Cataclysmic Binaries

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
V1017 Sgr N Sgr 1919	18 32 04.3 -29 23 13 1	Nb DN	13.7 	7.2 		5.714 		 1	G5/3 				
MR Vel J0925-4758	09 25 46.3 -47 58 17 1	SS	17.0 17.3			3.8 		 1					
GK Per N Per 1901	03 31 11.8 +43 54 17 1	Na DN IP	10.2 14.0	0.2 		1.996803 	351.34 	 2	K2-3/4 	3.6 0.5	<73 	0.9 0.2	0.25
U Sco N Sco 1987	16 22 30.7 -17 52 42 1	Nr	17.9 19.5	8.8 		1.230563 0.05313:		1 2	F6-G0/5 				
WY CMa	07 11 43 -26 58 58	?	14.5 15.4			1.14433:							
CAL 83 LHG 83	05 43 34.2 -68 22 22 1	SS	16.2 18.3			1.04752 		 					
J0513-6951	05 13 50.8 -69 51 47 1	SS	16.0 17.5			0.76278 		 1					
V394 CrA N CrA 1987	18 00 26.0 -39 00 35 1	Nr	17.8 18.8	7.2 		0.7577 : 		 					
QR And J0019+2156	00 19 50.0 +21 56 54 1	SS	11.5 13.0			0.660457 		 1					
CI Aql N Aql 1917	18 52 03.4 -01 28 39	N?	15.4 16.2	11.0 		0.618355 		 1					
BV Cen	13 31 19.6 -54 58 34 1	DN UG	12.6 13.3	10.5 	150 	0.610108 		 2	G5-8/5 	0.92 0.06	62 5	0.83 0.10	0.90 0.10
V841 Oph N Oph 1848	16 59 30.3 -12 53 27 1	Nb	13.5 13.8	4.2 		0.60423: 		 1					

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
DI Lac N Lac 1910	22 35 48.5 +52 43 00 1	Na	14.3 14.6	4.6		0.543773		 1					
V Sge	20 20 14.8 +21 06 08 1	NL	12.2 14.5	10.5	550	0.514197	QPO	2 2	F6-G0/5 WN5:	0.27	90	0.74	2.8
V442 Cen	11 24 51.9 -35 54 37 1	DN UG	16.5	11.9	14-39	0.46 :	QPO						
QU Car	11 05 42.8 -68 37 58 1	NL	11.1 11.5			0.454		 1			<60		
CAL 87 LHG 87	05 46 45.1 -71 08 54 C	SS	19.0 21.8			0.442677		1					
DX And	23 29 46.7 +43 45 05 1	DN UG	16.5	10.9		0.440502		 2	K0/5	1.5 0.2	45 12		<0.8
UY Pup	07 46 31.2 -12 57 09 1	DN ZC	15.8	13.5		0.423		 1					
KO Vel	10 15 58.4 -47 58 11 2	NL IP	16.7 19.0			0.422	4086: 5330:	 1					
0928+5004	09 32 15.0 +49 50 53 1	NL	15.			0.4183							
WX Cen	13 12 52.5 -63 23 45 1	NL?	13.4 14.2			0.4170		 2					
RZ Gru	22 47 12.2 -42 44 39 1	NL UX	12.3 13.4			0.417 :		 1					
V1062 Tau	05 02 27.4 +24 45 21 2	NL IP	15.1B 16.1B			0.415	3726 3794						
AE Aqr	20 40 09.1 -00 52 16 1	NL DQ	10.7 11.8	9.8		0.411656	33.0767	 2	K4/5	1.59 0.03	58 6	0.79 0.16	0.50 0.10
SY Cnc PG 0858+181	09 01 03.4 +17 53 56 1	DN ZC	13.5 14.5	11.1 12.2	22-51	0.380	QPO	 1	G8-9/5	0.81 0.25	26 6	0.89 0.28	1.10 0.05

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
RU Peg	22 14 02.5	DN UG	12.6	9.0	75-85	0.3746	QPO		K2-3/5	1.29	33	1.21	0.94
	+12 42 11 1		13.1					2		0.20	5	0.19	0.04
QZ Aur	05 28 34.0	Na	17.0	6.:		0.357496		1	K0/5:	1.0	75	1.05	1.05
N Aur 1964	+33 18 22 1		18.3					1		0.2	1	0.23	0.05
V368 Aql	19 26 34.4	Na	16.2	6.6		0.3452		1					
N Aql 1936	+07 36 14 1		17.8										
CH UMa	10 07 00.7	DN UG	15.3	10.7	204	0.343			K4-M0/5	2.05	21	1.95	0.96
PG 1003+678	+67 32 47 1							2		0.29	4	0.30	0.01
MU Cen	12 12 53.9	DN UG	14.9	11.8		0.342				1.20	>45	1.20	0.99
	-44 28 17 1							1		0.23		0.20	0.03
BT Mon	06 43 48.2	Na	15.4	4.5?		0.333814		1	K5-7				
N Mon 1939	-02 01 14 1		18.1					1					
V1309 Ori	05 15 41.4	NL AM	16.0			0.332613		1	M0-1/5				
J0515+0104	+01 04 40 1		17.5					1					
V363 Aur	05 33 33.4	NL UX	14.2			0.321242		1	K0/5	1.12	70	0.86	0.77
Lanning 10	+36 59 32 1		15.0					2		0.04	2	0.08	0.04
TT Crt	11 34 47.3	DN	15.9	12.7		0.30428:			K5-M0/5	1.25	58:	0.8	
	-11 45 31 1		16.3					2					
AC Cnc	08 44 27.2	NL UX	13.8			0.300478		1	G8-K2/5	0.81	72	0.82	1.02
	+12 52 32 1		15.4					2		0.05	3	0.13	0.14
V838 Her	18 46 31.5	Na	19.2	5.4		0.297635		1		1.18	84	0.87	0.74
N Her 1991	+12 14 01 1		19.7					1		0.18	6	0.12	0.01
EM Cyg	19 38 40.0	DN ZC	13.3	12.5	13-46	0.290909	QPO	1	K5/5	0.75	63	0.57	0.76
	+30 30 27 1		14.4	12.9				2		0.09	10	0.08	0.08
Z Cam	08 25 13.2	DN ZC	13.6	10.5	12-30	0.289841	QPO		K7/5	1.41	57	0.99	0.70
	+73 06 40 1		14.8	11.7				2		0.20	11	0.15	0.03
V426 Oph	18 07 51.8	DN ZC	11.5		17-55	0.2853			K2-4/5	1.29	59	0.90	0.70
	+05 51 48 1		13.4					2		0.10	6	0.19	0.14

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
SS Cyg	21 42 42.5	DN UG	11.4	8.2	24-63	0.275130	QPO		K4/5	1.69	37	1.19	0.704
	+43 35 10 1		12.1					2		0.06	5	0.02	0.002
EI UMa	08 38 22.1	DN UG	14.8			0.2681							
PG 0834+488	+48 38 01 1							1					
U Leo	10 24 03.8	N?	17.3	10.5		0.2674 :							
N Leo 1855	+14 00 25 1												
TZ Per	02 13 50.8	DN ZC	14.7	12.3	10-20	0.2605							
	+58 22 53 1		15.6	13.3				1					
AH Her	16 44 09.8	DN ZC	13.9	11.3	7-27	0.258116	QPO		K2-M0/5	1.25	46	0.95	0.76
PG 1642+253	+25 15 01 1		14.7	12.:				2		0.08	3	0.10	0.08
V1425 Aql	19 05 26.6	N NL?	>21B	8.1		0.2558 :							
N Aql 1995	-01 42 03 1	IP?					5188.7:						
XY Ari	02 56 08.8	NL IP	>23			0.252697	206.298	1		1.85	83.5		
1H 0253+193	+19 26 35									0.45	3.5		
TW Pic	05 34 50.8	NL IP	14.1			0.2525 :	7560:						
H 0534-581	-58 01 42 1		15.9				7186:	1					
RU LMi	10 02 07.4	DN UG	17.8	13.8		0.251							
CBS 119	+33 51 02 1		19.5										
V751 Cyg	20 52 12.6	NL VY	13.2	16.:		0.25 :							
	+44 19 26 1		14.5					1					
0021-7221	00 24 06.2	NL IP?	21.			0.25 :							
V2 in 47 Tuc	-72 04 57 1												
RW Sex	10 19 56.6	NL UX	10.4			0.24507	QPO			1.35	34	0.8:	0.6:
BD -7 3007	-08 41 56 1		10.8					2		0.10	6		
AT Cnc	08 28 37.0	DN ZC	15.0B	12.7B	14	0.238691			K7-M0/5				
Ton 323	+25 20 02 1		16.2B										
TX Col	05 43 20.3	NL IP	15.7			0.2383	1911		M0/5		25:	1.3:	0.57:
1H 0542-407	-41 01 56 1						2106	1					

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
DO Leo PG 1038+155	10 40 51.3 +15 11 33 1	NL	16.5 17.0			0.234515		1					
V347 Pup LB 1800	06 10 33.6 -48 44 27 2	NL DQ?	13.4 15.8			0.231936		1 1		2.2 0.2	87 3	1.2 0.1	0.55
RW Tri	02 25 36.2 +28 05 51 1	NL UX	12.6 15.6			0.231883		1 1		0.7 0.2	70.5 2.5	0.45 0.15	0.63 0.10
V794 Aql	20 17 34.2 -03 39 50 1	NL VY	13.7 16.5	20.2B		0.23 :		1		1.7 0.6	39 17	0.88 0.39	0.53 0.07
AF Cam	03 32 15.5 +58 47 22 1	DN UG	17.0 17.3	13.4	75	0.23 :							
TV Col 2A 0526-328	05 29 25.5 -32 49 05 2	NL IP	13.6 14.1			0.228599 0.216036	1911. 339900.	1 1	K1-5/5		70 3	0.75 0.15	0.56
V705 Cas N Cas 1993	23 41 47.2 +57 31 01 1	Na	18.B	6.5		0.2280 :							
BV Pup	07 49 05.3 -23 34 02 1	DN UG	15.6 15.9	13.1	19	0.225 :							
V709 Cas J0028+5917	00 28 48.9 +59 17 22 3	NL IP	14.1 14.6			0.225 :	312.8						
CZ Ori	06 16 43.2 +15 24 11 1	DN UG	16.6 17.0	11.2	22-62	0.2189		1	M1-4/5				
EY Cyg	19 54 40.7 +32 21 55 1	DN UG	15.5	11.4	96	0.2185			K5-M0/5				
AY Psc PG 0134+070	01 36 55.5 +07 16 29 1	NL UX	15.3 17.0			0.217321		1					
V3885 Sgr CD -42 14462	19 47 40.5 -42 00 26 1	NL UX	9.6 10.3			0.2163	QPO	1		1.0:	<50	0.8: 0.2	0.7: 0.1
PQ Gem	07 51 17.3 +14 44 23 1	NL IP	14.1 14.5			0.2158	833.40 872.30						

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
AR Cnc	09 22 07.5	DN UG	18.7	15.3		0.2146		1	M4-6/5				
	+31 03 15 1		>21.2										
HL CMa	06 45 17.0	DN ZC	13.2	11.7	17	0.2145					45:	1.0:	0.45
	-16 51 35 2		14.5					1					0.10
HR Del	20 42 20.3	Nb	11.9	3.3		0.214165				1.2	40	0.67	0.55
N Del 1967	+19 09 39 1		13.0			0.1775		1		0.1	2	0.08	0.03
PW Vul	19 26 05.0	Na	17.:	6.4		0.2137 :							
N Vul 1984 I	+27 21 58 1												
J1910-5958#1	19 10 51.3	GC	20.6			0.213 :							
	-59 58 53 1												
EX Dra	18 04 14.1	DN UG	14.5		70	0.209937		2	M1-2/5	1.34	85.8	0.78	0.59
1804+6753	+67 54 12 1		15.0					2		0.03	0.6	0.02	0.02
RX And	01 04 35.5	DN ZC	12.6	10.9	5-23	0.209893	QPO			2.4	51	1.14	0.48
	+41 17 58 1		14.9	11.8				1		0.7	9	0.33	0.03
V533 Her	18 14 20.4	Na CP	14.3	3.0		0.2098 :	63.633T						
N Her 1963	+41 51 21 1		16.0										
V825 Her	17 18 37.1	NL	14.1			0.206							
PG 1717+413	+41 15 50 1		14.4					1					
T Aur	05 31 59.1	Nb	14.9	4.1		0.204378		1			57:	0.68:	0.63:
N Aur 1891	+30 26 45 1		15.1					1					
FO Aqr	22 17 55.5	NL IP	13.0			0.202060	1254.45	1			70		
H 2215-086	-08 21 05 1		14.0				1351.57	1			5		
HX Peg	23 40 23.8	DN	12.9			0.2008			K/6				
PG 2337+123	+12 37 41 1		16.6					2					
V3 in 47 Tuc	00 23					0.20 :							
	-72 04												
V895 Cen	14 29 27.2	NL AM	16.5	17.2		0.198553		1			80		
J1429-3804	-38 04 10 1			17.5							5		

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
V345 Pav	19 35 42.8	NL UX	13.4			0.198096		1					
EC 1931-5915	-59 08 22 1		14.2					1					
UX UMa	13 36 41.1	NL UX	12.7			0.196671	QPO	1	M0/5	1.0	71.0	0.47	0.47
	+51 54 49 1		14.1					1		0.1	0.6	0.07	0.10
V617 Sgr	18 07 52	NL?	13.6			0.1951							
	-35 10 39		15.7										
CT Ser	15 45 39.1	N	16.3	7.9		0.1950							
N Ser 1948	+14 22 32 1		16.6					1					
IX Vel	08 15 19.1	NL UX	9.1			0.193929	QPO			1.54	60	0.82	0.53
CPD -48 1577	-49 13 21 1		10.0					2		0.10	5	0.14	0.09
DQ Her	18 07 30.2	Na DQ	14.2	1.4		0.193621	142.131	1	M3/5	1.61	86.5	0.60	0.40
N Her 1934	+45 51 32 1		17.7					2		0.13	1.6	0.07	0.05
J0203+2959	02 03 48	NL AM	17.			0.1913							
	+29 59												
SS Aur	06 13 22.4	DN UG	14.5	10.5	40-75	0.1828			M1/5	2.8	38	1.08	0.39
	+47 44 26 1		14.8					2		1.0	16	0.40	0.02
TW Vir	11 45 21.2	DN UG	15.8	12.1	15-44	0.18267			M2-4/5	2.3	43	0.91	0.40
PG 1142-041	-04 26 07 1		16.3					1		0.6	13	0.25	0.02
BD Pav	18 43 12.0	DN UG	15.4	12.4		0.179301		2	K0-4/5	1.58	71.0	1.15	0.73
	-57 30 45 1		>16.5					2		0.07	0.1	0.07	0.06
J1313-32	13 13	NL AM	16.			0.1770							
	-32												
U Gem	07 55 05.3	DN UG	14.0	9.1	118	0.176906	QPO	1	M4.5/5	2.17	69.7	1.26	0.57
	+22 00 06 1		15.2					2		0.14	0.7	0.12	0.07
ES Dra	15 25 32.0	DN?	15.4			0.1766							
PG 1524+622	+62 00 59 1												
CW Mon	06 36 54.6	DN UG	16.3	11.9	122	0.1762		1	M3/5				
	+00 02 15 1							2					

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
WW Cet	00 11 24.7	DN	13.0	11.0	11-43	0.1758				2.1	54	0.85	0.41
	-11 28 44 1		15.7					2			4	0.11	0.01
UZ Ser	18 11 24.8	DN UG	15.5	11.9	19-44	0.1730							
	-14 55 33 1		16.0										
V405 Aur	05 58 00.3	NL IP	14.6			0.173	545.455						
J0558+5353	+53 53 58 1							1					
V849 Oph	18 14 07.2	Nb	17.9	7.2		0.172755		1					
N Oph 1919	+11 36 43 1		19.1										
0035-7230	00 37 19.8	SS	20.0			0.171926							
	-72 14 14 1		20.4										
DO Aql	19 31 25.8	Nc	17.9	8.7		0.167762		1					
N Aql 1925	-06 25 39 1		18.4										
VY Scl	23 29 00.5	NL VY	12.9	18.5		0.1662 :	QPO						
PS 141	-29 46 47 1		13.3					1					
CQ Dra BC	12 30 07.1					0.1656							
4 Dra BC	+69 12 07 1												
DO Dra	11 43 38.5	NL IP	15.6B	10.6B		0.165374	529.31		M3-5/5	2.2	45	0.83	0.38
PG 1140+719	+71 41 19 1		16.7B				274.87	2		0.2	4	0.10	0.01
AM Cas	02 26 23.4	DN ZC	15.2	12.3	8	0.165							
	+71 18 32 1							1					
V1193 Ori	05 16 26.7	NL UX	14.1			0.165							
	-00 12 15 1							1					
V1776 Cyg	20 23 30.6	NL UX	16.7			0.164739		1			75	0.6	0.37
Lanning 90	+46 31 29 1	SW	17.6					1					
X Leo	09 51 01.6	DN UG	15.8	12.4	8-38	0.1644	QPO		M2/5				
	+11 52 30 1		16.5					1					
UU Aqr	22 09 05.8	NL UX	13.5			0.163580		1	K7-M0/5	3.3	78	0.67	0.20
S 196	-03 46 19 1		15.5					1		1.0	2	0.14	0.07

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
CN Ori	05 52 07.7	DN UG	14.2	11.9	8-26	0.163199	QPO		M4/5	1.51	67	0.74	0.49
	-05 25 00 1		16.3	12.8		0.163190		2		0.09	3	0.10	0.08
AR And	01 45 03.3	DN UG	16.9	11.0	25	0.1630							
	+37 56 34 1		17.6					1					
KR Aur	06 15 44.0	NL VY	11.3	16.9		0.16280	QPO			1.7	38	0.59	0.35
	+28 35 08 1		14.5	>18B				1		0.5	10	0.17	0.02
KT Per	01 37 08.6	DN ZC	15.4	10.6	26	0.1627							
	+50 57 21 1		16.1	12.3				1					
CM Del	20 24 56.8	NL UX	13.4			0.162				1.3	73:	0.48	0.36
	+17 17 57 1		15.3					1		0.4	47:	0.15	0.03
V380 Oph	17 50 13.7	NL	14.5			0.16				1.6	42	0.58	0.36
	+06 05 28 1		>16.1					1		0.5	13	0.19	0.04
V4077 Sgr	18 34 39.4	Nb	22.	8.0		0.16 :							
N Sgr 1982	-26 26 03 1												
VY For	03 32 04.6	NL AM	19.2	17.5		0.1586			M4.5/5				
0329-2607	-25 56 57 1												
LX Ser	15 38 00.2	NL VY	14.5	17.0		0.158432	QPO	1		1.14	90	0.41	0.36
	+18 52 02 1	SW	16.5					1		0.25		0.09	0.02
IP Peg	23 23 08.7	DN UG	14.0	10.5	95	0.158206		2	M4.5/5	1.70	68	1.15	0.67
	+18 24 59 1		17.8					2		0.12		0.10	0.08
SV CMi	07 31 08.5	DN ZC	16.3	13.	16	0.156							
	+05 58 47 1												
BH Lyn	08 22 36.0	NL VY	14.5	17.2		0.155875		1					
PG 0818+513	+51 05 25 1	SW	16.4					1					
OY Ara	16 40 50.3	Na	18.6	6.0		0.155466		1					
N Ara 1910	-52 25 51 1							1					
GS Pav	20 08 07.5	DN UG:	16.8	15.	14	0.15529		1					
	-69 49 00 1												

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
PY Per	02 50 00.2 +37 39 22 1	DN ZC	19.8 15.8	13.8		0.1548		1					
QQ Vul 1E 2003+225	20 05 42.0 +22 39 58	NL AM	14.5 15.5			0.154520		1	M2-4/5		60 14		
J1910-5958#2	19 10 51.2 -59 58 49 1	GC	20.9			0.154 :							
BZ Cam 0623+71	06 29 34.1 +71 04 36 1	NL VY	12.5B 14.0B			0.153693 0.15000:		1					
WY Sge N Sge 1783	19 32 43.8 +17 44 55 1	N DN?	19.0B 21.0B	5.4:		0.153635		1 1					
BP Lyn PG 0859+415	09 03 09.0 +41 17 47 1	NL UX SW	14.5			0.152812		1 1					
AB Dra	19 49 06.5 +77 44 23 1	DN ZC	14.5 15.8	12.3	8-22	0.1520		1					
LS Peg S 193	21 51 58.0 +14 06 53 1	NL DQ?	13.0			0.15 :	990:						
AO Psc H 2252-035	22 55 18.1 -03 10 41 1	NL IP	13.3 15.0			0.149626	805.20 858.69	1					
V425 Cas	23 03 46.5 +53 17 15 1	NL VY	14.5 18			0.1496		1		2.8 1.0	25 9	0.86 0.32	0.31 0.02
PX And PG 0027+260	00 30 05.9 +26 17 30 1	NL SW	15.0 17.0			0.146353		1 1					
J2316-05	23 16 -05	NL AM	17.5			0.1451 :							
RR Pic N Pic 1925	06 35 36.1 -62 38 24 1	Nb	12.0 12.5	1.2:		0.145025	QPO	1 1			65:	0.95:	0.4:
VZ Scl	23 50 09.2 -26 22 53 1	NL VY	15.6 18.1	>18.		0.144622		1 1		0.7:	90:	1:	0.4:

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
1000+6643 PG 1000+667	10 04 34.6 +66 29 14 2	NL VY	14.6 15.6			0.1444		 1					
J1007-20	10 07 -20	NL AM	18.3			0.1444 :		 1					
V1101 Aql	20 13 04.1 +15 35 46 1	DN?	14.3 14.7			0.1442							
UU Col J0512-3241	05 12 13.1 -32 41 39 2	NL IP	17.6			0.144	863.5						
J1712-2414	17 12 35.9 -24 14 41 1	NL IP	14.2 14.6			0.142 :	927.6 1003						
MN Hya J0929-2404	09 29 07.1 -24 05 05 1	NL AM	17.0			0.1412		1					
V849 Her PG 1633+115	16 35 45.8 +11 24 56 1		15.0			0.1409 :							
V442 Oph	17 32 15.2 -16 15 23 1	NL VY	12.6	14.0 15.5		0.1406		 1		1.1 0.3	67: 27	0.34 0.10	0.31 0.02
UU Aql	19 57 18.6 -09 19 20 1	DN UG	16.0 17.0	11.0	71	0.14049:		 1	M2-4/5				
J0439-6809	04 39 49.7 -68 09 02 1	SS	21.6			0.1403 :							
V1223 Sgr	18 55 02.3 -31 09 49 1	NL IP	12.3 >16.8			0.140244	746. 794.38	 1			21 6	0.5 0.1	0.4
V1432 Aql J1940-1025	19 40 11.5 -10 25 26 1	NL AM AS	14.9 18.0			0.140235 0.140626		1 1	M4/5				
V909 Sgr N Sgr 1041	18 25 52.3 -35 01 27 1	Na	20.	6.8		0.14 :		1					
BY Cam H 0538+608	05 42 49.0 +60 51 31 1	NL AM AS	14.6	17.5		0.13979 0.138434	11846.4 627264.	 1					

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
V1315 Aql	19 13 54.6	NL UX	14.4			0.139690		1		2.9	82	0.73	0.30
KPD 1911+121	+12 18 02 1	SW	16.3					1		1.1	4	0.30	0.01
V1500 Cyg	21 11 36.5	Na NL	17.2	2.2		0.139613						>0.9	
N Cyg 1975	+48 09 02 1	AM AS	18.6			0.137171		1					
WX Ari	02 47 36.3	NL UX	15.3			0.13934							
PG 0244+104	+10 35 38 1	SW	15.8					1					
V1668 Cyg	21 42 35.3	Na	19.9B	6.7		0.1384		1					
N Cyg 1978	+44 01 55 1		21.:B										
V603 Aql	18 48 54.5	Na SH	11.4	-1.1		0.1381	11590.			2.3	17	0.66	0.29
N Aql 1918	+00 35 03 1		11.9			0.14646		1		0.9	7	0.27	0.02
1933+5100	19 34 36.6	NL	17.3			0.138 :							
1H 1929+509	+51 07 37 1												
TT Ari	02 06 53.0	NL VY	9.5	14.5		0.137551	QPO						
	+15 17 42 1	SH?	12.3	16.5		0.132626		1					
DW UMa	10 33 53.1	NL UX	14.9	18.		0.136606		1			80:	0.9:	0.29:
PG 1030+590	+58 46 54 1	SW	16.4					1					
HL Aqr	22 20 27.0	NL UX	13.5			0.1356	QPO						
PHL 227	+02 00 53 1							1					
SW Sex	10 15 09.4	NL UX	14.8B			0.134938		1			79	0.58	0.33
PG 1012-029	-03 08 35 1	SW	16.7B					1			1	0.20	0.06
BG CMi	07 31 29.0	NL IP	14.3			0.134749	847.03				33	0.8	0.38
3A 0729+103	+09 56 22 1		15.4				913.51	1			13	0.2	
MV Lyr	19 07 16.4	NL VY	12.1	17.7		0.1329	QPO		M5/5				0.17:
	+44 01 07 1	SH?	14.1	18.B		0.1377		1					
AM Her	18 16 13.4	NL AM	12.0	15.0		0.128927	QPO		M4.5/5	2.4:	60:	0.39:	0.26:
	+49 52 03 1		13.5	15.5				1		0.4			
DN Gem	06 54 54.4	Na	15.8	3.5		0.12785							
N Gem 1912	+32 08 28 1												

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
BX Pup	07 54 15.5 -24 19 36 1	DN ZC	16.8	13.8	18	0.127							
UZ Boo	14 44 01.3 +22 00 56 1	DN SU? WZ?	19.8 20.4	11.5	360:	0.125 :							
AH Men H 0616-818	06 11 44.5 -81 49 25 1	NL SH	13.2 14.0			0.122993 0.12721		 1					
LQ Peg PG 2133+115	21 36 19.2 +11 40 54 1	NL UX	14.7			0.121 :							
J0501-03	05 01 -03	NL AM	15.			0.1188							
V2214 Oph N Oph 1988	17 12 01.6 -29 37 33 1	Na	20.5	8.0		0.117515							
TU Men	04 41 40.6 -76 36 46 1	DN SU	18.5	11.6 12.5	37 194	0.1172 0.1262		 1					
QU Vul N Vul 1984#2	20 26 45.9 +27 50 43 1	Na	19.	5.6		0.111765		 1					
V349 Pav DR V211b	20 08 55.8 -65 27 43 1	NL AM	18 19.5			0.1109							
V795 Her PG 1711+336	17 12 56.1 +33 31 21 1	NL SH SW	12.5B 13.2B			0.108265 0.116486		 1					
V Per N Per 1887	02 01 53.7 +56 44 04 1	N NL	18.0 18.5	9.2		0.10712		1					
V348 Pup 1H 0709-360	07 12 32.9 -36 05 40 1	NL DQ?	15.5 17.0			0.101839		1 1					
NY Ser PG 1510+234	15 13 02.4 +23 15 07 1	DN SU	15.6			0.1007 * 0.1064							
QS Tel J1938-4612	19 38 35.6 -46 12 57 1	NL AM	15.2 15.8	17.4		0.097187		 1	M4.5/5				

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
CC Cnc	08 36 19.1 +21 21 06 1	DN UG	17.4 18.8	13.1B		0.0942 :		 1					
UW Pic J0531-4624	05 31 35.4 -46 24 08 1	NL AM	16.4 17.2			0.09268			M4.5/5				
GX Cas	00 49 01.5 +56 52 44 1	DN SU	18.5 	 13.3		0.089 * 0.093							
UZ For EXO 0333-255	03 35 28.7 -25 44 23 1	NL AM	17. 	18.2 20.5		0.087865		1 1	M4.5/5			0.44 0.15	
V344 Lyr	18 44 39.0 +43 22 27 1	DN SU	>20 	14.5 13.8	13-19 240:	0.0876 * 0.09145							
EU Cnc	08 51 27. +11 46 58	NL AM	20.4 21.0			0.0871							
IR Com S 10932 Com	12 39 32.0 +21 08 06 1		16.5B 18. B	13.5		0.087039		1					
DM Dra	15 34 12.3 +59 48 31 1	DN UG	20.7 	15.5		0.087 :							
HU Aqr J2107-0517	21 07 58.2 -05 17 39 1	NL AM	15.3 	17.7 20.		0.086820		1 1	M3-5/5	<5.6	80 5	0.95	0.15 0.02
YZ Cnc	08 10 56.7 +28 08 33 1	DN SU	14.1 15.5	11.9 10.5	6-16 134	0.0868 0.09204	QPO	 1		4.5	38 3	0.82 0.08	0.17
DV UMa US 943	09 46 36.7 +44 46 45 1	DN SU?	18.6 20.6	15.4		0.08597		2	M4.5/5:				
TU Crt	11 03 36.5 -21 37 46 1	DN SU?	17.5 	 12.1:		0.0844 :							
TY PsA PS 74	22 49 39.9 -27 06 55 1	DN SU	16. 17.	 12.		0.0841 0.08765	QPO	D 1					
KK Tel	20 28 38.3 -52 18 45 1	DN UG	19.2 19.6	13.5		0.084							

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
EF Peg	21 15 04.2	DN SU	18.5			0.0837 *				3.8		0.65:	0.17:
	+14 03 50 1			10.7	254	0.0871							
J1724+41	17 24	NL AM				0.0833							
	+41												
HV Aur	04 53 16.8	DN SU	>19.	15.0		0.0823 *							
	+38 16 37 1					0.0855							
V1974 Cyg	20 30 31.7	Na SH	15.4	4.4		0.081259							
N Cyg 1992	+52 37 51 1					0.084977							
AR UMa	11 15 44.9	NL AM	13.3	16.5		0.08052			M5-7/5				
	+42 58 23 1		14.0										
WW Hor	02 36 11.6	NL AM	17.6	19.5		0.080199		1	M6/5:				
EXO 0234-523	-52 19 14 1		18.1	21.6				1					
AN UMa	11 04 25.8	NL AM	14.5	16.0		0.079753	QPO						
PG 1101+453	+45 03 14 1			18.9B				1					
EK UMa	10 51 35.2	NL AM		18.		0.07948					56		
1E 1048+542	+54 04 36 1			20.0							18		
BR Lup	15 35 53.1	DN SU	>17.5			0.0793 *							
	-40 34 05 1			13.1		0.0822							
ST LMi	11 05 39.8	NL AM	15.0			0.079089			M5-6/5	4.5	56	0.76	0.17
CW 1103+254	+25 06 28 1		17.2					1		1.0	4	0.30	0.07
RW UMi	16 47 54.8	Nb	18.8	6.0		0.079 :							
N UMi 1956	+77 02 12 1		21.										
BL Hyi	01 41 00.4	NL AM	14.3	16.9		0.078915	QPO		M3-4/5		70		
H 0139-68	-67 53 29 1		16.4	17.4				1			10		
MR Ser	15 52 47.3	NL AM	14.9	17.		0.078798			M5-6/5				
PG 1550+191	+18 56 27 1		15.8					1					
V884 Her	18 02 06.5	NL AM	15.			0.07850		1					
J1802+1804	+18 04 43 2							1					

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
CU Vel	08 58 35.8	DN SU	17.0	10.7	113	0.0785				8.7	59	1.23	0.15
	-41 47 51 1				386	0.0799		1		0.4	6	0.23	0.03
V2301 Oph	18 00 35.6	NL AM	16.1	21.		0.078450		1	M6/5		80	0.9	0.19
1H 1752+081	+08 10 12 1		16.7					1			2	0.1	
BZ Cir	14 54 14.9		18.2			0.0784 :							
1449-6804	-68 16 17 1												
DH Aql	19 26 11	DN SU	18.3			0.0778 *							
	-10 15 38		18.5			0.0805							
TT Boo	14 57 44.7	DN SU	19.2	12.7	45	0.077 :							
	+40 43 41 1					0.07811							
HS Vir	13 43 38.5	DN SU	16.6	14.6	8	0.077 :							
PG 1341-079	-08 14 04 1	ER				0.08077		1					
J2115-5840	21 15 41.0	NL AM	16.2			0.07691:							
	-58 40 54 1		17.4										
AW Gem	07 22 40.6	DN SU	18.8	13.8	98	0.07684*							
	+28 30 16 1		19.4	13.1	410	0.07943							
V1113 Cyg	19 22 41.9	DN SU	19.4		10:	0.0766 *							
	+52 43 59 1			13.3	400:	0.0792							
SU UMa	08 12 28.2	DN SU	14.2	12.2	5-33	0.07635							
PG 0808+627	+62 36 23 1		15.0	11.2	160	0.07904		1					
V630 Cyg	21 34 59.1	DN SU	17.2	14.1		0.076 *							
	+40 40 20 1			13.8		0.079							
V503 Cyg	20 27 17.4	DN SU	17.4	13.4	30	0.07570							
	+43 41 23 1		17.6		89	0.08101							
CE Gru	21 37 56.5	NL AM	18.0	20.7B		0.0754							
Gru V1	-43 42 14 1		18.5										
BE Oct	00 00 49.1	DN SU	19.4			0.075 *							
	-77 18 58 1			15.9		0.077							

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
PV Per	02 42 54.7	DN SU	>20.			0.075 *							
	+38 04 08 1			14.9		0.078							
BK Lyn	09 20 11.3	NL SH	14.1			0.07498							
PG 0917+342	+33 56 41 1		16.5			0.07857		1					
WX Hyi	02 09 50.8	DN SU	14.7	12.5	14	0.074813				5.5	40	0.9	0.16
	-63 18 41 1		14.8	11.4	140	0.0774		1		1.5	10	0.3	0.05
LY Hya	13 31 53.8	DN	14.4			0.0748							
1329-2925	-29 40 59 1		18.4					1					
Z Cha	08 07 28.6	DN SU	15.3	12.4	82	0.074499	QPO	2	M5.5/5	6.7	81.8	0.84	0.125
	-76 32 02 1		17.2	11.9	287	0.07740		2		0.2	0.1	0.09	0.014
VW Hyi	04 09 11.3	DN SU	13.4	9.5	27	0.074271	QPO			6	60	0.63	0.11
	-71 17 41 1		13.8	8.5	179	0.07714		1		1	10	0.15	0.02
VZ Pyx	08 59 20.0	DN?SU?	13.5	12.5		0.074							
1H 0857-242	-24 28 56 1	IP?	15.8	11.			2925:	1					
V1251 Cyg	21 40 52.7	DN SU	19.:			0.07376*							
	+48 39 53 1			12.5		0.07604							
AY Lyr	18 44 26.6	DN SU	18.0	13.2	19-32	0.07370*							
	+37 59 52 1			12.3	205	0.07597							
HT Cas	01 10 13.2	DN SU	16.4	10.8	400	0.073647	QPO	2	M5-6/5	6.7	81	0.61	0.09
	+60 04 36 1		18.4			0.076077		1		1.4	1	0.04	0.02
J1002-19	10 02	NL AM?	17.	20.4		0.0736							
	-19												
VW Vul	20 57 45.0	DN UG	15.6	13.6	14-23	0.0731				1.7	44	0.24	0.14
	+25 30 27 1							1		0.4	12	0.06	0.01
T Pyx	09 04 41.5	Nr	15.3B	6.5		0.073 :							
	-32 22 47 1		15.6B			0.0762		1					
EP Dra	19 07 06.1	NL AM	17.6			0.072656		1		3.2	80:	0.43	0.13
H 1907+690	+69 08 42 1		>21							0.5		0.07	

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
KV And	2 17 13.8 +40 41 31 1	DN SU	22.5: 	14.6 14.1	18-55 270:	0.0722 * 0.0743							
VW CrB	16 00 03.7 +33 11 15	DN SU	>17.5 	 14.	 	0.0722 * 0.0743							
FO And	01 15 32.1 +37 37 36 1	DN SU	17.5 	13.5 	15-23 	0.07161 0.07411		 1					
GD 552	22 50 39.8 +63 28 38 1	DN?	16.5 	 	 	0.07134 		 1		14. 3.	20:	1.4:	0.1:
RZ Leo	11 37 22.3 +01 48 58 1	DN SU WZ	19.2 	11.5 	 	0.0708 							
RS Cae J0453-4213	04 53 25.5 -42 13 41 2	NL AM	18.4 19.6	 	 	0.0708 : 		 1					
J0953+14	09 53 +14	NL AM	19. 	 	 	0.0708 							
V834 Cen 1E 1405-451	14 09 07.6 -45 17 18 1	NL AM	14.2 16.0	17. 	 	0.070498 	QPO	 1	M6.5/5		50 10	0.66 0.18	
VV Pup	08 15 06.8 -19 03 18 1	NL AM	14.5 16.0	17.5 18.0	 	0.069747 	QPO	 1	M4/5:	5.5	78 5		
CF Gru 2138-4518	21 41 23.0 -45 04 31 1	DN UG	19.9 20.2	 	 	0.069 : 							
V544 Her	16 38 05.3 +08 37 58 1	DN UG	20.: 	14.5 	 	0.069 : 							
RZ Sge	20 03 18.5 +17 02 53 1	DN SU	16.9 17.4	12.8 12.2	62-93 266	0.06863* 0.07042							
J1957-5738	19 57 11.5 -57 38 22 1	NL AM	18. 	 	 	0.068625 		 1					
IR Gem	06 47 34.6 +28 06 23 1	DN SU	16.3 17.0	11.7 11.2	22-48 150	0.0684 0.07076		 1					

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
TY Psc	01 25 39.3	DN SU	15.3	12.2	11-35	0.06833							
	+32 23 11 1		16.3	11.7	370	0.070 :		1					
EX Hya	12 52 24.5	NL IP	13.0	10.0	574	0.068234	4021.62	1	M3/5	6.0	78	0.78	0.13
	-29 14 58 1		14.1					1		1.3	1	0.17	0.01
BZ UMa	08 53 44.3	DN SU?	15.2	10.2	181	0.06799			M5-6/5				
PG 0849+580	+57 48 40 1		15.9					1					
CY UMa	10 56 57.1	DN SU	17.0	13.5	115:	0.06795							
	+49 41 18 1		17.8	12.3	297:	0.07210		1					
SS UMi	15 51 22.4	DN SU	16.9	12.6	30-48	0.06778							
PG 1551+719	+71 45 11 1		17.6			0.0701		1					
V701 Tau	03 44 01.9	DN SU	>21.			0.067 *							
	+21 57 08 1			14.1		0.069 :							
AK Cnc	08 55 18.9	DN SU	18.9			0.06593*							
	+11 19 41 1			12.8		0.06749							
GO Com	12 56 37.2	DN SU	20.0	13.2		0.0658							
	+26 36 43 1			13.1									
DM Lyr	18 58 44.5	DN SU	18.			0.065 *							
	+30 15 33 1			13.6		0.067							
AQ CMi	07 14 34.8	DN SU	18.3			0.0646 *							
	+08 48 05 1			14.4		0.0661							
CT Hya	08 51 07.4	DN SU	19.9			0.0637 *							
	+03 08 34 1			14.0		0.0649							
ER UMa	09 47 11.9	DN SU	15.8	13.4	4-5	0.06366							
PG 0943+521	+51 54 08 1	ER		12.8	43	0.0656		1					
EK TrA	15 14 01.5	DN SU	>17	12.1	231	0.0636 *							
	-65 05 31 1			12.0	487	0.06492							
VY Aqr	21 12 09.1	DN SU	17.1	8.0B		0.0635							
	-08 49 36 1	WZ	17.5	10.5		0.0645		1					

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
OY Car	10 06 22.3	DN SU	15.3	12.4	25-50	0.063121		2	M6/5	9.8	83.3	0.685	0.070
	-70 14 05 1		17.3	11.4	318	0.064544		1		0.3	0.2	0.011	0.002
HO Del	20 36 55.6	DN SU	>17.			0.063 *							
	+14 03 09 1			13.6		0.064							
BC UMa	11 52 16.0	DN SU	18.6			0.063							
	+49 14 41 1												
EU UMa	11 49 55.7	NL AM	16.5B			0.06260							
RE J1149+28	+28 45 08 1		16.8B										
V347 Pav	18 44 47.8	NL AM	15.2			0.062553					80:		
J1844-7418	-74 18 33 1		17.6										
V436 Cen	11 14 00.2	DN SU	15.3	12.4	32	0.062501	QPO			4:	65:	0.7:	0.17:
	-37 40 49 1		15.5	11.3	335	0.063785		1		1	5	0.1	
TV Crv	12 20 24.2	DN SU	19.	12.5		0.0625 *							
N Crv 1931	-18 27 03 1					0.065							
SX LMi	10 54 30.5	NL	16.B			0.0625 :							
CBS 31	+30 06 09 1												
V2051 Oph	17 08 19.1	DN UG?	15.0	13.0		0.062428	QPO	2		3.4	80.5	0.44	0.13
	-25 48 31 1		17.5					1		0.6	2.0	0.05	0.04
DP Leo	11 17 16.0	NL AM	17.5B	19.5		0.062363		1		6.7	79.6	0.71	0.11
1E 1114+182	+17 57 41 1		19.5B	>22									
UV Per	02 10 07.9	DN SU	17.1		360	0.0622 :							
	+57 11 19 1		17.9	11.7		0.06641							
V1159 Ori	05 28 59.5	DN SU	13.6	12.0	4	0.062178							
	-03 33 53 2	ER	15.1	11.2	48	0.0641		1					
CP Tuc	23 15 19.2	NL AM	17.1			0.061834							
J2315-5910	-59 10 28 1							1					
CP Pup	08 11 46.0	Na SH?	15.0	0.2		0.06143							
N Pup 1942	-35 21 05 1					0.06834		1					

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
V4140 Sgr	19 58 49.8	DN SU?	17.5	15.5		0.061430		1					
NSV 12615	-38 56 13 1		19.0					1					
AQ Eri	05 06 13.1	DN SU	17.7		78	0.06094							
	-04 08 08 1			12.5		0.06225		1					
J2353-3851	23 53 00.6	DN?	16.5			0.0607 :							
	-38 51 45					0.0264 :							
V1028 Cyg	20 00 55.8	DN SU	19.			0.06041*							
	+56 56 35 1			13.0		0.06154							
CI UMa	10 18 13.0	DN SU	18.8		34	0.060							
	+71 55 44 1			13.8	140	0.0625							
FS Aur	05 47 48.3	DN UG	16.2	14.4		0.0595							
	+28 35 11 1							1					
GQ Mus	11 52 02.4	Na AM?	17.5	7.2		0.059365							
N Mus 1983	-67 12 20 1							1					
T Leo	11 38 27.0	DN SU	15.2	11.0	450	0.05882				1.4	65	0.16	0.11
PG 135+036	+03 22 07 1		15.9	10.0		0.0602		1		0.3	19	0.04	0.01
RZ LMi	09 51 49.1	DN SU	16.8	15.0	4	0.0585 *							
PG 0948+344	+34 07 24 1	ER		14.2	19	0.05946							
WX Cet	01 17 04.1	DN SU	17.5	9.5	450	0.05829							
N Cet 1963	-17 56 23 1	WZ	18.5			0.05936:		1					
HV Vir	13 21 03.1	DN SU	19.0			0.05799							
N Vir 1929	+01 53 30 1	WZ?		11.5		0.05879							
MM Hya	09 14 14.1	DN SU?	18.7	14.2B		0.057591							
PG 0911-066	-06 47 46 1		18.9										
EG Cnc	08 43 04.1	DN SU	17.7			0.0573 *							
	+27 51 49 1	WZ		11.4		0.0582							
PU Per	02 42 16.2	DN SU	<20.	15.2		0.057 *							
	+35 40 49 1				330:	0.058 :							

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
SW UMa	08 36 42.7	DN SU	16.5	10.6		0.056815	954			7.1	45	0.71	0.10
	+53 28 38 1	DQ?	17.0	9.	459	0.05833		1		2.0	18	0.22	0.01
WZ Sge	20 07 36.2	DN SU	14.5			0.056688	28.95	1		8.7	75	0.45	0.058
	+17 42 15 1	WZ CP	15.5	7.:	11876	0.05714	28.13	1	DAQZ5	1.1	2	0.19	0.023
AL Com	12 32 25.9	DN SU	20.0	12.8	325	0.056668							
	+14 20 46 1	WZ	20.8	11.8	7300:	0.05735							
EF Eri	03 14 13.1	NL AM	13.7	16.5B		0.056266	QPO	D			55		
2A 0311-227	-22 35 42 1		15.5	17.7B									
CI Gru	21 33 07.0	DN	16.5B			0.056 :							
Hawkins V6	-42 28 54 1		18.5B										
HV And	00 40 55.4	NL	15.2			0.05599:							
	+43 24 58 1		16.8B										
J0153-59	01 53	NL AM	17.0	15.		0.0556 :							
	-59												
FH UMa	10 47 09.9	NL AM	19.4			0.0556 :							
J1047+6335	+63 35 13 2												
J1015+0904	10 15 34.7	NL AM	18.8	17.		0.055471		D					
	+09 04 42												
EV UMa	13 07 53.9	NL AM	17.	20.5		0.055338							
RE J1307+53	+53 51 30 1		18.	20.8									
LL And	00 41 51.4	DN SU	20.0			0.055 *							
	+26 37 21 1			13.8		0.057006							
V844 Her	16 25 01.7	DN SU	17.5			0.055 *							
	+39 09 26			12.5		0.056							
DI UMa	09 12 16.2	DN SU	18.0	16.0	5	0.0548 *							
	+50 53 54 1	ER		15.2	25	0.0555							
J2022-3954	20 22 37.5	NL AM	18.5			0.054179							
	-39 54 13		19.5										

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	T1 T2	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
J0132-6554	01 32 42.0 -65 54 32	NL AM	19.7			0.054049							
V485 Cen	12 57 23.4 -33 12 07 1	DN SU?	18.2	14.	148	0.040995 0.04007:		 1					
GP Com G61-29	13 05 43.4 +18 01 02 1	NL AC	15.7 16.0			0.03231	QPO	 1					
CP Eri	03 10 32.8 -09 45 06 1	NL AC	19.7	16.5		0.01995							
V803 Cen AE 1	13 23 44.5 -41 44 30 1	NL AC	13.2 16.8			0.01865:							
CR Boo PG 1346+082	13 48 55.3 +07 57 35 1	NL AC SH?	13.0 17.5			0.017029 0.017278							
HP Lib EC 1533-1403	15 35 52.9 -14 13 12 1	NL AC	13.7			0.01295:							
AM CVn HZ 29	12 34 54.4 +37 37 43 1	NL AC SH	14.1 14.2			0.011907 0.012165		 1					
AH Eri	04 22 38.1 -13 21 29 1	DN UG? IP?	18.4 18.5	13.5			 2500:		M3-5/5				
J0153+7442	01 53 04. +74 42 44	NL IP					1414.						
WX Pyx 0830-2238	08 33 05.8 -22 48 33 1	NL IP	17.7				1557.5						
J1914+2456	19 14 25.7 +24 56 40 1	NL IP					567.7						

Low–Mass X–Ray Binaries

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	LX/LO T1	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
1811-1710 GX 13+1	18 14 31.0 -17 09 26 1	AS XB?				25.0 :			K2/3				
V395 Car 2S 0921-630	09 22 34.7 -63 17 41 1	DC	15.5B 18.0B		1.6	13.25 :		1 1	K2				
LMC X-2	05 20 29.3 -71 57 36 8		16.7 19.3		400	12.543		1 1					
J1744-2844	17 44 33.1 -28 44 19 1	XT XB XP				11.8367	0.46709	 1					
0042+3244 4U 0042+32	00 44 48.8 +33 00 33 2	XT	18.8 19.3			11.6 :							
V1341 Cyg Cyg X-2	21 44 41.1 +38 19 18 1	ZS XB	14.5 14.9		140	9.844 77.8	QPO	 1	A-F/3-4		70: 5	1.6: 0.3	0.8: 0.3
V404 Cyg GS 2023+338	20 24 03.7 +33 52 03 1	XT BH	20.5 	11.6 		6.4714 0.23585		 1	K0/3-5	16.7 1.5	56 4	10. 2.	0.65 0.25
V1055 Ori 2S 0614+091	06 17 07.3 +09 08 13 1	XB	18.5		1200	4.898 :							
QX Nor 4U 1608-52	16 12 42.9 -52 25 23 1	XT XB AS	>20.	18.:		4.1 :							
V1033 Sco GRO J1655-40	16 55 00.1 -39 50 45 1	XT BH	17.3 >18.	14.1		2.62157		1 1	F3-6/4	2.9 0.0	69. 0.	7.02 0.22	2.34 0.12
BW Cir X 1354-6429	13 58 09.6 -64 44 05 1	XT	22.:	16.9		1.92 :							
1702-3621 4U 1702-36	17 05 44.4 -36 25 23 1	ZS	18.6			0.933	QPO						

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	LX/LO T1	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
1624-4904 4U 1624-49	16 28 02.3 -49 11 25 C					0.921		D					
NP Ser 4U 1813-14	18 16 01.3 -14 02 11 1	ZS XB	17.5		3000	0.813	QPO						
V1333 Aql Aql XR-1	19 11 15.9 +00 35 06 1	XT XB	19.4 	14.8	900 435	0.7904 :			K5/5				
V818 Sco Sco X-1	16 19 55.0 -15 38 25 1	ZS	12.0 13.4		500	0.787313	0.00293 QPO	 1					
AC 211	21 29 58.0 +12 10 02 1	GC XB	15.6 16.4		20	0.713014		 1					
V822 Cen Cen X-4	14 58 21.9 -31 40 07 1	XT XB	18.2 19.1	12.8	300	0.629063		 1	K7/3		42 12	1.3 0.8	<0.7
V821 Ara GX 339-4	17 02 49.3 -48 47 22 1	XT XP?	15. >21.		10	0.619	0.00113 190.5	 1					
V2293 Oph N Oph 1993	17 19 36.8 -25 01 03 1	XT SH?	>21. 	15.0 		0.6127 :							
MM Ser Ser XR-1	18 39 57.4 +05 02 08 1	AS XB	19.2 		1200	0.54 : 3.40252:							
V2107 Oph N Oph 1977	17 08 14.1 -25 05 32 1	XT BH	21.3 21.8	15.8		0.521		 1			<80	6.65 0.25	0.45 0.15
GU Mus N Mus 1991	11 26 26.6 -68 40 32 1	XT BH SH	20.4 20.6	13.4	>100	0.432602 0.4376		 2	K3-4/5	7.5 1.1	60 6	6.3 1.3	0.85 0.25
V1408 Aql 4U 1957+11	19 59 23.9 +11 42 29 1		18.7 19.1		800	0.3887							
LU TrA 4U 1556-605	16 01 02.2 -60 44 18 1		18.6 19.2		180	0.3807							
J1745-2901	17 45 36 -29 01 34					0.3482		1					

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	LX/LO T1	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
QZ Vul	20 02 49.4	XT BH	17.5			0.344092			K3-6/5	24	65	8.5	0.36
GS 2000+25	+25 14 11 1	SH	>23.			0.3474		1		7	9	1.5	0.12
V616 Mon	06 22 44.4	XT BH	17.9	11.2	200	0.323014			K4/5	15	<76	3.77	0.27
Mon X-1	-00 20 45 1		18.4					2		2		0.47	0.12
V2134 Oph	17 02 06.3	XT XB	18.3		600	0.296505		1			>65		
MXB 1659-29	-29 56 45 1		>23.										
MM Vel	10 13 36.3	XT BH?	20.2	13.8		0.286 :					>37		
N Vel 1993	-45 04 32 1												
1746-3702	17 50 12.5	GC XB				0.239 :							
4U 1746-37	-37 03 08 1												
V691 CrA	18 25 46.6	DC	15.8		20	0.232109		1			80	1.4	0.28
2A 1822-371	-37 06 18 1		16.4					2			4	0.6	0.08
V1727 Cyg	21 31 26.2	DC XB	18.0	15.8	30	0.218259		1	F7/5		85	0.6	0.4
4U 2129+47	+47 17 25 1							1			5	0.2	0.2
V518 Per	04 21 42.8	XT BH	22.4	12.6		0.212140			M0-4/5		48	3.57	0.39
GRO J0422+32	+32 54 27 1	SH				0.2157		1			3	0.34	0.02
V926 Sco	17 38 58.1	AS XB	17.5		1100	0.19382							
MXB 1735-44	-44 27 00 1							1					
V4134 Sgr	17 58 39.9		18.4		1400	0.1858		D					
4U 1755-33	-33 48 27 1		18.8										
V2216 Oph	17 31 44.1	AS	17.0		400	0.1749							
4U 1728-16	-16 57 41 1		17.3					1					
GR Mus	12 57 37.1	XB	19.1		200	0.16389	0.0275	D					
2S 1254-690	-69 17 20 1							1					
UY Vol	07 48 33.7	XT XB	16.8			0.159338		1					
EXO 0748-676	-67 45 09 1		18.0										
V801 Ara	16 40 55.4	AS XB	17.5		1700	0.158495						1.45	
MXB 1636-53	-53 45 05 1		17.9					1				0.20	

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Mag3 Mag4	LX/LO T1	Orb.Per. 2. Per.	3. Per. 4. Per.	EB SB	Spectr2 Spectr1	M1/M2	Incl	M1	M2
1323-6152 4U 1323-62	13 26 36.2 -62 08 09 3	XB				0.1222		D					
UW CrB MS 1603+2600	16 05 45.7 +25 51 45 1		19.7		16	0.07711		1					
1705-4402 4U 1705-44	17 08 54.5 -44 06 02 D	AS XB				0.0544		D					
V1405 Aql 4U 1915-05	19 18 47.9 -05 14 09	XB SH	21.5		10000	0.03472 0.035041		D					
KZ TrA 4U 1627-67	16 32 16.6 -67 27 42 1	XP	18.5		170	0.02876	7.6635						
1850-0846	18 53 04.8 -08 42 20 1	GC XB	20.3			0.01427							
1820-3023 4U 1820-30	18 23 40.5 -30 21 39 1	GC AS XB	18.7B			0.007928	QPO						

Related Objects

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Orb.Per.	EB SB	Spectr2 Spectr1	E	M1/M2	Incl	M1	R1	M2	R2
IK Peg	21 26 26.6	DS	6.1	21.7217		A8/5	0.0			1.10	0.008	1.7	
BD +18 4794	+19 22 32 1				1					0.10	0.002		
V651 Mon	07 09 22.4	PN DS	11.3	15.991		A5/5	0.07		60	0.40	0.019	1.8	2.2
AGK3 -0 965	-00 48 24 1		15.3		1		0.06		15	0.05		0.3	0.2
FF Aqr	22 00 36.2	DS	9.3	9.207755	1	G8/3		0.24	81.0	0.5	0.14	2.0	5.7
BD -3 5357	-02 44 26 1		9.6		1	sdOB							
1317+4520	13 19 15.3	DS DD	14.1	4.872						0.33		>0.42	
PG 1317+453	+45 05 11 A				1	DA3							
Feige 24	02 35 07.5	DS	12.4	4.23160		M1-2/5		1.6	81	0.54	0.032	0.30	
	+03 43 57 1				2	DA0		0.1	6	0.03	0.004	0.04	
1241-0102	12 44 28.5	DS DD	14.0	3.347						0.31		>0.37	
PG 1241-010	-01 18 56				1	DA3							
KW Aur C	05 15 23.6	DS	8.0	2.9934		F4/5							
RE J0515+324	+32 41 06 1				1	DA							
SP 1	15 51 41.1	PN DS	13.9	2.91									
	-51 31 23 6												
Ton 245	15 40 23.8	DS	13.9	2.501								>0.6	
PG 1538+269	+26 48 35 A				1	sdB							
QR Sge	19 11 30.8	PN DS	11.8	2.3583									
	+16 51 38				1	WN8							
BE UMa	11 57 44.6	PN DS	14.1	2.291166	1	K3-4/5		1.38	82.4	1.08	0.070	0.79	1.24
PG 1155+492	+48 56 20 2		15.6		1	DA0		0.18	0.1	0.25	0.007	0.10	0.12
Ht Tr 4	16 45 00.0	PN DS	17.1	1.71									
	-51 12 18												

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Orb.Per.	EB SB	Spectr2 Spectr1	E	M1/M2	Incl	M1	R1	M2	R2
L870-2 WD 0135-052	01 37 57.4 -04 59 27 1	DS DD	12.8	1.55578	 2	DA DA		0.90	56	0.47 0.05	0.015	0.52 0.05	0.014
HD 49798	06 48 04.8 -44 18 59 1	DS	8.3	1.547664 13.1789	 1	F4-K0 sdO	0.03 0.03	0.9 0.5		1.75 1.0	1.45 0.25	1.75:	
Feige 55 PG 1202+608	12 04 37.0 +60 32 02 A	DS DD	13.6	1.4930	 1	 DAO							
IN CMa J0720-3146	07 20 47.9 -31 47 03 1	DS	14.8	1.26245	 2	M0-2/5 DAO		0.88 0.11	>69	0.55 0.03	0.018 0.002	0.64 0.15	
1713+3316 PG 1713+333	17 15 34.6 +33 13 06 A	DS DD	14.5	1.127	 1	 DA3				0.35		>0.18	
Abell 65	19 46 33.7 -23 08 13 3	PN DS	15.4	1.00									
J1016-0520	10 16 28.6 -05 20 34 1	DS	14.2	0.78929 3439.	 1	M0-4/5 DAO		1.8 0.5		0.65 0.05	0.016 0.001		
J2013+4002	20 13 09.0 +40 02 24 1	DS	14.6	0.7059	 1	M3-4/5 DAO				0.57 0.12			
VW Pyx	08 57 45.8 -28 57 36 1	PN DS	16.5 >17.5	0.6701							0.13 0.04		
EG UMa Case 1	12 15 44.3 +52 31 03 1	DS	13.3B 13.8B	0.66765	 2	M4-5/5 DA		1.47 0.12	<72	0.38 0.07		0.26 0.04	0.5
1026+0014 PG 1026+002	10 28 34.7 -00 00 30	DS	13.8	0.597257	 1	M4e/5 DA3	0.0		>49	0.68 0.23		0.22 0.05	0.25 0.03
V664 Cas HFG 1	03 03 47.0 +64 54 36 1	PN DS	14. 15.	0.5817									
UX CVn HZ 22	12 14 48.4 +36 38 49 1	DS	13.1 13.2	0.573703	 1	 B3	0.09 0.02	0.93 0.12	90	0.39 0.05	<1.23	0.42	
HZ 9	04 32 23.2 +17 45 05 1	DS	14.0	0.56433	 2	M5e/5 DA2		1.82 0.26		0.51 0.10		0.28 0.04	

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Orb.Per.	EB SB	Spectr2 Spectr1	E	M1/M2	Incl	M1	R1	M2	R2
V471 Tau	03 50 24.5	DS	9.2	0.521183	1	K2/5	<.03	1.00	79.5	0.71	0.012	0.73	0.80
BD +16 516	+17 14 48 1		9.8	554.635	2	DA2		0.05	2.0	0.02	0.002	0.03	0.03
J2130+4710	21 30 18.5	DS		0.5 :		Me							
	+47 10 08 2				1	D							
V477 Lyr	18 31 18.5	PN DS	14.6	0.471729	1			3.45	80.5	0.51	0.17	0.15	0.46
	+26 56 11 1		15.9B		2	sdO		0.36	0.2	0.07	0.01	0.02	0.03
UU Sge	19 42 10.2	PN DS	14.7	0.465069	2	M/5:		2.17	87.1	0.63	0.34	0.29	0.54
	+17 05 15 1		19.2		2	sdO		0.22	0.1	0.06	0.01	0.04	0.02
KV Vel	10 54 41	PN DS	11.8	0.357113				2.7	60	0.63	0.157	0.23	0.402
LSS 2018	-48 46 54 5		12.4		2	sdO		0.2	10	0.03	0.003	0.01	0.005
Feige 36	11 04 31.7	DS	12.7	0.354						0.5:			
PG 1101+249	+24 39 45 A				1	sdB							
GK Vir	14 15 36.4	DS	17.0	0.344331	1	M3-5/5			90	0.51	0.016	0.10	0.15
PG 1413+015	+01 17 18 A		>22			DAO				0.04			
BI Lyn	09 03 19.5	DS?	12.9	0.33818:		K3							
PG 0900+401	+39 51 01 1												
TW Crv	12 00 05.6	DS	12.7	0.32762		dM		3.3					
EC 1157-1845	-19 02 05 1		13.5		2	sdO		0.2					
RR Cae	04 21 01	DS	14.4	0.30371	1	Me/5				0.43	0.015		
LFT 349	-48 39 04		18.2B		1	DAwk				0.09	0.004		
CC Cet	03 10 55.0	DS	15.3	0.286654		M5e/5	0.0		42	0.40	0.023	0.18	0.21
PG 0308+096	+09 49 26				1	DA2			9	0.11	0.004	0.05	0.02
AA Dor	05 31 40.9	DS	11.2	0.261540	2		0.0	5.8	90	0.25	0.16	0.043	0.08
LB 3459	-69 53 05 1		11.6		1	sdO		1.3		0.05	0.02	0.005	0.01
BPM 71214	03 27 48.	DS	14.2	0.1806									
	-09 16				1								
MS Peg	22 58 48.1	DS	13.6	0.17366		M3-5/5		2.15	69	0.48	0.015	0.22	0.27
GD 245	+25 15 48		13.7		2	DA2		0.13	8	0.02	0.001	0.02	0.02

Object Name Altern.Name	Coordinates (J2000)	Type	Mag1 Mag2	Orb.Per.	EB SB	Spectr2 Spectr1	E	M1/M2	Incl	M1	R1	M2	R2
2331+2902 PG 2331+290	23 34 20.8 +29 18 41 A	DS DD	15.8	0.16649	 1	 DA2				0.39		>0.32	
1347-1258	13 49 52.0 -13 13 38	DS	14.8	0.1507	1 2	Me/5 DA							
1101+3626 PG 1101+364	11 04 21.1 +36 10 09 A	DS DD	14.4	0.1447	 2	 DA3		1.15 0.04	25:				
NN Ser PG 1550+131	15 52 56.4 +12 54 43 A	DS	16.6 22.:	0.130080	1 1	M5-6/5 DAO1		5.0 0.6	87 3	0.57 0.04	0.019 0.002	0.12 0.02	0.165 0.015
HW Vir BD -7 3477	12 44 20.2 -08 40 15 1	DS	10.5 11.5	0.116720	2 1	 sdB		3.3 0.3	80.6 0.9	0.54 0.09	0.18 0.01	0.16 0.03	0.19 0.01
MT Ser	17 29 01.9 -15 13 04 1	PN DS	15.4 16.0	0.113227		 sdO				0.6:	0.47 0.05	0.2 0.1	
GD 448 WD 0710+741	07 17 08 +74 00 42	DS	15.0	0.103042	 2	M/5 DA3			24.3 0.7	0.44 0.03		0.09 0.01	
0957-6639 WD 0957-666	09 59 03 -66 53	DS DD	14.6	0.060993	 2	 DA2		1.15 0.10		0.37 0.02		0.32 0.03	
V46 in M 4	16 23 47.0 -26 31 55	DS?	18.5	0.04357		 sdB:							