Table 2. The complete catalogue of hard X-ray sources detected in 100 − 150 keV band available in the online version of the paper.

Id	Name	Ra deg	Dec deg	$Flux_{100-150\ keV}$ erg cm^{-2}s^{-1}	Range orbits	Type	Ref.*	Notes†
1	IGR J00291+5934	7.26	59.57	0.5 ± 0.2 (2.7)		LMXB	1,2a	accreting millisecond pulsar; V* V1037 Cas;
–				11.5 ± 0.9	0261 0263			
2	**PSR J0146+6145**	26.59	61.75	3.5 ± 0.2		PSR	2b	AXP; 4U 0142+61;
3	**NGC 788**	30.28	-6.82	1.5 ± 0.4 (4.1)		AGN		Sy2 z=0.0136;
4	**4U 0241+61**	41.24	62.46	1.7 ± 0.3 (5.1)		AGN		Sy1 z=0.044557;
5	**4U 0352+30**	58.85	31.04	5.6 ± 0.4		HMXB		X Per;
6	**3C111**	64.58	38.02	1.6 ± 0.4 (4.0)		AGN		Sy1 z=0.0485;
7	RX J0440.9+4431	70.23	44.56	<0.7		HMXB	3	
–				7.5 ± 1.5 (5.0)	0963 0965			
8	**IRAS 05078+1626**	77.68	16.50	1.4 ± 0.3 (4.4)		AGN		Sy1 z=0.017879;
9	**AKN 120**	79.04	-0.14	1.6 ± 0.4 (4.4)		AGN		Sy1 z=0.0323;
–				2.7 ± 0.5 (5.6)	0529 0591			
10	**Crab**	83.63	22.02	402.1 ± 0.2		PSR		TeV J0534+220;
11	**A 0535+262**	84.73	26.34	5.5 ± 0.3		HMXB		
–				46.0 ± 0.9	1018 1026			
12	**PSR0540-69**	85.00	-69.34	1.2 ± 0.2 (6.5)		PSR		
13	**NGC 2110**	88.05	-7.46	5.4 ± 0.5		AGN		Sy2 z=0.007579;
14	MRK 3	93.90	71.04	2.6 ± 0.7 (3.7)		AGN		Sy2 z=0.013443;
–				3.7 ± 0.7 (5.7)	0130 0856			
15	**4U 0614+091**	94.28	9.13	4.5 ± 0.7 (6.7)		LMXB	4	burster;
16	**Vela pulsar**	128.84	-45.18	3.0 ± 0.2		PSR		TeV J07835-453;
17	**4U 0836-429**	129.35	-42.90	2.4 ± 0.2		LMXB	5	burster;
–				13.0 ± 0.5	0136 0154			
18	**S5 0836+71**	130.35	70.91	2.4 ± 0.2		AGN	6	Blazar; z=2.1720;
19	**Mrk 421**	166.12	38.21	3.6 ± 0.4 (8.3)		AGN		Blazar z=0.03; TeV J1104+382;
20	**NGC 3516**	166.72	72.56	1.5 ± 0.2 (6.1)		AGN		Sy1 z=0.008816;
21	A1145.1-6141	176.86	-61.97	0.9 ± 0.2 (3.6)		HMXB		C{X1145-619}
–				8.2 ± 1.7 (4.8)	1058 1132			
22	**NGC 4151**	182.63	39.41	10.8 ± 0.3		AGN		Sy1 z=0.003262;
23	**NGC 4235**	184.29	7.20	1.3 ± 0.2 (7.1)		AGN		Sy1 z=0.007772;
24	**PKS 1219+04**	185.60	4.22	1.0 ± 0.2 (5.7)		AGN		Blazar; z=0.965001;
25	**NGC 4388**	186.45	12.66	4.9 ± 0.2		AGN		Sy2 z=0.008426;
26	**3C273**	187.28	2.05	8.5 ± 0.2		AGN		Blazar; z=0.15834;
27	**NGC 4507**	188.90	-39.91	3.3 ± 0.6 (5.2)		AGN		Sy2 z=0.011771;
28	**NGC 4593**	189.91	-5.35	1.6 ± 0.3 (5.9)		AGN		Sy1 z=0.0090;
29	**4U 1246-588**	192.41	-59.09	1.2 ± 0.2 (4.8)		LMXB	7,8	burster;
30	**NGC 4945**	196.36	-49.47	6.0 ± 0.3		AGN		Sy2 z=0.001908;
31	**Cen A**	201.36	-43.02	26.3 ± 0.4		AGN		Sy2 z=0.001830;
32	**4U 1323-619**	201.65	-62.13	2.0 ± 0.2 (7.9)		LMXB	9	burster;
33	**NGC 5252**	204.57	4.55	3.4 ± 0.4 (8.4)		AGN		Sy2 z=0.022219;

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Id	Name	Ra deg	Dec deg	Flux$_{100-150\ \mathrm{keV}}$ erg cm^{-2}s^{-1}	Range orbits	Type	Ref.*	Notes†
34	**4U 1344-60**	206.90	-60.62	1.4 ± 0.2 (6.2)		AGN		Sy1.5 z=0.013;
35	**IC 4329A**	207.33	-30.31	3.4 ± 0.5 (6.4)		AGN		Sy1 z=0.016024; =ESO 445-50
36	**Circinus galaxy**	213.29	-65.34	1.5 ± 0.3 (5.7)		AGN		Sy2 z=0.001421;
37	**PSR B1509-58**	228.48	-59.14	6.0 ± 0.3		PSR		TeV J1513-591;
38	IGR J15390-6226	234.76	-62.43	<0.6		LMXB?	10,11	BHC; SWIFT J1539.2-6227;
–				6.0 ± 1.1 (5.7)	0769 0785			
39	**1E 1547.0-5408**	237.72	-54.31	1.7 ± 0.2 (7.8)		PSR	12	AXP;
40	**XTE J1550-564**	237.76	-56.46	8.9 ± 0.2		LMXB	13	BHC;
41	**4U 1608-522**	243.18	-52.42	4.2 ± 0.2		LMXB	14	burster;
42	**Sco X-1**	244.98	-15.64	3.5 ± 0.3		LMXB		NS;
43	**4U 1630-47**	248.52	-47.39	5.1 ± 0.2		LMXB	15	C{IGR J16336-4733,IGR J16358-4726} BHC;
44	**4U 1636-536**	250.23	-53.75	2.4 ± 0.2		LMXB	16	burster;
45	GX 340+0	251.45	-45.61	0.5 ± 0.2 (3.3)		LMXB		NS;
–				2.9 ± 0.6 (4.7)	0770 0850			
46	IGR J16479-4514	252.02	-45.21	0.2 ± 0.2 (1.0)		HMXB	17,18	2MASS J16480656-4512068;
–				2.1 ± 0.5 (4.1)	0910 1030			
47	**IGR J16482-3036**	252.05	-30.58	1.0 ± 0.2 (4.2)		AGN	19,20	Sy1 z=0.031; 2MASX J16481523-3035037;
48	XTE J1652-453	253.08	-45.34	<0.3		LMXB?	21	BHC;
–				7.6 ± 1.1 (7.0)	0843 0851			
49	**MKN 501**	253.47	39.76	1.9 ± 0.4 (5.3)		AGN		Blazar; BL Lac z=0.033640;
50	**GRO J1655-40**	253.50	-39.84	3.4 ± 0.2		LMXB	22	BHC;
–				47.6 ± 0.7	0288 0296			
51	**IGR J16562-3301**	254.09	-33.04	1.4 ± 0.2 (7.7)		AGN	23	Blazar; BL Lac; SWIFT J1656.3-3302; z=2.40;
52	**MAXI J1659-152**	254.79	-15.27	2.6 ± 0.3 (7.9)		LMXB	24	BHC;
–				27.2 ± 1.0	0971 0977			
53	**OAO 1657-415**	255.20	-41.66	1.7 ± 0.2 (9.9)		HMXB		
54	**XTE J1701-407**	255.43	-40.86	0.8 ± 0.2 (4.7)		LMXB	25,26	burster;
–				3.9 ± 0.6 (6.9)	0894 0910			
55	**GX 339-4**	255.71	-48.79	25.5 ± 0.2		LMXB	27	BHC;
–				128.5 ± 0.5	0895 0911			
56	**4U 1700-377**	255.98	-37.84	16.6 ± 0.2		HMXB		
57	GX 349+2	256.43	-36.42	<0.3		LMXB		NS;
–				5.1 ± 1.3 (4.1)	0113 0117			
58	**4U 1702-429**	256.56	-43.04	1.8 ± 0.2		LMXB	28	burster;
59	IGR J17062-6143	256.58	-61.70	1.3 ± 0.4 (3.5)		LMXB	29,30,31	burster; SWIFT J1706.6-6146;
–				4.4 ± 0.8 (5.3)	0617 0791			
60	**PSR J1708-4008**	257.20	-40.15	1.1 ± 0.2 (6.7)		PSR	32a	AXP; 1RXS J170849.0-400910;
61	**4U 1705-440**	257.23	-44.10	1.1 ± 0.2 (6.7)		LMXB	32b	burster;
62	**IGR J17091-3624**	257.29	-36.41	3.5 ± 0.2		LMXB	33,34,35	C{IGR J17098-3628} BHC;
–				28.5 ± 0.9	1016 1020			
63	**SAXJ1712.6-3739**	258.16	-37.64	1.4 ± 0.2 (9.0)		LMXB	36	burster;

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Table 2 – continued from previous page

Id	Name	Ra deg	Dec deg	Flux$_{100-150\ keV}$ erg cm^{-2}s^{-1}	Range orbits	Type	Ref.*	Notes†
64	**4U 1724-30**	261.88	-30.80	3.0 ± 0.1		LMXB	37	burster; Terzan 2;
65	**GX 354-0**	262.99	-33.83	3.8 ± 0.1		LMXB		burster;
66	**GX 1+4**	263.01	-24.74	4.7 ± 0.2		LMXB	38	XP;
67	IGR J17331-2406	263.25	-24.14	<0.3		LMXB?	39,40	BHC; Galactic transient;
–				3.9 ± 0.6 (6.1)	0228 0240			
68	RapidBurster	263.35	-33.39	0.3 ± 0.1 (2.5)		LMXB		burster;
–				2.1 ± 0.5 (4.5)	0106 0116			
69	**GRS 1734-292**	264.37	-29.13	1.3 ± 0.1 (9.9)		AGN		Sy1 z=0.021400;
70	**SLX 1735-269**	264.57	-26.99	2.4 ± 0.1		LMXB	41	burster;
71	IGR J17402-3656	265.09	-36.92	<0.3		HMXB?	42	=IGR J17404-3655;
–				5.7 ± 1.3 (4.5)	1222 1224			
72	**SLX 1737-282**	265.17	-28.31	1.2 ± 0.1 (8.8)		LMXB	43	C{XTE J1739-285} burster;
72								C{IGR J17407-2808,IGR J17419-2802}
73	**IGR J17418-1212**	265.48	-12.20	1.1 ± 0.3 (4.3)		AGN	44,45	2E 1739.1-1210; Sy1 z=0.037;
74	**1E 1740.7-294**	265.98	-29.73	17.8 ± 0.1		LMXB	46	C{KS1741-293,A 1742-294} BHC;
75	**KS1741-293**	266.24	-29.34	0.8 ± 0.1 (6.3)		LMXB	47	C{1E 1740.7-294} burster;
76	GRS 1741.9-2853	266.25	-28.92	0.5 ± 0.1 (3.9)		LMXB	48	C{AX J1745.6-2901} burster;
–				5.7 ± 0.9 (6.4)	0535 0543			C{1E 1743.1-2843,SAX J1747.0-2853}
77	**Swift J174510.8-262411**	266.30	-26.40	9.2 ± 0.1		LMXB	49	BHC;
–				113.6 ± 0.4	1212 1226			
78	**A 1742-294**	266.52	-29.52	0.8 ± 0.1 (6.0)		LMXB	50	C{1E 1740.7-294} burster;
79	**IGR J17464-3213**	266.56	-32.23	7.6 ± 0.1		LMXB	51,52	H1743-322/XTE J1746-322; BHC;
–				68.8 ± 0.5	1215 1225			
80	**1E 1743.1-2843**	266.58	-28.74	0.6 ± 0.1 (4.6)		LMXB		C{SAX J1747.0-2853}
81	**SLX1744-299/300**	266.83	-30.01	1.3 ± 0.1 (10.0)		LMXB		C{A 1742-294} burster;
82	**IGR J17473-2721**	266.84	-27.35	0.6 ± 0.1 (4.4)		LMXB	53,54,55	burster;
–				22.9 ± 2.5 (9.0)	0714 0720			
–				27.2 ± 1.3	0666 0674			
83	**IGR J17497-2821**	267.40	-28.35	0.9 ± 0.1 (6.7)		LMXB	56,57,58	BHC;
–				37.5 ± 0.9	0480 0496			
84	SLX 1746-331	267.47	-33.19	<0.3		LMXB		BHC;
–				3.8 ± 0.5 (6.9)	0106 0112			
85	IGR J17498-2921	267.48	-29.32	<0.3		LMXB	59,60	burster, ms pulsar;
–				8.6 ± 0.8	1078 1082			
86	SAX J1750.8-2900	267.60	-29.04	0.5 ± 0.1 (4.0)		LMXB	61	C{IGR J17507-2856} burster;
–				2.5 ± 0.4 (6.0)	0603 0779			
87	XTE J1752-223	268.04	-22.32	0.5 ± 0.1 (3.1)		LMXB		BHC;
–				30.2 ± 1.1	0913 0919			
88	**SWIFT J1753.5-0127**	268.37	-1.45	39.9 ± 0.3		LMXB	62,63	BHC;
–				52.8 ± 0.3	0344 0852			
89	GX 5-1	270.29	-25.08	0.4 ± 0.1 (2.9)		LMXB		NS;

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Table 2 – continued from previous page

Id	Name	Ra deg	Dec deg	Flux$_{100-150\ keV}$ erg cm^{-2}s^{-1}	Range orbits	Type	Ref.*	Notes†
–				5.5 ± 1.3 (4.2)	1154 1162			
90	**GRS 1758-258**	270.30	-25.74	27.2 ± 0.1		LMXB	64	BHC;
91	SAX J1806.5-2215	271.64	-22.25	0.4 ± 0.2 (2.5)		LMXB	65	burster;
–				2.1 ± 0.5 (4.3)	1213 1229			
–				7.4 ± 1.8 (4.2)	1139 1145			
–				8.7 ± 1.7 (5.1)	1276 1290			
92	SAX J1808.4-3658	272.11	-36.98	<0.3		LMXB		ms pulsar
–				15.3 ± 2.3 (6.6)	0726 0726			
93	**PSR J1808-2024**	272.17	-20.41	1.0 ± 0.2 (5.9)		PSR		SGR; SGR 1806-20; HESS J1808-204;
94	XTE J1810-189	272.59	-19.07	0.4 ± 0.2 (2.1)		LMXB		burster;
–				10.2 ± 2.3 (4.4)	1286 1288			
–				8.3 ± 0.8	0654 0672			
95	V4722 Sgr	272.69	-26.15	0.5 ± 0.1 (3.6)		LMXB	66	burster; =SAX J1810.8-2609; =RX J1810.7-2609;
–				7.1 ± 0.6	0593 0611			
96	**GX 13+1**	273.63	-17.16	0.7 ± 0.2 (4.0)		LMXB	67	burster;
97	**M 1812-12**	273.78	-12.09	8.4 ± 0.2		LMXB	68	burster;
98	**GX 17+2**	274.01	-14.04	1.2 ± 0.2 (6.6)		LMXB		burster;
99	**XTE J1817-330**	274.43	-33.02	0.9 ± 0.2 (5.8)		LMXB		BHC;
–				11.8 ± 0.6	0407 0421			
100	MAXI J1828-249	277.24	-25.03	<0.4		LMXB	69	BHC;
–				13.3 ± 1.8 (7.5)	1344 1346			
101	**GS 1826-24**	277.37	-23.80	14.3 ± 0.2		LMXB	70a	burster;
102	**SNR 021.5-00.9**	278.39	-10.57	1.0 ± 0.2 (5.2)		PSR	70b,70c	PSR J1833-1034; HESS J1833-105;
103	**PKS 1830-211**	278.42	-21.06	2.6 ± 0.2		AGN	71	Blazar; FSRQ; z=2.507;
104	**MAXI J1836-194**	278.93	-19.32	1.4 ± 0.2 (6.9)		LMXB	72	BHC;
–				21.1 ± 1.0	1090 1094			
105	**RX J1832-33**	278.93	-32.99	2.2 ± 0.2		LMXB		
106	**AX J1838.0-0655**	279.50	-6.92	1.7 ± 0.2 (8.8)		PSR/PWN	73a	HESS J1837-069;
107	**1E1841-045**	280.33	-4.94	2.3 ± 0.2		PSR/PWN		
108	GS 1843+00	281.40	0.87	<0.4		HMXB		
–				6.5 ± 1.6 (4.1)	0782 0788			
109	**PSR J1846-0258**	281.61	-2.98	1.2 ± 0.2 (6.1)		PSR/PWN	73b	HESS J1846-029;
110	**IGR J18490-0000**	282.26	-0.02	0.9 ± 0.2 (4.7)		PSR/PWN	74,75	HESS J1849-000;
111	**4U 1850-087**	283.27	-8.71	1.0 ± 0.2 (4.9)		LMXB		burster;
112	XTE J1855-026	283.88	-2.60	<0.4		HMXB		
–				4.4 ± 1.0 (4.3)	0243 0251			
113	**HETE J19001-2455**	285.04	-24.92	4.8 ± 0.3		LMXB	76	AMXP,burster;
114	4U 1907+097	287.41	9.83	<0.3		HMXB		
–				4.1 ± 0.9 (4.6)	0228 0246			
115	SWIFT J1910.2-0546	287.60	-5.80	<0.5		LMXB	77	BHC;
–				20.7 ± 1.9	1223 1231			

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Id	Name	Ra deg	Dec deg	Flux$_{100-150\ \mathrm{keV}}$ erg cm^{-2}s^{-1}	Range orbits	Type	Ref.*	Notes†
116	**X1908+075**	287.70	7.60	1.7 ± 0.2		HMXB		
117	**Aql X-1**	287.81	0.58	2.0 ± 0.2		LMXB		burster;
118	**SS 433**	287.95	4.98	0.7 ± 0.2 (4.3)		HMXB		BHC;
119	**IGR J19140+0951**	288.52	9.88	0.9 ± 0.2 (5.3)		HMXB	78,79	=IGR J19140+098;
120	**GRS 1915+105**	288.80	10.95	27.6 ± 0.2		LMXB	80	BHC;
121	**4U 1916-053**	289.70	-5.24	1.4 ± 0.3 (4.9)		LMXB		burster;
122	**NGC 6814**	295.67	-10.32	2.2 ± 0.4 (5.2)		AGN		Sy1 z=0.005214;
123	KS 1947+300	297.40	30.21	<0.5		HMXB		
–				21.0 ± 4.1 (5.2)	1365 1365			
124	**Cyg X-1**	299.59	35.20	303.4 ± 0.2		HMXB	81	BHC;
–				435.1 ± 0.3	0158 0938			
125	**Cygnus A**	299.87	40.74	2.7 ± 0.2		AGN		Sy2 z=0.056146; =3C 405.0;
126	**EXO 2030+375**	308.06	37.64	2.7 ± 0.2		HMXB		
–				25.6 ± 1.0	0453 0471			
127	**Cyg X-3**	308.11	40.96	10.1 ± 0.2		HMXB	82	BHC;
128	**IGR J21247+5058**	321.16	50.98	3.0 ± 0.2		AGN	83,84	Sy1 z=0.02;
129	**PKS 2149-306**	327.98	-30.46	2.5 ± 0.4 (5.5)		AGN	71	Blazar; FSRQ; z=2.344996;
130	**NGC 7172**	330.49	-31.88	2.6 ± 0.5 (5.7)		AGN		Sy2 z=0.008616;
131	**4U 2206+543**	331.99	54.52	1.5 ± 0.3 (5.6)		HMXB		
132	**3C 454.3**	343.49	16.15	5.0 ± 0.4		AGN	6	Blazar; z=0.859;

* (1) Eckert et al. (2004), (2a) Markwardt, Swank, & Strohmayer (2004), (2b) den Hartog et al. (2008a), (3) Reig & Roche (1999), (4) Lewin (1976), (5) Makino & GINGA Team (1990), (6) Donato, Sambruna, & Gliozzi (2005), (7) Piro et al. (1997), (8) Bassa et al. (2006), (9) van der Klis et al. (1985), (10) Milisavljevic et al. (2011), (11) Krimm et al. (2011), (12) Gelfand & Gaensler (2007), (13) Smith (1998), (14) Nakamura et al. (1989), (15) Parmar et al. (1986), (16) Hoffman, Lewin, & Doty (1977), (17) Molkov et al. (2003), (18) Chaty et al. (2008), (19) Bird et al. (2006), (20) Masetti et al. (2006), (21) Hiemstra et al. (2011), (22) Bailyn et al. (1995), (23) Burenin et al. (2007), (24) Kalamkar et al. (2011), (25) Linares et al. (2009), (26) Falanga et al. (2009), (27) Samimi et al. (1979), (28) Oosterbroek et al. (1991), (29) Churazov et al. (2007), (30) Degenaar, Altamirano, & Wijnands (2012), (31) Degenaar, Altamirano, & Wijnands (2012), (32a) den Hartog, Kuiper, & Hermsen (2008b), (32b) Sztajno et al. (1985), (33) Kuulkers et al. (2003), (34) Lutovinov & Revnivtsev (2003), (35) Capitanio et al. (2006), (36) Cocchi et al. (1999), (37) Grindlay et al. (1980), (38) Lewin, Ricker, & McClintock (1971), (39) Lutovinov et al. (2004), (40) Malizia et al. (2010), (41) Bazzano et al. (1997), (42) Tomsick et al. (2009), (43) in't Zand et al. (2002), (44) Bassani et al. (2004), (45) Torres et al. (2004), (46) Syunyaev et al. (1991), (47) in't Zand et al. (1991), (48) Cocchi et al. (1999), (49) Vovk et al. (2012), (50) Pavlinsky, Grebenev, & Sunyaev (1994), (51) Revnivtsev et al. (2003), (52) Kalemci et al. (2006), (53) Grebenev, Molkov, & Sunyaev (2005), (54) Del Monte et al. (2008), (55) Altamirano et al. (2008), (56) Soldi et al. (2006), (57) Paizis et al. (2007), (58) Rodriguez et al. (2007), (59) Papitto et al. (2011), (60) Ferrigno, Bozzo, & Belloni (2011), (61) Natalucci et al. (1999), (62) Morgan et al. (2005), (63) Neustroev et al. (2014), (64) Sunyaev et al. (1991), (65) in't Zand et al. (1999), (66) Cocchi et al. (1999), (67) Fleischman (1985), (68) Murakami et al. (1983), (69) Nakahira et al. (2013), (70a) Ubertini et al. (1999), (70b) de Rosa et al. (2009), (70c) Djannati-Atai et al. (2008), (71) Gianní et al. (2011), (72) Ferrigno et al. (2012), (73a) Malizia et al. (2005), (73b) Kuiper & Hermsen (2009), (74) Molkov et al. (2004), (75) Terrier et al. (2008), (76) Kaaret et al. (2006), (77) Reis et al. (2013), (78) Hannikainen, Rodriguez, & Pottschmidt (2003), (79) Torrejón et al. (2010), (80) Greiner et al. (2001), (81) Herrero et al. (1995), (82) Schmutz, Geballe, & Schild (1996), (83) Walter et al. (2004), (84) Masetti et al. (2004),

† The spatial confusion with the source XXX is indicated as C{XXX}, where XXX is a name of the source has been mostly detected at energies below 100 keV. The measured flux of sources being in spatial confusion should be taken with the caution.

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