


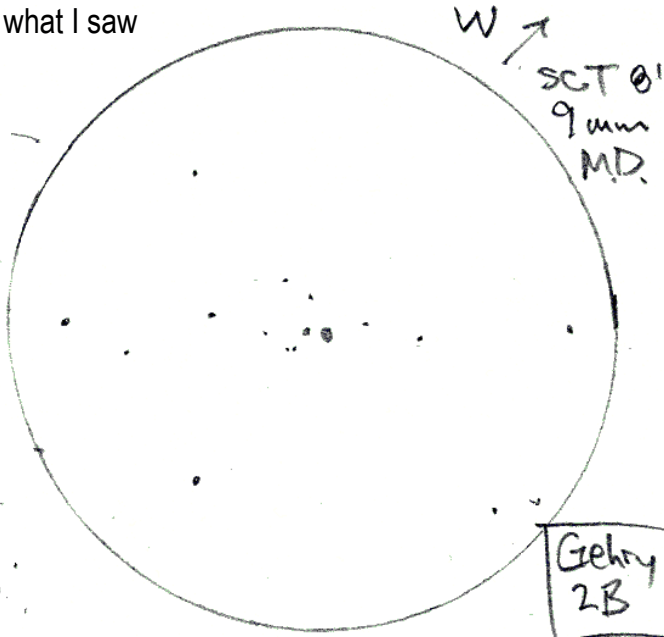
RASC Double Star Observing Log Book

Log Suggestions:

- ❖ When magnified, 85% of stars are double or multi-star systems. Many targets in this program have more than 2 elements. Some may be too faint or too close to resolve or split clearly.
- ❖ To complete the program, you need to observe ALL 110 "target" pairs. You do NOT need to observe any additional pairs within each target. Only the brightest or most obvious pair is required.
- ❖ PSA page refers to the page number in the *Pocket Sky Atlas*.
- ❖ Indicate the time zone or UT with your date/time entry
- ❖ Note magnifications. Use the <https://www.skyandtelescope.com/observing/skyandtelescope-coms-scope-calculator/> tool.
- ❖ Circle the appropriate label, "double" or "multiple."
- ❖ In the pair designations section:
 - Note the "primary" or "main" star in the first column. Typically, the brightest. Official double star designations typically use an uppercase A.
 - Use the second column for the "companion" or "partner" or "secondary" star. The Washington Double Star database uses "B."
 - If you're inclined to describe more stars, use the subsequent columns. E.g. "tertiary" or "third" or "C" star.
 - For orientation, use direction indicators if known, e.g. NW. Or use a clock face, e.g. 3 o'clock.
 - For distance, consider common descriptions used by double star aficionados: rod-shaped, figure-8, touching or kissing, split by a hair, a tiny gap apart, tight, close, fairly close, wide, very wide, super-wide.
 - For brightness, use very bright, bright, average, faint, very faint.
 - For colours, try to use well-known terms: blue, white, yellow, orange, red.
 - For colour strength or saturation, use very intense, intense, medium, pale, very pale.
- ❖ Remember to note the weather and sky conditions, including humidity and seeing.
- ❖ Target elevation, air thickness, or air mass affects the view, note the elevation, e.g. 45°. You can roughly guess. "Very low" or "nearly overhead."
- ❖ Describe what you see. Note patterns for stars, e.g. right-angle triangle. "Three stars in a hockey stick." If inclined, tell us your star hopping path.
- ❖ If you sketch, remember:
 - note the eyepiece or magnification.
 - note a couple of cardinal points, such as West and North or East and North.
 - use large filled discs for bright stars and small dots for dim stars.

See the sample completed log page for ideas and suggestions on how to fill in the log sheet.

Version 4.0a. Edited on 18 October 2020.

target	Psi	alternate IDs	36 Cas, SAO 11751, HIP 6692, BU 1101A											
constellation	Cas	combined mag.	3.5	RA (2000)	01h25m56.2s	Dec (2000)	+68°07'49"							
date	<i>7 Oct '11</i>	time	<i>11:40 PM</i>	time zone	<i>EDT</i>	PSA	99							
location	<i>Toronto - High Park</i>													
telescope equipment used	<i>C8, Vixen Super Polaris, star hopping</i>													
eyepieces, magnifications used	<i>aspheric 36mm (55x), Plössl 26mm (77x), Nagler 9mm (226x)</i>													
first impression of target	double	<u>multiple</u>	Moon phase											
general appearance of entire system	<i>neat double, lots of faint stars</i>													
pair designations	<i>main</i>	<i>C</i>	<i>C to D</i>											
orientation	<i>3 o'clock</i>	<i>south-east</i>	<i>south</i>											
distance	<i>-</i>	<i>wide</i>	<i>half AC split</i>											
brightness	<i>bright</i>	<i>faint</i>	<i>very faint</i>											
colour	<i>pale yellow</i>	<i>blue</i>	<i>white</i>											
sky conditions, particularly seeing	<i>warm, humid., poor seeing</i>			sky location, part. altitude	<i>NE, high, 60° elevation</i>									
other notes, remarks, comments	<i>Nice. C star easily separated at low mag. Main star is easy but companion, widely separated, was faint. Main is yellow. Companion waffles b/n deep blue and green!?</i>			what I saw 										
	<i>Can't be green! Anywho amazing colours. Would not tolerate mag higher than 77 on this night.</i>													
	<i>Haas says there's a B star... not obvious. Revisit?</i>													
	<i>Maybe not... SkyTools says B is mag 14.3!</i>													
	<i>Update: From the Washington Double Star database...</i>													
	<i>magnitudes: A 4.7, B 14!, C 9.2, D 10</i>													
	<i>aka HV 83</i>													
	<i>Herschel was the first, saw AC stars, in 1782!</i>													

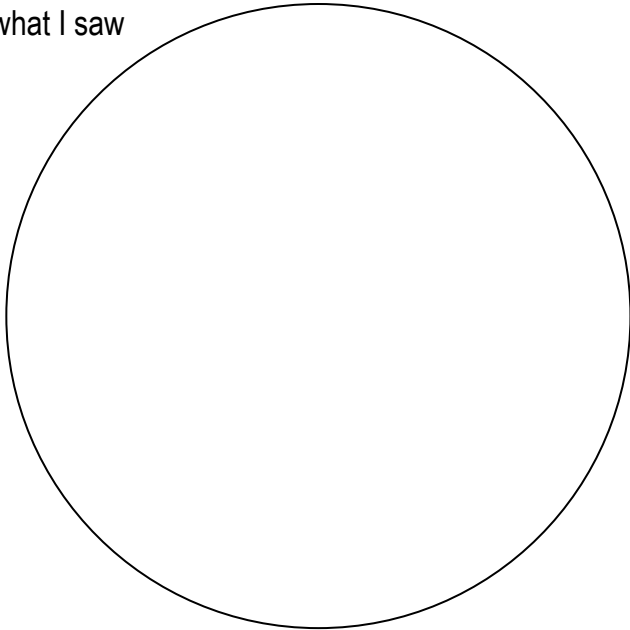
target	HD 21700	alternate IDs		BD+27 514, SAO 75964, HIP 16386, 03311+2744 STFA 7			
constellation	Tau	combined mag.	6.8	RA (2000)	03 31.1	Dec (2000)	+27 44
date		time		time zone		PSA page	15
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Phi Tau	alternate IDs	52 Tau, SAO 76558, HIP 20250, 04204+2721 SHJ 40				
constellation	Tau	combined mag.	5.0	RA (2000)	04 20.4	Dec (2000)	+27 21
date		time		time zone		PSA page	15
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	32 Eri	alternate IDs	HR 1212, SAO 130806, HIP 18255, 03543-0257 STF 470				
constellation	Eri	combined mag.	4.5	RA (2000)	03 54.3	Dec (2000)	-02 57
date		time		time zone		PSA page	17
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Keid	alternate IDs	Omicron 2 Eri, SAO 131063, HIP 19849, 04153-0739 STF 518				
constellation	Eri	combined mag.	4.4	RA (2000)	04 15.2	Dec (2000)	-07 40
date		time		time zone		PSA page	17
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

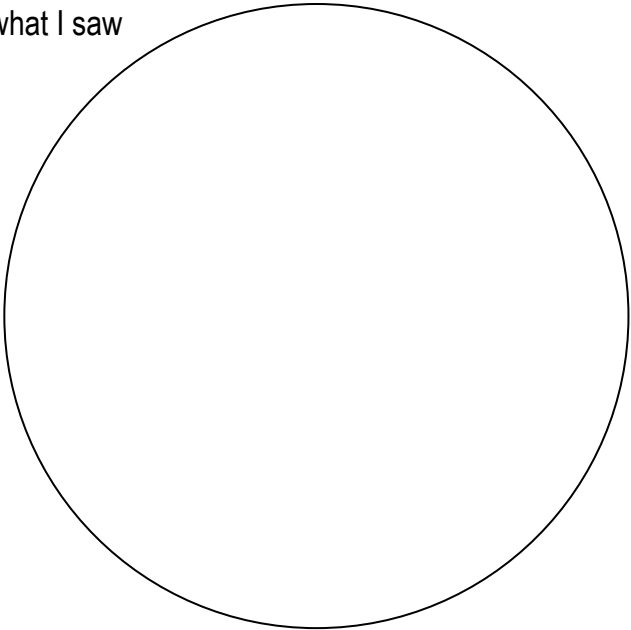
target	1 Cam	alternate IDs	DL Cam, SAO 24672, HIP 21148, 04320+5355 STF 550				
constellation	Cam	combined mag.	5.4	RA (2000)	04 32.0	Dec (2000)	+53 55
date		time		time zone		PSA page	12
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Beta Cam	alternate IDs	10 Cam, SAO 13351, HIP 23522, 05034+6027 S 459				
constellation	Cam	combined mag.	4.0	RA (2000)	05 03.4	Dec (2000)	+60 27
date		time		time zone		PSA page	11
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase	<div> <div>●</div> <div>●</div> <div>◐</div> <div>◑</div> <div>○</div> <div>○</div> <div>○</div> <div>○</div> <div>◐</div> <div>◑</div> <div>●</div> </div>			
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				<div>what I saw</div> 			

target	Rho Ori	alternate IDs	17 Ori, SAO 112528, HIP 24331, 05133+0252 STF 654				
constellation	Ori	combined mag.	4.6	RA (2000)	05 13.3	Dec (2000)	+02 52
date		time		time zone		PSA page	14
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Mintaka	alternate IDs	Delta Ori, 34 Ori, SAO 132220, HIP 25930, 05320-0018 BU 558				
constellation	Ori	combined mag.	2.4	RA (2000)	05 32.0	Dec (2000)	-00 18
date		time		time zone		PSA page	16
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 1887	alternate IDs	HD 36960, SAO 132301, HIP 26199, 05350-0600 STF 747				
constellation	Ori	combined mag.	4.3	RA (2000)	05 35.0	Dec (2000)	-06 00
date		time		time zone		PSA page	16
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

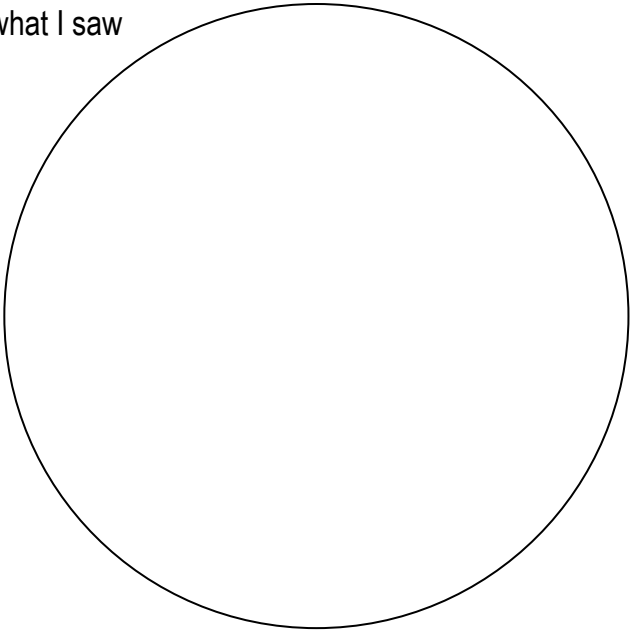
target	The Trapezium		alternate IDs					Theta 1 Ori, 41 Ori, SAO 132314, HIP 26220, 05353-0523 STF 748							
constellation	Ori		combined mag.		6.2		RA (2000)		05 35.3		Dec (2000)		-05 23		
date			time				time zone				PSA page		16		
location															
telescope equipment used															
eyepieces, magnifications used															
first impression of target			double		multiple		Moon phase		<div> <div>●</div> <div>●</div> <div>◐</div> <div>◑</div> <div>◒</div> <div>◓</div> <div>◔</div> <div>◕</div> <div>◖</div> <div>◗</div> <div>◘</div> <div>◙</div> </div>						
general appearance of entire system															
pair designations															
orientation															
distance	-														
brightness															
colour															
sky conditions, particularly seeing							sky location, part. altitude								
other notes, remarks, comments									<div>what I saw</div> 						

target	Beta Mon	alternate IDs	11 Mon, SAO 133316, HIP 30867, 06288-0702 STF 919				
constellation	Mon	combined mag.	4.0	RA (2000)	06 28.8	Dec (2000)	-07 02
date		time		time zone		PSA page	27
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 34071	alternate IDs	TYC 5902-1722-1, SAO 150258, 05138-1641 GAL 378				
constellation	Lep	combined mag.	7.5	RA (2000)	05 14.1	Dec (2000)	-16 40
date		time		time zone		PSA page	16
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Gamma Lep	alternate IDs	HD 38393, 13 Lep, SAO 170759, HIP 27072, 05445-2227 H 6 40				
constellation	Lep	combined mag.	3.5	RA (2000)	05 44.5	Dec (2000)	-22 27
date		time		time zone		PSA page	16
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 51502	alternate IDs	PPM 123322, SAO 96325, HIP 33529, 06581+1414 STTA 80				
constellation	Gem	combined mag.	6.6	RA (2000)	06 58.1	Dec (2000)	+14 14
date		time		time zone		PSA page	25
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Mekbuda	alternate IDs	Zeta Gem, 43 Gem, SAO 79031, HIP 34088, 07041+2034 SHJ 77				
constellation	Gem	combined mag.	4.1	RA (2000)	07 04.1	Dec (2000)	+20 34
date		time		time zone		PSA page	25
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase	<div> <div>●</div> <div>●</div> <div>◐</div> <div>◑</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◐</div> <div>◑</div> <div>●</div> </div>			
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				<div>what I saw</div> 			

target	HR 2764	alternate IDs	Winter Albireo, 145 CMa, SAO 173349, HIP 35210, 07166-2319 HJ 3945				
constellation	CMa	combined mag.	4.6	RA (2000)	07 16.6	Dec (2000)	-23 19
date		time		time zone		PSA page	27
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	19 Lyn	alternate IDs	HD 57103, HR 2784, SAO 26312, HIP 35785, 07229+5517 STF1062				
constellation	Lyn	combined mag.	5.4	RA (2000)	07 22.9	Dec (2000)	+55 17
date		time		time zone		PSA page	23
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

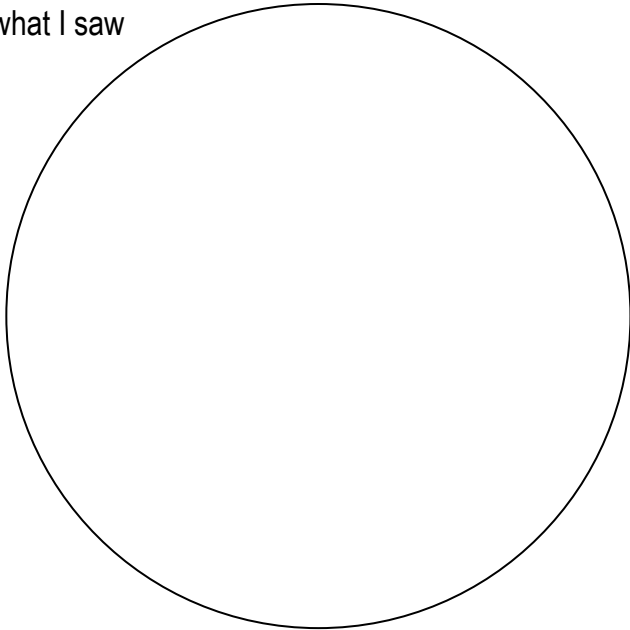
target	HD 75353	alternate IDs	TYC 2491-00983-3, SAO 61077, HIP 43426, 08508+3504 STF1282				
constellation	Lyn	combined mag.	6.9	RA (2000)	08 50.7	Dec (2000)	+35 04
date		time		time zone		PSA page	22
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Alpha Lyn	alternate IDs	40 Lyn, HD 80493, SAO 61414, HIP 45860, 09213+3426 STT 571				
constellation	Lyn	combined mag.	3.3	RA (2000)	09 21.0	Dec (2000)	+34 24
date		time		time zone		PSA page	33
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 2910	alternate IDs		N Pup, HD 60585, SAO 174020, HIP 36817, 07343-2328 H N 19			
constellation	Pup	combined mag.	5.1	RA (2000)	07 34.3	Dec (2000)	-23 28
date		time		time zone		PSA page	27
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	2 Pup	alternate IDs	HR 3010, SAO 153363, HIP 37843, 07455-1441 STF1138				
constellation	Pup	combined mag.	5.5	RA (2000)	07 45.5	Dec (2000)	-14 41
date		time		time zone		PSA page	26
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Tegmen	alternate IDs	Zeta 1 Cnc, 16 Cnc, SAO 97645, HIP 40167, 08122+1739 STF1196				
constellation	Cnc	combined mag.	4.5	RA (2000)	08 12.2	Dec (2000)	+17 39
date		time		time zone		PSA page	24
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 3395	alternate IDs	HD 72945, SAO 116929, HIP 42172, 08358+0637 STF1245				
constellation	Cnc	combined mag.	5.7	RA (2000)	08 35.8	Dec (2000)	+06 37
date		time		time zone		PSA page	24
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase	<div> <div>●</div> <div>●</div> <div>◐</div> <div>◑</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◐</div> <div>◑</div> <div>●</div> </div>			
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				<div>what I saw</div> 			

target	HD 75646	alternate IDs	TYC 1946-02159-1, SAO 80467, HIP 43535, 08520+2543 STTA 96				
constellation	Cnc	combined mag.	7.3	RA (2000)	08 52.0	Dec (2000)	+25 43
date		time		time zone		PSA page	24
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 73668	alternate IDs	TYC 0223-01420-1, SAO 117000, HIP 42488, 08397+0546 STF1255				
constellation	Hya	combined mag.	7.0	RA (2000)	08 39.7	Dec (2000)	+05 46
date		time		time zone		PSA page	24
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Tau 1 Hya	alternate IDs	31 Hya, SAO 136895, HIP 46509, 09291-0246 HJ 1167				
constellation	Hya	combined mag.	4.5	RA (2000)	09 29.2	Dec (2000)	-02 46
date		time		time zone		PSA page	37
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 3963	alternate IDs	HD 87344, SAO 155704, HIP 49321, 10040-1806 BU 1072				
constellation	Hya	combined mag.	5.8	RA (2000)	10 04.0	Dec (2000)	-18 06
date		time		time zone		PSA page	37
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 4363	alternate IDs	HD 97855, SAO 27970, HIP 55044, 11161+5246 STF1520				
constellation	UMa	combined mag.	6.2	RA (2000)	11 16.1	Dec (2000)	+52 46
date		time		time zone		PSA page	32
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 100054	alternate IDs	TYC 3831-00765-1, SAO 28043, HIP 56202, 11313+5942 STF1544				
constellation	UMa	combined mag.	6.8	RA (2000)	11 31.3	Dec (2000)	+59 42
date		time		time zone		PSA page	32
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	83 Leo	alternate IDs	HR 4414, SAO 118864, HIP 55846, 11268+0301 STF1540				
constellation	Leo	combined mag.	6.2	RA (2000)	11 26.7	Dec (2000)	+03 01
date		time		time zone		PSA page	34
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Tau Leo	alternate IDs	84 Leo, SAO 118875, HIP 55945, 11279+0251 STFA 19				
constellation	Leo	combined mag.	5.0	RA (2000)	11 27.9	Dec (2000)	+02 51
date		time		time zone		PSA page	34
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 105590	alternate IDs	TYC 5522-01685-1, SAO 157111, HIP 59272, 12095-1151 STF1604				
constellation	Crv	combined mag.	6.8	RA (2000)	12 09.5	Dec (2000)	-11 51
date		time		time zone		PSA page	47
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Algorab	alternate IDs	Delta Crv, 7 Crv, SAO 157323, HIP 60965, 12299-1631 SHJ 145				
constellation	Crv	combined mag.	3.0	RA (2000)	12 29.9	Dec (2000)	-16 31
date		time		time zone		PSA page	47
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

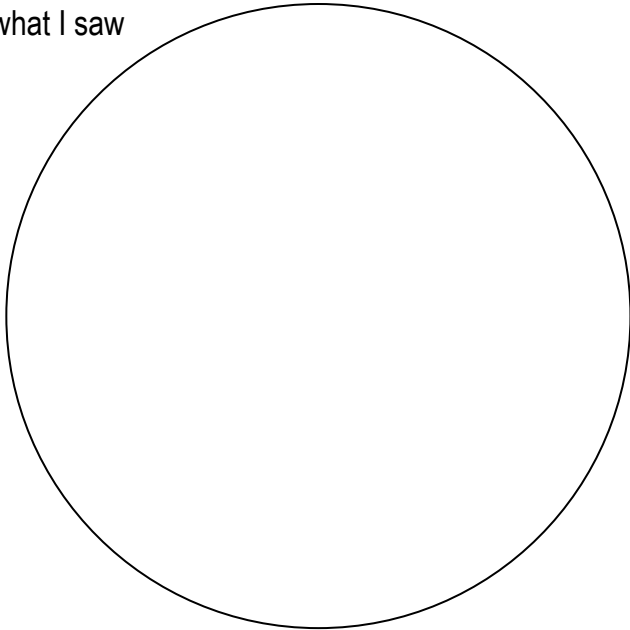
target	HD 109556	alternate IDs	TYC 5530-02065-1, SAO 157384, HIP 61466, 12357-1201 STF1659				
constellation	Crv	combined mag.	7.3	RA (2000)	12 35.7	Dec (2000)	-12 01
date		time		time zone		PSA page	47
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	2 CVn	alternate IDs	HR 4666, SAO 44097, HIP 59831, 12161+4040 STF1622				
constellation	CVn	combined mag.	5.8	RA (2000)	12 16.1	Dec (2000)	+40 40
date		time		time zone		PSA page	43
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Cor Caroli	alternate IDs	Alpha 2 CVn, 12 CVn, SAO 63257, HIP 63125, 12560+3819 STF1692				
constellation	CVn	combined mag.	2.8	RA (2000)	12 56.0	Dec (2000)	+38 19
date		time		time zone		PSA page	43
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 4698	alternate IDs	HD 107398, SAO 82254, HIP 60197, 12207+2703 STF1633				
constellation	Com	combined mag.	6.3	RA (2000)	12 20.7	Dec (2000)	+27 03
date		time		time zone		PSA page	45
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

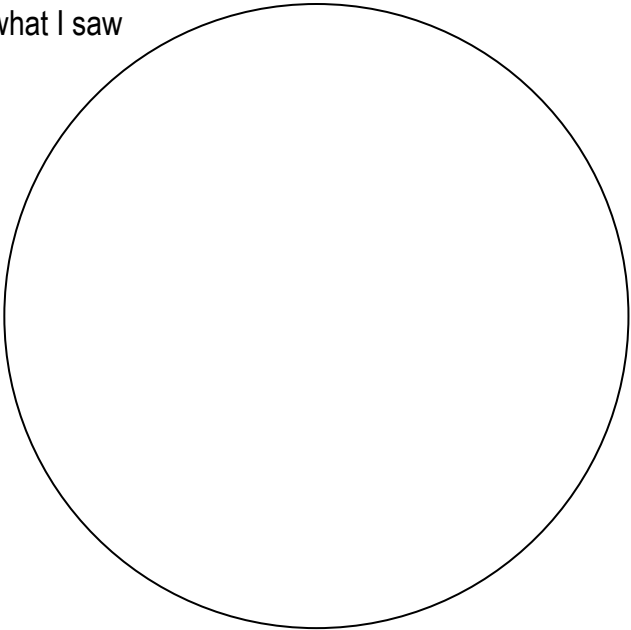
target	12 Com	alternate IDs	HR 4707, SAO 82273, HIP 60351, 12225+2551 SHJ 143				
constellation	Com	combined mag.	4.9	RA (2000)	12 22.5	Dec (2000)	+25 51
date		time		time zone		PSA page	45
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	24 Com	alternate IDs	HR 4792, SAO 100160, HIP 61418, 12351+1823 STF1657				
constellation	Com	combined mag.	4.8	RA (2000)	12 35.1	Dec (2000)	+18 23
date		time		time zone		PSA page	45
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase	<div> <div>●</div> <div>●</div> <div>◐</div> <div>◑</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◐</div> <div>◑</div> <div>●</div> </div>			
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				<div>what I saw</div> 			

target	HD 110932	alternate IDs	TYC 0881-00563-1, SAO 100236, HIP 62248, 12454+1422 STF1678				
constellation	Com	combined mag.	6.7	RA (2000)	12 45.4	Dec (2000)	+14 22
date		time		time zone		PSA page	45
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

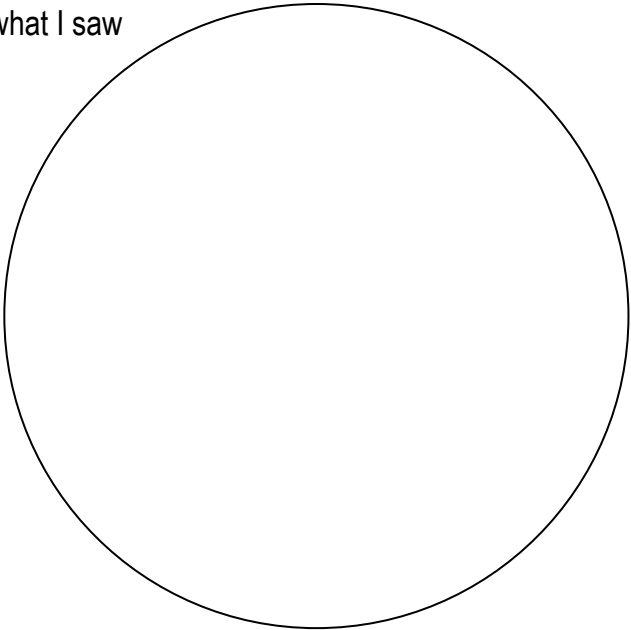
target	32 Com	alternate IDs	HR 4884, SAO 100309, HIP 62807, 12522+1704 STFA 23				
constellation	Com	combined mag.	6.0	RA (2000)	12 52.2	Dec (2000)	+17 04
date		time		time zone		PSA page	45
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 112278	alternate IDs	TYC 0885-01206-1, SAO 100337, HIP 63081, 12555+1130 STF1689				
constellation	Vir	combined mag.	6.9	RA (2000)	12 55.5	Dec (2000)	+11 30
date		time		time zone		PSA page	45
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Asellus Tertius		alternate IDs					Kappa 2 Boo, 17 Boo, SAO 29046, HIP 69483, 14135+5147 STF1821							
constellation	Boo		combined mag.		4.4		RA (2000)		14 13.5		Dec (2000)		+51 47		
date			time				time zone				PSA page		42		
location															
telescope equipment used															
eyepieces, magnifications used															
first impression of target			double		multiple		Moon phase		<div> <div>●</div> <div>●</div> <div>◐</div> <div>◑</div> <div>○</div> <div>○</div> <div>○</div> <div>○</div> <div>◐</div> <div>◑</div> <div>●</div> </div>						
general appearance of entire system															
pair designations															
orientation															
distance	-														
brightness															
colour															
sky conditions, particularly seeing							sky location, part. altitude								
other notes, remarks, comments									<div>what I saw</div> 						

target	Iota Boo	alternate IDs	21 Boo, SAO 29071, HIP 69713, 14162+5122 STFA 26				
constellation	Boo	combined mag.	4.7	RA (2000)	14 16.2	Dec (2000)	+51 22
date		time		time zone		PSA page	42
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Delta Boo	alternate IDs	49 Boo, SAO 64589, HIP 74666, 15155+3319 STFA 27				
constellation	Boo	combined mag.	3.6	RA (2000)	15 15.5	Dec (2000)	+33 19
date		time		time zone		PSA page	53
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Alkalurops	alternate IDs	Mu 1 Boo, 51 Boo, SAO 64686, HIP 75411, 15245+3723 STFA 28				
constellation	Boo	combined mag.	4.2	RA (2000)	15 24.5	Dec (2000)	+37 23
date		time		time zone		PSA page	53
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase	<div> <div>●</div> <div>●</div> <div>◐</div> <div>◑</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◐</div> <div>◑</div> <div>●</div> </div>			
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				<div>what I saw</div> 			

target	HR 5397	alternate IDs	HD 126367, SAO 158558, HIP 70518, 14255-1958 SHJ 179				
constellation	Lib	combined mag.	6.1	RA (2000)	14 25.5	Dec (2000)	-19 58
date		time		time zone		PSA page	46
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Zuben Elgenubi	alternate IDs	Alpha 2 Lib, 9 Lib, SAO 158840, HIP 72622, 14509-1603 SHJ 186				
constellation	Lib	combined mag.	2.6	RA (2000)	14 50.9	Dec (2000)	-16 03
date		time		time zone		PSA page	46
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 5816	alternate IDs	HD 139461, SAO 140672, HIP 76603, 15387-0847 STF1962				
constellation	Lib	combined mag.	5.7	RA (2000)	15 38.7	Dec (2000)	-08 47
date		time		time zone		PSA page	57
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 139691	alternate IDs	TYC 2577-01756-1, SAO 64821, HIP 76563, 15382+3615 HU 1167				
constellation	CrB	combined mag.	7.3	RA (2000)	15 38.2	Dec (2000)	+36 15
date		time		time zone		PSA page	53
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Sigma CrB	alternate IDs	17 CrB, TZ Crb, SAO 65165, HIP 79607, 16147+3352 STF2032				
constellation	CrB	combined mag.	5.2	RA (2000)	16 14.7	Dec (2000)	+33 51
date		time		time zone		PSA page	53
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 6043	alternate IDs	HD 145802, SAO 65129, HIP 79350, 16117+3321 STT 305				
constellation	CrB	combined mag.	6.4	RA (2000)	16 11.7	Dec (2000)	+33 21
date		time		time zone		PSA page	53
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

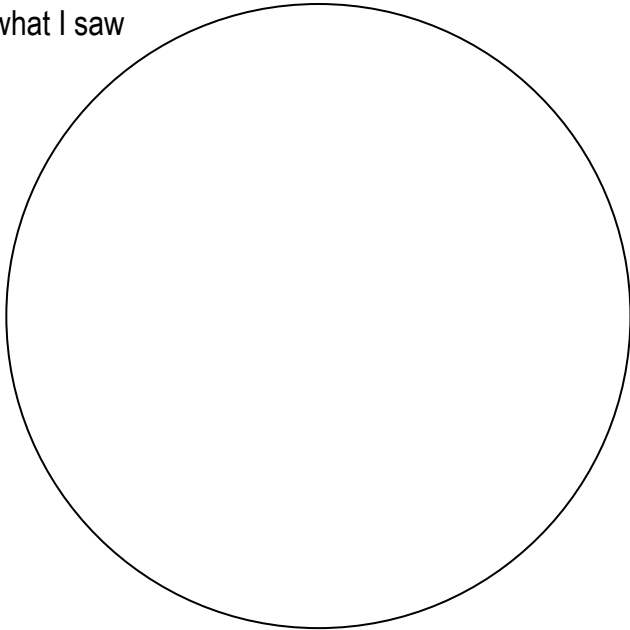
target	Theta 1 Ser	alternate IDs	Alya, 63 Ser, SAO 124068, HIP 92946, 18562+0412 STF2417				
constellation	Ser (Cau)	combined mag.	4.0	RA (2000)	18 56.2	Dec (2000)	+04 12
date		time		time zone		PSA page	65
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 144564	alternate IDs	TYC 0957-00526-1, SAO 101922, HIP 78875, 16060+1319 STF2007				
constellation	Ser (Cap)	combined mag.	6.6	RA (2000)	16 06.0	Dec (2000)	+13 19
date		time		time zone		PSA page	55
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Xi Sco	alternate IDs	Grafias, HR 5978, SAO 159665, HIP 78727, 16044-1122 STF1998				
constellation	Sco	combined mag.	5.1	RA (2000)	16 04.4	Dec (2000)	-11 22
date		time		time zone		PSA page	56
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Rasalgethi	alternate IDs	Alpha 1 Her, 64 Her, SAO 102680, HIP 84345, 17146+1423 STF2140				
constellation	Her	combined mag.	3.3	RA (2000)	17 14.6	Dec (2000)	+14 23
date		time		time zone		PSA page	54
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	100 Her	alternate IDs	HR 6781, SAO 85753, HIP 88818, 18078+2606 STF2280				
constellation	Her	combined mag.	5.0	RA (2000)	18 07.8	Dec (2000)	+26 06
date		time		time zone		PSA page	65
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

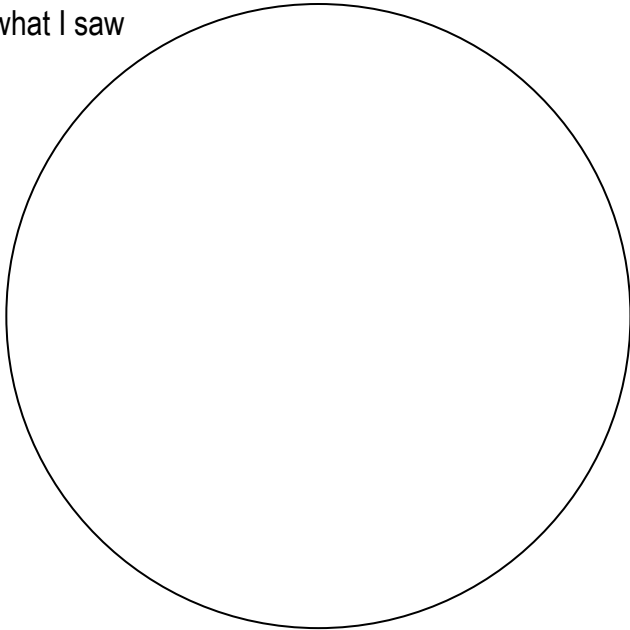
target	17 Dra	alternate IDs	HR 6185, SAO 30013, HIP 81292, 16362+5255 STF2078				
constellation	Dra	combined mag.	5.0	RA (2000)	16 36.2	Dec (2000)	+52 55
date		time		time zone		PSA page	52
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase	<div> <div>●</div> <div>●</div> <div>◐</div> <div>◑</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◐</div> <div>◑</div> <div>●</div> </div>			
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				<div>what I saw</div> 			

target	Kuma	alternate IDs	Nu 2 Dra, 25 Dra, SAO 30450, HIP 85829, 17322+5511 STFA 35				
constellation	Dra	combined mag.	4.1	RA (2000)	17 32.3	Dec (2000)	+55 10
date		time		time zone		PSA page	52
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Dsiban	alternate IDs	Psi 1 Dra, 31 Dra, SAO 8890, HIP 86614, 17419+7209 STF2241				
constellation	Dra	combined mag.	4.2	RA (2000)	17 41.9	Dec (2000)	+72 09
date		time		time zone		PSA page	51
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	41 Dra	alternate IDs	HR 6810, SAO 8996, HIP 88136, 18002+8000 STF2308				
constellation	Dra	combined mag.	5.1	RA (2000)	18 00.2	Dec (2000)	+80 00
date		time		time zone		PSA page	61
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 7083	alternate IDs	HD 174208, SAO 142661, HIP 92391, 18497-0555 H 6 50				
constellation	Sct	combined mag.	6.0	RA (2000)	18 49.7	Dec (2000)	-05 55
date		time		time zone		PSA page	67
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Epsilon 1 Lyr		alternate IDs					Double Double, 4 Lyr, SAO 67310, HIP 91919, 18443+3940 STF2382							
constellation	Lyr		combined mag.		3.9		RA (2000)		18 44.3		Dec (2000)		+39 40		
date			time				time zone				PSA page		63		
location															
telescope equipment used															
eyepieces, magnifications used															
first impression of target			double		multiple		Moon phase		<div> <div>●</div> <div>●</div> <div>◐</div> <div>◑</div> <div>○</div> <div>○</div> <div>○</div> <div>○</div> <div>◐</div> <div>◑</div> <div>●</div> </div>						
general appearance of entire system															
pair designations															
orientation															
distance	-														
brightness															
colour															
sky conditions, particularly seeing							sky location, part. altitude								
other notes, remarks, comments									<div>what I saw</div> 						

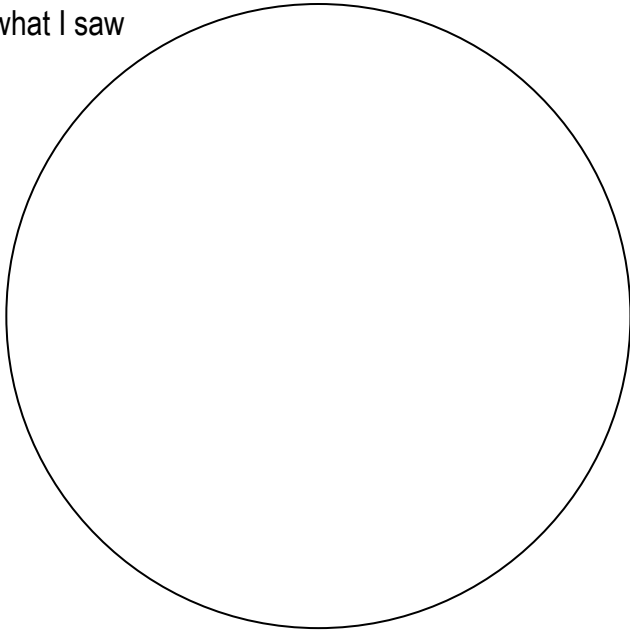
target	Sheliak	alternate IDs	Beta Lyr, 10 Lyr, SAO 67451, HIP 92420, 18501+3322 STFA 39				
constellation	Lyr	combined mag.	3.5	RA (2000)	18 50.1	Dec (2000)	+33 22
date		time		time zone		PSA page	63
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

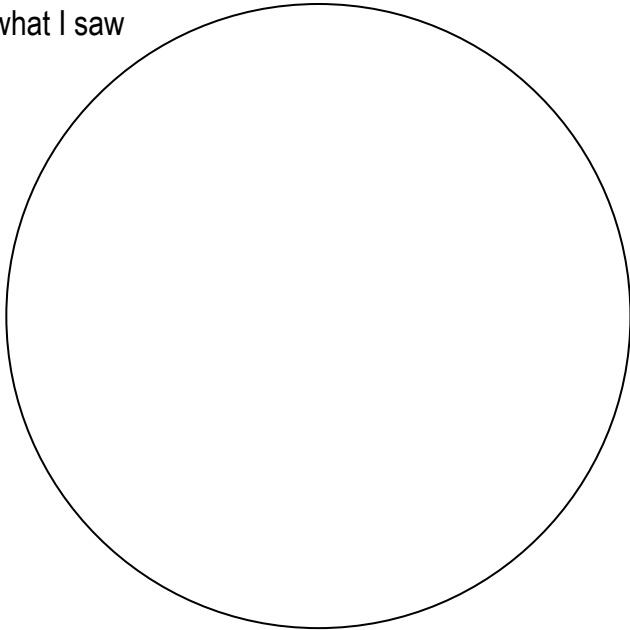
target	HR 7140	alternate IDs	HD 175635, SAO 67566, HIP 92833, 18549+3358 STT 525				
constellation	Lyr	combined mag.	5.9	RA (2000)	18 54.9	Dec (2000)	+33 58
date		time		time zone		PSA page	63
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 7099	alternate IDs	HD 174569, SAO 104170, HIP 92475, 18508+1059 STF2404				
constellation	Aql	combined mag.	6.5	RA (2000)	18 50.8	Dec (2000)	+10 59
date		time		time zone		PSA page	65
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	15 Aql	alternate IDs	h Aql, HR 7225, SAO 142996, HIP 93717, 19050-0402 SHJ 286				
constellation	Aql	combined mag.	5.3	RA (2000)	19 05.0	Dec (2000)	-04 02
date		time		time zone		PSA page	67
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	57 Aql	alternate IDs	HR 7593, SAO 143898, HIP 97966, 19546-0814 STF2594				
constellation	Aql	combined mag.	5.2	RA (2000)	19 54.6	Dec (2000)	-08 14
date		time		time zone		PSA page	66
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 7294	alternate IDs	HD 179958, SAO 48193, HIP 94336, 19121+4951 STF2486				
constellation	Cyg	combined mag.	5.8	RA (2000)	19 12.1	Dec (2000)	+49 52
date		time		time zone		PSA page	63
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase	<div> <div>●</div> <div>●</div> <div>◐</div> <div>◑</div> <div>○</div> <div>○</div> <div>○</div> <div>○</div> <div>◐</div> <div>◑</div> <div>●</div> </div>			
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				<div>what I saw</div> 			

target	HR 7529	alternate IDs	HD 186901, SAO 68805, HIP 97228, 19457+3605 STF2578				
constellation	Cyg	combined mag.	5.9	RA (2000)	19 45.7	Dec (2000)	+36 05
date		time		time zone		PSA page	62
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase	<div> <div>●</div> <div>●</div> <div>◐</div> <div>◑</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◐</div> <div>◑</div> <div>●</div> </div>			
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	U Cyg	alternate IDs	HD 193700, SAO 49479, HIP 100230, 20196+4754 BLL 49				
constellation	Cyg	combined mag.	7.6	RA (2000)	20 19.7	Dec (2000)	+47 54
date		time		time zone		PSA page	62
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	61 Cyg	alternate IDs	V1803 Cyg, SAO 70919, HIP 104214, 21069+3845 STF2758				
constellation	Cyg	combined mag.	4.8	RA (2000)	21 07.0	Dec (2000)	+38 46
date		time		time zone		PSA page	73
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 200392	alternate IDs	TYC 1660-00673-1, SAO 89397, HIP 103852, 21026+2141 BU 69				
constellation	Vul	combined mag.	7.4	RA (2000)	21 02.6	Dec (2000)	+21 41
date		time		time zone		PSA page	75
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 8101	alternate IDs	HD 201671, SAO 89505, HIP 104539, 21105+2227 STF2769				
constellation	Vul	combined mag.	6.2	RA (2000)	21 10.5	Dec (2000)	+22 27
date		time		time zone		PSA page	75
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 183014	alternate IDs		TYC 1612-00787-1, SAO 87218, HIP 95612, 19268+2110 STF2523			
constellation	Vul	combined mag.	7.3	RA (2000)	19 26.8	Dec (2000)	+21 10
date		time		time zone		PSA page	64
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	V340 Sge	alternate IDs	HR 7475, SAO 105104, HIP 96688, 19394+1634 H N 84				
constellation	Sge	combined mag.	6.3	RA (2000)	19 39.4	Dec (2000)	+16 34
date		time		time zone		PSA page	64
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Theta Sge	alternate IDs	17 Sge, SAO 88276, HIP 99352, 20099+2055 STF2637				
constellation	Sge	combined mag.	6.2	RA (2000)	20 09.9	Dec (2000)	+20 55
date		time		time zone		PSA page	64
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 8281	alternate IDs	HD 206267, SAO 33626, HIP 106886, 21390+5729 BU 1143				
constellation	Cep	combined mag.	5.5	RA (2000)	21 39.0	Dec (2000)	+57 29
date		time		time zone		PSA page	73
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HR 8357	alternate IDs	HD 208095, SAO 33819, HIP 107930, 21520+5548 STF2840				
constellation	Cep	combined mag.	5.2	RA (2000)	21 52.0	Dec (2000)	+55 48
date		time		time zone		PSA page	73
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Alkurhah	alternate IDs	Xi Cep, 17 Cep, SAO 19827, HIP 108917, 22038+6438 STF2863				
constellation	Cep	combined mag.	4.3	RA (2000)	22 03.8	Dec (2000)	+64 38
date		time		time zone		PSA page	71
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Delta Cep	alternate IDs	27 Cep, SAO 34508, HIP 110991, 22292+5825 STFA 58				
constellation	Cep	combined mag.	4.0	RA (2000)	22 29.2	Dec (2000)	+58 25
date		time		time zone		PSA page	72
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Kappa Cep	alternate IDs	1 Cep, SAO 9665, HIP 99255, 20089+7743 STF2675				
constellation	Cep	combined mag.	4.4	RA (2000)	20 08.9	Dec (2000)	+77 43
date		time		time zone		PSA page	61
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Alpha 1 Cap	alternate IDs	AI Giedi, 5 Cap, SAO 163422, HIP 100027, 20176-1230 BU 295				
constellation	Cap	combined mag.	4.2	RA (2000)	20 17.6	Dec (2000)	-12 31
date		time		time zone		PSA page	66
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Dabih	alternate IDs	Beta Cap, 9 Cap, SAO 163481, HIP 100345, 20210-1447 STFA 52				
constellation	Cap	combined mag.	3.0	RA (2000)	20 21.0	Dec (2000)	-14 47
date		time		time zone		PSA page	66
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Omicron Cap	alternate IDs	12 Cap, SAO 163626, HIP 101123, 20299-1835 SHJ 324				
constellation	Cap	combined mag.	5.5	RA (2000)	20 29.9	Dec (2000)	-18 35
date		time		time zone		PSA page	66
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 196411	alternate IDs	TYC 1100-01112-1, SAO 106302, HIP 101700, 20368+1444 STF2703				
constellation	Del	combined mag.	7.6	RA (2000)	20 36.8	Dec (2000)	+14 44
date		time		time zone		PSA page	64
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Gamma 2 Del	alternate IDs	12 Del, SAO 106476, HIP 102532, 20467+1607 STF2727				
constellation	Del	combined mag.	3.9	RA (2000)	20 46.7	Dec (2000)	+16 07
date		time		time zone		PSA page	64
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	3 Peg	alternate IDs	HR 8265, SAO 126940, HIP 106783, 21377+0637 STFA 56				
constellation	Peg	combined mag.	5.9	RA (2000)	21 37.7	Dec (2000)	+06 37
date		time		time zone		PSA page	75
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Epsilon Equ	alternate IDs	1 Equ, SAO 126428, HIP 103569, 20591+0418 STF2737				
constellation	Equ	combined mag.	5.1	RA (2000)	20 59.1	Dec (2000)	+04 18
date		time		time zone		PSA page	75
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	8 Lac	alternate IDs	HR 8603, SAO 72509, HIP 111546, 22359+3938 STF2922				
constellation	Lac	combined mag.	5.2	RA (2000)	22 35.9	Dec (2000)	+39 38
date		time		time zone		PSA page	72
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	10 Lac	alternate IDs	HR 8622, SAO 72575, HIP 111841, 22393+3903 S 813				
constellation	Lac	combined mag.	4.8	RA (2000)	22 39.3	Dec (2000)	+39 03
date		time		time zone		PSA page	72
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	WZ Cas	alternate IDs	HD 224855, SAO 21002, HIP 99, 00013+6021 STTA254				
constellation	Cas	combined mag.	7.0	RA (2000)	00 01.3	Dec (2000)	+60 21
date		time		time zone		PSA page	1
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

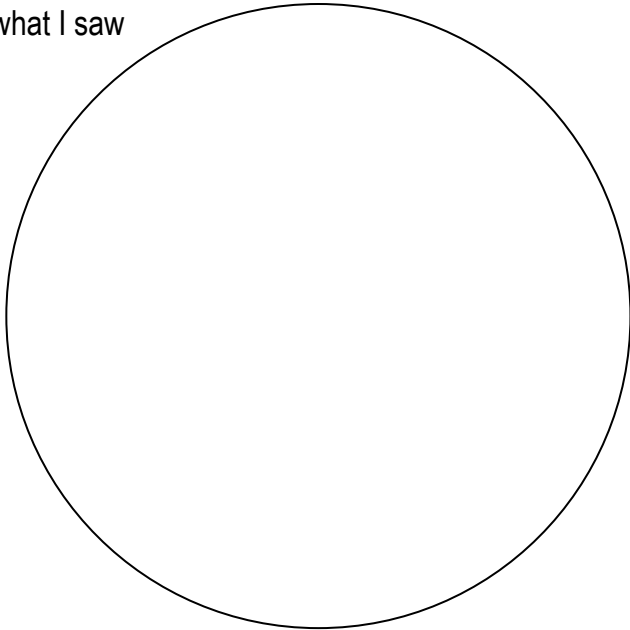
target	HR 9094	alternate IDs	HD 225009, SAO 10937, HIP 207, 00026+6606 STF3053				
constellation	Cas	combined mag.	5.7	RA (2000)	00 02.6	Dec (2000)	+66 06
date		time		time zone		PSA page	1
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part.	altitude		
other notes, remarks, comments				what I saw 			

target	Achird	alternate IDs	Eta Cas, 24 Cas, SAO 21732, HIP 3821, 00491+5749 STF 60				
constellation	Cas	combined mag.	3.5	RA (2000)	00 49.1	Dec (2000)	+57 49
date		time		time zone		PSA page	3
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Pi And	alternate IDs	29 And, SAO 54033, HIP 2912, 00369+3343 H 5 17				
constellation	And	combined mag.	4.3	RA (2000)	00 36.9	Dec (2000)	+33 43
date		time		time zone		PSA page	3
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	56 And	alternate IDs	HR 557, SAO 55107, HIP 9021, 01562+3715 STFA 4				
constellation	And	combined mag.	5.2	RA (2000)	01 56.2	Dec (2000)	+37 15
date		time		time zone		PSA page	2
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Almaak	alternate IDs	Gamma 1 And, 57 And, SAO 37734, HIP 9640, 02039+4220 STF 205				
constellation	And	combined mag.	2.2	RA (2000)	02 03.9	Dec (2000)	+42 20
date		time		time zone		PSA page	2
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	59 And	alternate IDs	HR 628, SAO 55330, HIP 10176, 02109+3902 STF 222				
constellation	And	combined mag.	5.6	RA (2000)	02 10.9	Dec (2000)	+39 02
date		time		time zone		PSA page	2
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase	<div> <div>●</div> <div>●</div> <div>◐</div> <div>◑</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◯</div> <div>◐</div> <div>◑</div> <div>●</div> </div>			
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part.	altitude		
other notes, remarks, comments				what I saw			

target	77 Psc	alternate IDs	HR 313, SAO 109666, HIP 5141, 01058+0455 STF 90				
constellation	Psc	combined mag.	6.0	RA (2000)	01 05.8	Dec (2000)	+04 54
date		time		time zone		PSA page	5
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Zeta Psc	alternate IDs	86 Psc, SAO 109739, HIP 5737, 01137+0735 STF 100				
constellation	Psc	combined mag.	4.9	RA (2000)	01 13.7	Dec (2000)	+07 35
date		time		time zone		PSA page	5
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 3125	alternate IDs	D 2, SAO 128831, HIP 2713, 00345-0433 STF 39				
constellation	Cet	combined mag.	6.9	RA (2000)	00 34.5	Dec (2000)	-04 33
date		time		time zone		PSA page	7
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 9336	alternate IDs	BD-19 262, SAO 147861, HIP 7108, 01316-1901 HJ 2052				
constellation	Cet	combined mag.	6.4	RA (2000)	01 31.6	Dec (2000)	-19 01
date		time		time zone		PSA page	6
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Nu Cet	alternate IDs	78 Cet, SAO 110635, HIP 12093, 02359+0536 STF 281				
constellation	Cet	combined mag.	5.0	RA (2000)	02 35.9	Dec (2000)	+05 36
date		time		time zone		PSA page	4
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			


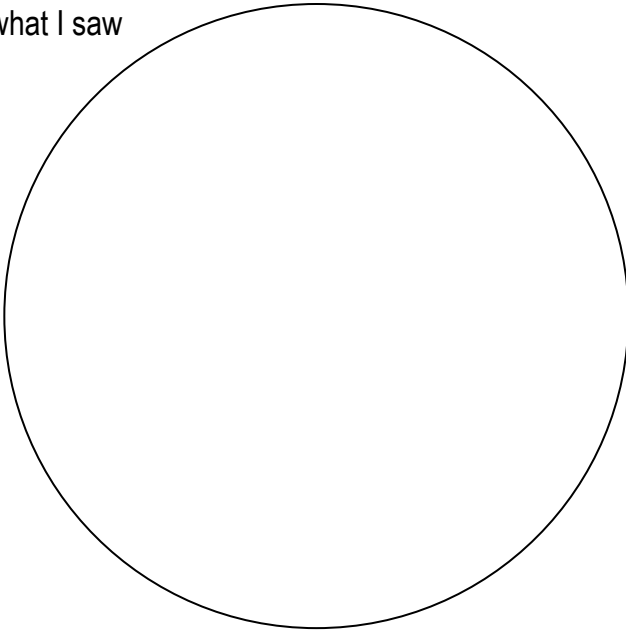
target	66 Cet	alternate IDs	HR 650, SAO 129752, HIP 10305, 02128-0224 STF 231				
constellation	Cet	combined mag.	5.5	RA (2000)	02 12.8	Dec (2000)	-02 24
date		time		time zone		PSA page	6
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Mesarthim	alternate IDs	Gamma 2 Ari, 5 Ari, SAO 92681, HIP 8832, 01535+1918 STF 180				
constellation	Ari	combined mag.	3.8	RA (2000)	01 53.5	Dec (2000)	+19 18
date		time		time zone		PSA page	4
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	HD 13247	alternate IDs	BD+32 390, SAO 55321, HIP 10130, 02103+3322 STF 219				
constellation	Tri	combined mag.	7.6	RA (2000)	02 10.3	Dec (2000)	+33 22
date		time		time zone		PSA page	2
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	15 Tri	alternate IDs	HR 750, SAO 55687, HIP 12086, 02358+3441 AG 304				
constellation	Tri	combined mag.	5.3	RA (2000)	02 35.8	Dec (2000)	+34 41
date		time		time zone		PSA page	2
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Polaris	alternate IDs	Alpha UMi, 1 UMi, SAO 308, HIP 11767, 02318+8916 STF 93				
constellation	UMi	combined mag.	2.0	RA (2000)	02 31.9	Dec (2000)	+89 16
date		time		time zone		PSA page	1
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Zeta Per	alternate IDs	Atik, 44 Per, SAO 56799, HIP 18246, 03541+3153 STF 464				
constellation	Per	combined mag.	2.9	RA (2000)	03 54.1	Dec (2000)	+31 53
date		time		time zone		PSA page	13
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			

target	Miram	alternate IDs	Eta Per, 15 Per, SAO 23655, HIP 13268, 02507+5554 STF 307				
constellation	Per	combined mag.	3.8	RA (2000)	02 50.7	Dec (2000)	+55 54
date		time		time zone		PSA page	2
location							
telescope equipment used							
eyepieces, magnifications used							
first impression of target	double	multiple	Moon phase				
general appearance of entire system							
pair designations							
orientation							
distance	-						
brightness							
colour							
sky conditions, particularly seeing				sky location, part. altitude			
other notes, remarks, comments				what I saw 			