Table 4. *ROSAT* detected X-ray sources in the direction of MBM12

Seq	Name	RA	Dec	ML	Count Rate	$HR1$	$HR2$	V	$\log(f_x/f_v)$	SpT	W(Hα)	W(Li)	Comments
	[2000]	[2000]		[cts s^{-1}]			[mag]			[Å]	[Å]		
						ROSAT All-Sky Survey sources							
1	HD 17332	02:47:27.3	+19:22:24	303.5	0.37 ± 0.03	-0.32 ± 0.09	0.32 ± 0.15	6.8	-2.78	G1V	2.96	0.19	distance=28.6 pc
2	RXJ0247.5+1855	02:47:31.0	+18:55:05	8.3	0.03 ± 0.01	-0.82 ± 0.06	-1.00 ± 0.00	17:	0.20	···	···	···	···
3	RXJ0247.6+1941	02:47:40.9	+19:41:03	71.4	0.10 ± 0.02	0.64 ± 0.17	0.27 ± 0.19	16.7	0.58	···	···	···	Quasar
4	RXJ0249.0+1653	02:49:03.2	+16:53:20	23.8	0.05 ± 0.01	0.23 ± 0.28	-0.09 ± 0.33	15.5:	−0.18	···	···	···	···
5	RXJ0249.3+1918	02:49:20.9	+19:18:14	280.6	0.23 ± 0.03	0.87 ± 0.07	0.21 ± 0.11	14.2	-0.04	···	···	···	Seyfert
6	RXJ0250.6+1712	02:50:39.3	+17:12:19	103.2	0.11 ± 0.02	1.00 ± 0.00	0.25 ± 0.16	16:	0.36	···	···	···	···
7	RXJ0251.7+1708	02:51:44.9	+17:08:21	16.7	0.03 ± 0.01	0.55 ± 0.13	0.82 ± 0.06	15:	0.60	···	···	···	···
8	RXJ0255.0+2055	02:55:02.7	+20:55:08	12.0	0.03 ± 0.01	0.50 ± 0.16	0.26 ± 0.40	12.4	-1.62	K8	−0.52	···	···
9	RXJ0255.4+2005	02:55:25.4	+20:05:00	19.9	0.04 ± 0.01	0.41 ± 0.13	-0.24 ± 0.32	12.2	-1.62	K6	−1.26	0.44	···
10	HIP 13702	02:56:26.2	+18:01:17	37.4	0.07 ± 0.01	-0.51 ± 0.19	0.49 ± 0.20	5.6	-4.02	F6V	4.72	···	···
11	HIP 13834	02:58:05.2	+20:40:01	35.2	0.11 ± 0.02	-0.69 ± 0.06	-0.07 ± 0.00	5.8	-3.72	F5IV	5.50	···	···
12	E0255.3+2018	02:58:07.3	+20:29:59	22.7	0.04 ± 0.02	1.00 ± 0.00	-0.03 ± 0.31	12.3	−1.56	K4	−1.60	0.62	Radio Src./IRAS Src.
13	RXJ0259.6+1934	02:59:40.0	+19:34:07	14.6	0.03 ± 0.01	1.00 ± 0.00	0.47 ± 0.17	···	···	···	···	···	···
14	RXJ0259.7+1952	02:59:43.7	+19:52:28	8.4	0.03 ± 0.02	-1.00 ± 0.00	···	20:	1.40	···	···	···	···
15	RXJ0300.7+1742	03:00:45.3	+17:42:08	14.5	0.04 ± 0.02	0.56 ± 0.13	-0.48 ± 0.16	16.4:	0.08	···	···	···	···
16	RXJ0301.7+1834	03:01:46.0	+18:34:34	11.6	0.05 ± 0.02	0.39 ± 0.25	0.56 ± 0.23	14.7:	−0.50	···	···	···	···
17	RXJ0302.0+1729	03:02:00.2	+17:29:45	7.9	0.03 ± 0.02	-0.60 ± 0.16	-0.79 ± 0.00	16.0:	−0.20	···	···	···	···
18	S18	03:02:20.4	+17:10:48	6.5	0.03 ± 0.01	-0.07 ± 0.00	-1.00 ± 0.00	13.5	-1.20	M2	−79.0	0.31	···
19	RXJ0302.9+1757	03:02:57.7	+17:57:16	8.2	0.06 ± 0.02	-1.00 ± 0.00	1.00 ± 0.00	···	···	···	···	···	···
20	RXJ0303.5+1742	03:03:35.9	+17:42:41	8.5	0.07 ± 0.03	-0.39 ± 0.20	-1.00 ± 0.00	···	···	···	···	···	···
21	RXJ0304.2+2011	03:04:16.1	+20:11:17	46.9	0.08 ± 0.02	1.00 ± 0.00	0.49 ± 0.20	15.4	-0.03	G6	2.64	···	···
22	RXJ0304.3+2118	03:04:21.2	+21:18:01	49.0	0.10 ± 0.02	-0.34 ± 0.19	0.12 ± 0.35	13.1	-0.84	M1	−4.26	···	···
23	RXJ0304.6+1940	03:04:39.4	+19:40:58	8.9	0.04 ± 0.02	0.24 ± 0.23	-0.57 ± 0.18	17.3:	0.44	···	···	···	···
24	RXJ0304.8+1957	03:04:53.9	+19:57:53	8.8	0.04 ± 0.02	-0.62 ± 0.15	-0.27 ± 0.00	···	···	···	···	···	···
25	RXJ0305.2+1816	03:05:17.2	+18:16:38	12.0	0.05 ± 0.02	0.69 ± 0.11	-0.03 ± 0.31	15.8:	−0.06	···	···	···	···
26	RXJ0305.8+2055	03:05:49.5	+20:55:07	35.9	0.03 ± 0.01	1.00 ± 0.00	0.81 ± 0.05	17.6:	0.44	···	···	···	···
27	RXJ0306.1+1829	03:06:10.7	+18:29:49	8.6	0.04 ± 0.02	0.13 ± 0.28	-0.09 ± 0.35	17.2:	0.40	···	···	···	···
28	RXJ0306.5+1921	03:06:32.1	+19:21:52	30.2	0.03 ± 0.01	0.86 ± 0.04	-0.14 ± 0.30	11.4	-2.02	K1	filled	0.35	···
						ROSAT Pointed Observation sources							
29	RXJ0253.8+1943	02:53:51.8	+19:43:30	17.0	0.004 ± 0.002	1.00 ± 0.00	0.72 ± 0.29	···	···	···	···	···	···
30	RXJ0254.4+1929	02:54:29.4	+19:29:14	7.6	0.003 ± 0.002	0.59 ± 0.58	-0.35 ± 0.29	···	···	···	···	···	···
31	RXJ0254.5+1921	02:54:34.8	+19:21:10	16.4	0.005 ± 0.002	-1.00 ± 0.00	-1.00 ± 0.00	···	···	···	···	···	···
32	RXJ0254.6+1955	02:54:41.9	+19:55:02	7.5	0.003 ± 0.001	0.34 ± 0.43	-0.06 ± 0.31	···	···	···	···	···	···
33	RXJ0255.0+2011	02:55:05.1	+20:11:45	32.1	0.0012 ± 0.0009	-1.00 ± 0.00	···	17.7:	−0.92	···	···	···	···
34	RXJ0255.3+1915	02:55:19.6	+19:15:34	38.7	0.010 ± 0.002	0.20 ± 0.17	0.06 ± 0.16	10.4	−2.91	F9	3.57	0.17	···
35	RXJ0255.4+1953	02:55:25.5	+19:53:08	11.7	0.0023 ± 0.0006	-0.25 ± 0.29	-0.57 ± 0.35	···	···	···	···	···	···
36	RXJ0255.4+2005	02:55:26.5	+20:05:04	2272.2	0.067 ± 0.002	0.49 ± 0.03	0.08 ± 0.03	12.2	−1.38	K6	-1.26	0.44	···
37	RXJ0255.6+2007	02:55:36.4	+20:07:07	52.2	0.0045 ± 0.0007	0.41 ± 0.17	0.10 ± 0.16	15.8:	−1.11	···	···	···	···
38	RXJ0255.9+2005	02:55:57.1	+20:05:55	69.6	0.0051 ± 0.0008	0.88 ± 0.15	0.20 ± 0.13	12.7	−2.30	K2	1.62	0.34	···

Table 4. (continued)

Seq	Name [2000]	RA [2000]	Dec	ML [cts s^{-1}]	Count Rate	$HR1$	$HR2$ [mag]	V	$\log(f_x/f_v)$	SpT [Å]	W(Hα) [Å]	W(Li)	Comments
39	RXJ0256.0+1926	02:56:01.7	+19:26:58	51.7	0.0016 ± 0.0008	0.89 ± 0.59	1.00 ± 0.00	...	...	...	...	...	...
40a	LkHα262	02:56:08.3	+20:03:28	767.1	0.008 ± 0.001	0.88 ± 0.04	0.11 ± 0.06	14.6	−1.34	M0	−32.1	0.29	...
40b	LkHα263	02:56:08.3	+20:03:28	767.1	0.008 ± 0.001	0.88 ± 0.04	0.11 ± 0.06	14.6	−1.34	M4	−32.9	0.38	...
41	XY Ari	02:56:09.1	+19:26:49	25.3	0.006 ± 0.001	0.75 ± 0.36	0.72 ± 0.15	...	...	...	...	...	cataclysmic variable
42	RXJ0256.3+2005	02:56:18.3	+20:06:00	15.2	0.0015 ± 0.0004	0.54 ± 0.38	-0.16 ± 0.25	17.0:	−1.10	...	...	...	...
43	RXJ0256.5+1921	02:56:34.8	+19:21:53	7.8	0.0015 ± 0.0007	-1.00 ± 0.00	-1.00 ± 0.00	...	...	...	...	...	...
44	LkHα264	02:56:37.8	+20:05:34	134.1	0.0043 ± 0.0006	1.00 ± 0.00	0.30 ± 0.11	12.7	−2.37	K5	−58.9	0.51	...
45	RXJ0256.6+1859	02:56:41.2	+18:59:43	9.0	0.009 ± 0.002	0.30 ± 0.24	-0.10 ± 0.20	15.7	−0.85	...	...	...	...
46	RXJ0256.8+1949	02:56:49.0	+19:49:16	109.1	0.0021 ± 0.0003	1.00 ± 0.00	0.53 ± 0.14	19:	−0.16	...	...	...	...
47	RXJ0257.0+1916	02:57:01.0	+19:16:24	8.5	0.0016 ± 0.0010	1.00 ± 0.00	0.52 ± 0.31	...	...	...	...	...	...
48	RXJ0257.1+1859	02:57:09.0	+18:59:29	15.8	0.011 ± 0.002	-0.43 ± 0.19	-0.55 ± 0.42	...	...	...	...	...	...
49a	RXJ0257.2+2026a	02:57:16.8	+20:26:18	32.8	0.004 ± 0.001	0.93 ± 0.36	0.42 ± 0.19	14.7	−1.65	G2	2.37	...	...
49b	RXJ0257.2+2026b	02:57:16.8	+20:26:18	32.8	0.004 ± 0.001	0.93 ± 0.36	0.42 ± 0.19	14.7	−1.65	...	2.43	...	...
50	RXJ0257.3+1908	02:57:24.0	+19:08:27	7.9	0.010 ± 0.002	-0.56 ± 0.16	-0.53 ± 0.45	14.7	−1.17	...	...	...	...
51a	RXJ0257.4+2015a	02:57:25.9	+20:15:35	25.9	0.0034 ± 0.0008	0.71 ± 0.33	0.20 ± 0.19	14.5:	−1.75	M0	filled	...	...
51b	RXJ0257.4+2015b	02:57:25.9	+20:15:35	25.9	0.0034 ± 0.0008	0.71 ± 0.33	0.20 ± 0.19	14.5:	−1.75	M0	−2.90	...	...
52	RXJ0257.4+1948	02:57:28.3	+19:48:19	62.1	0.0016 ± 0.0003	1.00 ± 0.00	0.54 ± 0.16	...	...	...	...	nodata	...
53	RXJ0257.5+1943	02:57:30.9	+19:43:47	25.0	0.0014 ± 0.0003	0.64 ± 0.38	-0.03 ± 0.25	16.2	−1.45	...	...	...	...
54	RXJ0257.6+1912	02:57:39.8	+19:12:19	124.9	0.0017 ± 0.0012	0.01 ± 1.20	0.07 ± 1.39	18:	−0.65	...	...	...	...
55	RXJ0257.8+1944	02:57:53.5	+19:44:43	333.4	0.0061 ± 0.0006	0.91 ± 0.09	0.67 ± 0.07	...	...	...	...	...	Radio Src.
56	RXJ0257.9+1942	02:57:55.1	+19:42:54	273.6	0.0058 ± 0.0006	0.76 ± 0.10	0.77 ± 0.07	15.5:	−1.11	G9	1.69	...	...
57	HIP 13834	02:58:04.2	+20:39:32	601.5	0.122 ± 0.004	-0.35 ± 0.03	-0.24 ± 0.05	5.8	−3.67	F5IV	5.47	...	...
58	RXJ0258.1+1930	02:58:09.0	+19:30:08	57.3	0.0071 ± 0.0009	-0.02 ± 0.13	-0.12 ± 0.16	10.3	−3.10	K0	1.73	...	...
59	E02553+2018	02:58:09.1	+20:29:58	581.9	0.036 ± 0.002	0.80 ± 0.06	0.19 ± 0.05	12.3	−1.60	K4	−1.60	0.62	Radio Src./IRAS Src.
60	RXJ0258.2+1947	02:58:15.9	+19:47:17	337.8	0.0079 ± 0.0007	0.99 ± 0.06	0.17 ± 0.08	15.0:	−1.18	M5	−24.5	0.58	...
61	RXJ0258.3+1932	02:58:21.3	+19:32:15	25.3	0.0021 ± 0.0006	0.67 ± 0.41	0.62 ± 0.24	...	...	...	...	...	...
62	RXJ0258.5+1914	02:58:31.2	+19:14:47	37.1	0.013 ± 0.002	-0.18 ± 0.13	0.41 ± 0.17	...	...	...	...	...	...
63	RXJ0258.6+2020	02:58:39.2	+20:20:33	11.2	0.005 ± 0.001	-0.52 ± 0.26	-0.26 ± 0.61	16.5:	−0.78	...	...	...	...
64	RXJ0258.7+1947	02:58:43.0	+19:47:06	21.1	0.0021 ± 0.0006	0.84 ± 0.36	0.13 ± 0.21	14.6:	−1.92	K6	filled	...	...
65	RXJ0258.7+1922	02:58:45.6	+19:22:44	8.4	0.004 ± 0.001	-0.28 ± 0.27	0.11 ± 0.44	18:	−0.28	...	...	...	...
66	RXJ0258.8+2025	02:58:50.9	+20:25:59	8.9	0.0013 ± 0.0014	1.00 ± 0.00	1.00 ± 0.00	...	...	...	...	...	...
67	RXJ0259.0+1940	02:59:02.0	+19:40:35	9.4	0.0017 ± 0.0007	0.18 ± 0.48	1.00 ± 0.00	17.6	−0.81	...	...	...	...
68	RXJ0259.1+1958	02:59:08.3	+19:58:32	127.4	0.022 ± 0.002	-0.39 ± 0.10	-0.02 ± 0.19	7.3	−3.82	F0	6.25	...	...
69	RXJ0259.2+1930	02:59:13.9	+19:30:12	10.8	0.001 ± 0.001	1.00 ± 0.00	0.21 ± 0.30	...	...	...	...	...	...
70	RXJ0259.3+2009	02:59:23.7	+20:09:59	32.0	0.005 ± 0.001	1.00 ± 0.00	0.28 ± 0.16	15:	−1.38	K2	filled	...	...
71	RXJ0259.4+1942	02:59:24.7	+19:42:20	8.4	0.0014 ± 0.0009	1.00 ± 0.00	-0.10 ± 0.30	13.4	−2.57	G1	3.44	...	...
72	RXJ0259.4+1926	02:59:29.9	+19:26:25	66.6	0.010 ± 0.002	0.84 ± 0.17	0.40 ± 0.11	17.2:	−0.19	...	...	...	Radio Src.
73	RXJ0259.7+1915	02:59:44.1	+19:15:49	13.8	0.001 ± 0.002	1.00 ± 0.00	0.74 ± 0.31	15.7:	−1.80	...	...	...	...
74	RXJ0259.7+1932	02:59:45.0	+19:32:48	380.7	0.021 ± 0.002	1.00 ± 0.00	0.43 ± 0.05	17.1:	0.08	...	...	...	...
75	RXJ0259.8+2013	02:59:50.1	+20:13:36	10.1	0.002 ± 0.002	-1.00 ± 0.00	-1.00 ± 0.00	...	...	...	...	...	...
76	RXJ0259.9+1945	02:59:59.1	+19:45:31	18.1	0.008 ± 0.002	0.09 ± 0.22	0.41 ± 0.23	...	...	...	...	...	...
77	RXJ0300.4+2011	03:00:24.4	+20:11:22	11.2	0.007 ± 0.002	1.00 ± 0.00	0.24 ± 0.18	17.5:	−0.23	...	...	...	...