTER-IAC | (03h 03m 36.34s , +20d 24m 26.0s) | P- | 540 | 19.4 | Coadd 40148 | 2020-01-01 22:07:44 | MASTER-Tavrida | (03h 00m 31.56s , +20d 23m 42.8s) | R | 180 | 16.6 | 40148 | 2020-01-01 22:07:44 | MASTER-SAAO | (03h 02m 25.32s , +20d 22m 54.6s) | C | 180 | 18.7 | 40348 | 2020-01-01 22:11:04 | MASTER-Tavrida | (03h 00m 31.12s , +20d 24m 25.0s) | R | 180 | 16.9 | 40349 | 2020-01-01 22:11:05 | MASTER-SAAO | (03h 02m 27.32s , +20d 22m 59.6s) | C | 180 | 19.1 | 40381 | 2020-01-01 22:11:36 | MASTER-IAC | (03h 04m 22.06s , +20d 20m 29.2s) | P| | 180 | 19.3 | 40381 | 2020-01-01 22:11:36 | MASTER-IAC | (03h 03m 39.23s , +20d 23m 43.0s) | P- | 180 | 19.0 | 40551 | 2020-01-01 22:14:26 | MASTER-Tavrida | (03h 00m 30.96s , +20d 22m 56.6s) | R | 180 | 17.3 | 40551 | 2020-01-01 22:14:27 | MASTER-SAAO | (03h 02m 21.73s , +20d 21m 58.9s) | C | 180 | 19.0 | 40623 | 2020-01-01 22:15:38 | MASTER-IAC | (03h 04m 18.94s , +20d 21m 39.8s) | P| | 180 | 19.2 | 40623 | 2020-01-01 22:15:38 | MASTER-IAC | (03h 03m 36.06s , +20d 24m 54.0s) | P- | 180 | 18.8 | 40752 | 2020-01-01 22:17:48 | MASTER-Tavrida | (03h 00m 33.98s , +20d 24m 04.6s) | R | 180 | 17.5 | 40753 | 2020-01-01 22:17:48 | MASTER-SAAO | (03h 02m 27.18s , +20d 22m 25.0s) | C | 180 | 19.0 | 40864 | 2020-01-01 22:19:40 | MASTER-IAC | (02h 55m 32.29s , +21d 55m 37.0s) | P| | 180 | 19.6 | 40904 | 2020-01-01 22:21:20 | MASTER-Tavrida | (02h 58m 04.94s , +19d 59m 15.7s) | C | 60 | 18.9 | 40997 | 2020-01-01 22:22:52 | MASTER-Tavrida | (02h 58m 11.07s , +19d 58m 14.5s) | C | 60 | 18.7 | 41062 | 2020-01-01 22:23:58 | MASTER-IAC | (03h 06m 35.77s , +23d 59m 10.7s) | C | 60 | 18.5 | 41090 | 2020-01-01 22:24:25 | MASTER-Tavrida | (03h 00m 34.06s , +21d 57m 29.7s) | C | 60 | 18.3 | 41742 | 2020-01-01 22:35:17 | MASTER-IAC | (03h 16m 05.37s , +18d 00m 02.0s) | C | 60 | 19.0 | 41877 | 2020-01-01 22:37:32 | MASTER-IAC | (02h 55m 28.27s , +21d 54m 08.9s) | C | 60 | 19.1 | 44614 | 2020-01-01 23:23:10 | MASTER-IAC | (03h 01m 28.20s , +19d 58m 41.3s) | C | 60 | 16.1 | 44614 | 2020-01-01 23:23:10 | MASTER-IAC | (03h 10m 12.58s , +19d 54m 50.1s) | C | 60 | 16.2 | 44746 | 2020-01-01 23:25:22 | MASTER-IAC | (03h 03m 47.35s , +21d 57m 42.8s) | C | 60 | 15.4 | 44746 | 2020-01-01 23:25:22 | MASTER-IAC | (03h 12m 38.88s , +21d 53m 49.8s) | C | 60 | 15.6 | 45029 | 2020-01-01 23:30:05 | MASTER-IAC | (02h 59m 14.09s , +17d 59m 27.3s) | C | 60 | 13.8 | 45029 | 2020-01-01 23:30:05 | MASTER-IAC | (03h 07m 51.98s , +17d 55m 33.7s) | C | 60 | 13.7 | 45164 | 2020-01-01 23:32:19 | MASTER-IAC | (03h 06m 36.32s , +23d 58m 09.9s) | C | 60 | 12.1 | 50747 | 2020-01-02 01:05:23 | MASTER-IAC | (03h 16m 04.02s , +17d 58m 53.7s) | C | 60 | 18.2 | 50878 | 2020-01-02 01:07:33 | MASTER-IAC | (03h 16m 03.88s , +17d 57m 19.2s) | C | 60 | 18.9 | 51167 | 2020-01-02 01:12:22 | MASTER-IAC | (03h 01m 23.04s , +19d 57m 39.4s) | C | 60 | 19.0 | 51167 | 2020-01-02 01:12:22 | MASTER-IAC | (03h 10m 02.96s , +19d 53m 49.8s) | C | 60 | 19.3 | 51310 | 2020-01-02 01:14:45 | MASTER-IAC | (03h 12m 36.96s , +21d 54m 50.3s) | C | 60 | 19.3 | 51310 | 2020-01-02 01:14:45 | MASTER-IAC | (03h 03m 49.80s , +21d 58m 40.4s) | C | 60 | 18.9 | 52190 | 2020-01-02 01:29:25 | MASTER-OAFA | (03h 00m 34.15s , +19d 09m 45.7s) | C | 60 | 18.7 | 60948 | 2020-01-02 03:55:23 | MASTER-OAFA | (03h 08m 50.61s , +20d 39m 03.5s) | C | 60 | 18.3 | 79019 | 2020-01-02 08:56:34 | MASTER-Amur | (03h 03m 39.58s , +20d 06m 47.9s) | C | 60 | 17.6 | 79109 | 2020-01-02 08:58:05 | MASTER-Amur | (03h 06m 10.67s , +22d 05m 57.1s) | C | 60 | 17.5 | 79200 | 2020-01-02 08:59:36 | MASTER-Amur | (03h 01m 25.81s , +18d 06m 15.8s) | C | 60 | 17.6 | 79383 | 2020-01-02 09:02:39 | MASTER-Amur | (03h 03m 33.96s , +20d 07m 46.7s) | C | 60 | 17.7 | 79473 | 2020-01-02 09:04:09 | MASTER-Amur | (03h 12m 10.83s , +20d 06m 36.9s) | C | 60 | 17.7 | 79565 | 2020-01-02 09:05:41 | MASTER-Amur | (03h 06m 05.01s , +22d 05m 41.2s) | C | 60 | 17.6 | 79656 | 2020-01-02 09:07:11 | MASTER-Amur | (03h 14m 47.97s , +22d 05m 50.7s) | C | 60 | 17.6 | 80342 | 2020-01-02 09:18:37 | MASTER-Amur | (03h 01m 24.35s , +18d 07m 12.6s) | C | 60 | 17.7 | 80433 | 2020-01-02 09:20:08 | MASTER-Amur | (03h 09m 48.25s , +18d 08m 01.7s) | C | 60 | 17.6 | 80615 | 2020-01-02 09:23:10 | MASTER-Amur | (02h 57m 28.55s , +22d 06m 06.3s) | C | 60 | 17.8 | 80923 | 2020-01-02 09:28:19 | MASTER-Amur | (03h 12m 10.76s , +20d 07m 38.2s) | C | 60 | 17.8 | 81013 | 2020-01-02 09:29:49 | MASTER-Amur | (03h 14m 46.76s , +22d 06m 01.1s) | C | 60 | 17.7 | 81103 | 2020-01-02 09:31:19 | MASTER-Amur | (03h 09m 55.87s , +18d 08m 09.7s) | C | 60 | 17.7 | 81197 | 2020-01-02 09:32:52 | MASTER-Amur | (02h 57m 29.01s , +22d 07m 15.8s) | C | 60 | 17.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Lipunov, V., Gorbovskoy, E., Kornilov, V., Tyurina, N., Balanutsa, P., Kuznetsov, A., Balakin, F., Vladimirov, V., Vlasenko, D., et al. Fermi trigger No 599603971: Global MASTER-Net observations report // GRB Coordinates Network, 2020, V. 26626, p. 1

MASTER-SAAO robotic telescope (Global MASTER-Net: http://observ.pereplet.ru, Lipunov et al., 2010, Advances in Astronomy, vol. 2010, 30L) located in South Africa (South African Astronomical Observatory) started inspect of the Fermi GRB200101.86 (trigger No 599603971,14h 46m 19.92s , -53d 36m 00.0s, R=26.9) errorbox 6989 sec after trigger time at 2020-01-01 22:35:55 UT, with upper limit up to 19.6 mag. The observations began at zenith distance = 63 deg. The sun altitude is -35.0 deg. The galactic latitude b = 5 deg., longitude l = 320 deg. Real time updated cover map and OT discovered available here: https://master.sai.msu.ru/site/master2/observ.php?id=1246777 We obtain a following upper limits. Tmid-T0 | Date Time | Site | Coord (J2000) |Filt.| Expt. | Limit| Comment 7079 | 2020-01-01 22:35:55 | MASTER-SAAO | (15h 04m 10.41s , -81d 55m 40.0s) | C | 180 | 18.7 | 7292 | 2020-01-01 22:39:27 | MASTER-SAAO | (15h 04m 07.99s , -81d 56m 34.9s) | C | 180 | 19.1 | 7504 | 2020-01-01 22:43:00 | MASTER-SAAO | (15h 04m 16.11s , -81d 56m 14.9s) | C | 180 | 19.5 | 7718 | 2020-01-01 22:46:34 | MASTER-SAAO | (16h 01m 16.96s , -81d 57m 19.9s) | C | 180 | 19.1 | 7933 | 2020-01-01 22:50:09 | MASTER-SAAO | (15h 04m 15.79s , -81d 56m 06.2s) | C | 180 | 19.6 | 8245 | 2020-01-01 22:55:21 | MASTER-SAAO | (15h 09m 01.57s , -79d 55m 40.3s) | C | 180 | 19.5 | 8868 | 2020-01-01 23:05:44 | MASTER-SAAO | (15h 09m 00.51s , -79d 55m 57.8s) | C | 180 | 19.3 | 9083 | 2020-01-01 23:09:19 | MASTER-SAAO | (15h 54m 48.75s , -79d 56m 37.7s) | C | 180 | 19.1 | 9426 | 2020-01-01 23:16:02 | MASTER-SAAO | (15h 13m 03.91s , -77d 56m 35.1s) | C | 60 | 18.6 | 9521 | 2020-01-01 23:17:37 | MASTER-SAAO | (14h 33m 29.49s , -71d 53m 34.8s) | C | 60 | 17.7 | 9677 | 2020-01-01 23:19:12 | MASTER-SAAO | (15h 54m 48.59s , -79d 57m 51.4s) | C | 180 | 18.4 | 9887 | 2020-01-01 23:22:43 | MASTER-SAAO | (15h 54m 50.71s , -79d 56m 40.8s) | C | 180 | 18.6 | 10098 | 2020-01-01 23:26:14 | MASTER-SAAO | (15h 54m 44.03s , -79d 57m 06.1s) | C | 180 | 18.3 | 10534 | 2020-01-01 23:34:30 | MASTER-SAAO | (15h 13m 11.96s , -77d 55m 45.9s) | C | 60 | 17.3 | 10626 | 2020-01-01 23:36:02 | MASTER-SAAO | (15h 13m 08.93s , -77d 54m 32.7s) | C | 60 | 17.7 | 10716 | 2020-01-01 23:37:32 | MASTER-SAAO | (15h 13m 10.26s , -77d 55m 40.9s) | C | 60 | 17.4 | 10810 | 2020-01-01 23:39:06 | MASTER-SAAO | (15h 51m 26.09s , -77d 56m 14.5s) | C | 60 | 16.7 | 10900 | 2020-01-01 23:40:36 | MASTER-SAAO | (15h 51m 20.76s , -77d 56m 50.1s) | C | 60 | 17.0 | 10991 | 2020-01-01 23:42:06 | MASTER-SAAO | (15h 51m 19.90s , -77d 55m 47.2s) | C | 60 | 16.5 | 11087 | 2020-01-01 23:43:43 | MASTER-SAAO | (14h 33m 36.75s , -71d 53m 47.2s) | C | 60 | 15.5 | 11179 | 2020-01-01 23:45:15 | MASTER-SAAO | (14h 33m 32.03s , -71d 54m 46.5s) | C | 60 | 15.7 | Filter C is a clear (unfiltred) band. The observation and reduction will continue. The message may be cited.

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Boriskin, I., Chuykov, N., Shumkov, V., Lipunov, V., Podesta, R., Lopez, C., Podesta, F., Francile, C., Levato, H., et al. MASTER: short OT discovery // The Astronomer's Telegram, 2020, V. 13420, p. 1
MASTER-OAFA auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 06h 46m 30.14s -54d 57m 13.9s on 2020-01-24.14708 UT. There are 4 images of these coordinates during MASTER own survey at this night (UT): 2020-01-24 03:16:46(+180s) mlim=19.9 2020-01-24 03:28:06(+180s) mlim=19.8 2020-01-24 03:31:48(+180s) m_OT=19.1 (mlim=19.9) 2020-01-24 03:50:40(+180s) m_OT=17.5 (mlim=19.9) MASTER strategy of survey excludes particles (shifted CCD images) We also have reference image on 2017-01-29.20196 UT with unfiltered mlim= 19.8m.

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Gress, O., Lipunov, V., Podesta, R., Lopez, C., Podesta, F., Francile, C., Levato, H., Gorbovskoy, E., Kornilov, V., et al. MASTER-OAFA: SN in S0 PGC130509 and new OT at the earliest stage of the outburst // The Astronomer's Telegram, 2020, V. 13419, p. 1
MASTER-OAFA auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 05h 06m 05.96s -47d 13m 43.0s on 2020-01-23.17579 UT. OT unfiltered magnitude is 17.5m (mlim=20.1).

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Balanutsa, P., Pogrosheva, T., Lipunov, V., Gorbovskoy, E., Kornilov, V., Tiurina, N., Kuznetsov, A., Chazov, V., Vladimirov, V., et al. MASTER: four OT detection // The Astronomer's Telegram, 2020, V. 13414, p. 1
MASTER-Kislovodsk auto-detection system discovered OT source at (RA, Dec) = 08h 36m 40.25s -04d 13m 06.4s on 2020-01-03.94150 UT. The OT unfiltered magnitude is 18.3m (limit 19.5m).

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Lipunov, V., Buckley, D., Gorbovskoy, E., Kornilov, V., Tiurina, N., Gress, O., Gorbunov, I., Kuznetsov, A., Vladimirov, V., et al. MASTER OT J070737.66-834306.1 discovery : optical counterpart of GRB 200107B // The Astronomer's Telegram, 2020, V. 13390, p. 1
AT 2020oj MASTER GCN 26658, GCN 26660 MASTER-SAAO auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered gamma-ray burst optical counterpart at (RA, Dec) = 07h 07m 37.66s -83d 43m 06.1s on 2020-01-07.83383 UT (Lipunov et al. GCN 26658, GCN 26660) during MASTER alert observations https://master.sai.msu.ru/site/master2/event.php?id=1253639 of Fermi GBM (GCN 26659) and Swift (GCN 26661) GRB 200107.81/GRB 200107B . This OT is inside 21.3arcsec of Swift XRT error-box (Bernardini et al. GCN 26661) The OT changes, for example unfiltered magnitude m=17.3m at 2020-01-07.83383UT, m=17.9 at 2020-01-07.84459 UT. The OT is seen in 16 images.

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Pogrosheva, T., Lipunov, V., Rebolo, R., Serra, M., Gorbovskoy, E., Buckley, D., Gress, O., Kornilov, V., Tiurina, N., et al. MASTER-IAC: new OT with ampl>6m // The Astronomer's Telegram, 2020, V. 13383, p. 1
AT2020ae MASTER-IAC auto-detection system (Lipunov et al., "MASTER Global Robotic Net", Advances in Astronomy, 2010, 30L) discovered OT source at (RA, Dec) = 07h 18m 45.44s +19d 44m 39.4s on 2020-01-01.06525 UT. The OT unfiltered magnitude is 16.5m(mlim=19.6).

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