Table 1. Low-mass X-ray binaries

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
0042+323 XN Per 1992 U,M,A,AS,R,B,X	T x 60"	00 42 08.5 +32 44 53 121.3, -29.8	*3 [168]	19.3, 0.6, - - 0.2 [168]	<0.5-55 [103]	

Pos.: [1070]; transient: [726,1070,1402]; opt. cpt. uncertain: [74].

J0422+32 C,Gr,R,K,AS,X	T o,r	04 18 29.9 +32 47 24 197.3, -11.9		13.2, 0.3, -0.5 0.23-0.4 [1151,1158,1159]	3000 (20-300 keV) [433,991]	5.1 [125,150,664,980]

Pos.: [871]; outburst: [156,991,1160]; hard X-rays: [131,1341]; QPO: [692,1325]; X-ray phase lag: [479,1325]; BHC: [157,1042,1243]; opt. cpt.: [157]; opt. sp.: [88,151,408,1391]; opt. phm.: [126,193,675]; opt. sp. and phm.: [54,159,835,980]; 10 μm emission: [1357]; UV/opt./radio obs.: [1159]; UV/opt. sp.: [591]; opt. sp. and phm./X ray: [125]; 16.18 hr period?: [835]; UV sp.: [1158]; orbital parameters: [675,980]; M2V star: [365]; BHC mass: [66,126,151,365,408]; distance: [126,1159]; IR lt. curve: [66]; radio obs.: [493].

0512-401 U,M,A,H,G,Exo	GB x 2"	05 12 27.9 -40 06 00 244.5, -35.0	NGC1851 [475]	 0.1: [2]	3-6 [124,999,1366]	

Pos.: [475,525]; opt. studies glob. cl.: [2,29,278,528,1109]; cluster center: [525,1154]; cluster moderately metal poor: [10]; X rays: [124,345]; X-ray bursts: [216,225,382]; radio obs.: [785].

0521-720 LMC X-2 U,M,A,H,X,R	Z? o 3"	05 21 18.0 -72 00 26 283.1, -32.7	*22 [637]	18.0-19.0, 0.0, -0.8 0.1 [121,260,778]	9-44 [103]	8.16 [121,1173]

Pos.: [103]; X-ray obs.: [1231]; Z source?: [1130,1173]; opt. id.: [774,992,993]; 12.5 d orb. period(?): [260]; coordinated X-ray/opt. obs.: [89]; opt. spectrum: [89,923]; near-IR spectrum: [255].

J0532.7-6926 R	 x 3.9"	05 32 42.8 -69 26 18 279.9, -32.1			0.5 [484]	

Pos.: [1119]; in LMC: [484]; black hole candidate (?): [484].

0614+091 U,M,A,H, S,Gr,E,Exo,X,B	AB o	06 14 22.8 +09 09 22 200.9, -3.4	V1055 Ori [323,447]	18.5, 0.3, -0.5 0.3 [287]	50 [1399,1448]	

Pos.: [103]; X-ray obs.: [42,1043]; X-ray bursts: [108,109,782,1250]; atoll source: [876,1163]; kHz QPOs: [374]; kHZ QPO study: [378,1364]; millisecond pulsation: [374]; hard/soft X-ray anticorrelated: [377]; hard X-ray lag: [375]; opt. cpt.: [287,939]; optical spectrum: [786]; coordinated X-ray/opt. obs.: [786]; long-term variability: [786,830]; radio obs.: [333]; distance: [109].

0620-003 N Mon 1975 A,S,R	TU o	06 20 11.1 -00 19 11 210.0, -6.5	V616 Mon [331,447]	11.2, 0.2, -0.8 0.4 [1407]	<0.02-50000 [774,1407]	7.75 [857]

Pos.: [103]; bright transient 1975: [343,1407]; previous outburst 1917: [336]; hard X rays: [233]; optical outburst: [967,1407]; 7.8 day modulation in outburst: [332,771,849,1057,1095,1300,1401]; quiescent X rays: [300,774]; quiescent opt. spectra (K5) & mass function (BH): [512,635,820,857,858,941]; UV obs.: [859,869,1452]; near-IR sp.: [255,1149]; near IR phm. obs.: [1138]; long-term lt. curve: [737]; quiescent opt. phm., V_{quiesc}= 18.2: [857,858]; orbital light curves: [513]; opt. polarimetry: [316]; radio obs.: [293,333,416,989]; multiple radio jet ejection: [718]; distance: [1138]; model: [347].

0656-072 A	T x 3'	06 56 01 -07 11.7 220.2, -1.7			20-80 [143,215,656]	

Pos.: [143]; relatively soft X-ray spectrum: [230].

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
0748-676	TBD	07 48 25.0 -67 37 32	UY Vol	16.9-17.5, 0.1, -0.9 0.42	0.1-60	3.82
Exo,AS,R,G,X	o	280.0, -19.3	[1262]	[1125,1128]	[443]	[998,1001]

Pos.: [1262]; orbital decay: [12,533,1001,1180]; X-ray obs.: [212,401]; X-ray dips: [998,1180,1181]; X-ray spectrum: [1420]; X-ray bursts: [282,443,444]; soft X-ray excess: [1279]; QPOs: [573,577]; X-ray/opt. obs.: [1278]; optical spectra & photometry: [253,259,929,1125,1352]; near-IR sp.: [255]; a triple system(?): [239]; not a triple sys.: [532]; $V_{quiesc} > 23$: [1262].

J0835.9+5118	TB	08 35 56 +51 18.6			< 6	
B	x 3'	167.5, 36.9			[399]	

Pos.: [399]; type-I X-ray burst (?): [399]; peak flux of burst of 1 Crab (2-25 keV): [399].

0836-429	TB	08 35 37 -42 42.6			1-55	
U,M,Gr,G,R	x 1'	261.9, -1.1	[72]		[230,511,794]	

Pos.: [511,1239]; 10" error J2000 pos. (08 37 23.6, -42 54 02): [72]; northern of two X-ray sources: [450,795]; X-ray bursts: [7,794,795]; X-ray/opt. obs.: [72]; likely MX 0836-42: [230,813].

0918-549		09 18 54.7 -54 59 37	*X	21.0, 0.3, -0.9 0.3	10	
U,M,A,H,S	x 5"	275.9, -3.8	[187]	[187,1348]	[187]	

Pos.: [187]; optically underluminous (?): [187]; X-ray line emission: [1130].

0921-630	D	09 21 25.1 -63 04 48	V395 Car	15.3, 0.6, -0.5 0.2	3	216.2
A,S,Exo	o	281.8, -9.3	[760]	[113,186,847,1348]	[760,847]	[846,847]

Pos.: [103]; partial X-ray eclipse (ADC source): [847]; high-resol. sp., secondary star K0 III: [1148]; halo object: [251]; opt. obs.: [185,186]; opt./X-ray obs.: [113]; near-IR sp.: [255]; radio: [1471]; orbital period 13.25 d (?): [703].

1009-45 XN Vel 1993	TU	10 11 32 -44 49 41	*1	14.71, 0.13, - - 0.20	800 (1-10keV)	
C, AS, Gr	o	275.4, +9.4	[306,1140]	[306]	[1263]	

Pos.: [302]; BHC: [430,704,1140]; hard X-ray obs.: [430,704]; distance 1.5-4.5 kpc: [306,1361]; orbital period 4 hr, or 4.79 hr, or 6.86 hr: [306,839,1140]; Hα emission: [306,1140]; binary inclination: [1140]; opt. obs.: [306,839,1140]; opt outburst: [28]; opt. reflare: [839]; sp. type later than G5: [306,1140].

J1118+480	TA?	11 18 10.85 +48 02 12.9	*1	12.25-18.8, - -, - - <0.024	40 (2-12keV)	4.1
AS,X,C	o 0.2"	157.6, +62.3	[1312]	[410,1312]	[1084]	[232,1312]

Pos.: [1312]; transient: [1084]; first BHC in galactic halo (?): [1090,1312]; IR obs.: [177]; inclination angle: [232,410,598,1312]; low X-ray to opt. flux ratio: [232,1312]; QPOs: [515,1090,1454]; distance and sp. type: [1312]; UV var. lags behind X-rays by 1-2s, and characteristic of an atoll-type source: [515]; radio cpt.: [1049]; radio obs.: [314]; multiwvl. obs. during low-hard state: [598]; EUVE obs.: [854]; UV obs.: [514]; opt. obs.: [232,1007,1312,1451]; sp. typical of an X-ray nova in outburst: [410].

1124-684 N Mus 1991	TU	11 24 18.5 -68 24 02		13.6, 0.3, - - 0.25	<4-3000	10.4
Gr,G,C	o	295.0, -6.1	[303]	[303,435]	[1235,1241]	[27,867,1075]

Pos.: [303]; bright X-ray transient Jan. 1991: [107,452,680,781,1235]; hard X-ray sp., strong soft component: [337,1235]; annihilation line near 500 keV: [422,432,1242]; QPO: [75,1259]; similar to 0620-000: [304]; opt. outburst: [27]; opt. sp. & phm. obs.: [307]; mass function suggests BH accretor: [867,1075,1144]; UV obs.: [179,435]; radio obs.: [32,670]; radio burst: [32]; quiescent ellipsoidal lt. curve: [867,1129]; in quiescence B=20.9, V=20.4: [303,867]; secondary K0-4V: [1075]; IR lt. curve: [1144]; distance: [1144].

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
1254-690	BD	12 54 21.0 -69 01 08	GR Mus	19.1, 0.3, - - 0.35	25	3.93
U,M,A,H,S,X,G	o	303.5, -6.4	[463]	[927]	[247]	[247,927]

Pos.(*sourceD*): [103]; X-ray bursts, X-ray dips: [247]; X-ray spectrum: [539,843,1130,1420]; X-ray/opt. obs.: [1175]; opt. burst: [843]; X-ray obs.: [1315]; opt. spectrum: [253]; opt. light curve & spectrum: [927]; near-IR spectrum: [255].

1323-619	BD	13 23 16.8 -61 52 36		∼5:	7	2.93
U,M,A,B	x 3"	307.1, +0.2	[1000]	[1000]	[1000,1399]	[1000]

Pos.(*sourceD*): [1000]; X-ray obs.: [35]; X-ray bursts & dips: [1000,1330]; QPO: [642].

1354-645 Cen X-2?	TU	13 54 27.5 -64 29 29	BW Cir	16.9, 1.1, -0.1 ∼1:	5-120	
M,G ,X	o	310.0, -2.8	[678]	[678]	[678,1135]	

Pos.: [678]; outburst: [678,1089]; pos. consistent with transient Cen X-2 (1967): [202,389,506,813]; opt. id.: [678]; opt. sp.: [119,253]; possible 50.0 hour period during decline: [146]; near IR phm.: [1201]; $R_{quiesc} \sim 22$: [678]; probable radio cpt.: [356].

1455-314 Cen X-4	TB	14 55 19.6 -31 28 09	V822 Cen	12.8, 0.05, -0.9 0.1	0.1-20000	15.10
V,A,Ha,AS,B,R	o	332.2, +23.9	[141]	[84,141]	[231,1350]	[196,254,858]

Pos.: [103]; transient: [99,231,348,658,852]; quiescent X rays: [16,133,135,1350]; opt. outburst sp. & phm.: [141]; K5-7 secondary: [196,858,1347]; near-IR sp.: [255]; IR phm. & sp. obs.: [1137]; $V_{quiesc} \sim 18.3$: [858]; optical quiescent lt. curve.: [196,858]; UV: [84,859]; X-ray bursts: [67,852]; no X-ray eclipses: [1423]; radio obs.: [541,550].

1516-569 Cir X-1	TBA	15 16 48.4 -56 59 12	BR Cir	21.4, - -, - - >1.0	5-3000	398.4
U,M,A,H,S,AS,X	r	322.1, +0.0	[916]	[916,1216]	[103]	[655]

Pos.: [9]; orbital variations: [655,955,1274]; X-ray obs.: [324]; X-ray spectrum: [110,780]; Fe K line: [111]; distance: [438]; QPO: [1157,1274,1275]; X-ray bursts: [1276,1277]; atoll source: [972]; opt. cpt.: [9,916]; not the opt. cpt. in [1408]; opt. lt. curve: [916]; opt. sp.: [334,636]; IR obs: [424,426]; long-term weakening in K band: [916]; radio obs.: [333,516,1217,1408]; correlated radio/X-ray obs.: [1216]; connection SNR (?): [214]; high kick velocity: [1266]; high eccentricity: [636,972,1266]; VLBI obs.: [1055]; model: [942].

1524-617 TrA X-1	TU	15 24 05.8 -61 42 35	KY TrA *N	17.5B, - -, - - 0.7	<5-950	
A,S,R.Gr	o 3"	320.3, -4.4	[940]	[940]	[103]	

Pos.: [103]; X-ray outburst in 1977: [654]; ultra-soft X-ray spectrum: [1410]; X-ray obs.: [47]; hard component in quiescent X-ray spetrum: [44,1228]; optical outburst: [940]; $V_{quiesc} > 21$: [940].

1543-475	TU	15 43 33.9 -47 30 54	star	14.9, 0.6, - - 0.7	<1-15000	26.95
U,M,T,C	o	330.9, +54	[183]	[1025,1340]	[103,676]	[984]

Pos.: [1025]; opt. id.: [1021,1025]; ultra-soft X-ray spectrum, Fe Kα emission: [200,1211,1340]; X-ray outbursts: [498,676,759,848]; γ-ray obs.: [478,741]; quiescent opt. phm.: [183]; quiescent V=16.7, B=17.5: [183]; triple star (?): [183]; opt. sp., spectral type A2 V: [984]; mass function (BHC): [984]; distance of 9.1 kpc: [984].

1543-624		15 43 34.1 -62 24 51	*6	≥20(B), - -, - - 0.5	35
U,M,A,H,S,Exo	o	321.8, -6.3	[8]	[860]	[1399]

Pos.: [103]; X-ray obs.: [1164]; opt. cpt.: [860].

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
J1550-564	T	15 50 58.78 -56 28 35.0		16.6-21.4, 1.35, - - 0.7-1.6	600-7000	36.96
X,AS,C	o 2"	325.9, -1.8	[630]	[629,630,1114]	[272,1080]	[631]

Pos.: [630]; discovery: [1188]; distance 2.5-6 kpc: [1114,1194]; radio counterpart: [138]; X-ray light curve: [1196]; BHC: [272,1194,1196]; opt obs.: [160,630,1114]; X-ray sp.: [1196]; orbital period of 1.398 d from X-ray obs.: [271]; mass of the BH: [1196]; X-ray spectral parameters: [1196]; low-freq. QPOs: [272,1082,1194]; higher QPO at 182 Hz: [576,868,1082]; phase lag: [274,1439]; very bright X-ray nova: [1080]; two different types of low freq. QPO: [1439]; a QPO at 284Hz and then settled back to 182 Hz: [576, 1081]; strong aperiodic X-ray variability: [272]; opt. flare: [1114]; sp. type K0-K5 V: [1114].

1556-605		15 56 45.8 -60 35 52	LU TrA *X	18.6-19.2, 0.45, -0.7 0.6	16	9.1:
U,M,A,H,S	o	324.1, -5.9	[928]	[928,1127]	[928,1399]	[1170]

Pos.: [103]; opt./X-ray obs.: [928]; opt. phm.: [1127]; opt. spectrum: [253]; proposed orbital period of 9.1 hr requires confirmation: [1170].

1603.6+2600		16 03 40.5 +25 59 48	UW CrB	19.7, - -, - - <0.1	0.15 (0.3-3.2 keV)	1.85
E,R	o	42.8, +46.8	[488]	[921]	[921]	[921]

Pos.: [921]; period of a CV but opt. sp. of an LMXB: [921]; X-ray/opt. phm. obs., a BHC rather than a NS: [488].

J1603.9-7753	TB	16 03 54 -77 53.1			160	
B	x 3'	312.4, -18.7			[933]	

Pos.: [933]; event lasted 40 s: [933]; not detected 1.1 day before: [933].

1608-522	TBA	16 08 52.2 -52 17 43	QX Nor	I$\sim$18.2, - -, - - 1.5	<1-110	
U,M,H,S,AS,C,X	o	330.9, -0.9	[470,1382]	[470,1028]	[103]	

Pos.: [470]; outbursts: [351,653,772,813,1264,1461]; X-ray bursts: [68,445,467,935,936,938,946,947,1028]; off-state X-ray emission: [814,1264]; X-ray sp.: [539,908,1108,1245,1420]; atoll source: [507]; kHz QPOs: [78,877]; kHz QPOs peak separation not const.: [879]; millisecond time lag: [1364]; freq. correlated with count rate: [1457]; long-term X-ray obs., likely orbital period 4.1 d: [773]; I_{quiesc} >20: [470]; opt./IR phm.: [1382].

1617-155 Sco X-1	Z	16 17 04.5 -15 31 15	V818 Sco	12.2, 0.2, -0.8 0.15-0.3	14000	18.90
U,M,A,H	o	359.1, +23.8	[447,1115]	[397,537,1379]	[1399]	[442,727]

Pos.: [103]; X-ray sp.: [539,628,649,650,780,1245,1380,1418]; QPO: [509,753,890,1061,1327,1332]; kHz QPOs: [1328]; kHz QPOs peak separat. not const.: [1338]; Z source: [507,1131]; no orb. X-ray var.: [1058]; X-ray lt. crv.: [873]; no X-ray pulsations: [531,1449]; hard X rays: [628,1103,1305]; X-ray/opt./radio obs.: [104,139]; X-ray/opt. obs.: [18,602,918,1037]; X-ray/UV obs.: [652]; X-ray/radio obs.: [553]; opt. obs.: [537]; radio obs.: [1,548,1387]; VLBI obs.: [102]; opt. sp.: [1122]; UV obs.: [651,1379,1441]; near-IR sp.: [255]; no radio lobes: [373]; P_{orb}=3 hr: [101]; review (1977): [911]; distance 2.8 kpc: [102].

1624-490	D	16 24 17.8 -49 04 46		$\sim$7	55	21
U,M,A,H,S,X,B	x 12"	334.9, -0.3	[1072]	[1404]	[1399]	[640]

Pos.: [103]; X-ray obs.: [1185]; X-ray dips: [640,1404].

1627-673	P	16 27 14.7	KZ TrA	18.5, 0.1, -1.2	25	0.69
U,M,A,H,S,		-67 21 18	*4	0.1		7.7
B,R,AS,C,X,Exo	o	321.8, -13.1	[105,633]	[861,1348]	[872]	[891,943]

Pos.: [103]; X-ray obs.: [164,855,990]; X-ray pulsations: [672,943]; X-ray spectrum: [1380]; X-ray pulse-phase spectrum: [1050,1416]; 1000 sec flaring: [762]; QPO: [1156]; aperiodic variability: [70]; cyclotron resonance feature: [979]; orbital parameters: [738]; opt. pulsations: [161,601,891]; opt. QPO: [161]; opt. spectrum: [253]; evolution: [1367].

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
1630-472	TUD	16 30 19.4			<2-1400	
		-47 17 24		4.5		
U,M,A,C,X,B,G,E	x 10"	336.9, +0.3	[997]	[997]	[103]	

Pos.: [997]; QPOs: [315,1289]; X-ray outburst: [976]; recurrent transient (~600 d interval): [639,1003,1057]; BHC: [49,716]; X-ray dip: [1291]; Fe emission line: [273]; radio cpt.: [562]; very soft X-ray sp., hard X-ray tail: [997]; search for IR cpt.: [130].

1632-477		16 32 46			13	
		-47 43 32				
K	x 1.1'	336.9, -0.4			[611]	

Pos.: [1240].

1636-536	BA	16 36 56.4	V801 Ara	17.5, 0.7, -0.7	220	3.80
		-53 39 18	*3	0.8		
U,M,A,H,S,X,Exo	o	332.9, -4.8	[633]	[730,861]	[1399]	[1354]

Pos.: [103]; X-ray bursts: [114,282,567,609,752,966,1226,1247,1253,1303,1334,1349,1395]; millisecond pulsation: [1466]; spin-down: [1219]; kHz QPOs: [1433]; kHz QPO study: [880,1364]; X-ray sp.: [539,780,1063,1318,1380,1420]; atoll source: [507,1131]; opt. lt. curve: [1022,1125,1174,1354]; opt. cpt.: [861]; opt. bursts: [730,853,1023,1024,1125,1298,1304]; opt sp.: [140,253]; reddening: [730,1348].

1642-455	Z	16 42 09.5			500	
GX 340+0		-45 31 13		12:		
U,M,A,H,S,X	r	339.6, -0.1	[8]	[527]	[1399]	

Pos.: [1033]; Z source: [507,1131]; QPO: [753,1032,1327,1353]; kHz QPO and a new broad component: [641,645]; X-ray spectrum: [1380]; no X-ray pulsations: [1449]; radio/X-ray obs.: [971]; radio obs.: [471,1033].

J1655-40	TD	16 54 00.137	*1	14.2-17.3, 1.0, - -	1600	62.88
XN Sco 1994		-39 50 44.90		1.1-1.3	(2-12 keV)	
C,AS,X,R,Gr	o	345.0, +2.5	[30,1324]	[30,593]	[1076]	[30,1323]

Pos.: [30]; discovery: [1458]; not the same source of 1ES 1649-403: [69]; γ-ray obs.: [702]; absorption line in X-ray sp.: [1310]; opt. sp. obs.: [30,80,981,1147,1150,1202]; the BHC mass: [31,981,1040,1147,1202,1323,1324,1462]; opt. polarimetric obs.: [428,1121]; opt. phm. obs.: [30,31,981,1323,1324]; red- and blue-shifted iron line: [36]; radial velocity curve: [1040,1150,1202]; inclination angle: [30,544,981,1323,1324,1462]; repeated outbursts separated by 120 d: [1459]; opt. lt. curve: [30,1323]; X-ray lt. curve: [739,1268]; radio cpt.: [137]; radio flux lt. curve: [1268]; distance of 3 kpc: [30,458,544,1287]; superluminal radio jets: [503,544,1287]; two kinds of hard X-ray outbursts: [1268]; secondary F3-F6 IV: [31,981]; going through the three states: [878]; opt. and UV brightened: [583]; rapid var. between the opt./UV and X-ray emission, reprocession of X-ray into opt. and UV emission: [592]; multiwvl. obs.: [593,1268]; anticorrelation of X-ray and opt. emission: [593]; anticorrelation between high accretion luminosity and radio jet ejection: [874]; time delay between the opt. and X-ray outbursts: [491,983]; broadband (1 keV- 2 MeV) X-ray sp.: [1292,1462]; X-ray sp.: [1195]; QPO: [1083]; X-ray dips: [717,720].

1656+354	P	16 56 01.7	HZ Her	13.0-14.6, -0.2, -0.9	15-50	40.80
Her X-1		+35 25 05		<0.05		1.24
U,M,A,H,G,X,B,AS		58.2, +37.5	[326,447]	[100,483]	[872,1448]	[297,943]

Pos.: [103]; X-ray obs.: [299,732,1004,1133,1152]; X-ray pulse profile, NS precession (?): [1198,1199,1299]; orb. period decrease: [298]; X-ray sp.: [280,780,895,975,978,1380,1416]; cyclotron line: [894,1297,1302]; X-ray pulse-phase sp.: [344,1200]; aperiodic var.: [70,71]; X-ray behaviour chaotic: [958,1372]; 35-day cycle: [964]; X-ray eclipse: [295]; X-ray orbit: [297]; opt. lt curve: [6,25,26,86,784]; 35 day effect opt. lt curve: [100,184,296,417]; extended low state: [995]; low-state opt. lt curve: [301,906]; off-state opt. lt curve: [586,638]; opt. sp.: [256,257,258,688,1091]; opt. radial-velocity curve: [590]; near-IR sp.: [255]; opt. pulsations: [889,892,893]; 35-day effects opt. sp.: [590]; optical polarimetry: [338]; UV/opt. obs.: [1374]; UV: [5,180,335,483,584,585]; EUV: [92,733]; disk precession (?): [686,1038,1039,1067]; multiwvl. obs.: [91,1381]; evolution: [1367]; strange star: [764]; not a strange star: [787].

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
1658-298	TBD	16 58 55.4	V2134 Oph	18.3, 0.45, -0.4	<5-80	7.11
		-29 52 28	*T	0.3		
A,H,X	o	353.8, +7.3	[330]	[330,954]	[103]	[228]

Pos.: [103]; X-ray dips: [226,227]; X-ray bursts: [225,746,749,1153]; opt. spectrum: [20,140,253]; opt. phm.: [1385,1386]; X-ray reappearance after 21 yr quiescence: [1386].

1659-487	TU	16 59 02.0	V821 Ara	15.5, 0.8, -0.1	1.5-900	14.83
GX339-4		-48 43 07	*V	1.1		
U,M,A,H,K,B,X,C	o	338.9, -4.3	[122,330]	[252,800,1348]	[603,912]	[122,582]

Pos.: [103]; high-low-off X-ray states/ optical state correlated: [603,800,810,912,925,926]; X-ray/opt. obs.: [687]; a state transition: [76]; Fe line at 6.4 keV: [1442]; a sequence of X-ray outbursts: [1104]; off state B>21: [589,599]; radio/X-ray/γ-ray obs.: [1192]; X-ray QPO: [451,912,1210]; rapid X-ray var.: [70,789,913,1191]; hard X rays: [317,369,1295]; X-ray halo: [1053]; X-ray spectrum: [1380]; X-ray obs.: [448,502,963,1470]; long-term radio/soft-/hard X-ray campaign: [235]; very soft X-ray sp. component: [800,912]; opt. QPO: [607,924,925,1209]; opt. spectrum: [237,252,253,330,464,1193,1204]; opt. millisec. pulsations (?): [606]; near-IR sp.: [255]; radio obs.: [357,495]; radio emission correlated with hard X-ray emission: [361].

1702-363	Z	17 02 22.9	*6	18.6, 1.5, - -	825	21.85-22.5
GX349+2		-36 21 20		1.3:		
U,M,A,H,S,X	r	349.1, +2.7	[234,1026]	[234,1026]	[1399]	[55,1383,1384]

Pos.: [234]; Z source: [507]; odd Z source, similiar to bright atoll source: [710]; X-ray obs.: [539,1131]; X-ray spectrum: [709,780,1380,1420]; QPO: [753,1045,1327]; kHz QPOs: [1468]; orbital period of 14.9 d(?): [55,1207]; radio obs.: [234,416,471].

1702-429	BA	17 02 41.0			45	
		-42 58 09		2.5		
U,M,S,X	x 5"	343.9, -1.3	[527]	[527]	[634,970]	

Pos.: [527]; atoll source: [970]; X-ray bursts: [798,817,970,1008,1248]; kHz QPOs: [817]; radio obs.: [471].

1704+240		17 04 29.7	HD 154791	7.8, 1.3, 2.1	<0.5-11	
		+24 02 14		0.3		
A,H,R	o	45.2, +33.0	[403]	[403]	[103]	

Pos.: [103]; opt. sp. & phm.: [1288]; sp. type of opt. cpt. M3 II: [403]; opt. sp.: [413]; UV: [403]; HMXB (?): [279].

1705-250	T	17 05 10.4	V2107 Oph	15.9, 0.6, - -	<2-3600	12.5
N Oph 1977		-25 01 38		0.5		
A,H	o 2"	358.2, +9.1	[462]	[462]	[103]	[366,1077]

Pos.: [103]; X-ray outburst 1977: [1401]; very soft X-ray spectrum with hard tail: [233,1444]; opt. sp. & phm.: [1077]; $B_{quiesc} \sim 21$: [462]; P_{orb}=16.8 h: [834]; large mass function: [366]; sp. type of K3-7: [366,1077]; distance: [834,1077].

1705-440	BA	17 05 17.9			10-280	
		-44 02 13		2:		
U,M,A,S	x 13"	343.8, -2.3	[1072]	[722]	[722,1399]	

Pos.: [103]; atoll source: [507]; X-ray spectrum: [1130,1380]; kHz QPO: [379]; hard lag: [381]; X-ray bursts: [446,722]; X-ray power spectra: [723]; unusually hard sp.: [77]; X rays: [1131]; long-term on-off (223d?): [1056,1057]; radio obs.: [333].

1708-408		17 08 53			32	
		-40 47 02				
U,M,A,H	x 1'	346.3, -0.9			[611]	

Pos.: [611].

J1709-267	TB	17 09 30.2			150	
		-26 39 27				
X,R,B	x 2'	357.5, +7.9			[825]	

Pos.: [1373]; X-ray nova: [825]; the same source as 1RXS J170930.2-263927: [218]; type-I X-ray burster: [218]; possible radio cpt. [545] out of the ROSAT error: [218]; a possible LMXB containing a NS: [218]; X-ray light curve: [218]; distance: [218].

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
J1710-281	TB(?)	17 10 12.3 -28 07 54			2	
X,R	x	356.4, +6.9			[816]	
Pos.: [816]; type I X-ray burst (?): [819]; the same source of 1RXS J171012.3-280754: [816].						
1711-339	T	17 11 01.3 -33 59 32			16-130	
H,S,R	x 40"	352.1, +2.7	[453]		[103]	
Pos.: [103]; radio obs.: [453]; recurrent X-ray emission: [1074].						
J1712.6-3739	TB	17 12 34 -37 38.6			34 (2-9 keV)	
B	x 3'	348.9, +0.94			[619]	
Pos.: [619]; type I X-ray burst with peak flux 1.7 Crab units (2-26 keV): [220].						
1715-321	B	17 15 32.3 -32 07 34			28	
M,A,H,S	x 23"	354.1, +3.1	[1072]		[812,814,1399]	
Pos.: [103]; X-ray bursts: [569,796,1270].						
1716-249 XN Oph 1993	T	17 16 32.52 -24 58 01.1	V2293 Oph	16.65-21, 0.9, - - 0.9	1500 (20-100 keV)	14.7
Gr,K,C,AS	r 0.5"	359.8, +7.6	[305,838]	[305]	[501]	[838]
Pos.: [901]; discovery: [33,500]; GRO source J1719-24: [500]; BHC: [838]; opt. and radio counterpart: [305]; opt. photometric and sp. obs.: [305,838]; distance ~2.4 kpc: [305]; sp. type K or later: [305]; X-ray light curve: [501,555,1085]; QPOs: [1321,1322]; hard X-ray lags: [1326]; broadband X-ray sp.: [1085]; X-ray and radio flare: [555].						
J171824.2 -402934	B	17 18 24.13 -40 29 30.4			1400	
R,B	x 15".7	347.3, -1.6	[931]		[662]	
Pos.: [931]; distance of 6.5 kpc: [662]; no optical counterpart to be identified: [931]; type I X-ray burst: [662].						
J1723-376	TB	17 23 38 -37 39.7			70	
X,AS	x 0.5'	350.2, -0.86			[821]	
Pos.: [828]; QPO at 816 Hz: [821]; type I X-ray burst: [828].						
1724-356		17 24 18 -35 41 36			32	
K	x 1.3'	352.2, -0.5			[611]	
Pos.: [611].						
1724-307	GBA	17 24 20.1 -30 45 39	Ter 2	1.4	15	
E,X,AS,B,R	x 3"	356.3, +2.3	[475]	[10,803]	[999,1366]	
Pos.: [475,525]; X-ray obs.: [52,480,969]; Fe line: [53]; opt. study globular cluster: [203]; cluster metal rich: [10]; structure gl. cl.: [528]; X-ray bursts: [474,914,1249]; hard X-ray obs.: [43]; IR obs.: [203]; radio/X-ray obs.: [253]; radio obs.: [471].						
1728-337 GX 354-0	BA	17 28 39.2 -33 47 55		K=15.1 3.5:	150	
U,M,A,H,S,C,X	x 5"	354.3, -0.2	[469]	[527]	[1366,1399]	
Pos.: [525]; atoll source: [507]; not in globular cl.: [469,1344]; X-ray bursts: [56,386,565,566,570,571,661,1008]; QPO study: [376,875]; kHz QPO and 2.75 ms pulsation: [1221,1223]; X rays: [213,1131]; X-ray spectrum: [1380]; radio & IR cpt.: [832]; radio obs.: [471]; a strange star: [766].						

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
1728-169	A	17 28 50.2	V2216 Oph	16.8, 0.3, -0.7	300	4.20
GX 9+9		-16 55 32		0.3		
U,M,A,H,S	o	8.5, +9.0	[328,447]	[954,1123]	[1399]	[529,1123]

Pos.: [103]; X-ray obs.: [539,650,1131]; X-ray sp.: [780,1376,1380]; opt. cpt.: [253,288]; near-IR sp.: [255]; radio obs.: [333].

1728-247	P	17 28 57.9	V2116 Oph	19.0, - -, - -	100	340d?
GX 1+4		-24 42 35	*GF	1.7P		114
U,M,A,H,S	o	1.9, +4.8	[328]	[288,289]	[1399]	[276,943]

Pos.: [103,1167]; X-ray obs.: [286,690,728,1054]; X-ray pulsations and period history: [318,454,744,801,917,943,1111]; X-ray spectrum: [398,1094]; X-ray flare: [421]; magnetic field: [264]; correlation of torque and luminosity: [165,1009]; spin down: [1068]; X-ray correlated Hα flare: [804]; 303.8 d periodicity: [1035]; opt./X-ray sp.: [456]; X-ray pulse phase spectroscopy: [1416]; opt. cpt. M6 giant: [253,289]; opt. pulsation with 124 s: [626]; GX 1+4 unlikely to be source of 511 keV emission: [856,1015]; opt./IR/X-ray obs.: [163]; opt. phm.: [310,625]; opt. sp.: [455]; IR obs.: [166,425,427].

1730-312	T	17 30.3			900	
		-31 11				
K,Gr	x 2'	356.3, +1.6			[94]	

Pos.: [93]; discovery: [93, 206]; hard X-ray obs.: [1360]; possibly a BH X-ray nova: [94,1360]; X-ray sp.: [1360]; high resolution X-ray light curve:[1360].

1730-335	GBT	17 30 06.6	Lil 1		<0.1-200	
Rapid Burster		-33 21 13		3.0:		
S,X,AS,Exo	x 3"	354.8, -0.2	[475,767]	[10,803]	[465,1215]	

Pos.: [475,525]; X-ray obs.: [15,1106]; opt./IR obs. glob. cluster: [528,682]; very metal rich gl. cluster: [10]; recurrent transient (0.5 year?): [468,742]; type II bursts: [568,745]; type II bursts behave as relaxation oscillator: [745,829,1215,1346]; type II burst profiles: [776,1260,1272]; pre- and post-burst dips: [829,1215]; type II burst patterns: [41,708,829,944,1215]; type II burst spectra: [667,707,754,777,829,1260]; type I bursts: [41,568,708]; radio/IR/X-ray obs.: [729]; QPO: [320,754,775,1215,1269]; a likely radio cpt.: [919]; comparison with GRO J1744-28: [685,757]; radio obs.: [471].

1730-220	T	17 30 56			<10-130	
		-22 00 07				
U	x 1.7'	4.5, +5.9			[230]	

Pos.: [384]; X-ray outburst in 1972, relatively soft X-ray spectrum: [230].

1731-260	BT	17 31 06.8			<10-110	
		-26 03 10		3.2:		
K,X,Gr,R	x 1'	1.1, +3.6	[51,182]	[1230]	[1230]	

Pos.: [1230]; X-ray obs.: [46,51,53]; J2000 pos. with 10.1" error (17 34 13.5, -26 05 16.8): [51]; X-ray bursts: [1230,1232]; hard X-ray sp.: [45]; kHz QPOs: [1424]; 3.8 or 1.91 ms pulsation: [1186,1424]; IR phm.: [51]; two objects in [182] not its cpt.: [51].

1732-304	GB	17 32 34.8	Ter 1		10	
		-30 27 03		1.5-2.48		
Ha,B,Gr,H,R,Exo	x 8"	357.6, +0.9	[797]	[10,988,1405]	[999,1166,1366]	

Pos.: [999]; moderately rich globular cluster: [10]; X-ray bursts: [608,797]; X-ray obs.: [98,481,1166]; opt. phm. & distance: [988]; radio cpt.: [832].

1732-273	TU	17 32 54			<5-50	
		-27 23 42				
K,G	x 1'	0.16, +2.59	[182]		[612,792]	

Pos.: [612,1240]; position consistent with that of GS1734-275 & RX J1735.9-2726: [155,792,1455]; very soft X-ray sp.: [792].

1734-292		17 34 14			3.4	
		-29 09 02				
Gr	x 1'	358.84, +1.4	[182]		[1019]	

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
1735-269	B	17 35 08 -26 58 34			10	
SL,X,R,AS,B	x 2'	0.78, +2.40			[1166]	

Pos.: [1166]; X-ray obs.: [285,434]; type I bursts: [61]; hard X-ray emission: [53]; rapid X-ray var.: [1427].

1735-444	BA	17 35 19.3 -44 25 20	V926 Sco *5	17.5, 0.2, -0.8 0.15	160	4.65
U,M,A,H,S,B,X	o	346.1, -7.0	[633]	[492,633,1348]	[1399]	[1319]

Pos.: [103]; atoll source: [507]; X-ray obs.: [539,1131]; X-ray spectrum: [1380]; QPO: [1029]; kHz QPOs: [380,1436]; opt. cpt.: [861]; opt. lt curve: [236,1177,1319]; opt. spectrum: [140,253,862,1172,1176]; near-IR sp.: [255]; opt./X-ray variability: [238,1177]; UV: [492]; X-ray bursts: [246,750,1351]; optical bursts: [473,863]; opt. phm. and flare: [79]; radio obs.: [333,471].

1735-28	T	17 35.4 -28.45			<0.4-565	
U,M	x 7'	359.6, +1.56			[230,1166]	

Pos.: [384]; transient: [668]; soft X-ray spectrum: [230].

1736-297		17 36 21 -29 41 50			2	
Gr	x 1'	358.63, +0.7	[182]		[725]	

Pos.: [1240]; X-ray observation: [725,1019,1020]; not sure if the same source of J1739.5-2942 listed in HMXB: [931].

1737-31	T	17 36.7 -30 57			26	
Gr,C,X,AS,B	x 3'	357.3, +0.58			[822]	

Pos.: [1244]; discovery: [1244]; more accurate J2000 pos. (17 40 09, -31 02.4) with error box 0.5': [1309]; X-ray light curve: [267,1296]; X-ray sp.: [267,1296]; X-ray outburst: [267,822]; hard sp. similar to low state sp. of BHCs: [266]; possible X-ray nova and BHC: [266,267,1244,1296]; not in a soft state during outburst: [267]; distance of 8.5 kpc (?): [1244]; LMXB ?.

1737-282		17 37 47 -28 17 06			3	
SL	x 3'	0.01, +1.2			[1166]	

Pos.: [1166].

1739-278	T	17 39 28 -27 45.6		23.2, - -, - - ~4	860 (2-60 keV)	
Gr,K,X,R	x 3'	0.66, 1.17	[831]	[459,831]	[1258]	

Pos.: [1016]; discovery: [1016]; radio counterpart: [556]; J2000 opt. position (17 42 40.06±0.6", -27 44 53.2±0.8"): [831]; near-IR phm. obs.: [831]; a middle G to early K or normal B type massive star: [831]; a BH and low-mass sys.: [97]; X-ray light curve and sp.: [97,1361]; X-ray sp. analysis: [95,96]; opt. and near IR counterpart in coincidence with the radio pos.: [902]; BH X-ray nova: [95,1016,1361]; QPO at 5 Hz: [97]; distance of 8.5 kpc (?): [831].

1739-304		17 39 31 -30 29 29			9	
K	x 1.6'	358.33, -0.3			[611]	

Pos.: [1240].

1740-294 GC X-4	T(?)	17 40.6 -29 25			30	
	x 1.2'	359.36, +0.1			[262]	

Pos.: [262].

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
1740.7-2942		17 40 42.9 -29 43 26			4-30	
E,X,C,R,AS,Gr	x 12"	359.12, -0.1	[734,882,1169]		[1166,1168,1233]	

Pos.: [1169]; more accurate J2000 pos.: [1162]; X-ray obs.: [59,205,646,791,1155,1190]; long-term X rays: [245]; hard X-ray sp. (BHC): [666,805,1169,1233,1236,1238]; source of 511 keV annihilation line from GC region: [1015]; radio obs.: [899,1062,1071]; repeated outbursts of hard emission: [244]; X-ray/VLA obs.: [518]; VLA obs.: [3]; not in molecular cloud: [208,1110]; double-sided radio jet: [900]; relation with filamentary radio emission (?): [449,731]; near IR: [490]; accretion from ISM (?): [34,899].

1741.2-2859		17 41 14.7 -28 59 30			<1.5-300	
G	x 1'	359.8, +0.18			[909]	

Pos.: [909]; alternative position RA=17 41 39.8, DEC=-28 49 24: [909].

1741-293 MXB1743-29?	TB	17 41 38 -29 19 53			<5-26	
K,B,X	x 1'	359.5, -0.07	[182]		[612]	

Pos.: [612]; X-ray bursts (MXB1743-29?): [612,748].

1741-322	TU	17 41 46 -32 12 25			<2-770	
H	x 20"	357.1, -1.6			[103,1168,1448]	

Pos.: [1448]; transnt.: [329,482,653,1447]; ultra-soft X-ray sp.: [1411]; hard X-ray excess: [233]; also known as 1743-32: [1448].

1741.9-2853	TB	17 41 50 -28 52 54			7	
Gr,B	x 45"	356.0, +0.13	[182]		[1233]	

Pos.: [1020]; X-ray observation: [1237,1240]; type I bursts: [219].

1742-326		17 42 12 -32 40 28			<2-3	
Exo	x 9'	356.8, -1.9			[1168,1400]	

Pos.: [1400]; X-ray spectrum: [1455].

1742.2-2857		17 42 15.9 -28 57 49			0.1 (0.9-4.0 keV)	
E	x 1'	359.9, +0.01	[1403]		[1403]	

Pos.: [1403].

1742-294 GC X-2	B(T?)	17 42 26 -29 26			45	
A,S,AS,Gr,E,K	x 3'	359.56, -0.26			[262]	

Pos.: [262]; 1" error J2000 pos.: [1162]; X-ray obs.: [207]; type-I bursts: [747,1020]; in error boxes of MXB1743-29 and MXB1742-29: [747].

1742-289	TB(?)	17 42 26.3 -28 59 57			<9-2000	
A	r 3"	359.9, 0.00	[1403]		[103]	

Pos.: [103]; transient: [112,262,350,1064,1403]; X-ray bursts (MXB1743-29?): [747]; radio obs.: [290]; possible optical counterpart (K dwarf): [941].

1742.5-2859		17 42 30.0 -28 59 01			1-5	
E,R	x 1'	359.95, -0.05	[1403]		[1166,1233,1403]	

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
1742.5-2845		17 42 32.5 -28 45 44			0.15-26 (0.9-4.0 keV)	
E	x 1'	0.14, +0.06	[1403]		[1403]	
Pos.: [1403].						
1742.7-2902		17 42 42.1 -29 02 13			0.2 (0.9-4.0 keV)	
E	x 1'	359.9, -0.11	[1403]		[1403]	
Pos.: [1403]; in error box MXB1743-29: [747].						
1742.8-2853		17 42 49.4 -28 53 41			0.2 (0.9-4.0 keV)	
E	x 1'	0.06, -0.063	[1403]		[1403]	
Pos.: [1403]; in error box MXB 1743-29: [747].						
1742.9-2852		17 42 54.3 -28 52 05			0.2 (0.9-4.0 keV)	
E	x 1'	0.09, -0.06	[1403]		[1403]	
Pos.: [1403]; in error box MXB 1743-29: [747].						
1742-294 GC X-1	B	17 42 54.7 -29 29 58			60-180	
A,Gr	x 1'	359.56, -0.39	[634]		[1166,1233,1399]	
Pos.: [526]; transient, X-ray bright since 1975: [112,207,262,350,666,1064,1166,1168,1237,1403]; X-ray bursts (MXB 1742-29?): [747,1008,1233,1240].						
1742.9-2849		17 42 59.2 -28 49 57			0.2 (0.9-4.0 keV)	
E	x 1'	0.13, - 0.0626	[1403]		[1403]	
Pos.: [1403].						
1743.1-2843		17 43 08.9 -28 43 00		45:	0.5-12	
E,AS,B	x 1'	0.25, -0.03	[1403]	[1233]	[1166,1233,1403]	
Pos.: [1403]; X-ray obs.: [666,1237]; in error box MXB 1743-28: [747]; long-term X-ray obs.: [261].						
1743.1-2852		17 43 08.9 -28 52 36			0.2 (0.9-4.0 keV)	
E	x 1'	0.11, -0.11	[1403]		[1403]	
Pos.: [1403]; in error box MXB1743-29: [747].						
1743-288 GX +0.2,-0.2	TB	17 43.9 -28 52.6			<1-40 [262,1064,	
A,B,X	x 2'	0.21, -0.25	[1403]		1166,1403]	
Pos.: [1064]; same source of SAX J1747.0-2853 (17 47 03.1, -28 52 30; J2000, 30"): [62,136,613]; X-ray history: [1064]; type-I bursts: [613,1161]; probably same source as GC X-3: [262].						
1744-299		17 44 13.4 -29 58 41		>7.5:	6	
SL,B	x 1'	359.3, -0.89		[1168]	[1168]	
Pos.: [1168]; X-ray obs.: [1162]; northern component of two X-ray sources separated by 3': [1168].						

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
J1744-28	TBP	17 44 33.1			4700	284.02
		-28 44 29			(8-20 keV)	0.467
C,K,AS,X,Gr	x 10"	0.04, +0.31	[19]		[1120]	[367]

Pos.: [19]; comparison with SMC X-1: [763]; comparison with the Rapid Burster (MXB 1730-335): [757]; the VLA radio source [388] slightly outside the ASCA error circle: [322]; hard X-ray spectroscopy: [1218]; dip after burst: [957,1218]; phase lag during burst: [1218]; QPOs: [685,1222,1465]; magnetic field: [82,264,367,1069]; major outbursts: [370,693,695]; small outbursts: [419,627]; dip following some outbursts: [957,1246]; type II burst: [142,693,757]; bursts during low persistent state likely type I: [82]; arrivel time of the pulse during bursts shifted.: [85,689,1208,1218]; X-ray sp.: [957,1246]; distance: [224,957]; X-ray luminosity largely exceeding the Eddington limit of a NS: [419,627]; iron feature in X-ray sp.: [957]; a stranger star: [181]; orbital parameters: [367]; very low mass function: [367]; system parameters: [1069]; near IR obs.: [19]; IR counterpart (?): [19]; evolutionary history: [284,1069,1225,1359]; the burst source and the pulsar are one and the same source: [694]; the NS formation from collapse of white dwarf: [1359]; link between the LMXBs and recycled binary pulsars (?): [1069]; similar X-ray sp. of the bursts and persistent emission: [116,1246]; spin-up of pulse period: [368]; opt. and near IR obs.: [224]; X-ray obs. of the second outburst and comparison with the first: [1450]; 589 Hz millisecond pulsation likely from MXB 1743-29 rather than this source: [1222].

1744-300	B	17 44 13.6			4	
		-30 01 29		>7.5:		
SL,B	x 1'	359.26, -0.9		[1168]	[1168]	

Pos.: [1168]; X rays: [1162]; southern component of two X-ray sources separated by 3': [1168]; X-ray bursts: [1008,1168,1240].

1744-265	BA	17 44 48.9			400	
GX3+1		-26 32 49		3.7		
U,M,A,H,S,G,X	x 3"	2.3, +0.8	[1072]	[527]	[1399]	

Pos.: [527]; atoll source: [507]; X-ray bursts: [711,799]; long-term X-ray var.: [13]; QPO: [751,753,802]; X-ray spectrum: [1380]; X-ray obs.: [1131]; IR obs.: [952]; radio obs.: [471].

1744-361	T	17 44 50.9			<25-275	
		-36 06 54				
A	x 40"	354.1, -4.2			[103]	

Pos.: [103]; X-ray transient 1976: [144,230,294]; uncertain if LMXB or HMXB.

J1745.6-2901	TB	17 45 36			0.4-2	8.4
		-29 01 34			(3-10 keV)	
AS,B	x 25"	359.9,			[788]	[788]
		-0.035				

Pos.: [1162]; type I X-ray burst and eclipse: [788]; a new LMXB: [669]; unlikely to associate with A1742-289: [669].

1745-248	TGB	17 45 51	Ter 5		<0.1-110	
		-24 52 45		2.1		
Ha,Exo	x 9'	3.8, +1.5		[1405]	[525,1400]	

Pos.: [1400]; X-ray bursts: [610,797]; transient: [815]; X-ray obs.: [1369]; radio obs.: [390]; glob. cl. properties: [1405]; deep radio obs.: [391].

1745-203	GT	17 45 55.0	NGC 6440		<0.1-180	
		-20 21 07		1.1		
U,M	x 1'	7.7, +3.8	[383,447,811]	[954,1405]	[345,383]	

Pos.: [525]; transient (1971) probably in NGC 6440: [383,811]; metal rich glob. cluster: [10]; optical study glob. cluster: [837,1154]; JHK phm. obs. of NGC 6440: [705]; X rays: [345]; radio obs.: [390].

1746-331	U	17 46 33.2			27	
		-33 11 03				
SL,R	x 35"	356.9, -3.1	[931]		[1168]	

Pos.: [1168]; heavily reddened, probably identified with 1RXS J174948.4-331215: [931]; ultrasoft: [1413]; star A is a G-K type star: [931].

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
1746.7-3224		17 46 47.3 -32 24 52			0.1	
E	x 1'	357.5, -2.6			[526,1168]	

Pos.: [526].

1746-370	GBA	17 46 48.5 -37 02 18	NGC 6441	0.50	32	5.7
U,M,A,H,S,X,B	x 2"	353.5, -5.0	[475]	[1255]	[999,1366]	[1117]

Pos.: [475,525]; metal rich glob. cluster: [10]; optical properties glob. cluster: [29,528,534]; cluster center: [525,1154]; X-ray bursts: [758,1255]; X-ray obs.: [1005,1131]; X-ray dips (?): [999]; atoll source & QPO: [644]; long-term X-ray behaviour: [1056]; radio obs.: [471]; opt. phm. of possible opt. cpt.: [311].

1747-214	TB	17 47 25.7 -21 24 33			70	
Exo	x 7"	19.8, +22.73			[996,1400]	

Pos.: [447]; X-ray bursts: [790].

1747-313	G	17 47 31.2 -31 16 45	Ter 6	1.5	1.5-20	12.36
R,Gr,B,X	x 1'	358.6, -2.2	[182]	[1405]	[1019,1052]	[620]

Pos.: [1052]; ROSAT and Granat positions within 2', likely same source: [1052,1240]; X-ray observations: [1019]; IR & opt. phm. of Terzan 6: [40,353].

J1748-288	T	17 48 05.06 -28 28 25.8			640	
X,B,I	r 0.6"	0.7, -0.21			[1220]	

Pos.: [558]; discovery: [1187]; radio counterpart: [558]; radio obs.: [359,559,1105]; radio jet: [1105]; X-ray light curve: [945,1162]; QPO: [387]; X-ray obs.: [945,1088]; BHC: [945,1088]; X-ray sp. in high and low states: [1088].

J1748.9-2021	TGB	17 48 53.4 -20 21 43	*V2 (?)	1.0	30	
B,X,R(?)	x 1'	7.73, +3.8	[1370]	[986]	[616]	

Pos.: [558]; discovery in the globular cluster NGC 6440: [616]; distance of 8.5 kpc: [986]; broad-band sp.: [616]; X-ray light curve: [616]; type I burst: [616]; the same source of MX 1746-20 (?): [616]; not clear if associate with the ROSAT source: [616]; opt. obs.: [1370]; the possible opt. cpt. with B of 22.7 mag: [1370].

1749-285	T	17 49 06			60	
GX +1.1,-1.0		-28 29 41				
SL,A	x 5'	+1.1, -1.0			[1064]	

Pos.: [1064].

J1750.8-2900	TB	17 50 24 -29 02 18			130	
B,X	x 1'	0.45, -0.94			[948]	

Pos.: [948]; discovery in Galactic center region: [60]; X-ray light curve: [948]; type I burst: [948]; burst sp.: [948]; distance of 7.0 kpc: [948].

J1752.3-3138	B	17 52 24 -31 37.7			740 (2-26 keV)	
B	x 2.9'	358.4, -2.6			[60]	

Pos.: [221]; discovery in Galactic center region: [221]; type I burst: [221]; burst sp.: [221].

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
1755-338	DU	17 55 21.5 -33 48 14	V4134 Sgr	18.5, 0.7, - - 0.5:	100	4.46
U,M,A,H,S,R,G	o	357.2, -4.9	[845]	[845,954]	[1399]	[845,1417]

Pos.: [103]; ultrasoft X-ray sp.: [1411,1420]; X-ray dips: [209,210]; X-ray obs.: [1134]; a hard power-law tail: [994]; opt. sp.: [253]; opt. study: [845].

J1755-324	T	17 55 28.6 -32 28 39			180 (2-12 keV)	
X,Gr	x 1'	358.0, -3.6			[1078]	

Pos.: [1078]; discovery in Galactic center region: [1078]; X-ray obs.: [431,1086]; X-ray sp.: [431,1086]; X-ray nova with a BH (?): [431,1086]; X-ray light curve: [1086]; radio cpt. not found: [965].

1758-250 GX 5-1	Z	17 58 03.1 -25 04 43		7.5:	1250	
U,M,A,H,S	x 3"	5.1, -1.0	[952,1072]	[527]	[1399]	

Pos.: [527]; Z source: [507]; X-ray sp.: [712,780,1363,1380]; QPO: [753,755,910,960,1327,1329,1331,1333]; kHz QPOs: [1437]; phase-delay X-ray sp.: [1365]; X-ray obs.: [539,1131]; long- and short-term X-ray var.: [14,660]; long-term X-ray record: [1335]; no X-ray pulsations: [1449]; radio obs.: [106,471]; X-ray/radio obs.: [1262]; IR cpt.: [643]; IR obs.: [952].

1758-258	U	17 58 06.7 -25 44 25		3:	20	
Gr,X,C,R,AS	r 2"	4.5, -1.4	[882,1165]	[1165]	[1238]	

Pos.: [1101]; BHC: [423,883,1238]; X-ray obs.: [887,1190]; hard X-ray sp.: [1015,1238]; long-term X-ray obs.: [423,791]; soft X-ray excess: [883]; multiwvl. obs.: [769]; radio obs.: [1101]; two late-type stars in error box, search for the opt/IR cpt.: [833].

1758-205 GX9+1	A	17 58 33.5 -20 31 44		3.7:	700	
U,M,A,H,S	x 3"	9.1, +1.2	[447,952,1072]	[527]	[1399]	

Pos.: [527]; atoll source: [507,1327]; no X-ray pulsation: [1449]; QPO: [530]; X-ray spectrum: [1380,1420]; X-ray obs.: [721,1131]; IR obs.: [952]; radio obs.: [471].

1803-245	T	18 03 45.8 -24 35 38			<2-1000	
S	x 30"	6.1, -1.9	[634]		[230]	

Pos.: [634]; transient 1976: [632,634]; uncertain if LMXB or HMXB.

J1806-246	TB(?)A	18 06 51 -24 35.1			440 (2-12 keV)	
X	x 1.5'	6.14, -1.9			[826]	

Pos.: [826]; discovery: [826]; possibly related to the burster SAX J1806.8-2435 & 2S 1803-245: [826,934]; likely radio cpt.: [557]; likely opt. cpt (V=22^m): [594]; X-ray light curve: [1087,1428]; QPO: [1087,1428]; X-ray sp.: [1428]; atoll source: [1428].

J1808.4-3658 J1808-369	TPB	18 08 27.54 -36 58 44.3		16.6, - -, - -	110	2.014167 0.00249
B,X	o 0.8"	355.4, -8.14	[420]	[420,1097]	[420]	[162,1425]

Pos.: [420]; discovery: [615,827,1425]; V_{quiesc} <20.5: [420]; a strange star: [765]; very low mass function: [162]; orbital parameters: [162]; opt. cpt.: [1097]; opt. photometry: [420]; opt. spectrum: [363]; X-ray very hard: [519,520,1426]; distance 4 kpc: [615]; bright type I X-ray burst: [615]; X-ray light curve: [615]; X-ray sp.: [431,519,615,1426]; opt. in antiphase with X-ray modulation: [420]; opt. light curve: [420]; X-ray steep decline: [395]; X-ray sp. remainded constant over two orders of intensity decline: [395,396]; opt. flux decline proceeding the steep X-ray decline: [420]; evolutionary scenario: [346]; magnetic field: [395,1425]; transient radio emission, likely associated with an ejection of material from the system: [393]; rapid aperiodic X-ray variability: [1426,1440]; near IR obs.: [1034,1097]; phase lag: [270]; violent quasi-periodic X-ray flaring: [1339].

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
J1810.8-2609	TB	18 10 44.5		B=21.5, R=19.5	16	
J1810.7-2609		-26 09 01				
B,R	x 10"	5,20, -3.4	[461]	[461]	[1307]	

Pos.: [461]; discovery: [1307]; a strong type I burst: [949,1307]; burst peak intensity 1.9 Crab: [949]; distance of 4.9 kpc: [949]; wideband X-ray sp.: [949]; opt./IR cpt.: [461].

1811-171	AB	18 11 36.7	IR star	K=12	350	592.8
GX13+1		-17 10 23		5.7		
U,M,A,H,S,X	r,IR	13.5, +0.1	[328,447,952]	[167]	[1399,1448]	[241]

Pos.: [406,471]; atoll source: [507,1327]; X-ray spectrum: [1380]; X-ray obs.: [1131]; X-ray bursts: [371,850]; QPO: [574]; IR counterpart: [167]; opt. cpt.: [477]; IR obs.: [37,39,406,952]; sp. type of K5III: [39]; X-ray/radio obs.: [404]; radio obs.: [471].

1812-12	B	18 12.4			15	
		-12 06.0				
M,A,H,B	x 12'	18.1, +2.3			[1399,1448]	

Pos.: [937]; X-ray bursts: [222,371,937]; two Einstein IPC sources in error box: [349]; distance of 4 kpc: [222].

1813-140	ZB	18 13 10.9	NP Ser	17.5, 1.3, 1.0	700	
GX 17+2		-14 03 15		2.5:		
U,M,A,H,S,Exo	o	16.4, +1.3	[328,447,952]	[807,1131,1254]	[1399]	

Pos.: [103]; Z source: [507,1327]; QPO: [724,1031,1216,1430]; kHz QPOs: [1434]; X-ray spectrum: [713,1380,1420]; X-ray obs.: [1131]; no X-ray pulsations: [1449]; X-ray bursts: [648,1254,1271]; opt. cpt. (G star?): [288,540,564,743,1265]; opt. spectrum: [253]; IR obs.: [952]; IR candidate: [312]; NP Ser not the opt. cpt.: [312]; radio obs.: [471,549]; radio/X-ray obs.: [1027,1414]; no radio lobes: [1030].

J1819.3-2525	T	18 19 21.48	V4641 Sgr	8.8-13.5, - -, - -	1-13000	
J1819-254		-25 25 36.0		0.24	(2-12 keV)	
B,X	o 0.7"	6.75, -4.79	[436]	[1224,1388]	[1189]	

Pos.: [1113]; discovery: [618]; X-ray light curve: [621]; strong Fe-K emission line: [621]; X-ray flare sp.: [621]; fast and large X-ray outbursts: [1189,1429]; sp. become harder during decay: [1429]; considerbly softer in quiescent state: [1429]; BHC (?): [1429]; opt. outburst: [1224]; opt. sp.: [24,174,768,985]; radio cpt.: [560]; radio obs.: [394,560,561,563]; presence of radio ejecta: [561,563]; distance: [563,985]; possible orbital period of 2.866 d: [665,985]; minimum mass of the compact star 2.55 $M_\odot$: [985]; sp. type of A2V: [985]; V4641 Sgr used to be misidentified as GM Sgr: [1113].

1820-303	GBA	18 20 27.8	NGC 6624	B=18.7	250	0.19
		-30 23 17		0.3		
U,M,A,H,S,X,B,R	x 3"	2.8, -7.9	[475]	[674,1317]	[1366,1399]	[1213]

Pos.: [475,525]; metal rich glob. cluster: [10]; structure glob. cluster: [528,779]; cluster dynamics: [1065]; cluster HR diagram: [29]; atoll source: [507,1327]; no X-ray pulsations: [1449]; X-ray spectrum: [780,1380,1420]; 176 day X-ray high-low period: [1060,1182]; QPO: [319,753,1214,1327,1438]; kHz QPO: [1184]; X-ray obs.: [539,650,1131,1212,1337,1376]; correlation between energy sp. states and fast time var.: [1469]; orbital period: [1178,1261]; orbital period decrease: [1116,1261,1336]; X-ray bursts: [217,283,472,485,1317,1345]; radio obs.: [416,471]; detected radio is from PSR 1820-30A: [81]; faint UV source: [1205]; B and V obs.: [1206]; reprocessing model: [11]; detected UV and opt. cpt.: [674].

1822-371	D	18 22 22.7	V691 CrA	15.3-16.3, 0.1, -0.9	10-25	5.57
		-37 08 04		0.15		
U,M,A,H,B	o	356.9, -11.3	[463]	[840,841,842]	[872,1448]	[842,1415]

Pos.: [103]; orbital period change: [523]; X rays: [522,1006]; opt. spectrum: [170,250,497,844]; transient MeV range γ-ray source: [115]; near-IR sp.: [255]; UV obs.: [840,841,1066]; accretion disk corona: [522,841,1409].

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
1822-000		18 22 48.3 -00 02 29	star	22, 1:, - - 1.3	25-62	
U,M,A,H,S	x 3"	29.9, +5.8	[195,447]	[191,527]	[103]	

Pos.: [527]; X-ray obs.: [536]; long-term X-ray obs.: [1059]; radio obs.: [471].

1826-238	TB	18 26 24 -23 49 31		19, 0.4, -0.5	30	
G,B,X	x 0.9'	9.3, -6.0	[930]	[930]	[611,793]	

Pos.: [611]; X-ray obs.: [617,1139]; transient: [793]; orbital period 5.75 hr or 2.1 hr: [581,1306]; opt. phm.: [581]; X-ray bursts: [63,617,1306]; opt. burst: [581]; opt. cpt.(J2000 pos. of 18 29 28.2, -23 47 49.2 with 2" error): [930]; distance of 8 kpc: [617].

1832-330	GB	18 32 27.3 -33 01 24	NGC 6652	0.1	8 (0.5-2 keV)	
R,X,AS	x 1'	1.5, -11.4		[1405]	[1052]	

Pos.: [1052]; type-I burst: [614,932]; X-ray obs.: [313,932]; possible opt. cpt. with m_{439}=20.2: [309]; moderately metal rich glob. cluster: [10]; opt. study gl. cl.: [517]; gl. distance of 9.3 kpc: [987]; opt. phm., orbital period of 0.73 hr: [313].

1837+049 Ser X-1	B	18 37 29.5 +04 59 20	MM Ser *DS	19.2B, - -, -0.5 0.04-$\geq$0.4	225	
U,M,A,H,S	o	36.1, +4.8	[447,1285]	[1142,1285]	[1059,1399]	

Pos.: [1052]; X-ray obs.: [539,650,1131,1376]; X-ray sp.: [780,1380]; X-ray bursts: [761,1252]; opt./X-ray bursts: [487]; opt. sp.: [253,1142]; G5V star: [1142]; opt. phm.: [1383]; superpos. of two stars: [1383]; radio obs.: [471]; X-ray/radio obs.: [1313].

1846-031	TU	18 46 39.8 -03 07 12			300	
Exo	x 15"	29.9, -0.9	[1002]		[1002]	

Pos.: [1002]; alternative position (18 45 26.8, -03 25 39) also possible: [1002]; X-ray re-outburst: [1460]; ultra-soft X-ray spectrum with hard tail: [1002]; archival optical plate search: [1406].

1850-087	GB	18 50 21.1 -08 46 04	NGC 6712 star S	21.0, 0.2, -0.9 0.42	7	0.343?
U,A,H,S,B	o	25.4, -4.3	[21,263,447]	[263,956]	[999,1366,1399]	[580]

Pos.: [263]; new opt. pos.: [415]; optical studies glob. cluster: [29,263,525,528,1154]; X-ray obs.: [229,679]; radio source: [471,735,785]; opt. phm.: [4]; UV: [4,580]; long-term X-ray obs.: [1059]; X-ray bursts: [571,1248].

J1856+053	T	18 56 39 +05 19.8			70	
X,C	x 1.8'	38.27, +1.26			[824]	

Pos.: [824]; discovery: [824]; a LMXB: [48]; BHC (?): [48].

J1859+226	T	18 58 41.58 +22 39 29.4		15.31-15.75, 0.34, -0.65 0.58-0.8	600	
X,C,B	o 0.5"	54.05, +8.59	[412]	[176,596,961,1394]	[281]	

Pos.: [412]; discovery: [1446]; opt. cpt.: [412]; hard X-ray sp.: [281,870]; QPO: [275,281,818]; kHz QPO: [275]; X-ray nova and BHC (?): [275,281,412,818]; X-ray light curve: [275]; hard X-ray lag: [275]; opt. phm.: [412,961]; opt. sp.: [412,1394]; orbital period of 9.15, but 14.79, 6.60 and 6.73 hr still possible: [411,1311]; IR obs.: [176]; UV sp.: [596]; radio cpt.: [1048].

1905+000	B	19 05 53.4 +00 05 18	star	20.5, 0.5, -0.5 0.5	10	
U,A,H,S	x 5"	35.0, 3.7	[194,447]	[194]	[188,1399]	

Pos.: [194]; X rays: [188]; X-ray bursts: [188,748,851]; radio obs.: [471].

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
1908+005 Aql X-1 U,M,A,S,X,C,G	TBA o	19 08 42.8 +00 30 05 35.7, -4.1	V1333 Aql [447,1283]	14.8, 0.6, -0.4 0.4 [169,191,1283]	<0.1-1300 [103,1350]	19.0 [190]

Pos.: [103]; X-ray outbursts: [117,169,504,657,1059]; atoll source: [269,1073]; QPO: [1467]; propeller effects: [1464]; opt. outbursts: [169,783,808,1283]; opt. bursts: [1096]; long-term X-ray behaviour: [681,1059]; magnetic field: [132]; V1333 Aql contained two stars: [129]; 309 d and 125 d periodicity: [903]; opt. sp.: [1142]; opt. phm. & sp.: [409,1146]; IR: [1146]; X-ray bursts: [277,698]; fast X-ray decay: [134]; quiescent X-ray flux: [277,1350]; 7.6 Hz pulsations in X-ray burst: [1124]; phm. of true opt. cpt. in quiescence and during outburst: [198]; secondary late K star: [198]; V_{quiesc}= 21.6: [198]; radio obs.: [554]; low-angle sys.: [1143,1145].

1915+105 Gr,B,X,C,I,AS	TB x 3'	19 12 55 +10 52.8 45.3, -0.9	 [87]	I=23.4 9.6 [87]	300 [243]	

Pos.: [243]; outburst history: [499]; soft γ-ray bursts: [898]; X-ray obs.: [460,1011]; X-ray line: [691]; rapid X-ray var.: [1010]; X-ray var.: [460]; dips, regular and irregular bursts: [73,460,1012,1256,1453]; spin of the BH: [1463]; QPO: [178,920,1010]; phase lag: [265]; quasi-periodic var. in radio, IR and millimeter bands: [355,358,1047]; disk and jet interaction: [340,505]; surrounding radio study: [1099]; IR phm.: [903]; faint IR flare: [342]; IR emission from radio emitting jets: [339]; radio/hard X-ray obs.: [385]; IR phm./radio obs.: [175,354]; IR cpt.: [87]; IR sp.: [158,341,1445]; near IR jet: [1112]; opt. sp. & phm.: [87]; superluminal radio ejection: [897]; radio obs.: [17,360,1047,1098,1102]; rapid radio flare: [358]; repeated relativistic ejections: [1100]; multiwvl obs.: [38,905]; IR synchrotron emission: [358]; not surrounded by dense ISM: [1445]; a HMXB(?): [904]; model: [74,268,962,1371]; distance of 12.5 kpc: [897].

1916-053 U,M,A,H,S, R,AS,B,X,C	BD o	19 16 08.4 -05 19 41 31.4, -8.5	V1405 Aql [447,1126,1397]	21.0, 0.4, -0.5 0.7 [476,1126]	25 [1179,1399]	0.83 [476,1126,1412]

Pos.: [447]; X-ray dips: [1179,1181,1303,1397,1412]; opt. phm.: [123]; opt. lt curve: [476,1126]; X-ray and optical periods differ: [466,1180]; X-ray bursts: [64,1179,1248,1251]; QPO: [50]; X-ray obs.: [211,683]; long-term X-ray obs.: [1059,1182]; radio obs.: [471].

1918+146 U,A	T x 40'	19 18.0 +14 36.0 49.3, +0.4	 	 	<5-45 [230]	

Pos.: [1047]; soft X-ray spectrum: [230].

1940-04 Ha	B x 1°	19 40 -4.0 35.3, -13.1	 	 	<50 [937]	

Pos.: [937]; X-ray bursts: [937].

1957+115 U,M,A,H,S, X,G,Exo,AS	U o	19 57 02.2 +11 34 16 51.3, -9.3	V1408 Aql [327,447]	18.7, 0.3, -0.6 0.4 [809]	30 [1399]	9.33 [1281]

Pos.: [809]; ultrasoft X-ray spectrum: [1411]; X-ray obs.: [1092,1131]; long-term X-ray obs.: [1059]; likely to be a NS: [1456]; opt. phm.: [489]; opt. spectr: [253,809,1142].

2000+251 G,R	TU o	20 00 42.9 +25 05 44 63.4, -3.1	QZ Vul *B [120,447]	18.9, 1.3, 0.0 1.5 [90,1301]	<0.5-11000 [896,1139]	8.26 [120,173, 189,191]

Pos.: [968]; X-ray outburst: [1301]; X-ray obs. in quiescence: [1368]; soft X-ray component: [1301]; hard X-ray tail: [1229]; QPO: [1107]; BHC mass: [65,127,364,496]; opt. sp.: [152,364,496]; secondary K3-6V star: [152,496]; opt. obs. during outburst: [173,189,1017]; quiescence opt. phm.: [120,192]; IR phm.: [127]; IR lt. curve: [65]; $R_{quiesc} = 21.2$: [120]; radio outburst: [550].

Table 1. (continued)

Source Name(s) Spacecraft	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B E_{B-V}	F_x μJy	P_{orb}(hr) P_{pulse}(s)
J2012+381	TU	20 12 37.80 +38 11 01.1	*B	21.33, - -, - - 1.9-2.4	160	
X,AS	o 0.35"	75.4, +2.22	[597]	[597]	[1422]	

Pos.: [597]; discovery: [1079]; X-ray obs.: [823,1079,1422]; opt. cpt.: [597]; radio cpt.: [546,547]; X-ray light curve: [597]; ultrasoft sp.: [1422]; BHC (?): [1422]; opt. obs.: [597]; radio obs.: [546,547,1046]; IR obs.: [128,597].

2023+338	TU	20 22 06.3 +33 42 18	V404 Cyg	12.7, 1.5, 0.3 1.0:	0.4-20000	155.4
G,X,K	o	73.2, -2.2	[331,1389]	[118,172,1390]	[896,1139,1234]	[148]

Pos.: [1389]; X-ray obs.: [1368]; X-ray outburst: [677,1472]; hard X-ray tail: [1139,1234]; rapid X-ray var.: [913,974,1139]; strong Fe emission line: [973]; soft X-ray transient: [1393]; opt. outburst: [147,736,1308,1390]; previous outbursts 1938, 1956: [1093]; opt. phm.: [1018,1308]; opt. sp.: [145,147,440]; opt. sp. & phm.: [149]; the mass of BHC: [1118,1139,1141]; orbital period and mass function (BHC): [146,148]; IR lt. curve: [1118,1139]; IR sp.: [1141]; triple (?): [148,1392,1396]; high Li abundance in secondary: [836,1396]; high-speed opt. phm.: [439]; radio obs.: [494,543,551]; quiescent ellipsoidal var.: [1392]; $V_{quiesc} \sim 19$: [148]; UV obs.: [1392]; secondary K0 III-V star: [149]; evolutionary: [673].

J2123-058	TBA	21 23 14.54 -05 47 52.9		16.8-19.24, -0.02, -0.88 0.1	110	5.96
X	o 1"	58.10, -29.9	[1293]	[1290]	[740]	[595,600,1293]

Pos.: [1293]; discovery at high galactic latitude: [740]; opt. bursts: [429,1293]; type I X-ray bursts: [575,1257,1293]; opt. cpt.: [1290]; opt. phm.: [153,600,1203,1293]; opt. sp.: [1290]; distance 10 kpc: [575,1293]; kHz QPO: [575]; opt. lt. curve: [429,1203]; an atoll source: [575]; X-ray lt. curve: [1293].

2127+119	GB	21 27 33.3 +11 56 51	M15 AC 211	15.8-16.4, -0.1, -1.2 <0.06	6	17.1 [521,604,
U,M,A,H,X	o	65.0, -27.3	[22]	[23,83,953]	[1366,1399]	605,951]

Pos.: [414]; new opt. pos.: [415]; cluster center: [525,1154]; metal poor globular cluster: [10]; cluster dynamics: [1036]; opt. studies glob. cl.: [278,352,528,779,1154]; opt. id.: [23,171]; opt. spectrum: [950]; orbital decay: [579]; opt./UV sp.: [325]; X-ray bursts: [321,1356]; period 37 d (?): [242]; UV obs.: [953]; radio cpt.: [785]; radio obs.: [471].

2129+470	B	21 29 36.2 +47 04 08	V1727 Cyg	16.4-17.5, 0.65, -0.3 0.5:	9	5.24
U,M,A,H,R	o	91.6, -3.0	[447,1284]	[864,1284]	[1399]	[864,865]

Pos.: [103]; X-ray obs. in quiesence: [400,401]; X-ray orbital variations: [1314,1409]; opt. phm./UV sp.: [308]; opt. phm. and sp.: [578,1282,1284]; X-ray bursts: [402]; low state: [407,915,1041]; no low-state ellipsoidal var.: [197,248,405,659,1286]; triple (?): [405]; accretion disk corona: [1409].

2142+380 Cyg X-2	ZB	21 42 36.9 +38 05 28	V1341 Cyg	14.7, 0.5, -0.2 0.45	450	236.2
U,M,A,H,X,B,G	o	87.3, -11.3	[418,447]	[199,783,866]	[1399]	[249]

Pos.: [103]; Z source: [507,510]; X-ray spectrum: [201,539,650,780,1375,1380,1420]; no X-ray pulsations: [1449]; long-term X-ray record: [572,1013,1182,1377]; 165Hz pulsation: [372]; QPO: [508,907,959,1333]; kHz QPOs: [1435]; X-ray bursts: [649,1171]; X-ray obs.: [538,719,1131,1432]; burst-like events: [714]; low-energy X-ray line emission: [715]; Fe line: [1183]; 77.7 day modulation: [1431]; magnetic field: [132,372]; multi-frequency campaign: [510,552,1355,1378]; opt. spectrum: [154,701]; companion F giant: [249]; near-IR spectrum.: [255]; opt. lt. curve: [249,437,982]; UV obs.: [199,806,866,1378]; linear polarization of the UV/opt. cpt.: [684]; radio source: [542]; distance of 7.2 kpc: [982].

2318+620		23 18 22.6 +62 01 07		0.3	2.4	
U,A	r	112.6, +1.3		[1273]	[384]	

Pos.: [1273]; radio source with jet, identification with 4U2316+61 and 20th mag. star not certain: [1273]; prob. background galaxy: [362].