



UvA-DARE (Digital Academic Repository)

Report on (non-)activity in the Galactic bulge region as seen by INTEGRAL

Kuulkers, E.; Chevez, J.; Wijnands, R.; Alfonso-Garzon, J.; Beckmann, V.; Bird, A.J.; Brandt, S.; Courvoisier, T.J.L.; Del Santo, M.; Domingo, A.; Ebisawa, K.; Jonker, P.G.; Kretschmar, P.; Markwardt, C.B.; Oosterbroek, T.; Paizis, A.; Pottschmidt, K.; Sanchez-Fernandez, C.

Published in:
The astronomer's telegram

[Link to publication](#)

Citation for published version (APA):

Kuulkers, E., Chevez, J., Wijnands, R., Alfonso-Garzon, J., Beckmann, V., Bird, A. J., Brandt, S., Courvoisier, T. J. L., Del Santo, M., Domingo, A., Ebisawa, K., Jonker, P. G., Kretschmar, P., Markwardt, C. B., Oosterbroek, T., Paizis, A., Pottschmidt, K., & Sanchez-Fernandez, C. (2013). Report on (non-)activity in the Galactic bulge region as seen by INTEGRAL. *The astronomer's telegram*, 5332.
<http://www.astronomerstelegram.org/?read=5332>

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

UvA-DARE is a service provided by the library of the University of Amsterdam (<http://dare.uva.nl>)

Outside
 GCN
 IAUCs

Other
 ATel on [Twitter](#) and [Facebook](#)
 ATELstream
 ATel Community Site
 MacOS: [Dashboard Widget](#)

This space for free for your conference.

IAU Symposium 305
 Polarimetry: From the Sun to Stars and Stellar Environments
 Costa Rica
 Nov 30-Dec 5 2014

[[Previous](#) | [Next](#) | [ADS](#)]

Report on (non-)activity in the Galactic bulge region as seen by INTEGRAL

ATel #5332; *E. Kuulkers (ESA/ESAC, Spain), J. Chenevez (DTU Space, Denmark), R. Wijnands (UvA, The Netherlands), J. Alfonso-Garzon (CAB/INTA-CSIC, Spain), V. Beckmann (APC, France), A. J. Bird (Southampton, UK), S. Brandt (DTU Space, Denmark), T. J.-L. Courvoisier (ISDC, Switzerland), M. Del Santo (INAF/IAPS Roma, Italy), A. Domingo (CAB/INTA-CSIC, Spain), K. Ebisawa (U of Tokyo, JAXA/ISAS, Japan), P. G. Jonker (SRON/CfA/RU), P. Kretschmar (ESA/ESAC, Spain), C. B. Markwardt (NASA/GSFC, USA), T. Oosterbroek (ESA/ESTEC, The Netherlands), A. Paizis (INAF-IASF Milano, Italy), K. Pottschmidt (CRESST/UMBC, NASA/GSFC, USA) & C. Sanchez-Fernandez (ESA/ESAC, Spain)*

on 28 Aug 2013; 09:13 UT

Credential Certification: Erik Kuulkers (ekuulker@rssi.esa.int)

Subjects: X-ray, Binary, Black Hole, Neutron Star, Transient, Variables, Pulsar



We report on observations on (UT) 25 August 2013 04:42-08:23 as part of a new season of our INTEGRAL Galactic bulge monitoring (see ATel #438).

The neutron-star X-ray transient GRS 1741-2853, in X-ray outburst from the beginning of August 2013 (ATel #5246), is still active within the JEM-X instruments with fluxes of 16 \pm 3 mCrab (3-10 keV) and 7 \pm 3 (10-25 keV). The IBIS/ISGRI hard X-ray 3-sigma flux limits are about 4 mCrab (18-40 keV) and 10 mCrab (40-100 keV). A Type I X-ray burst from GRS 1741-2853 was recorded at UT 06:47:23.

The new outburst of the black hole X-ray transient H1732-322 (ATel #5241) is clearly seen by both JEM-X and IBIS/ISGRI at fluxes of 75 \pm 5 mCrab (3-10 keV), 43 \pm 4 mCrab (10-25 keV), 34 \pm 2 mCrab (18-40 keV), and 34 \pm 2 mCrab (40-100 keV).

The recently active (ATels #5222, #5226, #5246) neutron-star X-ray transient AX J1745.6-2901 (or Swift J174535.5-2901, CXOGC J174535.6-290133, see, e.g., ATels #753, #1513) is seen by JEM-X at flux levels of 20 \pm 5 mCrab (3-10 keV) and 12 \pm 4 mCrab (10-25 keV). We do not see the recently active magnetar SGR J1745-29 with JEM-X, about 1.5 arcmin from AX J1745.6-2901 (e.g. ATels #5006, #5008, #5009), with 6-sigma upper limits of about 6 mCrab (3-10 keV) and 4 mCrab (10-25 keV). The IBIS/ISGRI fluxes from the direction of both sources is about 6 \pm 1.5 mCrab in the 18-40 keV band, with a detection significance of 4.4.

IBIS/ISGRI does not detect the recently active neutron-star X-ray transients 1A 1744-361 (ATel #5301) and XTE J1709-267 (ATel #5319) in hard X-rays, with upper limits of about 7 mCrab (18-40 keV) and 10 mCrab (40-100 keV).

The neutron-star X-ray transient KS 1741-293, which started its outburst about half a year ago (see ATel #4840), is now below the IBIS/ISGRI and JEM-X detection limits. The JEM-X 6-sigma upper limits are about 6 mCrab (3-10 keV) and 4 mCrab (10-25 keV); the IBIS/ISGRI 3-

Related

- 6227 [Outburst Ephemeris for the Supergiant Fast X-ray Transient IGR J17544-2619](#)
- 6173 [New bright outburst of the SFXT IGR J17544-2619 observed by Swift](#)
- 6083 [Sgr A* at 22 GHz around the G2 peri-center passing with Japanese VLBI Network](#)
- 6004 [Progress Report of the Monitor of Sgr A* with Japanese VLBI Network at 22 GHz until 2014/76](#)
- 5861 [Continued Swift/XRT monitoring observations of the Galactic center](#)
- 5847 [Swift/XRT observations of the Galactic center have resumed](#)
- 5398 [Swift observations of a new outburst of the SFXT IGR 16418-4532](#)
- 5388 [Swift observations of a new outburst of the SFXT IGR J17544-2619](#)
- 5332 [Report on \(non-\)activity in the Galactic bulge region as seen by INTEGRAL](#)
- 5319 [MAXI/GSC detection of a new X-ray outburst from RX J1709.5-2639\(=XTE J1709-267\)](#)
- 5301 [A new outburst from LMXB 1A 1744-361](#)
- 5254 [Swift detection of a third burst from SGR J1745-29](#)
- 5246 [Swift/XRT detects activity of the Galactic center transient GRS 1741-2853](#)
- 5241 [MAXI/GSC detection of a renewed outburst from the black hole candidate H 1743-322](#)
- 5226 [New Swift/XRT observations confirm that the active Galactic center transient is AX J1745.6-2901](#)
- 5222 [Swift/XRT monitoring observations detect an active X-ray transient near the Galactic center](#)
- 5190 [Swift observations of a new outburst of the SFXT IGR J08408-4503](#)
- 5184 [Report of the Daily Monitor of Sgr A* at 22 GHz](#)
- 5179 [Swift observations of a new outburst of the SFXT IGR J17544-2619](#)
- 5163 [Limits on Low Frequency Radio Flux Density Changes for Sgr A* \(erratum\)](#)
- 5159 [Limits on Low Frequency Radio Flux Density Changes](#)

sigma upper limits are about 4 mCrab (18-40 keV) and 10 mCrab (40-100 keV). The hard X-ray monitoring by the Swift/BAT (e.g., ATel #904; see <http://swift.gsfc.nasa.gov/results/transients/weak/AXJ1744.8-2921/>) indicates the hard X-ray outburst lasted up to this month. We note that KS 1741-293 was seen near the edge of the field with the Swift/XRT on 26 April 2013, confirming that it was indeed KS 1741-293 that was active.

The black-hole X-ray binary 1E 1740.7-2942 (the Great Annihilator) is seen to be still below INTEGRAL's monitoring detection limits (see ATels #4804, #4471). We derive JEM-X 6-sigma upper limits of about 6 mCrab (3-10 keV) and 4 mCrab (10-25 keV)mCrab, and IBIS/ISGRI 3-sigma upper limits of about 4 mCrab (18-40 keV) and 10 mCrab (40-100 keV).

The next monitoring observation of the Galactic bulge region will be in about a week, starting on September 3 20:43.

- for Sgr A*
- 5153 NRAO VLA service monitoring observations of Sgr A*
- 5124 Swift/BAT detection of a burst from SGR J1745-29
- 5095 Chandra confirmation of transient X-ray activity from CXOGC J174540.0-290005 north of the Galactic Center
- 5076 Detection of radio pulsations at 22 GHz from the Magnetar PSR J1745-2900 in the archival data from 2011
- 5074 Swift/XRT detection of an active X-ray transient near the Galactic center
- 5073 NuSTAR detection of a transient in outburst north of Sgr A*
- 5070 Search for pulsed radio emission from PSR J1745-2900 at 1 GHz with the GMRT
- 5064 Polarisation profiles and rotation measure of PSR J1745-2900 measured at Effelsberg
- 5058 On-going radio observations of PSR J1745-2900 at Effelsberg, Nancay, and Jodrell Bank: flux density estimates, polarisation properties, spin-down measurement, and the highest dispersion measure measured.
- 5053 Detection by Sardinia Radio Telescope of radio pulses at 7 GHz from the Magnetar PSR J1745-2900 in the Galactic center region
- 5046 Spin-down Measurement of PSR J1745-2900: a New Magnetar
- 5043 Further radio pulsations from the direction of the NuSTAR 3.76-second X-ray pulsar, and a dispersion measure estimate.
- 5041 MAXI/GSC detection of an X-ray outburst probably from SAX J1747.0-2853 and Swift followup observation of the Galactic center region
- 5040 Detection of radio pulsations from the direction of the NuSTAR 3.76 second X-ray pulsar at 8.35 GHz
- 5037 Swift-BAT monitoring for additional bursts from SGR J1745-29 (Trigger 554491)
- 5035 Detection of radio pulsations from the direction of the Galactic center Soft Gamma-ray Repeater with Parkes and the GBT
- 5033 Searches for Dispersed Radio Pulsar Emission from the Sag A* SGR
- 5032 Chandra localization of the soft gamma repeater in the Galactic Center region
- 5027 Searches for radio pulsations from the 3.76 second NuSTAR X-ray pulsar in the Galactic centre.
- 5025 Limits on Radio Frequency Flux Density Changes in Sgr A*
- 5024 NICT VLBI Observations of

	Sgr A* at 8 GHz and 2 GHz
5020	NuSTAR discovery of a 3.76 second pulsar in the Sgr A* region
5018	1.3mm CARMA Flux Density for Sgr A*
5016	Continued Swift Monitoring of the Galactic Center Flare
5014	Brightening of Sgr A* at 32 GHz from VLA observations
5013	Possible brightening at 22 GHz of Sgr A*
5011	Swift XRT spectrum of transient X-ray source at Sgr A*'s position
5009	Swift/BAT detection of an SGR-like flare from near Sgr A*
5008	Ongoing X-ray activity from Sgr A*
5006	Large Flare from Sgr A* Detected by Swift
4939	Swift detects a flare from IGR J16418-4532
4923	Non-detection of flare at 22 GHz of Sgr A* induced by the approaching G2 cloud in February and March 2013
4848	INTEGRAL/JEM-X detects a new outburst of the Rapid Burster (MXB 1730-335)
4840	Transient X-ray burster KS 1741-293 active again
4782	Sw J1745-26 still detected by Swift XRT in a lower, harder state.
4760	Swift J1745.1-2624 is still active in radio
4471	1E 1740.7-2942 (the Great Annihilator) enters a low-intensity state
4456	Optical evolution of Swift J174510.8-262411 suggests the compact jet is fading, radio flare imminent?
4450	Swift J174510.8-262411 in the hard intermediate state
4436	Sw J1725-26 still brightening in Swift XRT observations
4419	MAXI/GSC detects a new outburst from the black hole candidate H 1743-322
4418	INTEGRAL/IBIS detection of the onset of the outburst of the black hole binary H1743-322
4410	Follow-up ATCA radio observations of the black hole candidate Swift J174510.8-262411
4401	X-ray brightening and softening of SWIFT J174510.8-262411
4394	Radio detection of Sw J1745-26 with the VLA
4393	Swift J174510.8-262411 exhibits X-ray properties of a black hole transient in the hard state
4383	Swift J174510.8-262411 (to be known as Sw J1745-26): 0.5 Crab and rising
4381	INTEGRAL observation of the Galactic transient Swift J174510.8-262411
4366	Swift observes an outburst from the supergiant fast X-ray transient XTE J1739-30

- 4304 INTEGRAL detects the recurrent transients XTE J1709-267 and XTE J1739-285 in outburst
- 4276 Swift observes a new outburst from the SFXT AX J1841.0-0536
- 4275 Swift observations of a new outburst of the SFXT IGR J17544-2619
- 4249 Brightening and hardening of new X-ray transient in globular cluster Terzan 5
- 4176 Swift observes a new outburst from the Supergiant Fast X-ray Transient AX J1841.0-0536
- 4148 Swift detection of IGR16418-4532
- 4095 Swift observes a new outburst from the Supergiant Fast X-ray Transient AX J1845.0-0433
- 4040 Swift detects a new outburst of the SFXT IGR J17544-2619
- 3930 INTEGRAL Bulge monitoring program detects several active transients with JEM-X
- 3842 MAXI/GSC detects a quasi-regular outburst and a possible soft state transition in H 1743-322
- 3830 MAXI/GSC detection of an outburst from a black hole candidate 4U 1630-472
- 3646 INTEGRAL Galactic Bulge monitoring: transient activity from KS 1741-293, MXB 1730-335, and IGR J17498-2921
- 3632 Swift detects an X-ray burst and renewed activity from KS 1741-293
- 3606 Chandra Localization of the Accretion-Powered Millisecond Pulsar IGR J17498-2921
- 3586 Swift observations of a new outburst of the SFXT IGR J08408-4503
- 3568 RXTE detection of a thermonuclear burst from IGR J17498-2921: distance estimate and burst oscillations
- 3558 IGR J17498-2921: improved Swift/XRT position
- 3556 RXTE detects a coherent signal at ~ 401 Hz from IGR J17498-2921.
- 3551 A new hard X-ray transient discovered by INTEGRAL: IGRJ17498-2921
- 3453 Swift detected outburst of the SFXT IGR J18410-0535/AX1841.0-0536
- 3280 Broad band energy spectrum and a low frequency QPO from H1743-322 in the hard state revealed by INTEGRAL and Swift observations
- 3277 RXTE Observes H1743-322 in Outburst
- 3267 INTEGRAL spots the very beginning of the current H1743-322 outburst
- 3263 IGR J17464-3213 (= H1743-322) is active again
- 3163 Swift/XRT detects SAX J1747.0-2853 (=MAXI J1745-

	288) in outburst
3123	MAXI/GSC detects an X-ray outburst from the Galactic center region, GRO J1744-28/MAXI J1745-288
3018	MAXI/GSC detection of X-ray enhancement from AX J1841.0-0536
2997	Monitoring of the likely optical counterpart of XTE J1728-295
2991	Swift/XRT follow-up of the X-ray transient XTE J1728-295 during its decaying phase
2925	Increased optical activity of Be/X binary system SAX 2103.5+4545 suggests a new outburst in X-rays
2872	RXTE high energy flare follow-up observation of the Crab Nebula
2870	Optical observations of the candidate optical counterpart to XTE J1728-295 (=IGR J17285-2922)
2868	Swift imaging shows no evidence for active AGN near Crab
2867	No variation in the Crab pulsar in the near-infrared J and H bands
2856	INTEGRAL non-detection of enhanced Crab flux
2855	AGILE detection of enhanced gamma-ray emission from the Crab Nebula region
2827	Candidate optical counterparts of XTE J1728-295 = IGR J17285-2922
2825	INTEGRAL confirms that XTE J1728-295 = IGR J17285-2922
2824	Swift/XRT follow-up and a refined position of the X-ray transient XTE J1728-295
2823	RXTE PCA Detection of a New Outburst of XTE J1728-295 (probably IGR J17285-2922)
2788	RXTE pointed observations of H 1743-322
2781	Swift XRT observation of the black hole candidate H 1743-322
2774	MAXI/GSC detects a re-brightening from the black hole candidate H 1743-322
2770	Swift/XRT detects new outbursts of the galactic center X-ray transients GRS 1741-2853 and XMM J174457-2850.3
2729	MAXI/GSC detects an X-ray outburst of RX J1709.5-2639 (XTE J1709-267)
2690	Swift/XRT detects renewed activity of the galactic center X-ray transient AX J1745.6-2901
2662	Analysis of Swift data of the June 5 outburst of the SFXT IGR J18410-0535/AX1841.0-0536
2661	Swift detection of outburst from the SFXT IGR J18410-0535
2520	A new outburst of the SFXT IGR J08408-4503 observed by Swift
2465	INTEGRAL reports renewed

	activity from KS 1741-293
2425	MAXI/GSC detects an increase in X-ray flux from 4U 1711-34
2410	RXTE shows spectral transition during decay in H 1743-322
2378	MAXI/GSC detects a spectral state transition in H 1743-322
2364	Renewed Activity from H 1743-322 detected by MAXI/GSC
2305	New X-ray Outburst in X1744-361 (A1744-36)
2264	4U 1608-52 is back to quiescence after its 2007-2009 outburst
2178	Swift observations of a new outburst of the SFXT IGR J08408-4503
2138	ATCA radio observations of Swift J1756.9-2508 in outburst
2102	Swift observations of an outburst of the SFXT AX J1845.0-0433/IGR J18450-0435
2072	X-ray state change in 4U 1608-52
1971	Swift observations of IGR J17544-2619
1970	Optical and hard X-ray detections of an outburst from Aquila X-1
1739	INTEGRAL spots renewed activity from H1743-322
1587	New X-ray Outburst in X1744-361
1557	Hard X-ray activity from Aquila X-1
1553	Aquila X-1 in activity
1541	Swift/XRT observations of the X-ray transients KS1741-293 and XTE J1719-291
1531	Chandra detects activity from the Galactic X-ray transients KS 1741-293, Swift J174535.5-290135.6 and CXOGC J174535.5-290124
1513	Chandra detects Swift J174535.5-290135.6 in a relatively bright state
1398	Recent activity of the Rapid Burster (MXB 1730-335)
1385	INTEGRAL Galactic bulge monitoring observations of GRO J1750-27 (AX J1749.1-2639), H1743-322 and SLX 1746-331
1302	X-ray outburst from RX J1709-2639
1266	Recent and past activity of the supergiant fast X-ray transient IGR J17544-2619 as seen by INTEGRAL
1265	Swift/BAT detects an outburst from IGR J17544-2619
1232	Aquila X-1 still bright optically
1229	Possible transition of Aquila X-1 to a hard state seen with INTEGRAL
1219	Optical confirmation of the outburst of Aql X-1
1218	Optical and Near-IR Observations of the Current Outburst of Aql X-1

- 1216 RXTE ASM Detection of an Outburst from Aql X-1
- 1185 INTEGRAL detects hard X-rays from SAX J1810.8-2609 during its current outburst
- 1133 Chandra non-detection of the newly discovered Millisecond X-ray Pulsar SWIFT J1756.9-2508
- 1132 Possible IR counterpart of the newly discovered X-ray MSP SWIFT J1756.9-2508
- 1129 WSRT Non-Detection of Radio Pulsations from the New X-ray MSP SWIFT J1756.9-2508 During its Recent Outburst
- 1128 ATCA non-detection at 8.7 GHz of the Millisecond X-ray Pulsar SWIFT J1756.9-2508
- 1114 Orbital Parameters of SWIFT J1756.9-2508
- 1113 4U 1608-522 in X-ray outburst
- 1111 Swift/XRT and RXTE/PCA results from SWIFT J1756.9-2508
- 1108 SWIFT J1756.9-2508 is a 182 Hz Millisecond X-ray Pulsar
- 1107 Swift/XRT detection of SWIFT J1756.9-2508
- 1105 Swift/BAT discovers a new galactic transient: SWIFT J1756.9-2508
- 1092 A expected bright radio flare of Cygnus X-3
- 1085 H alpha emission in SAX J2103.5+4545
- 1081 Cygnus X-3 in extreme soft state
- 1080 Optical/IR Confirmation of Outburst of Aql X-1
- 1079 INTEGRAL detects an early stage of a new outburst of Aql X-1
- 1064 SAX J2103.5+4545 Continues to be observable with Swift/BAT
- 1063 SAX J2103.5+4545 in outburst
- 1061 Cygnus X-3 re-entering its high-soft state
- 1058 Long duration outbursts from the two X-ray bursters AX J1745.6-2901 and GRS 1741.9-2853 suggested by XMM-Newton observations
- 1028 Cygnus X-3 re-enters the low-hard state
- 1013 Chandra Detection of Three Enigmatic X-ray Transients: GRS 1741.9-2853,
- 1008 IGR J17453-2853 = Granat 1741.9-2853?
- 1007 ATCA radio observations of GX 339-4
- 1006 Renewed activity of the Galactic center transients Swift J174535.5-290135.6 and GRS 1741.9-2853 as observed with Swift/XRT
- 1005 Two active X-ray transients in the Galactic Center region as seen by INTEGRAL
- 952 Cyg X-3 is in the active state
- 904 Announcement of the Swift/BAT Hard X-ray Transient Monitor

- 892 Renewed activity of the very faint X-ray transient CXOGC J174535.5-290124 and continued activity of the neutron-star X-ray transient SAX J1747.0-2853
- 874 New INTEGRAL source, IGR J17354-3255, and continuation of the INTEGRAL Galactic Bulge monitoring program
- 858 SWIFT XRT Observations of 4U 1608-522 in Outburst
- 857 Radio observations of 4U 1608-522 during outburst
- 855 optical outburst of 4u 1608-522 (=QX Nor)
- 851 BAT Detects a New Outburst of 4U 1608-522
- 828 A fast-rise radio flare in Cyg X-3
- 815 Emission-line early-type stars as possible optical counterparts of INTEGRAL hard X-ray sources IGR J08408-4503 and IGR J15539-6142
- 809 GMRT observation of radio flare in Cygnus X-3 at 614 MHz
- 807 X-ray flaring of Cygnus X-3
- 806 Radio flare in Cygnus X-3
- 756 INTEGRAL detects SWIFT J174535.5-290135.6
- 753 Swift/XRT detection of a transient source in the Galactic Center
- 734 Three active neutron star X-ray transients: SAX J1747.0-2853, XTE J1739-285 and GRS 1747-312
- 642 On the (hard) X-ray activity of SAX J1747.0-2853 as seen with INTEGRAL
- 641 Swift Observation of SAX J1747.0-2853
- 638 Further Chandra observations of SAX J1747.0-2853 and the region around Sgr A*
- 637 Renewed activity of the neutron star X-ray transient SAX J1747.0-2853
- 567 New Outburst of A1744-36 = XTE J1748-361
- 267 Discovery of the optical counterpart to XTEJ1748-361=A1744-36
- 266 INTEGRAL observes A1744-361 (XTE J1748-361) in hard X-rays
- 265 A Second Recent Outburst of XTE J1748-361 (or A1744-36)
- 262 Optical counterpart of XTE J1709-267
- 258 RXTE Detection of 1E 1740.7-2942
- 257 1E1740.7-2942 and KS1741-293
- 256 INTEGRAL detection of the X-ray outburst of SAX J1747.0-2853
- 255 RXTE PCA Detections of Transient Activity of X-ray Bursters in the Galactic Center Region
- 248 The LMXRB GX354-0 is flaring in the hard X-rays

244	R-band Observations of 2S 1711-339 in 1998 During Outburst
238	Correction to ATEL #233 (2S 1711-339) and addendum to ATEL #205 (A1744-36)
233	First Detection of the X-ray Burster 2S 1711-339 in Quiescence and a Suggested Optical Counterpart.
210	Radio observations of XTE J1748-361 (=A1744-36?)
208	Radio observations of XTE J1748-361 (= A1744-36?)
206	OIR observations of A1744-36 (=XTE J1748-361?)
205	Precise X-ray position of A1744-36 (=XTE J1748-361?)
204	New X-ray Transient XTE J1748-361 (may be A1744-36)
94	Black-Hole Candidate 1E 1740.7-2942 Enters a Faint Soft State
66	Black-Hole Candidate GRS 1758-258 Enters an "Off" State

[**Telegram Index**]

R. E. Rutledge, Editor-in-Chief

Derek Fox, Editor

Mansi M. Kasliwal, Co-Editor

`rrutledge@astronomerstelegam.org`

`dfox@astronomerstelegam.org`

`mansi@astronomerstelegam.org`