Table 1. High-mass X-ray binaries

Name(s)	type	RA	Opt. Ctp.	V, B-V, U-B	F_x	P_{orb}(d)
		DEC		Sp. type, E_{B-V}	μJy	P_{pulse}(s)
	Pos.	l^{II}, b^{II}	[FC]			
J0032.9-7348		00 32 56.1	*1	15.3, - -, - -	0.2	
		-73 48 19		Be, - -		
R	x 12.9"	304.7, -43.2	[657]	[354]	[354]	
Pos.: [255]; in SMC: [354]; very strong emission lines: [657]; another early-type star within error circle: [657].						
J0049-732	P	00 49 29.6			0.04	
		-73 10 56				9.1321
As	x 5.5"	303.1, -43.9			[327]	[327]
Pos.: [255]; in SMC: [327]; likely a Be: [255].						
J0049-729	TP	00 49 02.5	Be star		0.5-9	
J0049.1-7250		-72 50 52		Be, - -		74.676
AS, R, X	x 13.7"	303.2, -44.3	[657]		[354]	[132,790]
Pos.: [255,355]; in SMC: [354]; two Be stars within error circle: [104]; high variability: [355,354].						
0050-727	T	00 50 19.5	*4	$\sim$ 14, -0.3, -1.0	$<$ 1-5	
SMC X-3		-72 42 24		O9 III-Ve, 0.03		
A,H,S,X	o 3"	302.9, -44.7	[95]	[7, 146]	[95]	
Pos.: [63]; transient: [95, 96]; projected rotational velocity $v_r sini \sim 200 km/s$: [146].						
J0050.7-7316	P	00 50 44.7	Be star	15.44,-0.03,-0.95	0.16	1.416
J0051-733		-73 16 05		Be, - -	(0.7-10 keV)	323
R,AS	o 1"	303.0, -43.8	[141]	[104,141]	[788]	[104,788]
Pos.: [104]; in SMC: [141]; orbital period 0.708 days: [118,616]; orbital solution: [104].						
J0051-722	TP	00 50 55.8	Be star	14.9, - -, - -	2.6	120
		-72 13 55		Be		91.1
X,R,B	x 10"	303.0, -44.9	[657]	[657]	[424]	[334,461]
Pos.: [132]; in SMC: [461]; X-ray pulsation: [132,334,424]; strong emission lines: [657]; opt. spectrum: [657].						
J0051.8-7231	TP	00 51 53.0	*2		0.01-9	
2E0050.1-7247		-72 31 45		Be, - -		8.9
E, X,R ,B	x 11"	302.9, -44.6	[657]		[354]	[330]
Pos.: [354]; in SMC: [354]; X-ray activity: [354]; neither AV111 nor star 1 is the opt. counterpart: [657].						
J0051.9-7311	T	00 51 51.4	B[e] star	14.4, - -, - -		
SMC 25		-73 10 38		B[e], - -		
R	x	302.9, -43.9	[141]	[141]		
Pos.: [141]; unassociated with the supernova remnant DEM 60: [141].						
J0052.1-7319	TP	00 52 13.9	SMC SC6 99923	14.667,-0.005, - -	0.024-4.7	
		-73 19 13		Be, - -		15.3
E,X,R	x 1.9"	302.8, -43.8	[702]	[702,332]	[399]	[399]
Pos.: [255]; in SMC: [399]; highly variable X rays: [353]; strong Hα emis. line: [332]; P_{orb} likely between 600-700 d: [702].						
J0052.9-7158	TU	00 52 54.0	Be star	15.46,-0.07,-0.99	2	
SMC 32		-71 58 08		Be, - -	(0.15-2.4 keV)	
R	x	302.8, -45.1	[141]	[141]	[141]	
Pos.: [141]; unlikely the supernova remnant IKT4: [141]; highly variable in X rays: [141]; trans. supersoft source: [141].						

Table 1. (continued)

Name(s)	type	RA	Opt. Ctp.	V, B-V, U-B	F$_x$	P$_{orb}$(d)
		DEC		Sp. type, E$_{B-V}$	μJy	P$_{pulse}$(s)
	Pos.	l^{II},b^{II}	[FC]			
0053-739	T	00 52 53.1	*5	16.0, -0.3, -0.5	< 1-7	
SMC X-2		-73 57 19		B1.5 Ve, 0.03		
A,S	o	302.6, -43.4	[95]	[506]	[95]	
Pos.: [506]; transient: [95, 96]; southern component of a close pair: [506]; $v_r sini \sim 200 km/s$: [146].						
0053+604		00 53 40.3	γ Cas	1.6-3.0, -0.15, -1.08	5-11	
		+60 26 47		B0.5 Ve, 0.05		
U,A,H,S,AS,B	o	123.6, -2.1	[177]	[489]	[63]	
Pos.: [63]; X-ray spectrum: [219,505,542]; UV observations: [51,170,261,273,455]; variable Be star: [235, 456, 739, 769]; radial-velocity variations: [343]; $v_r sini \sim 300-500 km/s$: [304,310,489]; system velocity: [721]; comparison with X Per: [489, 764]; radio/mm obs.: [179,747]; polarimetry: [101]; optical interferometry Hα envelope: [503,687]; non-radial pulsations: [787]; wind structure: [746]; long-term periodic variability in UV absorption: [681]; a WD sys.: [249]; multiwavelength obs.: [292,645a]; ISO IR spe. and envelope structure: [291].						
J0053.8-7226	TP	00 53 55.0			1.4	139
0053-724		-72 26 47		B1V		46.63
X,R	x 10”	302.7, -44.7			[132]	[132,425]
Pos.: [132]; in SMC: [132]; X-ray pulsations: [132,425]; possibly a Be star [425]; spectral type: see [513].						
J0054-720	TP	00 54.6			3.8	
		-72 04				169.3
X ,B	x 10’	302.6, -45.0			[428]	[428]
Pos.: [428]; most likely a Be/X-ray system in SMC: [429].						
J0055-724	TP	00 54 56.17	Be star	15.28,-0.04,-0.78	1	65
J0054.9-7226		-72 26 27.6		B0-B1III-V,0.06-0.28		58.969
X,B,R,E	x 0.1”	302.6, -44.7	[621,657]	[104,279,621]	[458]	[429,458,610]
Pos.: [104]; in SMC: [458]; orbital period 14.26 days: [104]; very strong emission lines: [657]; consistent with Einstein source 2E0053.2-7242: [610].						
J0058-72.0	P	00 57 48.4			0.1	
J0058-7203		-72 02 42			(0.7-10 keV)	280.4
AS,R	x 7.9”	302.2, -45.0			[788]	[788]
Pos.: [255]; HMXB in SMC (?): [255].						
J0058.2-7231		00 58 12.7	Be star	15.0, - -, - -		
		-72 30 45		Be, - -		
R	x	302.2, -44.6	[621]	[621]		
Pos.: [621]; very weak x-ray emission in SMC: [621].						
J0059.2-7138	TUP	00 59 11.3	Be star	14.1, 0.11, - -	3	
		-71 38 45		B1IIIe,0.03	(0.2-2 keV)	2.7632
R,E	x 2.8”	302.1, -45.4	[650]	[650]	[299]	[299]
Pos.: [255]; in SMC: [299]; strong Hα emis. line: [299]; two compnnts X-ray spe.: [299]; extremely ultrasoft X-ray sp.: [299].						
J0101.0-7206	T	01 01 01.1	Be star		0.1	
		-72 06 57		Be		
R,E	x 2.8”	301.9, -45.0	[657]		[354]	
Pos.: [354]; in SMC: [354]; very strong Hα emission line: [657].						

Table 1. (continued)

Name(s)	type Pos.	RA DEC l^{II},b^{II}	Opt. Ctp. [FC]	V, B-V, U-B Sp. type, E_{B-V}	F_x μJy	P_{orb}(d) P_{pulse}(s)
J0103-722	P	01 03 13.9	Be star	14.8,0.089, - -	0.01-0.1	
J0103.2-7209		-72 09 14.0		O9-B1(III-V),0.23	(0.2-2 keV)	345.2
R,A,B	o 0.1"	301.6, -44.9	[300]	[104,300]	[300,334]	[334]

Pos.: [104]; in SMC: [334]; consistent with the known supernova remnant SNR 0101-724 and the Einstein source 1E 0101.5-7225: [300]; strong Hα activity in the BeppoSAX error circle: [334].

0103-762	T	01 07 45.1	Be star	17,- -, - -	2.3	
0107-750		-75 00 38		Be, 0.03		
H,V,R	o	301.9, -41.1		[698]	[781]	

Pos.: [698]; variable X-ray source: [698]; member SMC: [698] .

J0105-722	TP	01 05 08.9			0.1	
J0105.1-7211		-72 11 44				3.343
AS,R	x 6.6"	301.4, -44.9	[203]		[203]	[789]

Pos.: [255]; in SMC: [789]; containing six sources: [203]; likely a Be/X-ray binary: [203]; multiwavelenth obs.: [203].

J0106.2-7205		01 06 15.1	Be star	16.7, - -, - -	0.005	
		-72 05 25		B2-B5 III-Ve,0.05-0.25	(0.2-2 keV)	
R	x 15"	301.3, -45.0	[300]	[300]	[300]	

Pos.: [356]; consistent with the known supernova remnant SNR 0104-72.3 in SMC: [300]; opt/IR obs.: [605].

J0111.2-7317	TP	01 11 08.4	Be star	15.32,0.08, - -	15	
		-73 16 46		B0-2III-Ve, - -		31.0294
X,AS,C	o 1"	301.0, -43.7	[113]	[113]	[87]	[86]

Pos.: [113]; in SMC: [86]; optical outbursts: [113]; very strong emission lines: [332].

0114+650	P	01 14 41.8	V662 Cas	11.0, 1.2, 0.1	4	11.6
		+65 01 32	LS I+65°010	B0.5 Ib, 1.4		10008
A,S,X	o 3"	125.7, +2.6	[177]	[3,148]	[63]	[148,210,785]

Pos.: [63]; X rays: [326,619,785]; the longest pulsation period: [133]; opt. spectra: [3,148,446,421]; $v_r sini \sim 45 km/s$: [3]; opt. polarimetry: [44]; review multi-wavelength behaviour: [231]; a magnetar: [416]; astrophys. parameters: [578]; opt. photometry: [680].

0115+634	TP	01 15 13.8	V635 Cas	14.5-16.3, 1.4, 0.3	< 2-350	24.3
		+63 28 38		B0.2V, 1.7		3.61
U,M,H,S,C,X	o	125.9, +1.0	[347]	[345,473,513]	[63]	[508,569]

Pos.: [347]; X-ray outbursts: [559,590,597,673,697]; recurrence time 3 yr (?): [770]; X-ray spectrum: [590,765]; X-ray cyclotron line: [272,511,673]; opt. pre-outburst behaviour: [393,473]; long-term opt. phot.: [473]; opt. spectra: [309,706]; $v_r sini \sim 365 km/s$: [309]; multiwavelength obs. during an outburst: [516].

0115-737	P	01 15 45.6	Sk 160	13.3, -0.14, -0.98	0.5-57	3.89
SMC X-1		-73 42 22		B0 Ib, 0.03		0.71
U,M,A	o 3"	300.4, -43.6	[609]	[312,753]	[63]	[508,566,623]

Pos.: [95]; highly variable X-ray source: [629]; pulse timing & X-ray orbit: [566]; aperiodic X-ray variability: [11]; long-term X-ray obs.: [54,247]; X-ray sp. [762,765]; opt. lt crv. & system parameters: [375,417,689,725]; opt. spectrum & orbit: [312,584]; $v_r sini \sim 200 km/s$: [312]; UV obs.: [56,262,714]; magnetic field strength: [415]; orbital decay: [412].

Table 1. (continued)

<table>
<tr><th>Name(s)

</th><th>type

Pos.</th><th>RA
DEC
l^{II},b^{II}</th><th>Opt. Ctp.

[FC]</th><th>V, B-V, U-B
Sp. type, E_{B-V}</th><th>F_x
μJy</th><th>P_{orb}(d)
P_{pulse}(s)</th></tr>
<tr><td>J0117.6-7330</td><td>TP</td><td>01 17 41.4</td><td>Be star</td><td>14.19, -0.07, - -</td><td>10</td><td></td></tr>
<tr><td></td><td></td><td>-73 30 49</td><td></td><td>B0.5IIIe, 0.03</td><td></td><td>22.07</td></tr>
<tr><td>C,R</td><td>x 0.6”</td><td>300.4, -43.5</td><td></td><td>[90,649]</td><td>[439]</td><td>[439]</td></tr>
<tr><td colspan="7">Pos.: [255]; in SMC: [98]; X-ray outburst: [98]; IR excess and strong Hα emission: [90,112]; projected rotational velosity 145 km/s: [649]; mass of the Be star 18 $M_{\odot}$: [649]; opt. phot. & spectroscopy: [649]; soft X-ray spectrum: [98]; hard X-ray spectrum: [439]; black hole candidate: [98].</td></tr>
<tr><td>J0146.9+6121</td><td></td><td>01 43 32.6</td><td>LS I+61°235</td><td>11.33, 0.82, -0.39</td><td>1-3</td><td></td></tr>
<tr><td></td><td></td><td>+61 06 26</td><td></td><td>B1Ve, 0.87</td><td>(0.1-2.4 keV)</td><td>1404.2</td></tr>
<tr><td>R,AS,X,B</td><td>o 2”</td><td>129.2, -1.2</td><td>[267]</td><td>[143,410,579,640]</td><td>[499]</td><td>[254]</td></tr>
<tr><td colspan="7">Pos.: [267]; in open cluster NGC 663: [438]; $v_r sini \sim 250 km/s$: [640]; X-ray obs.: [480]; new X-ray outburst: [254]; physical parameters and V/R veriability: [579].</td></tr>
<tr><td>0236+610</td><td></td><td>02 36 40.6</td><td>LS I+61°303</td><td>10.7, 0.8, -0.3</td><td>0.2</td><td>26.45</td></tr>
<tr><td></td><td></td><td>+61 00 54</td><td>V615 Cas</td><td>B0e, 0.75</td><td>(0.2-5 keV)</td><td></td></tr>
<tr><td>E</td><td>o,r</td><td>135.7, +1.1</td><td>[70,267]</td><td>[180,308,600]</td><td>[48]</td><td>[677]</td></tr>
<tr><td colspan="7">Pos.: [242]; X-ray source: [48]; radio outbursts: [677,678]; four-year modulation radio outbursts: [185,243,534]; VLBI radio jet: [467,679]; optical light curve: [472,532,533]; opt. spectra: [5,308]; orbital solution: [308,463]; $v_r sini \sim 200 km/s$: [144]; system velocity: [721]; long-term optical obs.: [242,423]; IR obs.: [157,303]; distance: [216,653]; UV obs.: [294,307,308,445]; wind structure: [746]; related to γ source CG 135+1(?): [240,276]; simultaneous X-ray/radio obs.: [268]; black hole candidate: [567]; long-term radio obs.: [572]; multiwavelength obs.: [652]; orbital period detected in photometry, X-ray and Hα emission line: [535,536,791].</td></tr>
<tr><td>0331+530</td><td>TP</td><td>03 31 14.9</td><td>BQ Cam</td><td>15.1-15.4,1.6-2.3,- -</td><td><0.5-1250</td><td>34.25</td></tr>
<tr><td></td><td></td><td>+53 00 24</td><td></td><td>O8.5Ve, 1.9</td><td></td><td>4.4</td></tr>
<tr><td>V,T,Exo</td><td>o</td><td>146.1, -2.2</td><td>[381]</td><td>[128,290,513]</td><td>[655,683]</td><td>[508,655,771]</td></tr>
<tr><td colspan="7">Pos.: [381]; X-ray outbursts: [655,683,771]; X-ray obs.: [444]; rapid X-ray variability: [38]; X-ray cyclotron line: [443]; X-ray pulse phase sp.: [705]; optical id.: [42,381]; optical spectrum: [661]; $v_r sini \sim 150 km/s$: [128]; system velocity: [721]; Hα emission: [338]; IR obs.: [106]; wind structure: [746]; tilt between orbital and equatorial planes: [514]; QPO: [669].</td></tr>
<tr><td>0352+309</td><td>P</td><td>03 52 15.1</td><td>X Per</td><td>6.0-6.6, 0.29, -0.82</td><td><9-37</td><td>580?</td></tr>
<tr><td></td><td></td><td>+30 54 01</td><td></td><td>B0 III-Ve, 0.4</td><td></td><td>835</td></tr>
<tr><td>U,M,A,H,S</td><td>o</td><td>163.1, -17.1</td><td>[64]</td><td>[311,434,489,639]</td><td>[63]</td><td>[306,508]</td></tr>
<tr><td colspan="7">Pos.: [63]; X-rays: [591,754]; X-ray sp.: [765]; optical id.: [71]; long-term optical record: [298,422,494]; reported 580 day period unlikely to be orbital: [306,311,548]; disappearance emission lines: [520]; system velocity: [721]; $v_r sini \sim 250 - 400 km/s$: [306,489,761]; UV obs.: [43,261]; stellar parameters: [190]; comparison with γ Cas: [489,764]; opt. polarimetry: [396]; envelope structure: [682]; photometry and polarimetry obs. during disc loss: [595]; fundamental parameters: [434]; multiwavelength study: [594].</td></tr>
<tr><td>J0421+560</td><td>T</td><td>04 19 46.0</td><td>CI Cam</td><td>9.25,1.0, -0.4</td><td>2000</td><td></td></tr>
<tr><td></td><td></td><td>55 59 24</td><td></td><td>- -, 0.8</td><td></td><td></td></tr>
<tr><td>X,B,C,AS</td><td>x 50”</td><td>149.2, +4.1</td><td></td><td>[100a,323]</td><td>[40,523]</td><td></td></tr>
<tr><td colspan="7">Pos.: [523]; X-ray outbursts: [643]; multi-wavelength obs.: [40]; optical outbursts: [593]; radio obs.: [287]; radio position: [285]; likely a black hole candidate: [40]; B[e]: [40]; an unusual symbiotic-type X-ray binary (?): [220]; distance $\geq$ 2 kpc: [40]; sgB[e] star: [100]; IR spe.: [100]; opt./IR/radio obs.: [100a]; long-term UBVRIJHK obs.: [41a]; X-ray/opt. obs.: [219a].</td></tr>
<tr><td>J0440.9+4431</td><td>P</td><td>04 40 59.9</td><td>BSD 24-491</td><td>10.78,0.61,-0.36</td><td>1</td><td></td></tr>
<tr><td></td><td></td><td>44 31 51</td><td></td><td>B0V-IIIe</td><td></td><td>202.5</td></tr>
<tr><td>R,X</td><td>x 17”</td><td>159.8, -1.3</td><td>[142]</td><td>[500]</td><td>[577]</td><td>[577]</td></tr>
<tr><td colspan="7">Pos.: [500]; distance 3.2 kpc: [500]; optical spe.: [500].</td></tr>
</table>

Table 1. (continued)

Name(s)	type	RA	Opt. Ctp.	V, B-V, U-B	F_x	P_{orb}(d)
		DEC		Sp. type, E_{B-V}	μJy	P_{pulse}(s)
	Pos.	l^{II}, b^{II}	[FC]			
J0501.6-7034		05 01 23.9	Be star	14.5,-0.07, - -		
CAL 9		-70 33 33		B0e, - -		
E,R	x 2.9"	281.9, -34.5	[618]	[618]		
Pos.: [612]; in LMC: [618]; opt. cpt. HV 2289: [618]; IUE ultraviolet obs.: [620].						
J0502.9-6626	TP	05 02 51.6	Be star	14.22,-0.10, - -	5.7	
CAL E		-66 26 25		B0e, - -		4.0635
E, R	x 1.2"	277.0, -35.4	[618]	[617]	[619]	[619]
Pos.: [612]; in LMC: [618]; highly variable X-ray emission: [618]; IUE ultraviolet obs.: [620].						
J0512.6-6717		05 12 41.8				
		-67 17 23				
R	x 40"	277.8, -34.3				
Pos.: [250]; a HMXB in LMC (?): [250]; weak source, hard X-ray spectrum: [250].						
J0516.0-6916	T	05 16 00.1	star 2	15.0,-0.1,-0.9	0.07	
		-69 16 09		B1e		
R	x 7.3"	280.1, -33.6	[141]	[141]	[141]	
Pos.: [612]; LMC member: [141].						
J0520.5-6932	T	05 20 30.3	Be star	14.4, - - , - -		
		-69 32 04		O8e, - -		
R	x 16.6"	280.3, -33.2	[618]	[618]		
Pos.: [250]; in LMC: [618]; IUE ultraviolet obs.: [620]; not detected with Einstein: [618].						
0521+373		05 19 10.7	HD34921	7.51, 0.14, -0.86	1	
		+37 37 44	SAO57950	B0 IVpe, 0.42		
U,H	o	170.0, +0.7	[646]	[78,555,599]	[215, 781]	
Pos.: [646]; hard X-ray spectrum: [555]; UV/opt./IR obs.: [555,599]; IR spe.: [100]; unclB[e] star: [100].						
J0529.8-6556	TP	05 29 48.4	GSC 8891.0213	B=14.5,R=13.3	0.17	
		-65 56 51		B2III-Ve, - -		69.5
R	x 8"	275.9, -32.9	[253]	[253]	[253]	[253]
Pos.: [253]; LMC member: [253]; opt. spectrum: [253].						
053109-6609.2	TP	05 31 09			1	25.4
		-66 09 12		Be?, 0.1		13.7
Exo,SL,B,R	x 10"	276.2, -32.7		[265]	[265]	[165]
Pos.: [530]; in LMC: [265]; hard X-ray spectrum: [265]; X-ray outburst: [75]; not detected with Einstein: [265]; optical cpt. probably Be star: [265]; orbital period between 4 and 40 days, mostly 25.4 days: [165].						
J0531.5-6518		05 31 36.1				
		-65 18 16				
R	x 18.8"	275.1, -32.7	[250]			
Pos.: [250]; HMXB in LMC: [250].						

Table 1. (continued)

Name(s)	type	RA	Opt. Ctp.	V, B-V, U-B	F_x	P_{orb}(d)
		DEC		Sp. type, E_{B-V}	μJy	P_{pulse}(s)
	Pos.	l^{II}, b^{II}	[FC]			
0532-664	P	05 32 47.3	Sk-Ph	14.0, -0.1, -1.1	<3-60	1.40
LMC X-4		-66 24 13		O7 III-V, 0.1		13.5
U,M,A,H,AS,G,R	o 2"	276.3, -32.5	[93]	[280,365,431]	[63]	[365,508]

Pos.: [63]; X-ray orbital parameters: [365,411,553]; X-ray eclipses: [413,756]; 30 day period X-ray: [400]; X-ray spectrum: [665, 765]; rapid X-ray variability: [38]; X-ray flare: [553]; opt. light curve: [92,271,326]; opt. spectrum & radial velocity curve: [314]; $v_r sini \sim 170 km/s$: [314]; opt. 30 day period: [271,326]; precessing-disk model: [271]; UV obs.: [56,714]; UV/X-ray obs.: [738]; orbital decay: [607,780].

J0532.4-6535		05 32 25.3	RGC 36	J=11.9,H=11.1,K=10.7	0.01	
		-65 35 09			(0.1-2.4 keV)	
R	x 17.4"	275.4, -32.6		[575]	[250]	

Pos.: [250]; hard X-ray spectrum: [250]; Be star in LMC: [250].

J0532.5-6551	V	05 32 32.6	Sk-65 66	12.3, - -, - -	0.03	
		-65 51 40.8		OB	(0.1-2.4 keV)	
R	o	275.7, -32.6	[609]	[609]	[253]	

Pos.: [609]; in LMC: [253]; long-term X-ray variation [253]; Black hole candidate or a NS: [253].

J0535.0-6700	T	05 35 05.9	RGC 28	18.1, - -, - -	0.04	241?
		-67 00 16		Be?, - -	(0.1-2.4 keV)	
R	x 4"	277.1, -32.2	[575]	[575]	[250]	[575]

Pos.: [250]; in LMC: [250]; IR photometry: [575]; Be/X-ray system: [250].

0535-668	PT	05 35 42.4	*Q	12.3-14.9, 0.1, -0.9	<0.01-180	16.7
0538-66		-66 53 39		B2 III-Ve, 0.1		0.069
A	o 2"	276.9, -32.2	[89,350]	[89,167,431,528]	[63]	[508,636]

Pos.: [350]; in LMC: [348,528]; X-ray outbursts: [348,757]; X-ray pulsations: [637]; optical outbursts: [89,126,167,636,729]; long-term off states: [430,528]; quiescent opt. phot. & spectroscopy: [126,320,641,642,709,729]; very strong emission lines during outbursts: [89]; IR obs.: [8]; opt. polarimetry: [102]; UV obs.: [89,295,573]; wind structure: [746]; X-ray obs. during quiescence: [484]; accretion to magnetosph.: [130].

0535+262	TP	05 35 48.0	V725 Tau	8.9-9.6, 0.45-0.62, -0.54	<3-2800	111
		+26 17 18	HD 245770	O9.7IIIe, 0.8		104
U,A,H	o	181.4, -2.6	[414]	[225,449,653,660]	[63]	[508,561]

Pos.: [63]; transient: [509,598]; long-term X-ray obs.: [561]; hard X-ray obs.: [108,371,585,628]; 55.7 *d* orbit?: [754]; long-term optical record: [41,660]; opt. phot.: [266,634]; opt. spectr.: [4,313,319]; $v_r sini \sim 300 km/s$: [313]; system velocity: [721]; multi-wavelength obs.: [164,341]; X-ray/opt. relation: [436]; UV obs.: [164,546,784]; accretion model: [498]; wind structure: [746]; 1992 review: [230]; disc loss & renewal: [257]; IR spe. obs.: [99a]; distance: [653]; long-term opt./UV spe.: [99]; cyclotron line: [20,372]; QPO during a giant outburst: [208].

J0535.8-6530		05 35 53.8			0.5	
		-65 30 34			(0.1-2.4 keV)	
R	x 13"	275.3, -32.3			[250]	

Pos.: [250]; likely a HMXB in LMC: [250].

0538-641	U	05 38 39.7	*1	16.7-17.5, -0.2, -0.6	<1.7-44	1.70
LMC X-3		-64 06 34		B3 Ve, 0.1		
U,M,A,H,F,X	o 3"	273.6, -32.1	[716]	[136,431,708]	[63]	[136]

Pos.: [38]; X-ray obs.: [349]; long-term X-ray obs.: [545]; rapid X-ray variability: [38]; X-ray spectrum: [665,693,759,766]; 199 d X-ray period: [138,665]; opt. lt crv.: [50,730]; mass function: [136,395,525]; $v_r sini \sim 130 km/s$: [136]; UV obs.: [139,694,695]; X-ray/UV/opt. obs.: [695]; near IR sp.: [137].

Table 1. (continued)

Name(s)	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B Sp. type, E_{B-V}	F_x μJy	P_{orb}(d) P_{pulse}(s)
0540-697	U	05 40 05.5	*32	14.5, 0.29, -0.70	3-25	4.22
LMC X-1		-69 46 04		O7-9 III, 0.37		
U,M,A,H,X	o 3"	280.2, -31.5	[135,181]	[47,318]	[63]	[322]

Pos.: [63]; ultra-soft X-ray spe.: [759]; X-ray spe. & QPO: [184]; rapid X-ray variability: [38]; X-ray obs.: [349,665]; mass function: [322]; $v_r sini \sim 150 km/s$: [318]; UV obs.: [47,322]; in He III region: [527]; opt. cpt. uncertainty (O7III or supergiant R148): [140].

J0541.4-6936		05 41 22.2	Sk-69 271	12.01, 0.00, - -		
		-69 36 29		B2SG, - -		
R	x 6.6"	280.0, -31.4	[612]	[335,603]		

Pos.: [612]; supergiant in LMC: [612].

J0541.5-6833		05 41 37.1	LMC BI267	14.02, -0.03,-1.04		
		-68 32 32		OB0		
R	x 4.5"	278.8, -31.4		[74]		

Pos.: [74]; LMC member: [612].

0544-665		05 44 15.6	*1	15.4, -0.20, -0.96	1.8	
		-66 34 59		B1 Ve, 0.1		
H	o 3"	276.5, -31.4	[349]	[431,715]	[349]	

Pos.: [38]; optical id. not completly certain: [715]; *1 member of LMC: [715].

J0544.1-710	TP	05 44 06.3	Be star	15.33,0.13, - -	0.14-0.36	
J0544.1-7100		-71 00 50		Be, 0.32	(2-10 keV)	96.08
B, R, E	x 3.3"	281.6, -31.0	[151]	[151]	[151]	[151]

Pos.: [250]; in LMC: [151]; very hard X-ray spectrum: [151]; pronounced Hα activity from a likely Be-type star: [151].

0556+286		05 52 44.3	HD249179	9.2, - -, - -	1.1	
		+28 46 41		B5ne, - -		
H	o	181.3, +1.9		[557,698]	[781]	

Pos.: [698]; Be star: [739].

J0635+0533	P	06 35 17.4		12.83,+0.98, - -	0.55	
		05 33 20.9		B2V-B1IIIe, 1.2		0.0338
B	x 1'	206.1, -1.0	[352]	[352]	[352]	[152]

Pos.: [352]; opt. emission line: [352]; within the error box of the GeV γ-ray source 2EG J0635+0521: [352]; distance $\sim$ 2.5-5 kpc: [352].

J0648.0-4419	P	06 48 04.6	HD49798	8.27,-0.24,-1.18	0.03	1.55
		-44 18 54.4		sdO6, - -		13.1789
R,B	x 10"	253.7, -19.1	[329]	[344]		[329,684]

Pos.: [768]; distance 650 pc: [329]; very soft X-ray spe.: [329]; ultraviolet spe.: [73]; likely a NS: [329]; compact being a WD(?): [49].

0726-260	TP	07 26 50.0	star	11.6, 0.3, -0.6	1.2-4.7	34.5
		-26 00 13		O8-9Ve, 0.6		103.2
U,A,E,H,R,X	o	240.3, -4.1	[654]	[515,654]	[743,781]	[131]

Pos.: [654]; distance 4.6 or 6.1 kpc: [124a,515]; X-ray flare: [654]; opt./IR obs.: [515]; orbital and spin periods: [131].

Table 1. (continued)

Name(s)	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B Sp. type, E_{B-V}	F_x μJy	P_{orb}(d) P_{pulse}(s)
0739-529 H	 o	07 46 09.8 -53 12 28 266.4, -13.7	HD63666 SAO235515 [646]	7.62, 0.02, -0.24 B7 IV-Ve, - - [293,437,518,698]	0.7 [781]	
Pos.: [698].						
0749-600 H	 o	07 55 27.7 -60 57 54 274.0, -16.2	HD65663 SAO250018 [646]	6.73, 0.05, -0.25 B8 IIIe, 0.09 [153,154,698]	0.7 [781]	
Pos.: [698]; Be star: [739]; in open cluster NGC 2516: [153].						
J0812.4-3114 R,X	TP x 21"	08 12 28.4 -31 14 51 249.6, +1.6	LS 992 [500]	12.42,0.41,-0.69 B0.5V-IIIe, - - [500]	0.6 [500]	80 31.8851 [125,577]
Pos.: [500]; distance 9.2 kpc: [500]; optical spectrum: [500].						
0834-430 Gr,R,K,G,C	TP x 1'	08 34 10 -43 00.6 262.0, -1.5	star *D [334a]	20.4, - -, - - B0-2 III-Ve, 4.0 [334a]	30-300 [239]	110 12.3 [239,773]
Pos.: [269]; more accurate pos. for epoch 2000: 08 35 55.4, -43 11 11.9 (o 1"): [334a]; sequence X-ray outbursts: [774]; eccentricity 0.1<e<0.17: [774]; strong Hα emission: [334a]; southern of two neighboring sources: [239,440]; recurrent transient: [401]; distance 3-5 kpc: [334a]; not the same transient as MX 0836-42: [115,453]; X-ray obs.: [16]; X-ray/opt. obs.: [39]; IR/opt obs.: [334a].						
0900-403 Vela X-1 U,M,A,H,B,X,AS,R	P o	09 00 13.2 -40 21 25 263.1, +3.9	HD77581 GP Vel [213]	6.9, 0.47, -0.51 B0.5 Ib, 0.7 [183,495,518,717]	2-1100 [63]	8.96 283 [162,508,711]
Pos.: [63]; X-ray sp.: [510,891,614,765]; cyclotron line: [371]; pulse timing & X-ray orbit: [61,62,161,162,571,696,711]; X-ray eclipses: [213,703]; limits on apsidal motion: [160]; rapid X-ray variability: [38]; orbital variation X-ray absorption: [251]; energy dependence pulse profile: [570]; opt. light curve: [374,689]; long-term cycles (?): [559,689]; opt. radial-velocity curve: [720,726]; system velocity: [721]; $v_r sini \sim 90-130 km/s$: [482,689,772]; UV obs.: [183,357,470,546,606]; high-resolution IUE obs.: [659]; opt. polarimetry: [173]; IR obs.: [232]; bow shock around the sys. [361]; polarization: [779].						
J1008-57 C,R,AS,Exo	TP x 15"	10 09 46 -58 17 32 283.0, -1.8	star [109]	15.27, -1.66, - - O9-B1, 1.9-2.0 [109,587]	1200 [663]	135 93.5 [550,635,663]
Pos.: [550]; IR and optical spectral obs.: [109]; 260 days orbital period: [206]; distance 5 kpc: [109]; large IR excess: [109].						
1024.0-5732 E	P o 6"	10 24 05.4 -57 33 24 284.5, -0.2	Wack 2134 THα 35-42 [686]	12.7, 1.5, - - O5:, 1.8 [81]	1-10 (0.2-4.5 keV) [81]	 0.061 [81]
Pos.: [81]; no optical pulsations: [169]; emission line star: [739]; a Wolf-Rayet star+ O star sys. rather than a HMXB: [576].						
1036-565 4U1036-56 A	 o	10 28 28.3 -56 49 14 284.6, +0.7	HD91188 SAO238130 [646]	6.64, -0.10, -0.56 B4 IIIe, - - [221,518]	3.3 [743]	
Pos.: [698]; probably the same source as RX J1037.5-5674: [500]; Be star: [739]; X-ray flare 1974 Nov.: [743]; periodic (2.924d) optical brightness variations reflect rotation of Be star: [27,28]; IR spe.: [474].						

Table 1. (continued)

Name(s)	type	RA	Opt. Ctp.	V, B-V, U-B	F_x	P_{orb}(d)
		DEC		Sp. type, E_{B-V}	μJy	P_{pulse}(s)
	Pos.	l^{II}, b^{II}	[FC]			
J1037.5-5647	P	10 37 35.2	LS 1698	11.3, 0.9, - -	0.17	
		-56 47 59		B0V-IIIe,0.75		862
R	x 21"	285.4, +1.5	[500]	[500]	[577]	[577]
Pos.: [500]; distance 5.0 kpc: [500]; HD 91188 not the opt. cpt.: [500]; probably same source as 4U 1036-56: [500].						
1048.1-5937	P	10 48 09.0			<0.1-1	
		-59 37 21				6.44
E	x 9"	288.2, -0.5	[477]		[632]	[124,632]
Pos.: [477]; discovery: [632]; Be/X or LMXB (?): [124]; opt. phm. and sp. of possible counterparts: [477]; excluding Main-sequence companion: [479].						
1118-615	PT	11 18 45.2	He3-640	12.1, 0.96, -0.30	0.1-70	
		-61 38 31		O9.5 III-Ve, 1.2		405
A	o	292.5, -0.9	[339]	[339]	[63, 497]	[508]
Pos.: [63]; X-ray transient: [187,336,433]; opt. phot. & spe.: [339]; sys. velocity: [721]; $v_r sini \sim 300 km/s$: [339]; X-ray/opt. obs.: [497]; opt. spe. after X-ray outburst: [556]; multiwavelength study: [109]; UV obs.: [105]; radio obs.: [297].						
1119-603	P	11 19 01.9	V779 Cen	13.3, 1.07, -0.04	10-312	2.09
Cen X-3		-60 20 57		O6.5 II-III, 1.4		4.84
U,M,A,H	o 3"	292.1, +0.3	[72,394]	[315,394,586]	[63]	[366,508]
Pos.: [63]; X-ray pulsations: [224,696]; X-ray orbit: [366]; period decay: [188,366]; X-ray spectrum: [25,76,432,765]; long-term X-ray history: [246,328,558,562,624]; X-ray eclipses: [622]; X-ray obs.: [296,504,512]; aperiodic X-ray variability: [38]; QPO: [668]; opt. light curve: [373,689,727]; opt. radial-velocity curve: [315,502,524]; mass of the NS: [22]; $v_r sini \sim 250 km/s$: [315]; system velocity: [721]; IR obs.: [232]; structure companion star: [97]; distance: [302]; outburst of GeV γ ray emission: [733].						
1145-619	PT	11 45 33.6	Hen 715	9.3, 0.18, -0.81	4-1000	187.5
		-61 55 44	HD102567	B1 Vne, 0.35		292.4
U,M,A,H,S	o	295.6, -0.2	[64]	[195,518,746]	[63]	[508,748]
Pos.: [63]; X-ray spectrum: [765]; X-ray obs.: [475]; long-term X-ray history: [562,748]; opt. spectrum: [340,762]; $v_r sini \sim 270 km/s$: [261,340]; system velocity: [721]; coordinated X-ray/opt. obs.: [121]; UV obs.: [46,163,261,546]; wind structure: [746]; multiwavelength obs.: [656].						
1145.1-6141	P	11 45 02.3	V830 Cen	13.1, 1.5 ,0.15	4-40	5.65
		-61 40 33		B2Iae, 1.6		298
A,E,C	o 2"	295.5, -0.0	[316]	[166,325]	[316]	[325,508]
Pos.: [316]; X-ray pulsations: [762]; orbital periods 10.76 d from opt. sp.: [321]; system velocity: [721]; 15' away from 1145-619: [397,763].						
1223-624	PT	12 23 49.7	BP Cru	10.8, 1.76, 0.42	9-1000	41.59
GX 301-2		-62 29 37	Wra 977	B1-1.5 Ia, 1.8		696
U,M,A,H,S,AS,C	o 3"	300.1, -0.0	[64]	[59,260,688,734]	[63]	[508,613]
Pos.: [63]; X-ray spectrum: [765]; long-term X-ray record (recurrent outbursts near periastron): [560,601,749]; X-ray obs.: [248,405,588,589,760]; pulse-phase spectr.: [403]; pulse profile: [485]; X-ray orbit: [613]; X-ray dips: [404]; aperiodic X-ray variability: [38,675]; rapid spin-up episodes: [383]; optical spectrum: [58,260,317,539,688]; optical photometry: [526,723]; system velocity: [721]; IR obs.: [232]; a hypergiant (?): [360].						
1239-599	P	12 39 07.5			3-16	
		-59 55 39				191
A,H,S	x 30"	301.8, +2.6	[177]		[63,743,781]	[297]
Pos.: [177]; hard X-ray spectrum: [297]; see also: [82].						

Table 1. (continued)

Name(s)	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B Sp. type, E_{B-V}	F_x μJy	P_{orb}(d) P_{pulse}(s)
1244-604	T	12 44 38			<24-100	
		-60 22.2				
A	x 6.2'	302.5, +2.2			[82]	
Pos.: [82].						
1246-588	T	12 46 39			<24-300	
		-58 51.0				
U,A,H	x 4.5'	302.7, +3.8			[82]	
Pos.: [82].						
1249-637		12 39 53.2	HD110432	5.31, 0.27, -0.79	2.2	
		-62 47 06	SAO252002	B0 IIIe, 0.40		
H	o	302.0, -0.2	[646]	[103,518]	[781]	
Pos.: [698]; Be star: [739]; UV obs.: [103]; interstellar abs. lines: [149]; optical obs.: [156,196,212]; variable radial velocity: [77,685]; white-dwarf accretor(?): [745] .						
1253-761		12 35 59.8	HD109857	6.49, 0.08, -0.24	0.6	
		-75 05 43	SAO256967	B7 Vne, 0.20		
H	o	302.1, -12.5	[646]	[103,518]	[781]	
Pos.: [698]; Be star: [739]; visual double (sep. 2.2"): [201]; no optical brightness variations: [28]; white-dwarf accretor(?): [745] .						
1255-567		12 51 39.6	μ^2 Cru	5.17, -0.12, -0.51	0.8	
		-56 53 50	HD1120912	B5 Ve, 0.04		
H	o	303.4, +5.7		[518,639]	[781]	
Pos.: [698]; Be star: [739]; $v_r sini \sim 220 km/s$: [639]; visual double with μ^1 Cru: [288]; slow & small optical variability: [549] .						
1258-613	PT?	12 58 11.8	V 850 Cen	13.5-14.2, 1.7, 0.8	0.3-200	133?
GX 304-1		-61 19 58	*2 (MMV)	B2 Vne, 2.0		272
U,M,A,S	o 2"	302.1, +1.2	[465]	[127,256,538]	[63,554]	[508,562]
Pos.: [465]; long-term X-rays: [559,562]; X-ray off state: [554]; X-ray spectrum: [588,765]; opt. spectrum: [123,465,688]; long-term opt. variations: [127, 256]; $v_r sini \sim 600 km/s$: [538]; system velocity: [721]; IR obs.: [232] .						
J1324.4-6200	P	13 24 26.3			0.4	
1323-6196		-62 00 53				170.84
B,AS,Exo,E	x 1.5'	306.8, +0.61			[13]	[13]
Pos.: [13]; distance >3.4 kpc: [13]; hard X-ray spe.: [13]; likely a Be/X-ray system: [13].						
1417-624	PT	14 17 25.5	*7	17.2:, 0.7:1.7, 0.8	2-43	42.12
		-62 28 11		OBe, 2:		17.6
U,M,A,S,C	o	313.0, -1.6	[18]	[244]	[63]	[207,508]
Pos.: [63]; X-ray obs.: [18,207,364]; opt. id: [244]; orbital parameters: [207]; Centaurus 1971-2 transient (?): [115,755]; 1994 II-type outburst: [207].						
J1452.8-5949	P	14 52 49.3			0.04	
		-59 49 18				437.4
B	x 50"	317.6, -0.44			[522]	[522]
Pos.: [522]; distance: [522]; probably a Be star: [522]; X-ray spe.: [522].						

Table 1. (continued)

Name(s)	type	RA	Opt. Ctp.	V, B-V, U-B	F_x	P_{orb}(d)
		DEC		Sp. type, E_{B-V}	μJy	P_{pulse}(s)
	Pos.	l^{II}, b^{II}	[FC]			
1538-522	P	15 38 38.6	QV Nor	14.4, 1.9, 0.6	<3-30	3.73
		-52 13 37	*12	B0 Iab, 2.1		529
U,M,A,H,S	o	327.4, +2.1	[17]	[147,324,537]	[63]	[114,508]

Pos.: [63]; X-ray obs.: [114,150,442,592]; X-ray eclipses: [35,159]; X-ray orbit: [442]; X-ray spectrum: [442,765]; X-ray cyclotron line: [94]; long-term spin-up trend: [604]; opt. light curve: [529]; radial-velocity curve: [147,583]; $v_r sini \sim 200 km/s$: [147]; system velocity: [721]; opt. obs.: [537].

1553-542	P	15 53 55.6			27	30.6
		-54 16 15				9.3
S	x 3.5”	327.9, -0.9	[17]		[63]	[367,508]

Pos.: [63]; opt. counterpart likely a Be star: [367]; X-ray orbit: [367].

1555-552		15 50 26.4	HD141926	8.60, 0.56, -0.43	1.7	
		-55 10 54	SAO243098	B2nne, - -		
H	o	327.0, -1.2	[646]	[193,293]	[781]	

Pos.: [698]; Be star: [739].

1657-415	P	16 57 16.8	star		4-42	10.4
		-41 35 59		B0-B6Ia-Iab, - -		38
OAO,B	x 15”	344.4, +0.3	[21]	[84]	[63]	[84,205,508]

Pos.: [21]; error box ♯2: [21,476,540]; V861 Sco not the optical counterpart: [21]; X-ray obs.: [358]; X-ray spectrum: [765]; hard X-ray obs.: [476]; orbital solution: [84].

1700-377		17 00 32.7	HD153919	6.6, 0.27, -0.72	<11-110	3.41
		-37 46 29	V884 Sco	O6.5f, 0.52		
U,M,S,Gro,C,B	o	347.8, +2.2	[351]	[259,263,547,778]	[63]	[67,251,728]

Pos.: [63]; X-ray variability: [38,175,252]; hard X-ray spectrum: [211,552]; no X-ray pulsations: [175,236]; opt. light curve: [26,91,728]; opt. spectrum: [117,155,192,274]; radial-velocity curve: [175,258]; $v_r sini \sim 140 - 300 km/s$: [117,155,305,778]; system velocity: [721]; UV obs.: [182,259,263,359]; soft X-ray Raman scattering: [359]; opt. polarimetry: [172,173]; IR obs.: [232,547]; system parameters: [270]; polarization: [779]; possibly 13.81 days period: [384].

J170006-4157	P	17 00 5.3			0.4	
		-41 57 44				714.5
AS	x 1’	344.0, +0.25			[691]	[691]

Pos.: [691]; can’t completely exclude the possibility that it is a WD binary: [691].

1722-363	P	17 22 33			0.2-5	
		-36 22 05				413
Exo	x 9’	351.5, -0.6			[672,676]	[508,676]

Pos.: [744]; hard X-ray spectrum: [676]; limits on orbital period: [672].

J1739-302	T	17 38 53			136	
		-30 15.6			(2-25 keV)	
X	x 3’	358.1, +0.56			[645]	

Pos.: [645]; radio obs.: [283]; probably a Be/X-ray sys.: [645]; X-ray spec. and short X-ray outburst: [645].

J1739.5-2942		17 39 30.1				
		-29 42 07				
X, C	x 19.2”	358.6, -0.74				

Pos.: [501]; likely a Be/X-ray binary: [501]; hard X-ray spec.: [501]; identical X-ray source 1736-297(?): [501].

Table 1. (continued)

Name(s)	type	RA	Opt. Ctp.	V, B-V, U-B	F_x	P_{orb}(d)
		DEC		Sp. type, E_{B-V}	μJy	P_{pulse}(s)
	Pos.	l^{II}, b^{II}	[FC]			
J1744.7-2713		17 44 45.4	HD161103	8.4, 0.44,-0.64	0.06	
		-27 13 47		B2V-IIIe		
R	x 18"	1.36, +1.1				
Pos.: [500]; strong emission lines: [500]; distance 0.8 kpc: [500]; likely Be/X-ray binary: [500].						
J1749.2-2725	TP	17 49 10.1			1.36	
		-27 25 16				220.38
AS	x 1'	1.7, +0.1			[690]	[690]
Pos.: [690]; weak X-ray source: [690]; hard X-ray spe.: [690]; likely a NS: [690]; within error of a nearby WD: [690].						
J1750-27	P	17 49 12.0			27	29.8
		-26 38 50				4.45
C,AS	x 2'	2.4, +0.5			[777]	[176,627]
Pos.: [176]; no optical counterpart reported: [627]; likely Be system: [627]; large spin-up: [627].						
1807-10	T	18 07.9			<2-10	
		-10 53				
U	x 1.3°	18.6, +3.9			[215]	
Pos.: (large error box): [215]; uncertain if HMXB or LMXB.						
J1820.5-1434	P	18 20 29.5			1	
		-14 34 24				152.26
AS	x 0.5'	16.5, +0.07			[376]	[376]
Pos.: [376]; a highly obscured accretion-driven binary X-ray: [376].						
J1826.2-1450		18 26 14.9	LS 5039	11.23,0.94,-0.16	0.3	
		-14 50 29		O7V((f)),0.8		
R	x 22"	17.9, -1.29	[500]	[500]	[500]	
Pos.: [500]; distance 3.1 kpc: [500]; optical spe.: [500]; radio cpt.: [463a]; X-ray and radio obs.: [584a]; a γ-ray-emitting persistent microquasar: [536a].						
1833-076	PT	18 33 46.3			1.6-200	
Sct X-1		-07 38 54				111
A,H	x 30"	24.5, -0.2	[237]		[388,563,743]	[392,508]
Pos.: [574]; alternative position (18 34 49.5, -07 38 05): [574]; X-ray obs.: [88,278]; X-ray pulsations: [392]; hard X-ray spectrum: [122,574]; long-term X-ray record: [563]; transient: [122].						
1839-06	T	18 39.0			1	
		-05.9				
G	x 30'	26.6, -0.5			[388]	
Pos.: [388].						
1839-04	PT	18 39.2			2.5	
		-04.5				81.1
G	x 24'	27.9, +0.1			[388]	[388]
Pos.: [388].						
1843+009	PT	18 43.0			<0.4-33	
		+0.9				29.5
G,C,X,B	x 10'	33.1, +1.7			[388]	[388]
Pos.: [388]; X-ray obs.: [388,389].						

Table 1. (continued)

<table>
<tr><th>Name(s)

</th><th>type

Pos.</th><th>RA
DEC
l^{II}, b^{II}</th><th>Opt. Ctp.

[FC]</th><th>V, B-V, U-B
Sp. type, E_{B-V}</th><th>F_x
μJy</th><th>P_{orb}(d)
P_{pulse}(s)</th></tr>
<tr><td>1845-03</td><td>T</td><td>18 44.7</td><td></td><td></td><td>1</td><td></td></tr>
<tr><td></td><td></td><td>-03.2</td><td></td><td></td><td></td><td></td></tr>
<tr><td>G</td><td>x 24'</td><td>29.7, -0.5</td><td></td><td></td><td>[388]</td><td></td></tr>
<tr><td colspan="7">Pos.: [388].</td></tr>
<tr><td>1845-024</td><td>PT</td><td>18 45 41.1</td><td></td><td></td><td>1-44</td><td>241</td></tr>
<tr><td></td><td></td><td>-02 28 37</td><td></td><td></td><td></td><td>94.8</td></tr>
<tr><td>A,H,S,G,C,B</td><td>x 30"</td><td>30.4, -0.4</td><td>[237]</td><td></td><td>[63,388]</td><td>[792,388]</td></tr>
<tr><td colspan="7">Pos.: [63]; X-ray obs.: [178,388,390,630]; distance: [792]; same sources as GS 1843-02, X1845-024, and GRO J1849-03: [647]; likely a Be/X-ray: [647,209]; X-ray outburst: [209]; high eccentricity (0.88): [209].</td></tr>
<tr><td>1845.0-0433</td><td>T</td><td>18 45 02</td><td></td><td>13.96,2.2,1.04</td><td>45</td><td></td></tr>
<tr><td></td><td></td><td>-04 33 31</td><td></td><td>O9.5I, 2.45</td><td>(0.7-10 keV)</td><td></td></tr>
<tr><td>AS</td><td>x 1'</td><td>28.8, -1.22</td><td>[111]</td><td>[111]</td><td>[786]</td><td></td></tr>
<tr><td colspan="7">Pos.: [111]; discovery x-ray source: [786]; optical spectrum: [111]; distance 3.6 kpc: [111].</td></tr>
<tr><td>1855-02</td><td>PT</td><td>18 55.4</td><td></td><td></td><td>2</td><td></td></tr>
<tr><td></td><td></td><td>-02.8</td><td></td><td></td><td></td><td></td></tr>
<tr><td>G</td><td>x 10'</td><td>31.3, -2.7</td><td></td><td></td><td>[388]</td><td></td></tr>
<tr><td colspan="7">Pos.: [388].</td></tr>
<tr><td>J1855-026</td><td>P</td><td>18 55.7</td><td></td><td></td><td>6</td><td>6.1</td></tr>
<tr><td></td><td></td><td>-02 37</td><td></td><td></td><td></td><td>361</td></tr>
<tr><td>X</td><td>x 6'</td><td>31.1, -2.15</td><td></td><td></td><td>[460]</td><td>[134,460]</td></tr>
<tr><td colspan="7">Pos.: [460]; most likely a SG/X-ray system: [134]; BD-2 4786 not the opt. cpt.: [134]; X-ray spe.: [134].</td></tr>
<tr><td>J1858+034</td><td>TP</td><td>18 58.6</td><td></td><td></td><td>25</td><td></td></tr>
<tr><td></td><td></td><td>03 21</td><td></td><td></td><td></td><td>221.0</td></tr>
<tr><td>X</td><td>x 2.5'</td><td>36.7, -0.07</td><td></td><td></td><td>[582]</td><td>[670]</td></tr>
<tr><td colspan="7">Pos.: [462]; QPO: [544]; probably a Be/X-ray sys.: [670]; very hard X-ray spec.: [462,544].</td></tr>
<tr><td>1901+03</td><td>T</td><td>19 01.7</td><td></td><td></td><td><2-87</td><td></td></tr>
<tr><td></td><td></td><td>+03 06.0</td><td></td><td></td><td></td><td></td></tr>
<tr><td></td><td>x 10'</td><td>37.2, -1.4</td><td></td><td></td><td>[115]</td><td></td></tr>
<tr><td colspan="7">Pos.: [215]; transient 1971: [115,214]; hard X-ray spectrum: [115].</td></tr>
<tr><td>J1906+09</td><td>P</td><td>19 05 20</td><td></td><td></td><td>0.7</td><td></td></tr>
<tr><td></td><td></td><td>09 02.5</td><td></td><td></td><td></td><td>89.17</td></tr>
<tr><td>X</td><td>x 2'</td><td>42.6, +1.04</td><td></td><td></td><td>[457]</td><td>[457]</td></tr>
<tr><td colspan="7">Pos.: [667]; distance: [457]; likely a supergiant: [457]; not associated with the soft gamma-ray repeater SGR 1900+14: [671]; X-ray spec.: [457].</td></tr>
<tr><td>1907+097</td><td>PT</td><td>19 07 15.1</td><td>star</td><td>16.4, 3.2, - -</td><td>4-275</td><td>8.38</td></tr>
<tr><td></td><td></td><td>+09 44 54</td><td></td><td>B I, 3.3</td><td></td><td>438</td></tr>
<tr><td>U,M,A,H</td><td>o</td><td>43.7, +0.5</td><td>[625]</td><td>[625,718]</td><td>[63]</td><td>[441,508]</td></tr>
<tr><td colspan="7">Pos.: [625]; long-term X-ray recod: [563]; 1980 outburst: [459]; orbital parameters: [120,441]; orbital modulation X-ray flux: [459]; opt. spectrum: [337,718]; $v_r sini \sim 85 km/s$: [718].</td></tr>
</table>

Table 1. (continued)

Name(s)	type Pos.	RA DEC l^{II}, b^{II}	Opt. Ctp. [FC]	V, B-V, U-B Sp. type, E_{B-V}	F_x μJy	P_{orb}(d) P_{pulse}(s)
1909+048		19 09 21.3	SS433	14.2, 2.1, 0.6	2-10	13.1
		+04 53 54	V1343 Aql	pec, 2.6		
U,A,H,G	o,r	39.7, -2.2	[407]	[450,507,740]	[63]	[145]

Pos.: [63]; X-ray obs.: [30,38,68,69,245,363]; Doppler shift X-ray Fe line: [468,751]; extended X-ray lobes: [631,750]; γ-ray obs.: [223,398]; Doppler shifted opt. emission lines:[448,451]; stationary emission lines from accretion disk: [204]; kinematic model precessing (164 d) high-speed jets: [6]; opt. spe.: [24,191,194,386,452]; opt. spectrophot.: [9,385,740]; opt. lt. curve: [14,15,23,275,406,408,409]; long-term opticl phot. record: [275,369,469]; X-ray/opt. eclipse: [658]; IR obs.: [382,742]; precession clock: [10]; radio structure: [31,197,198,596,651,732]; radio variability: [57,202]; distance 5.5 kpc: [284]; nature of the compact star: [171]; reviews: [447,731,793]; circularly polarized radio emissiom: [200]; VLBA multifreq. obs.: [531].

1936+541		19 31 42.6	DM+53°2262	9.8, - -, - -	0.7	
		+53 46 12		Be, - -		
H	o	85.9, +15.9		[698]	[781]	

Pos.: [698]; Be star: [739].

J1946+274	TP	19 45 38			<1-25	80
1942+274		27 21 38.0			(2-60 keV)	15.8
A,X,B	x 1'	63.2, +1.38			[666,743]	[80,644]

Pos.: [80]; transient Nov-Dec 1976: [743]; X-ray flare: [80]; likely a Be: [80]; very hard X-ray spec.: [644]; same as 3A 1942+274 and 1SAX J1946.5+2721: [80,666].

1947+300	T	19 47 36.3	*3	14.2, 0.9, -0.3	<10-84	
		+30 04 54		1.1		
K	o	66.1, +2.1	[238]	[234,238]	[60]	

Pos.: [238]; Hα emission: [234]; likely, but not certain this is a HMXB: [234,238]; see also [638].

J1948+32	P	19 48			27-53	35-70
		32.0			(20-75 keV)	18.7
C	x	64.9, +1.8			[85]	[85]

Pos.: [85]; eccentricity <0.25: [85]; mass function: [85]; probably a Be: [85].

1954+319		19 53 46.2			<1.5-80	
		+31 58 02				
U,A	x 15"	68.4, +1.9	[119]		[119,743]	

Pos.: [186]; heavily reddened supergiant system (?): [699].

1956+350	U	19 56 28.9	HD226868	8.9, 0.84, -0.26	235-1320	5.
Cyg X-1		+35 03 55	V1357 Cyg	O9.7 Iab,1.06		
U,M,A,H,X,G,C	o,r	71.3, +3.1	[568]	[116,158,518]	[63]	[227]

Pos.: [63]; hard X- and γ- ray obs.: [226,419,608,626,700,701]; long-term X-ray obs.: [289,565]; X-ray low/high states: [418,674]; X-ray dips: [29,378,581]; rapid X-ray variability: [37,38,427,471,486,487,488,602]; QPO: [218,387,735,736]; chaotic (?): [426,707]; 300 d period: [228,368,370,565]; X-ray spectrum: [32,33,189,379,432,737,759]; γ-ray obs.: [420,551]; radio obs.: [65,66,281,286]; opt. spectra: [1,2,116,229,519,648]; radial-velocity curve: [227,228,519]; $v_r sini \sim 100 km/s$: [229]; system velocity: [721]; nature of the compact star: [52,633,752]; opt. light curve: [370,435]; opt. UV polarimetry: [174,217,779]; UV obs.: [158,182,692,783]; IR obs.: [402]; reviews (1977): [521]; fund. parameters: [277].

2030+375	PT	20 30 22.1	*2	19.7, 3.3, - -	<0.5-1400	46.0
		+37 28 00		B0, 3.8		41.8
Exo,C,B,X,AS	o 2"	77.2, -1.3	[107,496]	[107,496]	[541]	[508,541,662]

Pos.: [496]; outburst: [541]; rapid X-ray variability: [38]; 0.2 Hz QPO: [12]; opt. spe.: [107,342]; long-term opt./IR variability: [580].

Table 1. (continued)

Name(s)	type Pos.	RA DEC l^{II},b^{II}	Opt. Ctp. [FC]	V, B-V, U-B Sp. type, E_{B-V}	F_x μJy	P_{orb}(d) P_{pulse}(s)
2030+407		20 30 37.6	V1521 Cyg	I=20.0	90-430	0.20
Cyg X-3		+40 47 13		Wolf-Rayet, 6.3		
U,M,A,H,CX	r	79.9, +0.7	[741]	[493,719,741]	[63]	[543]

Pos.: [63]; distance: [168]; orb. period change: [380,712]; long-term X-ray obs.: [289,564]; no X-ray pulsations: [380,782]; orbital X-ray curve: [55,377]; aperiodic variability: [38]; X-ray halo: [490]; transient QPO: [713]; radio outbursts: [241,282,346,492]; quiescent radio flares (period 4.95 h?): [491]; radio jet & lobes: [55,222,664]; IR phot.: [36,464,466]; IR spectra (secondary helium star): [362,719]; no X-ray pulsations: [782]; X-ray spectrum: [377,758]; 1989 review (incl. TeV/PeV γ rays: [53]; spe. variability during outburst and quiescence: [199]; VLBI obs. during outburst: [615].

J2030.5+4751		20 30 30.6	SAO 49725	9.27,0.38,-0.65	0.04	
		47 51 46		B0.5V-IIIe, - -		
R	x 18"	85.2, +5.02	[500]	[500]	[500]	

Pos.: [500]; strong emission lines: [500]; distance 2.2 kpc: [500]; likely Be/X-ray binary: [500].

J2058+42	TP	20 59.0			320	110
		41 43				198
C, X	x 4'	83.5, -2.75	[83]		[775]	[775]

Pos.: [775]; orbital period 54 days: [129]; giant outburst in 1995: [775]; most likely a Be/X-ray sys.: [775]; one of two stars likely opt. ctp.: [83].

J2103.5+4545	P	21 03 33			20	12.68
		45 45.0				358.61
B,X	x 2.5'	87.1, +0.71			[34]	[34,301]

Pos.: [301]; distance 4 kpc: [34]; eccentricity 0.4: [34]; HD200709 not opt. cpt.: [34]; X-ray spe.: [301].

2138+568	PT	21 38.0	star		<6-100	
Cep X-4?		+56 50.0		B1		66.2
M,H,G	x 7'	99.0, +3.3		[53a]	[391]	[391,508]

Pos.: [391]; likely Be/X-ray system: [391]; X-ray obs.: [391]; X-ray cyclotron line: [481]; same as Cep X-4(?): [454,704]; X-ray outburst: [776]; orbital period 23-147.3 days: [776].

2202+501		21 59 44.1	DM+49°3718	8.8, - -, - -	0.7	
		+49 55 35	SAO51568	Be, - -		
H	o	97.3, -4.0	[646]	[698]	[781]	

Pos.: [698]; Be star: [739].

2206+543		22 06 07.4	star	9.9, 0.2, -0.6	0.6-5.5	
		+54 16 23		B1e, 0.5		392(?)
U,M,A,H	o 2"	100.6, -1.1	[654]	[654]	[743,781]	[611]

Pos.: [654]; X-ray observations: [611]; Hα emission: [123].

2214+589		22 24 47.8	GG3 71	11, - -, - -	0.5	
		+60 58 59		B[e], - -		
H	o	106.4, +3.1	[233]	[264,698]	[781]	

Pos.: [698]; Be star: [739]; Herbig Ae/Be candidate: [264]; associated with IRAS source 22248+6058: [264].

J2239.3+6116	T	22 39 20.90	star	15.1, 1.4, - -	16	262
		+61 16 26.8		B0V-B2IIIe, 1.4		
B,A,U,X	o0.3"	107.7, +2.3	[327a]	[327a]	[327a]	[327a]

Pos.: [327a]; distance of 4.4 kpc: [327a]; position coincided with 4U 2238+60 and 3A 2237+608: [327a].

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