

## DOUBLE STAR OBSERVATION LOG

		Data		Notes	Sketch
1	Cas	Date	Time		
	Eta Cassiopeiae	See/Transp	Inst/Power		
	3.4, 7.5 307°	00h 49m.1	+57° 49'	12"	
2	Psc	Date	Time		
	65 Piscium	See/Transp	Inst/Power		
	6.3, 6.3 297°	00h 49m.9	+27° 43'	4.4"	
3	Psc	Date	Time		
	Psi 1 Piscium	See/Transp	Inst/Power		
	5.6, 5.8 159°	01h 05m.6	+21° 28'	30"	
4	Psc	Date	Time		
	Zeta Piscium	See/Transp	Inst/Power		
	5.6, 6.5 63°	01h 13m.7	+07° 35'	23"	
5	Ari	Date	Time		
	Gamma Arietis	See/Transp	Inst/Power		
	4.8, 4.8 0°	01h 53m.5	+19° 18'	7.8"	
6	Ari	Date	Time		
	Lambda Arietis	See/Transp	Inst/Power		
	4.9, 7.7 46°	01h 57m.9	+23° 36'	37"	
7	Psc	Date	Time		
	Alpha Piscium	See/Transp	Inst/Power		
	4.2, 5.1 50°	02h 02m.0	+02° 46'	1.7"	
8	And	Date	Time		
	Gamma Andromedae	See/Transp	Inst/Power		
	2.3, 5.5 63°	02h 03m.9	+42° 20'	9.8"	
9	Tri	Date	Time		
	Iota Trianguli	See/Transp	Inst/Power		
	5.3, 6.9 71°	02h 12m.4	+30° 18'	3.9"	
10	Umi	Date	Time		
	Alpha Ursa Minoris	See/Transp	Inst/Power		
	2.0, 9.0 218°	02h 31m.8	+89° 16'	18.4"	

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		Data		Notes	Sketch
11 Cet  Gamma Ceti  3.5, 7.3 294°	Date	Time			
	See/Transp	Inst/Power			
	02h 43m.3	+03° 14'	2.8"		
12 Per  Eta Persei  3.8, 8.5 300°	Date	Time			
	See/Transp	Inst/Power			
	02h 50m.7	+55° 54'	28.3"		
13  Struve 331  5.3, 6.7 85°	Date	Time			
	See/Transp	Inst/Power			
	03h 00m.9	+52° 21'	12.1"		
14 Eri  32 Eridani  4.8, 6.1 347°	Date	Time			
	See/Transp	Inst/Power			
	03h 54m.3	-02° 57'	6.8"		
15 Tau  Chi Tauri  5.5, 7.6 24°	Date	Time			
	See/Transp	Inst/Power			
	04h 22m.6	+25° 38'	19.4"		
16 Cam  1 Camelopardalis  5.7, 6.8 308°	Date	Time			
	See/Transp	Inst/Power			
	04h 32m.0	+53° 55'	10.3"		
17 Eri  55 Eridani  6.7, 6.8 317°	Date	Time			
	See/Transp	Inst/Power			
	04h 43m.6	-08° 48'	9.2"		
18 Ori  Beta Orionis  0.1, 6.8 202°	Date	Time			
	See/Transp	Inst/Power			
	05h 14m.5	-08° 12'	9.5"		
19 Tau  118 Tauri  5.8, 6.6 204°	Date	Time			
	See/Transp	Inst/Power			
	05h 29m.3	+25° 09'	4.8"		
20 Ori  Delta Orionis  2.2, 6.3 359°	Date	Time			
	See/Transp	Inst/Power			
	05h 32m.0	-00° 18'	52.6"		

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		Data		Notes	Sketch
21 Ori  Struve 747  4.8, 5.7 223°	Date	Time			
	See/Transp	Inst/Power			
	05h 35m.0	-06° 00'	35.7"		
22 Ori  Lamda Orionis  3.6, 5.5 43°	Date	Time			
	See/Transp	Inst/Power			
	05h 35m.1	+09° 56'	4.4"		
23 Ori  Theta 1 Orionis  6.7,7.9, 31°, 5.1. 6.7 132°, 96°	Date	Time			
	See/Transp	Inst/Power			
	05h 35m.3	-05° 23'	8.8",13",21.5"		
24 Ori  Iota Orionis  2.8, 6.9 141°	Date	Time			
	See/Transp	Inst/Power			
	05h 35m.4	-05° 55'	11.3"		
25 Ori  Theta 2 Orionis  5.2, 6.5 92°	Date	Time			
	See/Transp	Inst/Power			
	05h 35m.4	-05° 25'	52"		
26 Ori  Sigma Orionis  0, 7.5,6. 84°, 61°	Date	Time			
	See/Transp	Inst/Power			
	05h 38m.7	-02° 36'	12.9",43"		
27 Ori  Zeta Orionis  9, 4.0,9.162°, 10°	Date	Time			
	See/Transp	Inst/Power			
	05h 40m.8	-01° 57'	2.4", 58"		
28 Lep  Gamma Leporis  3.7, 6.3 350°	Date	Time			
	See/Transp	Inst/Power			
	05h 44m.5	-22° 27'	96"		
29 Aur  Theta Aurigae  2.6, 7.1 313°	Date	Time			
	See/Transp	Inst/Power			
	05h 59m.7	+37° 13'	3.6"		
30 Mon  Epsilon Monocerotis  4.5, 6.5 27°	Date	Time			
	See/Transp	Inst/Power			
	06h 23m.8	+04° 36'	13.4"		

## DOUBLE STAR OBSERVATION LOG

		Data		Notes	Sketch
31	Mon	Date	Time		
	Beta Monocerotis	See/Transp	Inst/Power		
	4.7, 5.2 132°	06h 28m.8	-07° 02'	7.3"	
32	Lyn	Date	Time		
	12 Lyncis	See/Transp	Inst/Power		
	5.4, 7.3 308°	06h 46m.2	+59° 27'	8.7"	
33	Cma	Date	Time		
	Epsilon Canis Majoris	See/Transp	Inst/Power		
	1.5, 7.4 161°	06h 58m.6	-28° 58'	7.5"	
34	Gem	Date	Time		
	Delta Geminorum	See/Transp	Inst/Power		
	3.5, 8.2 211°	07h 20m.1	+21° 59'	6.8"	
35	Lyn	Date	Time		
	19 Lyncis	See/Transp	Inst/Power		
	5.6, 6.5 315°	07h 22m.9	+55° 17'	14.8"	
36	Gem	Date	Time		
	Alpha Geminorum	See/Transp	Inst/Power		
	1.9, 2.9 171°	07h 34m.6	+31° 53'	2.2"	
37	Pup	Date	Time		
	Kappa Puppis	See/Transp	Inst/Power		
	4.5, 4.7 318°	07h 38m.8	-26° 48'	9.9"	
38	Cnc	Date	Time		
	Zeta Cancri	See/Transp	Inst/Power		
	5.6, 6.0 89°	08h 12m.2	+17° 39'	5.9"	
39	Cnc	Date	Time		
	Iota Cancri	See/Transp	Inst/Power		
	4.2, 6.6 307°	08h 46m.7	+28° 46'	30"	
40	Lyn	Date	Time		
	38 Lyncis	See/Transp	Inst/Power		
	3.9, 6.6 229°	09h 18m.8	+36° 48'	2.7"	

## DOUBLE STAR OBSERVATION LOG

		Data		Notes	Sketch
41 Leo  Alpha Leonis  1.4, 7.7 307°	Date	Time		177"	
	See/Transp	Inst/Power			
	10h 08m.4	+11° 58'			
42 Leo  Gamma Leonis  2.2, 3.5 122°	Date	Time		4.4"	
	See/Transp	Inst/Power			
	10h 20m.0	+19° 51'			
43 Leo  54 Leonis  4.5, 6.3 110°	Date	Time		6.5"	
	See/Transp	Inst/Power			
	10h 55m.6	+24° 45'			
44 Hya  N Hydrae  5.8, 5.9 210°	Date	Time		9.2"	
	See/Transp	Inst/Power			
	11h 32m.3	-29° 16'			
45 Crv  Delta Corvi  3.0, 9.2 214°	Date	Time		24.2"	
	See/Transp	Inst/Power			
	12h 29m.9	-16° 31'			
46 Com  24 Comae Berenices  5.2, 6.7 271°	Date	Time		20.3"	
	See/Transp	Inst/Power			
	12h 35m.1	+18° 23'			
47 Vir  Gamma Virginis  3.5, 3.5 293°	Date	Time		3.6"	
	See/Transp	Inst/Power			
	12h 41m.7	-01° 27'			
48 Cam  32 Camelopardalis  5.3, 5.8 326°	Date	Time		21.6"	
	See/Transp	Inst/Power			
	12h 49m.2	+83° 25'			
49 CVn  Alpha Canum Venaticorum  2.9, 5.5 229°	Date	Time		19.4"	
	See/Transp	Inst/Power			
	12h 56m.0	+38° 19'			
50 Uma  Zeta Ursa Majoris  2.3, 4.0, 152°, 71°	Date	Time		14.4", 709"	
	See/Transp	Inst/Power			
	13h 23m.9	+54° 56'			

## DOUBLE STAR OBSERVATION LOG

		Data		Notes	Sketch
51	Boo	Date	Time		
	Kappa Bootis	See/Transp	Inst/Power		
	4.6, 6.6 236°	14h 13m.5	+51° 47'	13.4"	
52	Boo	Date	Time		
	Iota Bootis	See/Transp	Inst/Power		
	4.9, 7.5 33°	14h 16m.2	+51° 22'	38"	
53	Boo	Date	Time		
	Pi Bootis	See/Transp	Inst/Power		
	4.9, 5.8 108°	14h 40m.7	+16° 25'	5.6"	
54	Boo	Date	Time		
	Epsilon Bootis	See/Transp	Inst/Power		
	2.5, 4.9 339°	14h 45m.0	+27° 04'	2.8"	
55	Lib	Date	Time		
	Alpha Librae	See/Transp	Inst/Power		
	2.8, 5.2 314°	14h 50m.9	-16° 02'	231"	
56	Boo	Date	Time		
	Xi Bootis	See/Transp	Inst/Power		
	4.7, 7.0 332°	14h 51m.4	+19° 06'	6.9"	
57	Boo	Date	Time		
	Delta Bootis	See/Transp	Inst/Power		
	3.5, 8.7 79°	15h 15m.5	+33° 19'	105"	
58	Boo	Date	Time		
	Mu Bootis	See/Transp	Inst/Power		
	4.3, 7.0 171°	15h 24m.5	+37° 23'	108"	
59	Ser	Date	Time		
	Delta Serpentis	See/Transp	Inst/Power		
	4.2, 5.2 178°	15h 34m.8	+10° 32'	3.9"	
60	CrB	Date	Time		
	Zeta Corona Borealis	See/Transp	Inst/Power		
	5.1, 6.0 305°	15h 39m.4	+36° 38'	6.3"	

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		Data		Notes	Sketch
61	Sco	Date	Time		
	Xi Scorpii	See/Transp	Inst/Power		
	4.8, 7.3 51°	16h 04m.4	-11° 22'	7.6"	
62	Struve 1999	Date	Time		
		See/Transp	Inst/Power		
	7.4, 8.1 99°	16h 04m.4	-11° 27'	11.6"	
63	Sco	Date	Time		
	Beta Scorpii	See/Transp	Inst/Power		
	2.6, 4.9 21°	16h 05m.4	-19° 48'	13.6"	
64	Her	Date	Time		
	Kappa Herculis	See/Transp	Inst/Power		
	5.3, 6.5 12°	16h 08m.1	+17° 03'	28"	
65	Sco	Date	Time		
	Nu Scorpii	See/Transp	Inst/Power		
	4.3, 6.4 337°	16h 12m.0	-19° 28'	41"	
66	CrB	Date	Time		
	Sigma Corona Borealis	See/Transp	Inst/Power		
	5.6, 6.6 233°	16h 14m.7	+33° 52'	6.2"	
67	Dra	Date	Time		
	16/17 Draconis	See/Transp	Inst/Power		
	4, 6.4, 5.108°, 194	16h 36m.2	+52° 55'	3.4, 90	
68	Dra	Date	Time		
	Mu Draconis	See/Transp	Inst/Power		
	5.7, 5.7 42°	17h 05m.3	+54° 28'	2.0"	
69	Her	Date	Time		
	Alpha Herculis	See/Transp	Inst/Power		
	3.5, 5.4 107°	17h 14m.6	+14° 23'	4.7"	
70	Her	Date	Time		
	Delta Herculis	See/Transp	Inst/Power		
	3.1, 8.2 236°	17h 15m.0	+24° 50'	8.9"	

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		Data		Notes	Sketch
71	Oph	Date	Time		
	36 Ophiuchi	See/Transp	Inst/Power		
	5.1, 5.1 154°	17h 15m.3	-26° 36'	4.4"	
72	Oph	Date	Time		
	Omicron Ophiuch	See/Transp	Inst/Power		
	5.4, 6.9 355°	17h 18m.0	-24° 17'	10.3"	
73	Her	Date	Time		
	Rho Herculis	See/Transp	Inst/Power		
	4.6, 5.6 316°	17h 23m.7	+37° 09'	4.1"	
74	Dra	Date	Time		
	Nu Draconis	See/Transp	Inst/Power		
	4.9, 4.9 312°	17h 32m.2	+55° 11'	62"	
75	Dra	Date	Time		
	Psi Draconis	See/Transp	Inst/Power		
	4.9, 6.1 15°	17h 41m.9	+72° 09'	30.3"	
76	Dra	Date	Time		
	40/41 Draconis	See/Transp	Inst/Power		
	5.7, 6.1 232°	18h 00m.2	+80° 00'	19.3"	
77	Her	Date	Time		
	95 Herculis	See/Transp	Inst/Power		
	5.0, 5.1 258°	18h 01m.5	+21° 36'	6.3"	
78	Oph	Date	Time		
	70 Ophiuchi	See/Transp	Inst/Power		
	4.2, 6.0 72°	18h 05m.5	+02° 30'	2.8"	
79	Lyr	Date	Time		
	Epsilon Lyrae	See/Transp	Inst/Power		
	6.1, 5.2, 7°, 173°, 9	18h 44m.3	+39° 40'	208", 2.6", 2.3"	
80	Lyr	Date	Time		
	Zeta Lyrae	See/Transp	Inst/Power		
	4.3, 5.9 150°	18h 44m.8	+37° 36'	44"	



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		Data		Notes	Sketch
81 Lyr  Beta Lyrae  3.4, 8.6 149°	Date	Time			
	See/Transp	Inst/Power			
	18h 50m.1	+33° 22'	46"		
82  Struve 2404  6.9, 8.1 183°	Date	Time			
	See/Transp	Inst/Power			
	18h 50m.8	+10° 59'	3.6"		
83  Otto Struve 525  6.0, 7.7 350°	Date	Time			
	See/Transp	Inst/Power			
	18h 54m.9	+33° 58'	45"		
84 Ser  Theta Serpentis  4.5, 5.4 104°	Date	Time			
	See/Transp	Inst/Power			
	18h 56m.2	+04° 12'	22.3"		
85 Cyg  Beta Cygni  3.1, 5.1 54°	Date	Time			
	See/Transp	Inst/Power			
	19h 30m.7	+27° 58'	34.4"		
86 Aql  57 Aquilae  5.8, 6.5 170°	Date	Time			
	See/Transp	Inst/Power			
	19h 54m.6	-08° 14'	36"		
87 Cyg  31 Cygni  8, 6.7, 4.173°, 323°	Date	Time			
	See/Transp	Inst/Power			
	20h 13m.6	+46° 44'	107", 337"		
88 Cap  Alpha Capricornus  3.6, 4.2 291°	Date	Time			
	See/Transp	Inst/Power			
	20h 18m.1	-12° 33'	378"		
89 Cap  Beta Capricornus  3.4, 6.2 267°	Date	Time			
	See/Transp	Inst/Power			
	20h 21m.0	-14° 47'	206"		
90 Del  Gamma Delphinus  4.5, 5.5 268°	Date	Time			
	See/Transp	Inst/Power			
	20h 46m.7	+16° 07'	9.6"		

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		Data		Notes	Sketch
91 Cyg  61 Cygni  5.2, 6.0 146°	Date	Time			
	See/Transp	Inst/Power			
	21h 06m.9	+38° 45'	28"		
92 Cep  Beta Cephei  3.2, 7.9 249°	Date	Time			
	See/Transp	Inst/Power			
	21h 28m.7	+70° 34'	13.3"		
93  Struve 2816  6, 7.7, 7.121°, 339°	Date	Time			
	See/Transp	Inst/Power			
	21h 39m.0	+57° 29'	11.7", 20"		
94 Peg  Epsilon Pegasi  2.4, 8.4 320°	Date	Time			
	See/Transp	Inst/Power			
	21h 44m.2	+09° 52'	142"		
95 Cep  Xi Cephei  4.4, 6.5 277°	Date	Time			
	See/Transp	Inst/Power			
	22h 03m.8	+64° 38'	7.7"		
96 Aqu  Zeta Aquarii  4.3, 4.5 266°	Date	Time			
	See/Transp	Inst/Power			
	22h 28m.8	-00° 01'	1.8"		
97 Cep  Delta Cephei  3.9, 6.3 192°	Date	Time			
	See/Transp	Inst/Power			
	22h 29m.2	+58° 25'	41"		
98 Lac  8 Lacerta  5.7, 6.5 186°	Date	Time			
	See/Transp	Inst/Power			
	22h 35m.9	+39° 38'	22.4"		
99 Aqu  94 Aquarii  5.3, 7.3 350°	Date	Time			
	See/Transp	Inst/Power			
	23h 19m.1	-13° 28'	12.7"		
100 Cas  Sigma Cassiopeiae  5.0, 7.1 326°	Date	Time			
	See/Transp	Inst/Power			
	23h 59m.0	+55° 45'	3"		