



TW. 1930 - 1947



OBSERVERS: HA: R. G. HALL, JR.

ST: K. A. STRAND

BR: W. BRAUN

GA: C. E. GASTEYER.

DH: D. HARRIS

CH: Y. C. CHANG

Du: Douglas Duke

Hd: R. Hardie



No.	Star	R.A. Dec.	1947 Date (U.T.)	Middle of Exposure (U.T.)	Exp in Min.	Hour Angle		
12830 MR	β 648	18°55'	Jun. 27	5-56	2 2 2	39 E	g	1.2
1 MR	β 648	18-55	"	6-06	2 2 2	28 E	f	1.0
2 PM	30+1°3942	19-12	"	6-32	4 4 4	17 E	ng	0.0
3 PM	Ross 752	20-06	"	7-00	4 4 4	42 E	g	1.2
4	Fu 53	20-42	"	7-49	6 6 6	31 E	p	0.7
5	Fu 54 and Lal 40728	20-57	"	8-13	3 3 3	22 E	g	1.2
6	GrPh +82°3818	21-38	"	8-52	20 20	20 E	ng	0.0
7	30+25°2874	15 03	June 28	2-53	9 9 9	14 W	g	1.2
8	Ross 806	15 51	"	3-36	5 5 5	13 W	g	1.2
PM 9	Ross 998	16 22	"	4-25	12 12	31 W	ng	0.0

Sector	P.A.	Definition	Steadiness	Trans- parency	Temp Focus	Obs.	Plate Holder	Config	Remarks
5.0	0°	2-	1	3	+22° 103.2	Ha	II-2	:	792
5.0	0°	2-	1	3	"	Ha	II-2	:	792 elongated
1.5	0°	2-	1	2	"	Ha	III-2	:	793 Too faint Windy!
0	0°	2	2	2	"	Ha	III-2	:	793
2.0	0°	2	2	2	"	Ha	IV-1	:	794 Too faint
4.0	0°	2-2	1	2	"	Ha	IV-1	:	794
0	180°	2	2	2	"	Ha	IV-2	:	795 Too faint Cloudy! Lightning in North.
2.5	0°	2-	2-	2-	27 104	ST	IV-1	:	794
0	0°	2-	2-	2-	"	"	IV-1	:	794
0	0°	2-	2-	2-	"	ST	IV-2	:	795 Too faint



No.	Star	R.A. Dec	Date (U.T.)	Middle of Exposure (U.T.)	Exp in Min	Hour Angle		
1284	01R 26 DRAC	17:34	June 28	5-14	$\begin{smallmatrix} 3,3 \\ 3,3 \end{smallmatrix}$	7W	g 1.4	✓
PM 1	✓ Wolf 816	18:05	"	5-52	12-12	13W	p 0.5	
PM 2	✓ Ross 727	19-06	"	6-50	$\begin{smallmatrix} 13 \\ 13 \end{smallmatrix}$	12W	g 1.0	
PM 3	✓ L926-16	20-19	"	7-32	$\begin{smallmatrix} 5 \\ 5 \\ 5 \end{smallmatrix}$	24E	g 1.2	
4	✓ Nechville 353-4	20-09	"	7-50	$\begin{smallmatrix} 6 \\ 6 \end{smallmatrix}$	10W	p 0.5	✓
5	✓ Nechville 353-4	20-09	"	8-00	5	18W	p 0.3	✓
6	✓ Fu54 and Lol 40728	20-57	"	8-21	$\begin{smallmatrix} 4 \\ 4 \\ 4 \end{smallmatrix}$	8E	p 0.7	✓
7	✓ SS Cygni	21-41	"	8-56	$\begin{smallmatrix} 7 \\ 7 \\ 7 \end{smallmatrix}$	18E	g 1.2	
8	✓ BD+20° 5071	22-02	"	9-20	$\begin{smallmatrix} 4 \\ 4 \\ 4 \end{smallmatrix}$	14E	ng 0.0	✓
MR 9	✓ 26 DRAC	17-34	June 30	4 43	$\begin{smallmatrix} 3,3 \\ 3,3 \end{smallmatrix}$	16E	ng 0.0	✓

Sector	P.A.	Definition	Steadiness	Trans- parency	Temp Focus	Obs.	Plate Holder	Config	Remarks
5.0	0°	2-	2-	2-	$\begin{smallmatrix} 23 \\ 1035 \end{smallmatrix}$	ST	10-2	::	796
0	0°	2-	2-	2-	"	ST	III-2	:	797
0	0°	2-	2	2	"	Ha	III-2	..	797
0	0°	2-	2	2	"	Ha	II-1	::	798
1.0	0°	2	2	2	"	Ha	II-2	..	799
0.5	0°	2	2	2	"	Ha	II-2	.	799 Struck Pier. Rev Plate.
4.0	0°	2-2	2	2	"	Ha	II-1	::	798
0	0°	2	2	2	"	Ha	IV-1	::	800
2.5	0°	2	2	1-0	"	Ha	IV-1	:	800 clouds!!
5.0	0°	2-	2-	2-	$\begin{smallmatrix} 23 \\ 103.2 \end{smallmatrix}$	ST	II-1	..	801



No.	Star	R.A. Dec.	1947 Date (U.T.)	Middle of Exposure (U.T.)	Exp. in Min.	Hour Angle		
1285 <sup>MR</sup> ✓	26 DRAC	17-34	JUNE 30	5-03	3,3 3,3	4W	ng	0.0
PM 1 ✓	WOLF 834	18-11	"	5-57	20 20	17W	f	0.7
PM 2 ✓	WOLF 863	19-58	"	6-57	18 18	27E	g	1.0
PM 3 ✓	Ross 756	20-15	"	7-45	12 12	6W	g	1.0
4 ✓	BD+12°4499	20-52	"	8-20	5 5 5	4W	g	1.2
5 ✓	S S Cygni	21-41	"	8-58	7 7 7	8E	g	1.2
6 ✓	BD+20°5071	21-59	"	9-33	3,3 3,3	8W	g	1.4
PM 7 ✓	ε 687	18-46.1	JULY 3	6-10	13 13	11W	ng	0.0
PM 8 ✓	Luyten-Ebb. 21	20-06	"	7-15	16 16	4E	ng	0.0
9 ✓	Grwph +82°3818	21-38	"	8-37	18 18	12E	ng	0.0

June	MR. 11							
	PM 14							
	π 21	M 15	E 6					
				Total 46				
					MR 142	π M 122		
					PM 92	π E 137		

Sector	P.A.	Definition	Steadiness	Transparency	Temp. Focus	Obs.	Plate Holder	Config.	Remarks	
✓	no π	5.0 0°	2-	2-	2-	23 103.2	ST	II-1	::	REV. PL 801
	faint	0 0°	2-	2-	2-	26.2	ST	II-2	..	802
		0 0°	2-	2-	2-	102.2	ST	III-2	..	803
		0 0°	2-	2-	2-		ST	IV-1	..	800
✓		3 0°	2-	2-	2-		ST	IV-1	::	800
		0 0°	2-	2-	2-		ST	IV-2	::	804
✓	#4 missing	2.5 0°	2-	2-	2-		ST	IV-2	::	Down 804
	Too faint	0 0°	2+	2+	2+	20 102.6	ST/BR	III-2	..	805
	Much Too faint	0 180°	2+	2	2+	"	Ha/Ga	IV-1	..	806
	Too faint	0 180°	2	2	2+	"	Ha/Ga	IV-2	..	Trouble with eyepiece 807 rheostadt

Total 493



8 No.	Star	R.A. Dec.	1947 Date (U.T.)	Middle of Exposure (U.T.)	Exp in Min.	Hour Angle					Sector	P.A.	Definition	Steadiness	Trans- parency	Temp. Focus	Obs	Plate Holder	Config.	Remarks	9
1286	✓ BD+20°5071	22-02	July 3	9-15	4 4 4	1 E	g	1.2	✓		2.5	0°	2	2	2	+18° 102.6	Ha/Ga	II-1	∴		808
	✓✓ BD+25°2874	15-03	July 4	2-37	9 9 9	21 W	g	1.2	✓		2.5	0°	2	2	2	+23° 103.2	Ha	IV-2	∴	Not dark Yet	809
	✓ 2 Ross 806	15-51	"	3-03	4 4 4	2 E	f	1.0	✓	faint	0	0°	2	2	2	"	Ha	III-2	∴		810
	✓ 3 BD-10°4149	15-40	"	3-28	8 8 8	38 W	f	1.0	✓	faint	5.0	0°	2	2	2	"	Ha	III-2	∴		810
	✓ 4 L989-20	17-9	"	4-02	5 5 5	17 E	g	1.2	✓		0.5	0°	2	2	2	"	Ha	II-1	∴		808
PM	✓ 5 Wolf 1473	17-41	"	4-56	12 12	7 W	p	0.7		Too faint	0	0°	2	2	2	"	Ha/Ga	II-2	∴		811
PM	✓ 6 BD -8°4501	17-42	"	5-50	5 5 7	59 W	p	0.7			1.0	0°	2	2	2	"	Ha/Ga	IV-1	∴		812
PM	✓ 7 L920-7	18-16	July 11	4-56	15 15	2 E	g	1.0			0	0°	2	2	2	103 20	ST	IV-1	∴		812
PM	✓ 8 BD-9°5030	19-08	"	5-53	5 5 5	3 W	g	1.2			1.5	0°	2	2	2	"	ST	IV-1	∴		812
	✓ 9 Ross 640	16-27	July 12	3-14	10 10	9 W	ng	0.0	✓	Too faint	0	0°	2	2	2	1035 23	ST/GA	III-2	∴		813



No.	Star	R.A. Dec.	1947 Date (U.T)	Middle of Exposure (U.T)	Exp in Min.	Hour Angle					Sector	P.A.	Definition	Steadiness	Trans- parency	Temp. Focus	Obs	Plate Holder	Config.	Remarks
1287	L 989-20	17-09	12 July	4-03	5 5 5	13W	f	1.0	✓ faint		0.5	0°	2-	2-	2-		ST/6A	III-2	::	813
PM 1	Walf 816	18-05	"	5-00	20 20	15W	g	1.0			0	0°	2-	2-	2-	22 103.5	ST/6A	IV-1	::	814
PM 2	Ross 740	19-33	"	5-58	15 15	13E	f	0.7	Strong		0	0°	2-	2-	2-	"	ST/6A	IV-1	::	814
PM 3	Ross 752	20-05	"	6-34	6 6 6	10 E	g	1.2			0	0°	2-	2-	2-	"	Ha	III-2	::	815
PM 4	Ross 827	20-58	"	7-14	8 8 8	22 E	g	1.2			0	0°	2-	2-	2-	"	Ha	IV-2	::	815
5	SS Cygni	21-41	"	7-59	8 8 8	20 E	g	1.2			0	0°	2-	2-	2-	"	Ha	II-1	::	816
6	SS Cygni	21-41	"	8-23	8 8 8	4W	g	1.2			0	0°	2-	2-	2-	"	Ha	II-1	::	816 rev. Plate Trail g.
7	BD-5° 5715	22-07	"	9-02	5 5 5	17W	f	1.0	✓ Faint		1.5	0°	2-	2-	2-	"	Ha	II-2	::	817
8	BD-0° 4470	23-07	"	9-34	2.2 2.2	10 E	g	1.4	✓		Sm Sec 1.0	0°	2-	2-	2-	"	Ha	II-2	::	Down! 817
9	L 989-20	17-09	July 13	4-05	5 5 5	15W	f	1.0	✓ faint		0.5	0°	2-	2-	2-	+22° 103.3	Ha/Ga	II-1	::	818



No.	Star	R.A. Dec.	1947 Date (U.T.)	Middle of Exposure	Exp. in Min	Hour Angle		
1288	✓ Ross 149	18-34	July 13	4-43	8 8 8	25 E	p	0.7
PM								
1	✓ Ross 1063	19-32	"	5-21	5 5 5	44 E	g	1.0
PM								
2	✓ BD-10°4149	15-40	July 14	2-47	8 8 8	35 W	p	0.7
3	✓ L 917-26	17-11	"	3-25	5 5 5	18 W	f	1.0
4	✓ Wolf 834	18-13	"	4-13	20 20	32 E	g	1.0
PM 5	✓ ✓ L 687	18-46	"	5-20	25 25	3 W	ng	0.0
PM 6	✓ Ross 175	20-20	"	6-20	8 8 8	30 E	g-f	1.1
PM 7	✓ Ross 189	20-44	"	7-29	15 15	16 W	g	1.0
8	✓ BD-5°5715	22 20-7	"	8-26	4 4 4	9 E	f	1.0
9	✓ Ross 248	23-39	"	9-26	12 12	39 E	ng	0.0

Sector	P.A.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs	Plate Holder	Config	Remarks
0	0°	2-	2	2	+22° 103.3		Ha/Ga	II-1	..	818
0	0°	2-	2	2°	"		Ha/Ga	II-2	..	819 Clouds!!!
5	0°	2-	2	2	+28° 104.4		Ha	II-2	..	819
0	0°	2-	2	2	"		Ha	IV-1	..	820
0	0°	2-	2	2	+25° 103.6		Ha/Ga	IV-1	..	820
0	0°	2-	2	2	"		Ha/Ga	IV-2	..	821
0	0°	2-	2	2-	"		Ge	IV-2	..	821
0	0°	2-	2	2-	"		St/Ga	III-2	..	822
1.5	0°	2-	2-	2-	"		St/Ga	III-2	..	822 #2 Missing
0	0°	2-	2-	2-	"		Ge	II-2	..	- No Images



No.	Star	R.A. Dec	Date (UT) 1947	Middle of Exposure	Exp in Min	Hour Angle		
1289 0	L 768-119	15 39 -19 07	July 16 17	2-43	6 6 6	45 W	ng	0.0
1	L 917-26	17-11 -8 22	"	3-37	5 5 5	8 W	ng	0.0
PM 2	Wolf 1108	19 34 +53 08	"	5-39	18 18	12 E	? Prob. ng	
PM 3	Ross 762	20 <sup>h</sup> 39 <sup>m</sup> .1 -2° 52'	"	7-04	18 18	12 W	? Prob. ng	
PM 4	Ross 268	22 <sup>h</sup> 3 <sup>m</sup> .9	"	8-21	20 20	1 E	p	0.3
5	BD +65° 1846	23-2	"	9-35	6 6 6	16 W	ng	0.0
PM 6	BD +1° 3942	19-12	July 19	5-17	7 7 4	9 E	g	1.0
7	BD -5° 5715	22-7	"	8-46	4.5 4.5 4.5	29 W	ng	0.0
8	BD -0° 4470 or Ross 786	23-7	"	9-28	4.5 4.5 4.5	11 W	g	1.2
9	BD -10° 4149	15-40	July 25	2-30	10 10	60 W	ng	0.0

Sector	PA	Definition	Steadiness	Trans- parency	Temp °C	Focus	Obs	Plate Holder	Config.	Remarks
0	0	2-	2-	1+	25 103.7		ST	II-1	::	-
0	0	2-	2-	1+	"		ST	II-1	::	Clouds!
0	0	2-	2-	1+	"		Br/ST	II-2	::	823
0	0°	2-	2-	1+	"		Ga	II-2	:	823
0	0°	2-	2-	1+	"		Ga	IV-1	::	824
2.0	180°	2-	2-	1+	"		Ga	IV-1	::	824 Down on last exposure
1.5	0°	2-	1	2-0	+18° 102.5		Ha	III-2	::	825 Clouds!
1.5	0°	2-	2+	2-	"		Ga	IV-2	::	826
1.0	0°	2-	2	2-	"		Ga	IV-2	::	826
5.0	0°	2-	2-	1	+23° 103.5		Ha	III-2	:	825 Cloudy







No.	Star	R.A. Dec	Date (U.T) 1947	Middle of Exposure	Exp in Min	Hour Angle	
1291	Wolf 834	18-13 20°-30'	July 31	03-14	15 15	22 E	ng 0.0
1	Wolf 851	18-35	"	03-54	8	8 E	g 0.7
2	BD -5° 5715	22-07	"	07-35	5 1/2 5 1/2 5 1/2	7 W	vp 0.3
3	Wolf 834	18-13	Aug 1	2-57	25 25	30 E	ng 0.0
4	Wolf 851	18-35	"	3-50	15 15	0	g 1.0
5	BD +20° 5071	22h-00 +20°-34'	AUG 1	7-19	6 6	5 W	g 1.0
6	BD +65° 1846	23h 02m +66° 27'	"	8-13	10 10	2 E	g 1.0
7	Ross 730-731	19h-05m +20°-48'	AUG 2	5-11	8	56 W	g 0.7
8	Wolf 834	18h 13m	Aug 8	2-13	20 20	48 E	vp 0.3
9	Wolf 851	18-35	"	3-04	10 12 10	26 E	vp 0.3
				Total 56			
July	P.M.	21					
	M.R.	0					
	II	35	M	15	E	20	

Sector	PA	Definition	Steadiness	Trans- parency	Temp °C	Focus	Obs	Plate Holder	Config.	Remarks
0	0°	2-	2-	2-	26.8 104.3		ST/8e	III-2	..	Clouds, 833
0	0°	2-	2-	2-	"		"	IV 2	::	Clouds, 833
1.5	0°	2-	2	2-	"		Ga	IV-1	::	834
0	0°	1	1	1	+18° 102.6		Ha	IV-1	:	Thick! Trail. 834
0	0°	1	1	1	"		Ha	IV-2	:	Thick! Trail ok 835
2.5	0°	1	1	1	"		BR	II-1	'	THICK! 836
2.5	180°	1	1	1	"		BR	II-2	..	" 837
0	0°	2-	2-	2-	+19° 102.7		BR	IV-1	.	CLOUDS!! 838
0	0°	2-2	2-	3	+27° 104.0		Ha	IV-1	:	838
0	0°	2-1	2	3	"		Ha	IV-2	.	Trail ok 839 very poor seeing on Second exp.



No.	Star	R.A. Dec	Date (UT) 1947	Middle of Exposure	Exp. in Min	Hour Angle		
1292 0	Ross 730-731	19-05	Aug. 8	3-45	6 6 4	10E	g	1.2
1	Ross 165	19-44	"	4-15	6 6 6	19E	g	1.2
PM 2	BD+19°4499	20-42	"	5-00	6 6 6	34E	g	1.2
MR 3	ζ Cygni	21-13	"	5-27	3/4, 3/4 1, 1	41E	g	1.4
MR 4	ζ Cygni	21-13	"	5-26	3/4, 3/4 1, 1	37E	g	1.4
PM 5	Wolf 920	21-25	"	6-14	6 6 6	3E	g	1.2
PM 6	Wolf 953	21-55	"	6-51	25- 25- 25- 25	6W	f	1.2
PM 7	Ross 784	23-8	"	7-34	6 6 6	21E	ng	0.1
8	BD +65°1846	23-02	"	8-11	7	19W	p	0.3
9	BD -0°4470	23-07	"	8-46	15 15 15	49W	ng	0.0

Sector	PA	Definition	Steadiness	Trans- parency	Temp °C	Focus	Obs	Plate Holder	Config.	Remarks
1.0	0°	2 <sup>1</sup> / <sub>2</sub> 2 <sup>1</sup> / <sub>2</sub>	2 <sup>-</sup>	3	+26° 104.0		Ha	IV-2	o o	839
0	0°	2	2	3	"		Ha	II-1	::	Trail OK 840
1.5	0°	2 <sup>2</sup> / <sub>2</sub>	2	3	"		Ha	II-1	::	840
6.0	0°	2 <sup>+</sup>	2	3	"		Ha	II-2	o o	841
6.0	0°	2 <sup>+</sup>	2	3	"		Ha	II-2	o o	841
0.5	0°	2	2	3	+23° 103.5		Ha/Ga	II-1	::	842
0.5	0°	2	2	3	"		Ga/Hd	II-1	::	842
0	0°	2	2	3	"		Ga/Hd	II-2	::	843
2.5	180°	2	2	3	"		Ga/Hd	II-2	.	843
1.0	0°	2	2	3	"		Ga	III-2	::	844

\*Hd = Robert Hardie



No.	Star	R.A. Dec	Date (UT) 1947	Middle of Exposure	Exp in Min	Hour Angle		
12930	BD+23°123	0-51	Aug. 8	9-40	5 5 5	1 E	ng	0.0
PM 1	WOLF 1014	22 <sup>h</sup> 10 <sup>m</sup> +8°-16	Aug 9	6-42	12 12	14 E	g	1.0
2	L 917-26	17-11	Aug. 10	2-50	14 14	55 W	ng	0.0
3	Gree Ph +70°8247	19-03	"	3-57	20 20	11 W	ng	0.0
4	Ross 165	19-44	"	5-04	7 7 7	37 W	p	0.7
PM 5	Ross 772	21-11	"	6-08	10 10 10	17 W	ng	0.0
6	BD -5°5715	22-07 -4 53	"	8-00	7 7 7	71 W	ng	0.0
7	BD+23°123	0 <sup>h</sup> -51 <sup>m</sup> +23°45'	"	8-53	3 3 3	50 E	p	0.7
8	WOLF 1516	1 <sup>h</sup> 15' +15°56'	"	9-30	20	25 E	ng	0.0
9	WOLF 834	18 <sup>h</sup> 13 <sup>m</sup> +20°20'	AUG 11	3-20	15 15	28 W	ng	0.0

Sector	PA	Definition	Steadiness	Trans- parency	Temp °C	Focus	Obs	Plate Holder	Config.	Remarks
3.0	0°	2	2	3	+23° 103.5		Ga	III-2	::	844
0	0	2-	2-	2	22.6 103.3		st/BR	IV 1	..	845 Clouded out
1.0	0°	2 <sup>+</sup>	2 <sup>+</sup>	2	27.2 103.6		Ga	IV-1	:	845
0	180°	2	2	2	"		Ga	IV-2	..	846
0	0°	2	2	2	25.5 103.6		Ga	IV-2	::	846
0	0°	2	2	2	"		Ga/BR	II-1	::	847
0	0	2	2	2	"		BR	II-1	...	847 too bright - displaced END OF 847 SCREW
3.0	0	2	2	2	"		BR	III-2	::	848
0	0	2	2	2	"		BR	III-2	..	848 Too faint PLATES FRESH: (4 NO. 10) II1, II2, III2, IV1, IV2
0	0	2-	2-	2+	28.5 104.5		BR.	II-1	..	849 VERY JUMPY IMAGE



No.	Star	R.A. Dec	Date (UT) 1947	Middle of Exposure	Exp. in Min	Hour Angle		
12940	BD+124499	20 52.5	Aug 11	7.38	8 8 8	53 E	g	1.2
PM 1	Ross 762	20 24 -2 52	"	5 31	18 18	28 W	g	1.0
PM 2	Wolf 1168	22-06	"	6-27	6 6 6	18 E	g	1.2
PM 3	BD+905076	22-34	"	7-06	6 6 6	11 E	g	1.2
4	ADS 16644	23-15	"	8-10	15 15	16 W	ng	0.0
5	CR 181,210	0-8	"	9-00	10 12	9 W	p	0.3
6	BD+23°123	0-49	"	9-32	5 5 5	16 W	g	1.2
7	Ross 15	1-52	"	10-06	8 8 8	20 E	f	1.0
8	Wolf 834	18-13	Aug 14	2-06	24 24	29 E	f	0.7
9	Wolf 851	18-35	"	3-07	18 18	4 W	g	0.7

Sector	PA	Definition	Steadiness	Trans- parency	Temp °C	Focus	Obs	Plate Holder	Config	Remarks
3.0	0	2-	2-	2	28.5 104.5	5r/8r	II-1	:	°	849
0	0	2-	2-	2	"	BR	II-2	°	°	850
0	0°	2-	2-	3	"	Ha	II-2	°	°	850
2.0	0°	2-	2-	3	24° 103.5	Ha	III-2	°	°	851
4.5	270°	2	2	3	"	Ha	III-2	:	°	851
1.0 on nearby star	180°	2-	2-	3	"	Ha	IV-1	°	°	852
3.0	355°	2-	2-	3	"	Ha	IV-1	°	°	852
0	180°	2-	2-	3	"	Ha	IV-2	°	°	Dawn! 853
0	0°	2	2	2	30° 104.5	Ha	IV-1	:	°	vp Trail 854
0	0°	2.2	2	2.0	"	Ha	IV-2	:	°	vp trail 855



No.	Star	R.A. Dec	Date (U.T) 1947	Middle of Exposure	Exp. in Min	Hour Angle		
1295	✓ LUYTEN-EBB 28	23h 02m +10°-38'	AUG 15	7 50	18	25W	g	1.0
PM								
1	✓ BD +23°123 HD 5223	0h 51m +23°45'	"	8 51	6	22 E	g	1.0
2	✓ WOLF 1516	1h 15m +15° 56m	"	9 50	50	13W	p	0.3
3	✓ Wolf 834	18-13	Aug 16	2-05	20	28W	g	1.0
4	✓ GwPh 70° 8247	19-3	"	3-02	25	19 E	g	1.0
5	✓ Wolf 1130	20-4	"	3-44	6	40 E	g	1.0
PM 6	✓ Ross 787	23-19	Aug. 22	7-10	10 10 10	4 E	g	1.0
7	✓ BD +23°123	0-51	"	8-06	8 8 8	40 E	g	1.2
8	✓ Wolf 1516	1-15	"	9-11	46	1 W	vp	0.1
9	✓ Ross 15	1-55	"	10-08	10	18 W	g	0.7

Sector	PA	Definition	Steadiness	Trans- parency	Temp °C	Focus	Obs	Plate Holder	Config.	Remarks
0	0	2- 2- 2	2	2	24° 103.5		BR	III 2	..	CLOCK ERROR REMAINS 856
3	0	2- 2- 2	2	2	"		BR	III 2	::	856
0	0	2- 2- 2	2	2	"		BR	II 1	.	no TRAIL! 857
0	0°	2- 2- 2	2	2	24° 103.5		Ha	II-1	:	857
0	180°	2- 2- 2	2	2	"		Ha	IV-1	..	854
0	180°	2- 2- 2	2	2	"		Ha	IV-2	..	855
0	0°	2- 2- 2	2	2	23°.9 104.0		Ga	II-1	::	858
3.0	0°	2- 2- 2	2	2	"		Ga	II-1	::	858
0	0°	2- 2- 2	2	2	"		Ga	II-2	.	Extra long time allowed for poor plates. 859
0	180°	2- 2- 2	2	2	"		Ga	II-2	.	Dawn! 859

\* negative cleaned



No.	Star	R.A. Dec	Date (U.T) 1947	Middle of Exposure	Exp. in Min	Hour Angle		
1296	GwPh 70°8247	19°03"	Aug 23	2-06	20 20	0-49E	p	0.5
1	Ross 930-731	19-05	"	2-48	4 4	0-6E	g	1.2
2	Ross 165	19-42	"	3-16	6 6	0-18E	f	1.0
3	Wolf 1130	20-05	"	3-45	5 5	0-13E	g	1.2
4	Wolf 1106	21-07	"	4-18	13 13	40E	g	1.0
MR 5	τ Cygni	21-13	"	4-54	1/2, 1/2 3/4, 3/4	11E	g	1.4
MR 6	τ Cygni	21-13	"	4-57	1/2, 1/2 3/4, 3/4	8E	g	1.4
MR 7	K <sub>r</sub> 60	22-26	"	5-26	3/4, 3/4 1, 1	43E	g	1.4
MR 8	K <sub>r</sub> 60	22-26	"	5-30	3/4, 3/4 1, 1	39E	g	1.4
PM 9	Ross 273	22-10	"	5-52	3 3 3	10E	g	1.2

Sector	PA	Definition	Steadiness	Trans- parency	Temp °C	Focus	Obs	Plate Holder	Config.	Remarks
0	180°	2	2	2	+30° 104.5	Ha	IV-1	:	HOT! 860 Trail strong	
1.0	0°	2+	2	2	"	Ha	IV-1	∴	860	
0	0°	2	2	2	"	Ha	IV-2	∴	861	
0	180°	2	2	2	"	Ha	IV-2	∴	861	
0	180°	2	2	2	"	Ha	III-2	:	862	
6.0	0°	2+	2	3	"	Ha	IV-1	∴	863	
6.0	0°	2+	2	3	"	Ha	IV-1	∴	863	
0	180°	2+	2	3	+28° 104.3	Ha	IV-2	∴	864	
0	180°	2+	2	3	"	Ha	IV-2	∴	864	
0	0°	3	3	3	"	Ha	III-2	∴	862	







No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		
12980	✓ BD -0°44'50 Ross 786	23-7	Aug. 24	7-27	4 4 4	33W	g	1.2
1	✓ BD +23°123	0-51	"	8-04	10 10	34E	g	1.0
2	✓ Wolf 1516	1-15	"	8-56	45	6E	ng	0.0
3	✓ Ross 15	1-55	"	9-55	10 10	16W	g	1.0
4	✓ GrwPh +70°8247	19-03	Aug. 28	2-02	30 30	30E	g	1.0
5	✓ Wolf 1130	20-04	"	2-57	6 6 6	42E	g	1.2
6	✓ Wolf 1516	1-15	"	8-30	40	16E	p	0.3
7	✓ Ross 15	1-55	"	9-38	9 9 9	12W	g	1.2
8	✓ Wolf 1322	3-57	"	10-22	13	66E	f	0.5
9	✓ NEKVILLE 353 354	20h 09m +33°05'	AUG 30	—	—	—	g	0.7

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp °C	Focus	Obs.	Plate Holder	Configuration	Remarks
	1.0	0°	2	2	2	+28.8 109.5		Ga	IV-1	..	Trail ng. 870
	3.0	0°	2	2	2	"		Ga	IV-1	..	870
	0.0	0°	2	2	2	"		Ga	IV-2	.	Too faint 871
	0.0	180°	2	2	2	"		Ga	IV-2	..	871
	0	180°	2	2	1	+25° 103.8		Ha	IV-1	..	Trail at +59° good 872
	0	180°	2-2	2	2	"		Ha	IV-1	..	872
	0	0°	2	2	2	"		Ga	IV-2	.	faint 873
	0	180°	2	2	2	"		Ga	IV-2	..	Trail 873 g-strong
	0	0°	2	2	2	"		Ga	III-2	.	Displaced 874 Down; 1 exp. only.
	1.0	0°	1	1	2-	"		ST/BR	III-2	..	CLOUDS! WIND! 875



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle			
12990 ✓	BD+12° 4499	20h 52m +12° 54'	AUG 30	4-17	10 10	0	g	1.0	✓
1 ✓	BD+20° 5071	22h 02m +20° 46'	"	4-52	4 4 4	33 E	g	1.2	✓
PM 2 ✓	Ross 271	22h 09m	"	6-28	8 8 8 8	54 W	f	0.5 1.0	✓ Strong
PM 3 ✓	Ross 679	23-59	"	7-38	7 7 7	16 W	g	1.2	
4 ✓	AC 25° 6725	2-3	"	8-37	27 27	50 E	p	0.5	✓ faint
5 ✓	van Maanen 1166	2-14	"	9-41	18 18	3 W	ng	0.0	✓ Too faint
6 ✓	Wolf 1322	3-57	"	10-29	14	51 E	p	0.3	✓ faint all plates fresh
7 ✓	GRWPH 70° 6247	19h 3m +70° 32'	SEPT. 6	1-48	25 25	12 E	ng	0.0	✓ Displaced
8 ✓	Ross 165	19h 44m +27° 02'	"	2-55	10 10 10	14 W	g?	1.2	✓ Displaced
9 ✓	BD+12° 4499	20h 52m +12° 54'	"	3-43	10 10	7 E	g	1.0	✓
Aug. 1947		PM 19		Total	84				
		MR 6							
		PI 29 M 30 E							

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
	3.0	0°	1	1	2	24/1035	BR	III-2	..		CLOUDS 1 875
	2.5	0°	"	"	"	"	"	II-1	::		876 CLOUDS!
	0.5	0°	1+	1+	2	"	Br/Ga	II-1 II-2	..		1 exp 876 3 exp. 878
	0.5	0°	"	"	"	"	Ga	II-1	::		Plates reloaded here. 877
	0	0°	2	2-	2	"	Ga	II-1	..		877
	0	0°	2	2-	2	"	Ga	II-2	..		878
	0	0°	2-	2	2	"	Ga	II-2	..		Dawn! 878
	0	180	3	3	2-	26°/104	BR	II 1	..		879
	0	0	3	3	2-	"	"	II 1	::		879
	3	0	3+	3+	2-	"	"	II 2	:		880 TRAIL ng



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		
13000 PM	✓ Ross 772	21 <sup>h</sup> 11 <sup>m</sup> +17° 52'	SEPT 6	4-30	14 14	23W	g	1.2
PM 1	✓ Ross 268	22 <sup>h</sup> 04 <sup>m</sup> +17° 08'	"	5-23	25 25	23W	g	1.0
PM 2	✓ Ross 674	23-28	"	6-41	10 10 10	17W	g	1.2
PM 3	✓ L 722-22	0-13	"	7-32	7 7 7	22W	g	1.2
4	✓ Wolf 1516	1-15	"	8-25	45	14W	g	0.7
5	✓ AC 25° 6725	2-3	"	9-32	30	32W	g	0.7
6	✓ Wolf 1322	3-57	"	10-19	15 15	34E	ng	0.0
7	✓ L 917-26	17-11	Sept. 7	2-22	25	131W	g	0.7
8	✓ Ross 365	19-44	"	3-01	10 10	24W	g	1.0
9	✓ BD +12° 4479	20-53	"	3-50	10 10 10	4W	ng	0.0

Emulsion	Sector	P.A.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
	0	0°	2+	2+	2-	26°/104	BR II-2	..			880
	0	0°	2-	2-	2-	"	III-2	:			881
	0	0°	2	2-	2-	22°/103.7	Ga III-2	:			881
	0	0°	2	2-	2-	"	Ga IV-1	...			882
	0	0°	2	2-	2-	2°/103.1	Ga IV-1	..		Bright Moon near field.	882
	0	0°	2	2-	2-	"	Ga IV-2	.		"	883
	0	0°	2	2-	2-	"	Ga IV-2	..		"	883
	1.0	0°	2-	2-	1+	28°/104.2	Ga III-2	.			884
	0	0°	2-	2-	1+	"	Ga "	..			884
	3.0	0°	2-	2-	2-	"	Ga II-1	..			885

✓ Si under Stem

✓ Dark Plate



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle	
13010 ✓	BD +20°5071	22-02	Sept. 7	4-34	5 5 5	21 E	ng
PM 1 ✓	Wolf 998	22-06	"	5-16	12 12 12	18 W	g 1.2
PM 2 ✓	Ross 789	23-7	"	5-54	12 12	11 E	g 1.0
3 ✓	BD -0°4470	23-7	"	6-35	4 4 4	40 W	g 1.2
MR 4 ✓	85 Peg	23-59	"	7-07	5 5 5	15 W	g 1.2
PM 5 ✓	Wolf 87	1-45	"	7-57	11 "	44 E	g 1.0
PM 6 ✓	Wolf 87	1-45	"	8-15	8 5	22 E	g 1.0
7 ✓	VanMaanen 1166	2-10	"	9-01	15 15	6 E	g 1.0
8 ✓	Ross 578	3-36	"	10-04	20 20	25 E	g 1.0
MR 9 ✓	Kr 60	22-26	Sept. 11	4-42	1 1/2, 1 1/2 2, 2	22 E	g 1.4

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp °C	Focus	Obs.	Plate Holder	Configuration	Remarks
Dark Plate	2.5	0°	2	2	2	28°/104.2	Ga	II-1	::		885
✓	0	0°	2	2	2	"	Ga	II-2	::		886
✓	0	0°	2	2	2	"	Ga	II-2	::		886
✓	1.0 Sun Sec.	0°	2	2	2	23°/103.5	Ha	IV-1	::	Trail good.	887
✓	5.0	0°	2	2	2	"	Ha	IV-1	::		887
✓	0	0°	2	2	2	"	Ha	IV-2	:		888
✓	I-G emulsion	0	0°	2	2	"	Ha	III-2	•	Trial Plate	889
✓	0	180°	2	2	2	"	Ha	II-1	:		890
✓	0	0°	2-2	2	2-1	"	Ha	IV-2	::		888
✓	0	180°	2	2	2	23°/103.5	Ha	IV-1	••	windy	891



13

No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle			
13020	✓ Ku 60	22-26	Sept. 11	4-50	1 1/2, 1 1/2	14 E	g	1.4	✓
MR					2, 2				
1	✓ Fu 54	20-58	Sept 12	2-48	4-4	10 E	g	1.4	✓
				3-08	4-4				
2	✓ "	"	"	3-08	4-4	10 W	g	1.4	✓
				4-4	4-4				
3	✓ BD +20° 5071	21 59.7	"	3-44	4, 4	50 W	g	1.4	✓
				4, 4	4, 4				
4	✓ "	"	"	4-06	4, 4	30 W	g	1.4	✓
				4, 4	4, 4				
5	✓ WOLF 834	18h 13m +20° 30'	SEPT. 13	1-41	12 18	57 W	p-f	0.4	✓ faint
6	✓ BD +20° 5071	22h 02m +20° 46'	"	4-30	4-4	2 E	g	1.4	✓
				4-4	4-4				
7	✓ Gwath 70° 8247	19h-03	Sept. 19	1-11	20 25	0	f	0.5	✓
8	✓ Nechville 353-4	20-09	"	2-02	8 8	15 E	g	1.0	✓
9	✓ Nechville 353-4	20-09	"	2-19	8 8	2 W	g	1.0	✓

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
	0	180°	2-	2	2	+23°/103.5	Ha	IV-1	::	Reversed Windy	891
	0	0°	2-	2-	2-	24°/103.5	ST	II-1	::		892
	4.0	0°	2-	2-	2-	"	"	II-1	::	Reverse	892
	2.5	0°	2-	2-	2-	"	"	II-2	::	Clouds!	893
	2.5	0	2-	2-	2-	"	"	II-2	::	Reverse	893
						24.5°/103.5					
	I-G	0	0	2-	2-	24.5°/103.5	BR.	II-1	::		894
	ESPP	2.5	0	2-	2-	"	"	III-2	::	CLOUDS!	895
	ESPP	0	180°	2	2	1 25°/103.7	Ha	III-2	:	Clouds!	895
	ESPP	0.5	0°	2	1	2	"	Ha	III-2	"	896
	ESPP	1.0	0°	2	1	2	"	Ha	III-2	"	896

ESPP I-G  
 III-2 II-1  
 II-2  
 IV-1  
 IV-2



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		
13 13030	✓ Fw 53	20-42	Sept. 19	2-48	6 6 6	0	p	0.7
	✓ Fw 54	20-59	"	3-07	3 3 3	6W	g	1.2
	✓ 80-5°5715	22-07	"	3-40	4 4 4	34E	vp	0.3
	✓ PM 3 Ross 271	22-09	"	4-12	4 4 4	0	g	1.2
	✓ PM 4 Ross 292	23-23	"	5-00	10 10 13	30E	ng	0.0
	✓ MR 5 85 Peg	23-59	"	5-57	5 5 5	8E	g	1.2
	✓ PM 6 WOLF 1043	23h 48m +80 27'	"	6-44	6 6 6	50W	f	1.0
	✓ VM 1166	24h 10m +56 39'	"	8-00	14 14	16E	g ng	1.0 0.0
	✓ 8 WOLF 134	3h 10m +120 40'	"	8-56	20 20	19E	ng	0.0
	✓ 9 WOLF 1322	3h 57m +25 58'	"	10-18	8-8-8	17W	f-g	1.0

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp °C	Focus	Obs.	Plate Holder	Configuration	Remarks
✓ faint	I-G	2.0	0°	2-	2	2	+25° 103.7	Ha	II-1	∴	894
✓	I-G	1.0	0°	2-	2	2	"	Ha	II-2	∴	897
✓ Too faint	I-G	1.5	0°	2-	2-	2	"	Ha	II-2	∴	Windy! 897
✓	I-G	0.5	0°	1+	2-	2-	"	Ha	IV-1	∴	898
✓ Too faint	I-G	0	0°	2-	2-	2-0	"	Ha	IV-1	∴	Clouds 898
✓	ESPP	5.0	0°	2-	2-	2-	"	Ha	III-2	∴	899
✓ faint	I-G	1.0	0°	2-	2-	2-	+22° 103.1	BR.	IV 2	∴	CLOUDS 900
✓ Too faint	I-G	0	180	2-	2-	2-	"	BR	II 1	∴	901
✓ Too faint	I-G	0	0	2-	2-	2-	"	BR	IV 2	∴	900
✓	I-G	0	0	2-	2-	2-	"	BR	II 1	∴	902

\*II, II2, III 2 - IG  
IV 1, IV 2 - SPP



No. Star R.A. Dec. Date (U.T.) Middle of Exposure Exp. in Minutes Hour Angle

13040	✓✓ WOLF 1539	4h 49m +60 24m	SEPT. 19	10-54	8-8	0	g	1.0	✓
	✓✓ GRWPH 70° 8247	19h 3m +70 32'	SEPT 20	1-03	30	3W	g	0.7	✓
	✓ NECK 353-354	20h 11m +34 07'	"	1-55	8-8	17E	g	1.0	✓
	✓ NECK 353-354	20h 11m +34 07'	"	2-14	8-8	3W	g	1.0	✓
	✓ BD+12° 4499	20h 53m +12 54'	"	2-56	6-6 6-6	1W	g	1.4	✓
	✓ BD-50° 5715	22h 07m -40 53'	"	3-47	4-4 4-4	22E	ng	0.0	✓ Too faint
PM 6	✓ WOLF 953	21h 55m +70 54'	"	4-25	8	28W	ng	0.0	✓ no II
PM 7	✓ WOLF 953	21h 55m +70 54'	"	4-47	8 8	50W	f=	1.0	✓ faint
PM 8	✓ Ross 301	23h 48m +21 08'	"	5-34	6 6 6	16E	g	1.2	✓
PM 9	✓✓ Wolf 105	1h 53.7 +23° 19'	"	7-49	8 8 8	8E	f	0.3	✓ faint

Emulsion Sector PA. Definition Steadiness Transparency Temp. °C Focus Obs. Plate Holder Configuration Remarks

SPP	0	0	2-	2-	2-	+220° 103.1	BR III 1	••	DAWN	903
SPP	0	180	2-	2-	2-	+290° 104.6	BR IV 1	•		903
SPP	0.5	0	2-	2-	2-	"	BR IV 2	•••		904
SPP	1.0	0	2-	2-	2-	"	BR IV 2	••		904
IG	3.0	0	2-	2-	2-	"	BR II 1	•••		902
IG	2.5	0	2-	2-	2-	"	BR II 2	•••		905
IG	1.5	0	2-	2-	2-	"	BR II 2	•	905 FAILED TO START SECT. !!!	
IG	1.5	0	2-	2-	2-	"	BR III 2	•••		906
IG	1.0	0	2-	2-	2-	"	BR III 2	•••		906
IG	0	0	2-	2-	2-	+22° 103.0	DH II 1	••		907

ALL PLATES FRESH



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		
13050 ✓	Wolf 1130	20-04	Sept. 22	1-26	4	30 E	g	0.7
MR 1 ✓✓	85 Peg	23-59	"	5-38	5 5 5	15 E	g	1.2
PM 2 ✓✓	BD+38°125	0h 49m +39°14'	"	6-17	6 6	26 E	v <sub>p</sub>	0.3
PM 3 ✓✓	WOLF 66	1h 23m +90°30'	"	7-34	12-12	17 W	ng	0.0
4 ✓✓	A.C 25° 6725	2h 6m +25°	"	8-32	12 12	32 W	ng	0.0
5 ✓✓	WOLF 1322	3h 57m +26°	"	9-54	8-8	3 W	ng	0.0
PM 6 ✓✓	Wolf 1043	23 <sup>h</sup> 48m +80° 27'	Sept 25	5-24	8 8 ④ 8	6 W	p	0.7
PM 7 ✓✓	WOLF 1507	0h 57m +29° 41'	"	6-26	16-16	13 E	p	0.5
PM 8 ✓✓	WOLF 1523	1h 27m +20° 43'	"	7-41	8 8 8	33 W	f	1.0
PM 9 ✓✓	Ross 331	2h 56m +36° 25'	"	8-35	24	2 E	p	0.3
				9-45	16			

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp °C	Focus	Obs.	Plate Holder	Configuration	Remarks
SPP	0	180°	1+	2	3	+16°/102.3	Ha	IV-1	.	Cloudy!	908
SPP	5.0	0°	1-	2	3	+14°/102.0	Ha	IV-1	∴	Windy!	908
IG	2.0	0	1-	2	3	"	BR	II-1	∴	CLOUDS!	907
IG	2.0	0	1-	2	3	"	BR	II-2	∴	NEBULOUS OBJECT	909
IG	0	0	1-	2	3	"	BR	II-2	∴		909
IG	0	0	1-	2	3	+10 1/2°/101.3	BR	III 2	∴	SEEING HOPELESS!	910
IG	1.0	0	0+	1	2	+9° 101.0	DH	II-1	∴	Sector not working	911
IG	0	0	0+	1	2	"	BR	II 1	∴		911
IG	0	0	0+	1	2	"	BR	II 2	∴		912
IG	0	0	0+	1	2	"	BR	II-2	∴		912
IG	0	0	0+	1	2	"	BR	II 2	∴		



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		
13060 ✓	WOLF 1322	3h 56m +25° 38'	SEPT 25	9-25	12	11E	f	0.5
1 ✓	WOLF 1130	20h 4m 54° 19'	SEPT 26	1-03	6 6 6	39E	g	1.2
2 ✓	FU 53	20h 41m +44° 08'	"	1-48	6 6 6	31E	f	1.0
3 ✓	WOLF 1106	2h 6m +59° 34'	"	2-46	10 10	2W	p	0.5
4 ✓	BD-5° 5715	22h 07m -40° 53'	"	3-44	6 6 6	1E	p	0.7
PM 5 ✓	ROSS 787	23h 18m -10° 52'	"	4-50	8-8	5E	g	1.0
PM 6 ✓	LE 29	23h 35m +80° 45'	"	5-40	24	38W	g	0.7
MR 7 ✓	η Cass	0-46	"	6-08	1,1 1,1	15E	g	1.4
MR 8 ✓	η Cas	0-46	"	6-13	1,1 1,1	10E	g	1.4
MR 9 ✓	48i Cas	1-57	"	6-54	3/2 3/2 3/2 3/2	44E	g	1.4

Emulsion	Sector	P.A.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs	Plate Holder	Configuration	Remarks
I-G	0	0	0+	1	2	9°/101	BR	III-2	•		GUIDE LIGHT OUT! 913 SEEING HOPELESS!
SPP	0	180	1+	1+	2+	+130°/101.7	BR	IV-1	••		914
I-G	2	0	1+	1+	2+	"	BR	III-2	••		913
RELOADED II-1, II-2, III-2											
I-G	0	180	1+	1+	2+	"	BR	II-1	••		915
I-G	2.5	0	1+	1+	2+	"	BR	II-1	••		915
I-G	0.5	0	1+	1+	2+	+8.50°/101	BR	II-2	••		NEW GUIDE 33, 32 916 STEM 0, 20V
I-G	0	0	1+	1+	2+	"	BR	II-2	•		916
SPP	6.0	0°	1+	2	3	"	Ha	IV-2	••		917
SPP	6.0	0°	1+	2	3	"	Ha	IV-2	••		reversed. 917
SPP	6.5	0°	1+	2	3	"	Ha	IV-1	••		914



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		
13070 ✓	48i Cas	1-57	Sept. 26	7-00	3 1/2 3 1/2	37 E	g	1.4
MR					3 1/2 3 1/2			
1 ✓	VM 1166	2-10	"	7-32	18	20 E	g	1.0
					18			
2 ✓	Wolf 134	3-10	"	8-52	24	6 W	g	1.0
					24			
3 ✓	Wolf 1539	4-49	"	10-05	10	20 E	g	1.2
					10			
4 ✓	Ross 42	5-30	"	10-40	5	26 E	g	1.2
					5			
5 ✓	Wolf 237	5-43	"	11-03	7	15 E	g	1.0
					7			
6 ✓	Fu 53	20-42	27 Sept	1-56	10-10	20 E	g	1.0
7 ✓	Ross 292	23-24	"	4-30	15	28 E	g	1.0
					15			
8 ✓	Wolf 1050	23-55	"	5-24	8 8	5 W	g	1.2
9 ✓	Wolf 66	1-23	"	6-40	15	16 E	g	1.0
					15			

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
✓ g	1.4	SPP 6.5	0°	1 <sup>+</sup> 2 <sup>-</sup> 3	8.5/101.0	Ha	IV-1	::	reversed	914	
✓	1.0	I-G 0	180°	2 <sup>-</sup> 2 <sup>-</sup> 3	"	Ha	III-2	:		918	
All Plates fresh											
✓	1.0	I-G 0	0°	2 <sup>-</sup> 2 <sup>-</sup> 3	+7.5/101.0	Ha	II-1	:	good Trail	919	
✓	1.2	SPP 0.5	0°	2 <sup>-</sup> 2 <sup>-</sup> 4	"	Ha	IV-1	:	Trail	920 927	
✓	1.2	I-G 1.0	0°	2 3 4	"	Ha	II-1	:		919	
✓	1.0	I-G 0	180°	2 3 4	"	Ha	II-2	:		921	
✓	1.0	IG 2.0	0°	2 2 3	12°/101.5	DH	II-1	..		919	
✓	1.0	IG 0.0	0°	2 <sup>-</sup> 2 <sup>-</sup> 3	10°/101.2	DH	II-2	:		921	
✓	1.2	IG 0.0	0°	2 <sup>-</sup> 2 <sup>-</sup> 2	"	DH	III-2	..		922	
✓	1.0	I-G 0	0°	2 <sup>-</sup> 2 <sup>-</sup> 3	"	Ha	III-2	:		922	
II-1, II-2, III-2 fresh											



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		
13080	✓ AC 256925	2-03	Sept. 27	7-43	20	2W	g	1.0
					20			
1	✓ Wolf 134	3-10	"	8-35	25	10 E	g	1.0
					25			
2	✓ Ross 578	3-36	"	9-40	15	30 W	g	1.0
					15			
3	✓ Wolf 237	5-43	"	10-50	9	26 E	g	1.0
					9			
					9			
4	✓ FU 54	20-59	Oct 2	19-55	3	0	g	1.0
					x			
5	✓ Fu 53	20-42	Oct. 3	1-16	10	39 E	g	1.2
					10			
					10			
6	✓ Fu 54	20-59	"	1-50	3	25 E	g	1.2
					3			
					3			
MR 7	✓ 85 Peg	23-59	"	4-27	4	45 E	g	1.2
					4			
					4			
MR 8	✓ 85 Peg	23-59	"	4-44	4	28 E	g	1.2
					4			
					4			
MR 9	✓ η Cas	0-46	"	5-17	3/4, 3/4	28 E	g	1.4
					3/4, 3/4			

Sept. 1947 PM 26  
 MR 9  
 21 M 31 E

Total 87

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
I-G	0	0°	2	2	3	+90/101.2		Ha	II-1	:	923
I-G	0	0°	2	2	3	"		Ha	II-1	..	923
I-G	0	0°	2	2	3	"		Ha	II-2	:	924
I-G	0	180°	2	2	3	"		Ha	II-2	..	924
IG	0	0	2	2	3	14.5 101.5		OH	II-1	.. ← clouds	925
I-G	2.0	0°	2	2	2	+15°/102.1		Ha	II-1	..	925
I-G	1.0	0°	2	2	2.0	"		Ha	II-2	.. Thru Clouds.	926
SPP	5.0	0°	2	2	2	"		Ha	IV-1	..	920-927
SPP	5.0	0°	2	2	2	"		Ha	IV-1	..	920-927 reversed
SPP	6.0	0°	2	2	2	"		Ha	IV-2	..	928

II-1, II-2, III-2  
 IV-2 FRESH  
 1 EXP. ON IV-1



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		
13090 MR	✓ Cas	0 <sup>n</sup> -46 <sup>m</sup>	Oct:3	5-21	3/4, 1 3/4, 3/4	32 E	g	1.4
PM	✓ Wolf 44	0-55	"	5-55	8 8 8	15 E	g	1.2
PM 2	✓ WOLF 105	1h 53 +23° 19'	"	7-14	8 8 12	13 W	g	1.2
3	✓ Fu 54	20-59.5	Oct 4	1-46	4,4 4,4	19 E	g	1.2
4	✓ Fu 53	20 <sup>n</sup> 41 <sup>m</sup> +44° 04'	OCT 5	0-47	10-10	57 E	ng	0.0
5	✓ WOLF 1106	21 <sup>n</sup> 06 <sup>m</sup> +59° 34'	"	2-07	12-15	2 E	g	1.0
6	✓ BD-5° 57 15	22 <sup>n</sup> 07 <sup>m</sup> -40° 53'	"	2-58	8 8 8 8	12 E	f	1.0
7	✓ BD+65° 18 46	23 <sup>n</sup> 02 <sup>m</sup> +66° 27'	"	3-56	8 8 8 8	8 E	g	1.2
MR 8	✓ 85, Peg	23-59	"	4-55	3,5 3,5	7 E	g	1.4
PM 9	✓ BD+38° 12 5	0h 49 <sup>m</sup> +39° 14'	"	5-50	8 8	1 E	g	1.0
10	BD 17 375	1h 23 <sup>m</sup> +17° 35'	"	6-38	6-6	6 E		

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
SPP 6.0	0°	2	2	2	+15°	102.1	Ha IV-2	reversed			928
I-G 1.5	180°	2	2	2	"		Ha II-2				926
I-G 0.0	0	2	2	2	"		BR II-2				929
ALL PLATES FRESH											CLOUDY!
IG 1.0	0	2	2	2	20.3 102.5		ST II-1				cloudy, all around shaggy
IG 2.0	0	3	3	3	19.6° 102.8		BR III-2				931
IG 0	180°	3	3	3	"		" II-1			TRIED TRAILING!	{930 932
IG 2.5	0	3	3	3	"		" III-2			TRAIL Strong	931
IG 2.5	180°	2	2	3	"		" II-2				933
I-G 5.0	0°	2	2	3	"		Ha IV-1			Trail g	934
I-G 0.0	0	1	1	3	15.4 102.2		BR II-2				933
ALL FRESH											
IG 2.0	0	1	1	3							



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		
13100 PM	BD 17°325	1h 35 <sup>m</sup> 17° 35'	Oct 5	6-31	6 6	6E	g	1.0
PM 1	Ross 327	2h 9 <sup>m</sup> 17° 37'	Oct 5	7-12	8-8	0	g	1.0
2	Ross 42	5h 29 <sup>m</sup>	"	10-20	10-10	10E	g	1.0
3	FU 53	20h 41 <sup>m</sup> +44° 08'	OCT 6	0-47	12-14	47E	p	0.5
4	WOLF 1106	21h 6 <sup>m</sup> +59° 34'	"	1-38	13 13	26E	f	0.7
5	GRW. PH. +82° 3818	21h 38 <sup>m</sup> +82° 36'	"	2-30	36	6E	g	0.7
6	BD+65° 1846	23h 02 <sup>m</sup> +66° 27'	"	3-38	88	22E	g	1.0
7	BD+65° 1846	23h 02 <sup>m</sup> +66° 27'	"	3-54	8 8	6E	g	1.0
PM 8	Ross 309	0h 02 <sup>m</sup> +57° 47'	"	5-00	88 8	0	g	1.2
PM 9	Ross 9	1h 16 <sup>m</sup> +57° 04'	"	5-51	6 6	21E	ng po	0.9

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp °C	Focus	Obs	Plate Holder	Configuration	Remarks
IG	25	0	12	2	3	14	102.2	DH	II	:	935
IG	0	0	1	1	2 <sup>+</sup>	15.11	102.2	DH	II-1	..	935
SPP	0.5	0	1	1	2 <sup>-</sup>	"	22.4 103.3	DH	IV-1	..	SPP by 936 mistake
IG	3	0	1+	1+	2+	"		BR	II-2	..	937
I-G	0	180°	1+	1+	2+	"		BR	II-2	:	937
SPP	0	180°	1+	1+	2+	"		BR	IV-1	.	936
I-G	2.5	180°	1+	1+	2+	"		BR	III-2	..	938
I-G	2.5	180°	1+	1+	2+	"		BR	III-2	:	938 REVERSE
ALL FRESH											
I-G	1.5	180°	1+	1+	2+	"		BR	II-1	..	939
IG	1.5	180°	1+	1+	2+	17.8 102.6		BR	II-1	..	939



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle			Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
13110 ✓	d Pisc	1-59	Oct. 6	6-37	1, 1 1, 1	20 E	ng	0.0	no reference stars	SPP 6.0	0°	2 2 3	3	+18° 102.6	Ha. IV-1	∴	Trial Plate		940	
✓	AC +25° 6725	2-06	"	7-12	20 20	8 W	g	1.0	✓	I-G 0	0°	2 2 3	3	"	Ha II-2	:			941	
✓	Wolf 734	3-10	"	8-10	30 30	0	p	0.3	✓ faint	I-G 0	0°	1 2 3	3	"	Ha II-2	∴	Windy!		941	
MR 3 ✓	E Aur	4-58	"	9-08	3/4, 1 3/4, 1	49 E	g	1.4	✓	SPP 6.0	0°	1+ 2 3	3	"	Ha IV-2	∴	Wind Shaking floor!!		942	
MR 4 ✓	E Aur	4-58	"	9-12	3/4, 3/4 3/4, 3/4	45 E	g	1.4	✓	SPP 6.0	0°	1+ 2 3	3	"	Ha IV-2	∴	reversed		942	
✓	Wolf 237	5-43	"	9-55	10 10 10	45 E	f	1.0	✓ faint	I-G 0	180°	1+ 2 3	3	+16°	Ha III-2	∴			943	
									ALL FRESH											
PM 6 ✓	Ross 773	2h 15m +20° 41'	OCT 8	2-18	10-10	13 W	ng	0.0	✓	I-G 0	0	1 1 1	1	20° 102.9	BR II-1	∴	clouds		944	
✓	Wolf 1106	21-07	Oct. 9	1-15	12 12	38 E	g	1.0	✓	I-G 0	180°	1 1 2	2	+13° 101.8	Ha II-1	:	Trail		944	
✓	GwPh +82° 3818	21-38	"	2-15	35 35	10 E	f	0.7	✓	SPP 0	180°	2- 2- 2	2	"	Ha IV-1	:	Trail Strong at 0 <sup>h</sup> 25 <sup>m</sup> +47° 28'		945	
✓	BD-5° 5715	22-07	"	3-22	10 8 8	32 W	f	0.7	✓	I-G 0	0°	2 2 2	2	+10° 101.2	Ha IV-2	∴			946	



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle			Emulsion	Sector	P.A.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
13120	✓ 85 Peg	23-59	Oct. 9	4-25	5 5	23E	g	1.2	✓	SPP	5.0	0°	2-1	1	2	+10° 101.2	Ha	IV-2	∴	947
MR									✓											
MR 1	✓ 85 Peg	23-59	"	4-40	5 5	8E	g	1.2	✓	SPP	5.0	0°	2-1	1	2	"	Ha	IV-2	∴	reversed. 947
PM 2	✓ Wolf 1523	1-27	"	5-40	8 8	38E	g	1.2	✓	I-G	0	0°	2-2	2	"		Ha	II-2	∴	946
									ALL FRESH											
3	✓ α PISC	1h 59m +20 31'	"	6-40	6 8	4E	f	1.0	✓	SPP	8	0°	2-2	2	"		BR	IV-1	∴	CLOUDS? 948
PM 4	✓ WOLF 131	3h 1m +20 19'	"	7-45	24-24	1E	g	1.0	✓	I-G	0	0°	1-1	2	"		BR	II-1	∴	CLOUDS 949
5	✓ WOLF 1322	3h 56m +25 58'	"	8-52	12 12	11W	g	1.0	✓	I-G	0	0°	1-1	2	"		BR	II-1	∴	CLOUDS! 949
6	✓ Fu 53	20h 42m +44 08'	Oct 10	1-08	7 7	18E	g	1.2	✓	IG	2.0	0.0	2-2	3	+12°	1015	DH	II-2	∴	950
7	✓ Gkph + 82 3818	21-36 +82 49'	"	2-06	20-20	20E	g	1.0	✓	IG	0	180.0	2-2	3	"		DH	II-2	∴	950
8	✓ BD-5° 5715	22-07 -40 59'	"	2-52	8-8	2W	g	1.2	✓	IG	0	0	2-2	3			DH	III-2	∴	951
9	✓ -0° 4470	23-07 +0 28'	"	3-36	2 2	13E	g	1.2	✓	SPP	1.0	0	2-2	3			DH	IV-1	∴	948
13130	✓ -0° 4470	23-07 +0 28'	"	3-42	2 2	7E	g	1.4	✓	SPP	1.0	0	2-2	3	+11°		DH	IV-1	∴	948



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle			Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
13131 PM	BD-6°6318	23 53.2 -6°251	10 Oct	4-45	10-10	10W	f	0.7	Strong All FRESH	IG	0 0	2- 2- 3	12°			DH III-2	0 0		951	
PM 2	BD+8°332	2-07	"	6-49	8 8 8	3W	g	1.2		I-G	1.5 0°	2- 2 3	"			Ha II-1	::		952	
3	Wolf 134	3-10	"	7-45	30 30	9E	g	1.0		I-G	0 0°	2- 2 3	"			Ha II-1	::		952	
4	Wolf 578	3-35	"	8-40	15 15	21W	p	0.3		I-G	0 0°	2- 2 3	"			Ha II-2	::	lens fogged.	953	
5	Fu 53	20 41	11 Oct.	0-50	8 8 8	30E	g	1.2		I-G	2 0°	2 2 3	14° 10' 15"			ST II-2	::		953	
6	Wolf 1106	21 07	"	1-51	7 7	0	g	1.2		IG	0 180°	2 2 3	"			ST II-1	::		954	
7	BD-5°5715	22 07	"	2 38	6 6 6	8E	g	1.2		IG	1.5 0°	2- 2- 3	"			ST II-1	::	Seeing good!	954	
8	BD +65°1846	23 02	"	3 30	10 10 10	11E	g	1.2		IG	2.5 180	2- 2- 2- 14 14 14	"			ST III-2	::	Seeing impossible!	955	
PM 9	BD +0°32	0 16	"	5 16	10 10 10	22W	g	1.0	for fainter component	IG	0 0°	2- 2- 2-	12°			ST III-2	::		955	
13140 PM	BD-13°245	1 19	"	6-05	6 6 6	8W	f	1.0	fair:it	ESPP	1.5 0°	2- 2- 2-	"			ST IV-1	::	BRAUN GUARD Exp 2 and 3!	956	
13141 PM	WOLF 79	14 35 m +10°04'	"	6-41	8 8 8	28W	g	1.2		ESPP	0 0°	2- 2- 2-	"			BR IV 1	::		956	



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle			Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
13142	✓ Ross 570	3h 16m -70 19'	OCT. 11	8-02	4 4 4 4	8W	g	1.0	✓	0.5	0°	2- 2- 2-	2-	110 101.4	BR	IV-1	::		956	
3	✓ WOLF 1322	3h 56m +25 58'	"	8-32	12	1E	f ng	0.5 0.0	✓ faint no stars ALL FRESH EXCEPT IV-2 WHICH HAS 1 EXPOSURE	0	0	2- 2-	SEE REM	"	BR	IV-2	.		961 SUSPECT OBJ. DEWED OVER CORRECT! FOG! CLOSING UP!	
4	✓ FU 53	20h 41m +44 08'	OCT 16	0-26	10-10	34E	g	1.0	✓	2	0	2- 2-	2-	250 103.8	BR	II-1	::		957	
5	✓ BD+20°4499	20h 52 +120 54'	"	1-15	10 10	4W	g	1.0	✓	3	0	2- 2-	2-	"	BR	II-1	::		957	
6	✓ BD+20°5071	22h 01m +20 46'	"	1-52	4 4 4 4	29E	g	1.4	✓	ESP 2.5	0	2- 2-	2-	"	BR	II-2	::		958	
7	✓ BD-5°5715	22h 07m -40 53'	"	2-37	7 7	11W	g	1.2	✓	ESP 1.5	0	2- 2-	2-	"	BR	II-2	::		958	
8	✓ BD -0°4476	23h 7m +0 28'	"	3-22	2-2 3-3	4E	g	1.4	✓	1.0	0	2- 2-	2-	"	BR	III-2	::		959	
9	✓ CR 181,210	0h 8m 68 52'	"	4-06	10-10	20E	ng	0.0	✓ Wrong field	1.0	180°	2- 2-	2-	"	BR	III-2	::		959	



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle			Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
13150 PM	✓ Ross 675	23h 58m +170+21	OCT. 16	4-59	4-4 4-4	43W	g	1.4	✓	1.0	0°	1	1	2-	20.54 103.0	BR	IV-1	::	960	
PM 1	✓ BD+57° 983	1-39	"	5-49	4-4 4-4	9E	ng	0.0	✓	Wrong field	2.0	180°	1	1	2-	"	BR	IV-1	::	960
PM 2	✓ Ross 345	3-11	"	6-37	6 6 6	55E	g	1.2	✓		1.5	180°	2	2	2-	"	Ha	IV-2	::	961
3	✓ Ross 578	3-36	"	7-15	20 20	38E	g	1.0	✓	All Fresh but IV-2	0	0°	2	2	2-	"	Ha	IV-2	:	Trailg 961
4	✓ Wolf 1322	3-57	"	8-18	14 14	0	g	1.0	✓	ESP	0	0°	2	2	2-	"	Ha	II-1	:	Trailg 962
5	✓ Wolf 1539	4-49	"	9-05	10 10 10	2E	g	1.2	✓		0.5	0°	2	2	2-	"	Ha	II-1	::	962
6	✓ Ross 42	5-30	"	9-43	5 5 5	6E	g	1.2	✓		1.0	0°	2+	2	2-	"	Ha	II-2	::	963
7	✓ L1815-5	6-44	"	10-40	7 7 7	20E	g	1.2	✓	1.0	180°	2	2	2-	+170 102.5	Ha	II-2	::	Trail Plate 963	
8	✓ Ross 986	7-07	"	11-12	7 7 7	15E	p	0.7	✓	elongated images	0.5	0°	2	2	2-	"	Ha	III-2	::	964
9	✓ GwPh+823818	21-38	Oct. 17	0-47	25 25	66E	g	1.0	✓	All fresh but III-2 1 exp on III-2	0	180°	2+	2	2	+200 102.5	Ha	III-2	:	Trailat 21h40m +51°37' 964



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		
13160 ✓ MR	γ Cygni	21-13	Oct. 17	1-30	1/2, 3/4 3/4, 3/4	0	g	1.4
MR 1 ✓✓	γ Cygni	21-13	"	1-33	1/2, 1/2 3/4, 3/4	3 W	g	1.4
MR 2 ✓	Ku 60	22-26	"	1-57	1/2, 1/2 1, 1	45 E	g	1.4
MR 3 ✓	Ku 60	22-26	"	2-00	1/2, 1/2 1, 1	42 E	g	1.4
4 ✓	BD-5°5715	22-07	"	2-33	8 8 8	25 W	g	1.2
5 ✓	BD-0°4470	23-07	"	3-03	3 3 3	20 E	g	1.2
6 ✓	BD-0°4470	23-07	"	3-12	3 3 3	11 E	g	1.2
PM. 7 ✓	Ross 331	24 55m +36 25'	Oct. 19	6-48	24-24	13 E	g	1.0
MR 8 ✓✓	β 543	3:55.0 -1:18	"	7-56	7 7	6 E	g	1.2
9 ✓	WOLF 1539	4:49 +6:24	"	8-38	12-12	17 E	g	1.0

Emulsion	Sector	P.A.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
ESPP	6.0	0°	2+	2	2	+19.0 102.5	Ha	IV-1	∴		965
"	6.0	0°	2+	2	2	"	Ha	IV-1	∴	reversed	965
"	0	180°	2+	2	2	"	Ha	IV-2	∴		966
"	0	180°	2+	2	2	"	Ha	IV-2	∴	reversed	966
"	1.5	0°	2	2	2	"	Ha	II-1	∴		967
"	SmSec 1.0	0°	2	2	2	"	Ha	II-2	∴		968
"	SmSec 1.0	0°	2	2	2	"	Ha	II-2	∴	reversed	968
ALL FRESH											
"	0	0°	2-	2-	2-	18.6 102.5	BR	II-1	∴		969
"	3.0	0°	2-	2-	2-	"	BR	II-1	∴		969
"	0.5	0°	2-	2-	2-	"	BR	II-2	∴		970



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle				Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
13170 ✓	Ross 42	5:29 +9:47	OCT 19	9-30	12 12	5 E	g	1.0	✓		1.0	0°	2-2-2	2	<sup>16°</sup> 102.4	BR	II-2	:			970
PM 1 ✓	Ross 48	5:36 +7:22	"	10-20	13-3 3-3	38W	g	1.4	✓	displaced	0	0°	2-2-2	2	"	BR	III-2	::			971
2 ✓	Ross 986	7:6.7 +38:39	"	10-51	8 8	21 E	g	1.2	✓	wrong sector	0	0	2-2-2	2	"	BR	III-2	::			971
PM 3 ✓	Ross 176	20-21	Oct. 20	0-17	5 5 5	7 E	g	1.2	✓		0	180°	3 3 3	3	<sup>+19°</sup> 102.8	Ha	IV-1	::			972
MR 4 ✓	ζ Cygni	21-13	"	0-36	1/2, 1/2 1/2, 1/2	38 E	g	1.4	✓		6.0	0°	3 3 3	3	"	Ha	IV-2	::			973
MR 5 ✓	ζ Cygni	21-13	"	0-38	1/2, 3/4 1/2, 1/2	40 E	g	1.4	✓		6.0	0°	3 3 3	3	"	Ha	IV-2	::	reversed		973
III 6 ✓	Ross 578	3-36	"	7-54	18-18	15W	ng	0.0	✓	Too faint	0	0	2 2 3	3	<sup>+15°</sup> 102.1	DH	III-2	::			974
II 7 ✓	Wolf 237	5-43	"	9-10	12 <sup>12</sup> 12	35E	p	0.5	✓	faint	0	0	2 3 3	3	<sup>+14°</sup> 102.1	DH	III-2	::			974
II 8 ✓	L1815-5	6-45	"	10-10	10 <sup>10</sup> 10	38E	f	1.0	✓		1.0	180°	2 2 3	3	"	DH	IV-1	::			972
II 9 ✓	Ross 986	7-7	"	10-56	12-12	13E	f	0.7	✓		0.5	0	2 2 3	3	"	DH	IV-2	::			975

ESPA

All Fresh but 1 exp on IV-1



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle	g	Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
1318	✓ WOLF 1082	20:41 +56:00	OCT 22	10-15	$\frac{3}{3}$	21 E	g	1.4	ALL FRESH EXCEPT 1 EXP. ON IV-2	0	180°	2	2-3	$\frac{23.6}{103.5}$		BR IV-2 ::			975
PM																			
PM 1	✓ KOSTINSKY	21:05 +46:45	"	0-49	$\frac{3}{3}$	11 E	g	1.4	✓	1.0	180°	2	2-3	"		BR IV-4 ::			976
MR 2	✓ TCYGN1	21:12 +37:49	"	1-16	$\frac{1-1}{1-1}$	9 W	g	1.4	✓	6.0	0°	2	2-3	"		BR IV-1 ::			976
PM 3	✓ ROSS 778	21:25 +07:05	"	1-47	$\frac{4-4}{4-4}$	27 W	g	1.4	✓	0	0°	2	2-3	"		BR III-2 ::			977
PM 4	✓ BD+20° 5125	22:17 +21:07	"	2-19	$\frac{4-4}{4-4}$	7 W	g	1.4	✓	0.5	0°	2	2-3	"		BR III-2 ::			977
5	✓ ROSS 248	23:39 +43:56	"	3-14	$\frac{10-10}{10}$	20 E	g	1.2	✓	0	0°	2	2-3	"		BR II-2 ::			978
6	✓ BD+23° 123	0:51 +23:45	"	4-07	$\frac{6-6}{6-6}$	38 E	g	1.2	✓	3	0°	1	1-2	$\frac{209}{102.9}$		BR II-2 ::			978
PM 7	✓ L1159-16	1:54 +12:36	"	5-33	$\frac{6-6}{6-6}$	16 E	g	1.4	✓	0	0°	1	1-2	"		BR II-1 ::			979
PM 8	✓ BD-6° 37	3h 14m -6° 21'	"	6-45	$\frac{12}{12}$	23 E	g	1.2	ALL FRESH EXCEPT 1 EXP. ON II-1	2.0	0	2	2-2	$\frac{18}{102.5}$		DH II-1 ::			979
PM 9	✓ ROSS 580	3h 37m -11° 81'	"	7-31	$\frac{8}{8}$	1 E	ng	0.0	✓ Too faint	0	0	2	2-2			DH II-2 ::			980

E.S.P.P.



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle				Emulsion	Sector	P.A.	Definition	Steadiness	Transparency	Temp °C	Focus	Obs.	Plate Holder	Configuration	Remarks
1319	0 ✓ B552	4:49 +1329	22 Oct	8-30	4 4	13E	f	1.0	✓	SPP	4.5	90°	2- 2- 2	2	18°	102.4	DH II-2	::			980
MR	1 ✓ B552	4:49 +1329	"	8-42	4 4	1E	f	1.0	✓	"	4.5	90°	2- 2- 2	"			DH II-2	::			980
TT	2 ✓ Wolf 237	5-43	"	9-8	12 12	18E	g	1.2	✓	"	0	0	2- 2- 2	"			DH III-2	::			981
TT	3 ✓ L1815-5	6-45	"	10-08	10 10 10 10	29E	g	1.2	✓	"	1.0	180°	2-	"			DH III-2	::			981
										ALL FRESH											
PM	4 ✓ Ross 825	21:09 +33:19	OCT 23	0-28	6 6 6 6	33E	g	1.4	✓		0	0°	2 2 2+	23.8 / 103.6			BR II-1	::	11 <sup>m</sup> 6 K3		982
PM	5 ✓ Ross 473	21:15 +20:41	"	1-20	15-15	13W	g	1.0	✓		0	0°	2 2 2+	"			BR II-1	::	12 <sup>m</sup> 2 M3		982
MR	6 ✓ KR 60	22:26 +57:27	"	1-56	1-1 1-1	21E	g	1.4	✓	ESPP	0	180°	2 2 2+	"			BR II-2	::			983
MR	7 ✓ KR 60	22:26 +57:27	"	2-03	1 1/2-1 1/2 1 1/2-1 1/2	14E	g	1.4	✓	E	0	180°	2 2 2+	"			BR II-2	::	REVERSED		983
PM	8 ✓ WOLF 1034	22:17 +6:28	"	2-59	24-24	51W	g	1.0	✓		0	0°	2- 2- 2+	"			BR III-2	::	13 <sup>m</sup> 0		984
PM	9 ✓ BD-6°6308	23:50 -6:16	"	4-12	8 8 8 8	31W	g	1.2	✓		2.0	0°	2- 2- 2+	20.6 / 103			BR IV-1	::	9 <sup>m</sup> 9 K		985



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle			Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks	
13200	L868-3	0:58 -4:44	OCT 23	5-04	18 18	15W	g	1.0	✓		0 0°	2- 2- 2	20.6 103	BR	IV-1				12 <sup>M</sup> .5	985	
PM																				ALL FRESH	
PM	1 Ross 334	3-15	"	6-40	20 20	25E	g	1.0	✓		0 0°	2- 2- 2	"	Ha	II-1					986	
MR	2 B543	3-55	"	7-25	7 7 7	20E	g	1.2	✓		3.0 0°	2- 2- 2	"	Ha	II-1					986	
MR	3 O282	4-19	"	8-00	8 8 8	12E	g	1.2	✓		4.5 0°	2-1 2- 2	"	Ha	II-2				seeing very bad	987	
MR	4 E Aur.	4-58	"	8-24	1/2, 1/2 1/2, 1/2	26E	g	1.4	✓		6.0 0°	0+ 2- 2	"	Ha	IV-2				Seeing bad	988	
MR	5 E Aur.	4-58	"	8-26	1/2, 1/2 1/2, 1/2	24E	g	1.4	✓	ESP	6.0 0°	2 2- 2	"	Ha	IV-2				reversed.	988	
PM	6 Ross 409	5-30	"	8-56	10 10 10	25E	g	1.2	✓		0 0°	2 2- 2	"	Ha	II-2					987	
PM	7 Ross 408	5-31	"	9-33	14 14	10W	g	1.0	✓		0 0°	2- 2- 2	"	Ha	IV-1					989	
	8 L1815-5	6-45	"	10-20	10 10 10	20E	g	1.2	✓		1.0 180°	2- 2- 2	+180 102.5	Ha	IV-1					989	
																				ALL FRESH	
PM	9 WOLF 1043	23:47 +8:27	OCT 31	2-37	8 8 8	29E	g	1.2	✓		1.0 0	2- 2-	14	11.8 101.5	BR	II-1					990







No.

Star

R.A.

Dec.

Date (U.T.)

Middle of Exposure

Exp. in Minutes

Hour Angle

g

1.2

Emulsion

Sector

P.A.

Definition

Steadiness

Transparency

Temp. °C

Focus

Obs.

Plate Holder

Configuration

Remarks

13220 ✓ Ross 779 (11.9m) 21:45 NOV 17 0-18 8 8 20W 1.2 ✓

PM 1 ✓ Ross 245 23:25 +48:58 " 1-12 20 25E 0.7 ✓

2 ✓ BD+23°123 0:51 +23:45 " 3-20 6 17W 0.7 ✓

PM 3 ✓ Ross 571 3-21 " 5-00 12 32E 1.0 ✓

PM 4 ✓ Ross 376 3-25 " 5-41 7 2W 1.2 ✓

PM 5 ✓ Ross 65 5-19 " 6-35 8 58E 1.2 ✓

PM 6 ✓ Wolf 1452 5-28 " 7-28 8 12W 1.0 ✓

PM 7 ✓ L1003-36 21-44 Nov 20 23-35 12 7E 1.0 ✓

8 ✓ ADS 16644 23-15 Nov. 21 0-33 20 38E 1.0 ✓

9 ✓ Ross 248 23-39 " 1-37 8 1W 1.2 ✓

SPP 0 359 1+ 1+ 2+ 0° -99.5 BR IV 1 " 995

SPP 0 180° 1+ 1+ 2+ 0° 99.5 BR III 2 " CLOUDS 996

SPP 3 0° 1+ 1+ 2+ 0° 99.5 BR III 2 " CLOUDS 996

ALL FRESH

SPP 0 0° 2- 2- 3 " Ha III-2 ; 997

SPP 0 0° 2- 2- 3 " Ha III-2 ; 997

SPP 0 0° 1+ 2- 3 " Ha IV-1 ; no more on this! 998

SPP 0 0° 1+ 2- 3-0 " Ha IV-2 ; Clouds 999

ALL FRESH EXCEPT 1 EXP. ON IV-2

I-G 0 0° 2 2 1 +3°/100.0 Ha II-1 ; 1000

SPP 4.5 270° 2 2 1 " Ha IV-2 ; Thick! 999

SPP 0 0° 2- 2- 2 " Ha IV-1 ; 1001



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		
13230	✓ R 181, 210	0-8	Nov 21	2-09	10 10 10	0	g	1.2
1	✓ BD+23° 123	0-51	"	2-55	5 5 5	5W	g	1.2
2	✓ α Pisc	1-59	"	3-28	5 5 5	29E	g	1.2
3	✓ α Pisc	1-59	"	3-43	5 5 5	14E	g	1.2
4	✓ α Pisc	1:59 +2:31	"	4-07	5 5 5	11W	g	1.2
PM 5	✓ KARPOV 37	3:20 +23:49	"	5-05	9 9 9	11E	ng	0.0
PM 6	✓ ROSS 388	5:06 +15:25	"	6-51	20 20 20	11E	g	1.0
PM 7	✓ ROSS 413?	6-04	NOV 29	7-23	5 5 5	6E	ng	0.0
8	✓ ROSS 986	7-07	"	8-23	9 9 9	10E	g	1.2
9	✓ ROSS 882	7-42	"	9-33	8 8 8	26W	g	1.2

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
SPP	1.0 on ready #	180°	2	2	1	+3°/1000	Ha	IV-1	::		1001
											IV-1, IV-2 Fresh
SPP	3.0	0°	2	2	2	"	Ha	IV-1	::		1002
I-G	7.5	0°	2	2	1	"	Ha	II-2	::	} May be faded	1003
I-G	7.5	0°	2	2	1	"	Ha	II-2	::		1003
I-G	7.5	0°	2	2	1	"	BR	III-2	::		1004
I-G	1.0	0°	1	1	1	"	BR	III-2	::	Too faint	1004
I-G	0	0°	1	1	1	"	BR	II-1	::	II-1, II-2 # III-2 FRESH	1005
I-G	0	0°	1	1	2	-10°/97.8	Ha	II-1	::	Displaced	1005
I-G	0.5	0°	2	1	2	"	Ha	II-1	::	Moon Very Bright	1005
I-G	1.0	0°	1	1	2	"	Ha	II-2	::		1006



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle	Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp °C	Focus	Obs.	Plate Holder	Configuration	Remarks
13240 PM	WOLF 990	22:04 +3:11	NOV 29	23-57	20-20	31W	g	1.0		I-G 0 0 2-2-3		<sup>-10</sup> 97.7	BR III-2	...				1007
1	ADS 16644	23:15 -14:08	NOV 30	1-20	20-20	45W	g	1.0		ESPP 4.5 270 2- 2- 3		"	BR IV-1	...				1002
2	BD +23° 123	0:51 +23:45	"	2-40	5-5 5-5	29W	g	1.4		SPP 3.0 0° 2- 2- 3		<sup>77.3</sup> -13 97.3	BR IV-2	::	TRAIL			1008
3	α PISC	1:59 +2:31	"	3-20	5-5 5-5	20W	g	1.4		I-G 8.0 0° 2- 2- 3		"	BR III-2	::				1007
4	Ross 570	3-16	"	4-30	5 5 5	8E	g	1.0		I-G 1.0 0° 1+ 2- 3		"	Ha III-2	::				1009
5	OS 82	4-20	"	5-05	7 7 7	35E	g	1.2		I-G 4.5 0° 1+ 2- 3		"	Ha III-2	::	Trail			1009
6	ε Aur	4-58	"	5-35	1/2 1/2 1/2 1/2	46E	g	1.4		SPP 6.0 0° 2- 2- 3		"	Ha IV-1	::				1010
7	ε Aur	4-58	"	5-37	1/2 1/2 1/2 1/2	44E	g	1.4		SPP 6.0 0° 2- 2- 3		"	Ha IV-1	::	Trail f reversed			1010
8	β 552	4-49	"	6-03	3 3 3	81E	g	1.2		I-G 4.5 90° 1+ 2- 3		"	Ha II-1	::				1011
9	β 552	4-49	"	6-12	3 3 3	1W	g	1.2		I-G 4.5 90° 1+ 2- 3		"	Ha II-1	::	Trail g reversed			1011

ALL Fresh but IV-2



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle	Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
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1325	✓ Ross 48	5-37	Nov. 30	7-05	7	6W	g	1.2	I-G	1.0	0°	1+	2-3	-13°/97.3	Ha	II-2	∴	1012		
PM	✓ Ross 414	6-07	"	7-44	4	14W	f	1.0	I-G	0	0°	1+	1+	3	"	Ha	II-2	∴	1012	
					4				ALL FRESH BUT II-2											
	✓ Ross 882	7-42	"	9-57	10 <sup>10</sup>	5W	g	1.2	IG	1.0	0	1	1	3	-15/97.0	DH	II-2	∴	1013	
	✓ Ross 686-7	8-58	Nov 30	10-47	12	12	3IE	g	1.0	IG	0.5	0	1	1	3		DH	II-1	∴	1014
	✓ ADS 10644	23-15	Nov. 30 (Ha) Dec-1 (DM) Nov 30	23-45	20	44E	g	1.0	SPP	4.5	270°	2	1	2	-10°/97.8	Ha	IV-1	∴	Trailing 1015	
	✓ Ross 248	23-39	DEC-1	0-37	7	20E	g	1.2	SPP	0	0°	2-2	1	2	"	Ha	IV-1	∴	1015	
	✓ CR, 187, 210	0-08	"	1-25	10	3E	g	1.2	SPP	1.0 on ready	180°	2-1	1	2	"	Ha	IV-2	∴	1008	
					10				ALL FRESH EXCEPT 2 EXP ON II-1											
PM	✓ Ross 566	3:45 +55:53	"	5-02	6	6	1W	g	1.4	I-G	1.0	180°	2-	2-	2	"	BR	II-2	∴	1013
PM	✓ EEAJ 1090	4:54 +50:54	"	5-55	10	10	15E	g	1.2	I-G	1.5	180	1	1	2	"	BR	II-2	∴	1013
PM	✓ B21+79355	6:47 +47:27	"	7-22	6	6	41E	g	1.4	I-G	3.0	180	1	1	2	"	BR	II-1	∴	1016

Nov. PM 18  
 MR 6  
 11 19 M-7 E-12  
 Total 43



No.

Star

R.A.  
Dec.

Date  
(U.T.)

Middle  
of  
Exposure

Exp.  
in  
Minutes

Hour  
Angle

Emulsion

Sector

PA.

Definition

Steadiness

Transparency

Temp. °C

Focus

Obs.

Plate  
Holder

Configuration

Remarks

13260 ✓ Ross 986 7h 7m Dec 1 8-20 9 9 8E g 1.2

1 ✓ Ross 882 7-42 " 9-05 8-8 8W g 1.0

2 ✓ Ross 683 8-48 " 9-56 8 8 8E f 1.0

PM 3 ✓ Ross 797 5:51  
-14:23 Dec 6 7-00 8 8 13W f 1.0

4 ✓ BD+36°1638 7:28  
+36:20 " 7-50 5-5 34E g 1.0

5 ✓ BD+36°1638 7:28  
+36:20 " 8-05 5-5 19E g 1.0

6 ✓ L1866-6 8:31  
+68:14 " 9-20 6 6 6E g 1.4

7 ✓ U MAJ 9:06  
+63:43 " 10-03 0 6 2W g 1.4

8 ✓ L113-55 10:33  
+5:23 " 11-33 15-15 5W f 0.7

9 ✓ Ross 104 10:57  
+23:06 " 12-12 8-8 20W f 0.7

ALL  
FRESH  
IV-1, IV-2 SPP  
II-2, II-1, II-2 IG

IG 0.5 0 1 1 2 -10° 97.8 DH II+ . . Windy! 1016

IG 1.0 0 1 2 2 " DH II-2 . . 1017

IG 2.0 0 1 2 2 -79.5 DH II-2 . . 1017

IG 1.5 0 2- 2 2 -2/99.2 BR II-1 . . Windy! 1018

SPP 0 0 2- 2 2 " BR IV 1 . . 1019

SPP 1.5 0 2- 2 2 " BR IV-1 . . Windy! 1019

IG 0.5 180 2- 2- 2 " BR II 1 . . 1018

IG 7.0 180 2- 2- 2 " BR II-2 . . 1020

SPP 1.0 0° 2- 2- 2 -4/95.8 BR IV-2 . . 1021

SPP 2.0 0° 2- 2- 2 " BR IV 2 . . 1021



No.

Star

R.A.  
Dec.

Date  
(U.T.)

Middle  
of  
Exposure

Exp.  
in  
Minutes

Hour  
Angle

1327	0 ✓	β 543	3-55	Dec 14	4-31	6	18 W	g	1.2
MR						6			
						6			
PM	1 ✓	BD+19°869	5-07	"	5-26	4	10 E	f	1.0
						4			
						4			
PM	2 ✓	near BD+19°869	5-07	"	5-50	6	12 W	f	1.0
						6			
						6			
PM	3 ✓	Wolf 1058	6-08	"	6-40	8	6 W	g	1.2
						8			
						8			
MR	4 ✓	Procyon	7-37	"	8-14	4	2 W	g	0.7
						2			
						2			
MR	5 ✓	Procyon	7-37	"	8-21	22	9 W	g	1.0
						14			
						14			
	6 ✓	ε Ursa Maj	9-09	"	9-05	X66	31 E	ng	0.0
	7 ✓	BD+23°123	0-51	Dec. 15	0-20	5	54 E	g	1.2
						5			
						5			
	8 ✓	Wolf 1516	1-15	"	1-17	35	23 E	g	0.7
						25			
						25			
Misc	9 ✓	Pleiades	3-42	"	4-09	1	1 E	g	1.
						3,6			

ALL FRESH EXCEPT  
 1 EXP ON II-2  
 II-1, IV-2 SPP  
 I-1, II-2, III-2, IG

SPP	3.0	0°	2	2	2	-30	99.0	Ha	IV-1	::	1022
								Ch			
I-G	1.5	0°	2	2	2	"		Ha	II-2	::	1020
								Ch			
I+G	0.5	0	2	2	2	-30	99.0	Ha	II-1	::	1023
								Ch			
IG	0.5	0	2	3	3			DH	II-1	::	1023
IG	Spec, 340	2	2	2				DH	II-2	::	1024
											sector stopped
IG	Spec, 340	2	2	2				DH	II-2	::	1024
#2 Missing	IG	7.0	180°	2	2	1		DH	II-1	x...	Clouds 1023
SPP	3.0	0°	2	2	2	+10	99.6	Ha	IV-1	::	Trail g 1022
											windy
I-G	0	0°	2	2	2	"		Ha	III-2	:	Clouds 1025
I-G	0	0°	2	2	2	"		Ha	II-1	::	* 1026

\* To Test speed of II-G plates



1328	0 ✓	Pleiades	3 <sup>h</sup> 42	Dec 15	4-21	6, 3	11W	f	
	MISC.					1			
PM	1 ✓	BD+54° 886	5-19	"	5-02	6 6	46E	g	1.2
PM	2 ✓	Wolf 272	6-07	"	5-42	7 7	49E	g	1.2
PM	3 ✓	Wolf 273	6-08	"	6-14	7 7	12W	g	1.2
	4 ✓	ZV Maj	9-07	"	9-09	666	20E	ng	0.0
	5 ✓	Ross 248	23-39	Dec. 16	23-40	7 7	15E	g	1.2
	6 ✓	CR 181, 210	0-08	Dec. 17	0-27	10 10 10	8E	g	1.0
	7 ✓	Wolf 1516	1-15	"	1-31	36 36	1W	g	1.0
	8 ✓	α Pisc	1-59	"	2-50	5 5	35W	g	1.2
	9 ✓	α Pisc	1-59	"	3-05	5 5 5	50W	g	1.2

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
f ✓	II-G	0 0°	2- 2- 2-	2-	+10°/99.6	Ha	IV-1	••	*	Windy	1027
✓	I-G	0 180°	2- 2- 2-	2-	"	Ha	III-2	••			1025
✓	IG	0 10°	2- 2- 2'	2'	"	Ha	II-2	••			1028
✓	IG	0 10°	2- 2- 2'	2'	"	Ha	II-2	••			1028
IV-1 IV-2 } Fresh III-2 }	IG	0 10°	2- 2- 2'	2'	"	DH	II-2	••			1028
#2 missing	IG SPP	7.0 180°	2- 2- 2 <sup>+</sup>	2 <sup>+</sup>	"	DH	VI	••			1029
✓	SPP	0 0°	2- 2- 3	3	-6°/98.4	Ha	IV-1	••		Trail	1029
✓	SPP	1.0 on ready* 180°	2- 2- 3	3	"	Ha	IV-2	••		Trail	1030 +61° 0 <sup>h</sup> 08 <sup>m</sup>
✓	I-G	0 0°	2- 2- 3	3	"	Ha	III-2	••		Trail	1032
✓	I-G	8.0 0°	2- 2- 3	3	"	Ha	II-1	••			1031
✓	I-G	8.0 0°	2- 2- 3	3	"	Ha	II-1	••		Trail	1031 strong reversed.

\* To Test speed of II-G plates  
(II-G come out faster than I-G)



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle				Emulsion	Sector	P.A.	Definition	Steadiness	Transparency	Temp °C	Focus	Obs	Plate Holder	Configuration	Remarks
-----	------	--------------	----------------	--------------------------	-----------------------	---------------	--	--	--	----------	--------	------	------------	------------	--------------	---------	-------	-----	-----------------	---------------	---------

1329	0 ✓	Ross 578	3-36	Dec. 17	3-50	10 10 10	LE	g	1.0	✓	I-G	0°	2	2	3	-8°/98.4	Ha	III-2	:	1032		
MR	1 ✓	ε Aur	4-58	"	4-48	1/2, 1/2 1/2, 1/2	19E	g	1.4	✓	SPP	6.0	0°	2	2	3	-9°/98.0	Ha	IV-2	::	1030	
MR	2 ✓	ε Aur	4-58	"	4-51	1/2, 1/2 1/2, 1/2	22E	g	1.4	✓	SPP	6.0	0°	2	2	3	"	Ha	IV-2	::	1030	
MR	3 ✓	ο 582	4-20	"	5-14	6 6 6	40W	ng	0.0	✓	wrong field	I-G	4.5	0°	2	2	3	"	Ha	II-2	:	1033
MR	4 ✓	β 552	4-49	"	5-42	3,3 3,3	36W	f	1.2	✓	I-G	4.5	90°	2	2	3	"	Ha	II-2	::	1033	
	5 ✓	Wolf 1516	1-15	Dec. 20	1-25	36 36	7W	g	1.0	✓	I-G	0	0°	2	2	3	-3°/99.0	Ha	II-1	:	1034	
	6 ✓	Wolf 134	3-10	"	2-45	25 25	28E	g	1.0	✓	I-G	0	0°	2	2	2	"	Ha	III-2	:	1035	
	7 ✓	Ross 578	3-36	"	3-40	14 14	0	g	1.0	✓	I-G	0	0°	2	2	1	"	Ha	III-2	::	1035	
PM	8 ✓	Ross 389	5-09	"	5-16	8 8 8	0	g	1.2	✓	I-G	1.5	0	2	2	2	"	Ha Ch	II-1	:	1034	
PM	9 ✓	EEAJ 1090	6-18 +48°48'	"	6-6	7 7 7	16E	g	1.2	✓	I-G	1.5	180	2	2	2	"	Ha Ch	III-2	::	1036	







No.

Star

R.A.  
Dec.

Date  
(U.T.)

Middle  
of  
Exposure

Exp.  
in  
Minutes

Hour  
Angle

Emulsion

Sector

P.A.

Definition

Steadiness

Transparency

Temp °C

Focus

Obs.

Plate  
Holder

Configuration

Remarks

13310	✓ WOLF 1539	4:49 +6:24	DEC 28	4:13	<sup>10</sup> 10 10	7E	g	1.2	✓	SPP	0.5	0	2-	2-	2-	-1°/99.3	BR IV-1	1042
PM 1	✓ ROSS 797	5:51 -14:23	"	5:24	8 <sup>8</sup> 8	2W	g	1.2	✓	IG	1.5	0	2-	2-	2-	"	BR III-2	1043
PM 2	✓ ROSS 414	6:07 -8:57	"	5:53	4 <sup>4</sup> 4	19W	g	1.4	✓	IG	0	0	2-	2-	2-	"	BR II-2	1041
PM 3	✓ Ross 54	7-01	"	6-32	3,3 3,3	0	g	1.4	✓	I-G	0	0°	2-	2-	2-	"	Ha III-2	1043
MR 4	✓ Procyon	7-37	"	7-10	3,5 3,5	4W	g	1.4	✓	SPP	double Sector	340°	2-	2-	2-	"	Ha IV-2	1044
MR 5	✓ Procyon	7-37	"	7-26	5,5 3,1,3	20W	g	1.4	✓	SPP	double Sector	340°	2-	2-	2-	"	Ha IV-2	reversed 1044
6	✓ Ross 686-7	8-58	"	8-38	12 12	10W	g	1.0	✓	I-G	0.5	0°	2-	2-	2-	-5°/98.7	Ha II-1	Trail g 1045
7	✓ BD = 12° 29' 18"	9-29	"	9-09	4 4 4	10W	g	1.2	✓	I-G	1.0	0°	2-	2-	2-	"	Ha II-1	1045
8	✓ L 1113-55	10-34	"	9-45	14 14	19E	g	1.0	✓	SPP	1.0	0°	2-	2-	2-	"	Ha IV-1	Trail g 1042
9	✓ Ross 104	10-57	"	10-25	8 8 8	2W	g	1.2	✓	SPP	2.0	0°	2-	2-	2-	"	Ha IV-2	Trail g 1046

All fresh but  
1 exp on IV-1



No.

Star

R.A. Dec.

Date (U.T.)

Middle of Exposure

Exp. in Minutes

Hour Angle

13320 MR	✓ NEPTUNE	12 <sup>h</sup> 49 <sup>m</sup> -3 <sup>o</sup> 25	Dec. 28	11:23	4 4 4	36W	g	1.2
1	✓ "	"	"	11:36	4 4 4	46W	g	1.2
2	✓ Wolf 437	12-45	"	12-05	12	11E	g	1.0
3	✓ Ross 15	1-52	1948 Jan. 8	0-04	6 6 6	42E	g	1.2
4	✓ Ross 15	1-52	"	0-24	6 8 8	22E	g	1.2
5	✓ Wolf 1322	3-57	"	2-30	10 10 10	14E	g	1.2
6	✓ Wolf 1539	4-49	"	3-25	9 9 9	12E	g	1.2
7	✓ L737-1	5-06	"	4-08	6 6 6	12W	g	1.2
MR 8	✓ NEPTUNE	12 <sup>h</sup> 49 <sup>m</sup> -3 <sup>o</sup> 25	"	11 <sup>h</sup> :30	4 4 4		ng	0.0
MA 9	✓ NEPTUNE	"	"	11:47	4 4 4		ng	0.0

Dec PM 17  
MR 16  
M 35

Total 68

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
IG 3.5	0	2 <sup>-</sup>	2 <sup>-</sup>	2 <sup>-</sup>	-5/98.7		Ch III 2	.			1047
IG 3.5	0	2 <sup>-</sup>	2 <sup>-</sup>	2 <sup>-</sup>			Ch III 2	.			1047 REVERSED
I-G 1.5	0°	2 <sup>-</sup>	2 <sup>-</sup>	2 <sup>-</sup>			Ha II-2	.			Trail g 1048
ALL FRESH EXCEPT 1 EXP. ON II-2											
SPP 0	180°	2 <sup>+</sup>	2 <sup>+</sup>	2 <sup>-</sup>	00/99.5		Ha Du* IV-1	.			1049
SPP 0	180°	2 <sup>+</sup>	2 <sup>+</sup>	1 <sup>+</sup>			Ha Du IV-1	.			reversed. Clouds 1049
I-G 0	0°	2	2	2 <sup>-</sup>			Ha Du II-2	.			1048
SPP 0.5	0°	2	2	3			Ha Du IV-2	.			1046
I-G 1.5	0°	2 <sup>-</sup>	2 <sup>-</sup>	2 <sup>-</sup>			Ha II-1	.			OK trial plate 1050
ALL FRESH EXC. (EXP. ON II-1 AND IV-2)											
IG 3.5	0°	2 <sup>-</sup>	2 <sup>-</sup>	3	-1.6/99.2		Br Ch III 2	.			1051 11:24-36 cor = -155
IG 3.5	0°	2 <sup>-</sup>	2 <sup>-</sup>	3			Br Ch III 2	.			1051 11:41-53 REVERSED

\* Douglas Duke



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		Emulsion	Sector	P.A.	Definition	Steadiness	Transparency	Temp °C	Focus	Obs.	Plate Holder	Configuration	Remarks
13330 PM	✓ Ross 413	6:03 +4:32	JAN-9	4:22	5 5 5 5	25 E	p	0.5	✓ Too faint	I-G -	0	2-2-	1+	+1.5 99.8	BR	II-1	::	PALLING CLOUDS 1050	
PM	✓ BD-0°520	6:56 -0:24	"	5:12	10 10 10	27 E	g	1.2	✓	I-G 3.5	0	2-2-	1+	"	BR	II-2	::	1052	
MR 2	✓ 5 Canc	8:09 +17:48	"	6:05	1 1 1 1	47 E	g	1.4	✓	SPP 5.0	0	2-2	1+	0.8/100.2	DH	IV-1	::	1053	
MR 3	✓ 5 Canc	8:09 +17:48	"	6:15	1 1 1 1	37 E	g	1.4	✓	SPP 5.0	0	2-2	1+	"	DH	IV-1	::	1053 Reversed	
4	✓ BD-122918	9:28 -13:14	JAN 10	8:23	4 4 4 4	16 W	g	1.4	✓	I-G 1.0	0	2-2-2-		-2.2 99.1	BR	II-1	::	1054	
5	✓ L 897-16	10:37 -6:39	"	9:07	4 4 4 4	8 E	g	1.4	✓	I-G 0.50	2-2-2-		"		BR	II-1	::	1054	
6	✓ WOLF 359	10:54 +7:20	"	10:09	2 5 2 5	36 W	g	1.0	✓	I-G -	0	2-2-2-		"	BR	II-2	::	1055	
7	✓ WOLF 437	12:45 +10:16	"	11:05	1 2 1 2	19 E	f	0.7	✓ faint	I-G 1.5	0	2-2-2-		-4 98.6	CH BR	II-2	::	1055 CHANG GUIDED	
MR 8	✓ NEPTUNE	12:50 -3:25	"	11:35	4 4 4 4	8 W	g	1.2	✓	I-G 3.5	0	2-2-2-		"	BR CH	III 2	::	1056	
MR 9	✓ NEPTUNE	"	"	11:51	4 4 4 4	24 W	g	1.2	✓	I-G 3.5	0	2-2-2-		"	BR CH	III 2	::	1056	

ALL FRESH EXCEPT  
1 EXP. ON IV-2

ALL FRESH EXCEPT  
1 EXP. ON IV-2



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
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13340	WOLF 1322	3:56 +25:58	JAN 14	2:20	10-10	0	g	1.0	✓	I-G	0°	1	1	2	-10.6 97.7	BR II-1	••	GUIDE LIGHT OUT 1057
PM 1	ROSS 62	6:04 +26:35	"	4:30	25	1W	g	1.0	✓	I-G	0°	1	1	2	"	BR II-1	:	1057
MR 2	5 Canc	8:09 +17:48	"	6:35	1	2W	g	1.4	✓	SPP 5.0	0°	1	2	2	-17.4 97.2	DH IV-1	::	1058
MR 3	5 Canc	8:09 +17:48	"	6:39	1	6W	g	1.4	✓	SPP 5.0	0°	1	2	2	"	DH IV-1	::	1058 Reversed
4	BD-12018	9-29	"	8-53	4	59W	g	1.2	✓	I-G 1.0	0°	1+	2	2	-17° 96.5	Ha II-2	::	1059
5	L897-16	10-37	"	9-24	7	22W	g	1.2	✓	I-G 1.0	0°	1+	2	2	"	Ha III-2	::	Windy! Cold! 1060
6	L897-16	10-37	"	9-45	7	43 W	g	1.2	✓	I-G 1.0	0°	1+	2	2	"	Ha III-2	::	reversed Trail f 1060
7	Ross 128	11-45	"	10-24	4	16 W	g	1.2	✓	I-G 0.5	0°	1	2	2	"	Ha II-2	::	1059
8	Ross 128	11-45	"	10-36	4	28 W	g	1.2	✓	I-G 0.5	0°	1	2	2	"	Ha II-2	::	1059 reversed Trail Too Strong
MR 9	NEPTUNE	12:50 -3:25	"	11 <sup>h</sup> 26 <sup>m</sup> 34 <sup>s</sup>	5	35	g	1.2	✓	IG 3.5	0°	1	2	2	"	Ch II-1	::	1061

All fresh

605

5:20  
4:25 - 5:15



1335 0	NEPTUNE	12:50 -3:25	Jan 14	11 <sup>h</sup> 48 <sup>m</sup> 44	9	1.2	
MR							
1	L1194-26	13-27	"	12-20 7 7	9	1.2	30W
2	Ross 15	1-54	Jan 15	0-15 8 8	9	1.2	1W
3	d Pisc	1-59	"	1-0 5 5	9	1.2	40W
4	2 Pisc	1-59	"	1-15 5 5	9	1.2	50W
5	Ross 128	11:45 +11:07	JAN 16	10:00 5 5 5 5	9	1.4	0
MR 6	NEPTUNE	12:50 -3:25	"	10:46 :25 4 4	9	1.2	15 E 16:40-10:52 +25d
MR 7	NEPTUNE	12:50 -3:25	"	11:02 :25 4 4	9	1.2	0 10:56-11:08
8	L1194-26	13:26 +11:43	"	11:48 7 7 7 7	9	1.4	7W
9	AC 25° 6' 25"	2:6 +25:02	JAN 17	0:30 15 15	9	0.0	11W

✓	IG 3.5	0	1	2	2	-17/96.5	Ch II 3	REVERSED 1061	
✓	I-G 0	0°	1	1	2	"	Ha II-2	1062 Trial OK	
✓	SPP 0	180°	1+	1	3	-12/97.2	Ha Du IV-1	1063	
✓	I-G 8.0	0°	2	1	3	"	Ha Du III-2	1064	
✓	I-G 8.0	0°	2	1	3	"	Ha Du III-2	reversed Trail 1064 9	
✓	I-G 0.5	0°	1+	1+	2-	-11.4/97.5	BR II 2	1062	
ALL FRESH EXC. 1 EXP. ON IV-1									
✓	I-G 3.5	0	1	1	2-	"	Ch II 2	1065	
✓	I-G 3.5	0	1	1	2-	"	Ch II 2	1065 Reversed	
✓	I-G 0	0	1	1	2-	"	BR II-1	1066	
ALL FRESH EXCEPT 1 EXP. ON II-1 & IV-1									
✓	I-G 16	0	1+	2	2	-16.6/96.7	ST. II-1	1066	
IV-1, IV-2 SPP II-1, II-2, III-2 IG Displaced									



No.

Star

R.A.  
Dec.

Date  
(U.T.)

Middle  
of  
Exposure

Exp.  
in  
Minutes

Hour  
Angle

Emulsion

Sector

P.A.

Definition

Steadiness

Transparency

Temp. °C

Focus

Obs.

Plate  
Holder

Configuration

Remarks

No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle	Emulsion	Sector	P.A.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks	
13360	Wolf 134	3:10 -18:40	Jan 17	01-40	25-25	18W	p	0.5	✓	Too faint	16	0	0	1+	2	2+	ST II-1	1066 Faded faint	
1	Wolf 1539	4:49 +6:24	"	03-28	10-10 10	27W	g	1.2	✓		ESP 0.5	0	1+	2	2+	-17.3	ST N-1	1063 Took 30 log. work working!	
2	U Maj	9-07	"	7-13	6 6 6	2E	p	0.3	✓		I-G	7.0	180°	1+	1+	2+	-20° 96.2	Ha II-2	1067 Sector trouble Windy!!
3	Wolf 359	10-54	"	8-39	25 25	27E	g	1.0	✓		I-G	0	0°	0+	1	2+	"	Ha II-2	1067
4	Wolf 437	12-45	"	10-45	10 10	45E	g	1.0	✓		SPP	1.5	0°	2+	1	2+	"	Ha IV-2	1068 Sector trouble.
MR 5	NEPTUNE	12:50 -3:25	"	11:11 25s	4 44	11W	g	1.2	✓		IG	3.5	0°	1	1	2	"	Ch III-2	1069 Sector stops once or while
MR 6	NEPTUNE	12:50 -3:25	"	11:31 25s	4 44	20W	g	1.2	✓		IG	3.5	0°	1	1	2	"	Ch III-2	1069
ALL FRESH EXCEPT 1 EXP. ON IV-2																			
7	Ross 15	1-54	Jan. 18	0-6	8 8 6	3W	g	1.2	✓		SPP	0	180°	2	2	2	-180° 96.5	Ha IV-2	1068
8	AC 25° 6725	2-06	"	0-44	20 20	34W	g	1.0	✓		I-G	0	0°	2	2	2	"	Ha II-1	1070
9	Wolf 1322	3-57	"	2-00	10 10 10	6E	g	1.2	✓		I-G	0	0°	1+	2	2	"	Ha II-1	1070



No.

Star

R.A.  
Dec.

Date  
(U.T.)

Middle  
of  
Exposure

Exp.  
in  
Minutes

Hour  
Angle

g 1.0

Emulsion

Sector

P.A.

Definition

Steadiness

Transparency

Temp. °C

Focus

Obs.

Plate  
Holder

Configuration

Remarks

13370 ✓ Wolf 237 5-43 Jan. 18 3-23 9 28E g 1.0 ✓

MR ✓ 5 Canic 8-09 " 6-04 11 13W g 1.4 ✓

MR 2 ✓ 5 Canic 8-09 " 6-08 11 9W g 1.4 ✓

3 ✓ WOLF 359 10:54 +7:20 " 9:00 25 0 g 1.0 ✓

PM 4 ✓ L901, 10 11:56 -7:06 " 10:33 55 35W g 1.4 ✓

MR 5 NEPTUNE 12:50 -3:23 " 11:8 3 3 14W ng+20s 0.0 ✓

MR 6 NEPTUNE " " 11:26 333 29W ng+20s 0.0 ✓

PM 7 Ross 843 14:06 -10:32 " 12:20 12-12 7W g 1.0 ✓

8 ✓ Ross 42 5:29 +9:47 JAN 22 3:31 8-8 10W g 1.2 ✓

PM 9 ✓ Ross 988 7:24 +38:05 " 4:40 40 39E g 0.7 ✓

I-G 0 0° 2-2-2 -180/96.5 Ha II-2 ∴ 1071

SPP 5.0 " " " " " DH ~~IV~~ ∴ Sector 1072 Working Poorly

SPP 5.0 " " " " " DH ~~IV~~ ∴ Reversed 1072

IG 0 0° 2-2-3 " BR II-2 ∴ 1071

ALL FRESH

IG 0 0° 2-2-3 " BR II-1 ∴ 1073

Nep. Too bright IG 0 0° 2-2-3 " Ch III ∴ Sector 1074 did not work

IG 0 0° 2-2-3 " Ch III ∴ 1074

I-G 0 0° 2-2-3 " BR II-1 ∴ 1073

ALL FRESH

I-G 1.0 0 1 1 2+ -10.4/97.7 BR DU II-1 ∴ 1075

I-G 0 0 1 1 2+ -14.4/97.0 BR II-1 ∴ 1075



1338 MR	0 ✓	♄ CANCRI	8:09 +17:48	JAN 22	5:36	1 1	26 E	g	1.4	✓	SPP 5.0	0	1	1	2+	-14.4 97.0	BR	IV-1	1076	
MR	1 ✓	♄ CANCRI	8:09 +17:48	"	5:43	1 1	19 E	g	1.2	✓	SPP 5.0	0	1	1	2+	"	BR	IV-1	1076 Sector STOPPED	
MR	2 ✓	♃ NEPTUNE	12:50 -3:25	"	11:12 30 <sup>s</sup>	3 3	30 W	ng	11:08-11:17 0 <sup>s</sup> 0.0	✓ π too bright	IG	0	0	1	1	2+	-18° 96.5	Ch	III-2	1077 Sector stopped
MR	3 ✓	♃ NEPTUNE	12:50 -3:25	"	11:25 30 <sup>s</sup>	3 3	43 W	ng	11:21-11:30 0 <sup>s</sup> 0.0	✓ "	IG	0	0	1	1	2+	"	Ch	III-2	1077
	4 ✓	BD-11° 3759	14-29	"	12-00	5 5	23 E	g	1.2	✓	I-G	0	0°	1+	2	3	"	Ha	II-2	1078
	5 ✓	BD-11° 3759	14-29	"	12-15	5 5	8 E	g	1.2	✓	I-G	0	0°	1+	2	3	"	Ha	II-2	1078
	6 ✓	Wolf 1539	14-49 +16:24	JAN 23	2-47	10 10	10 W	g	1.2	✓	SPP	0.5	0°	2	2+	2	-14.0 97.0	Ha Du	IV-1	1079
	7 ✓	Ross 42	5-29	"	3-30	7 7	12 W	g	1.2	✓	I-G	1.0	0°	2	2	2	"	Ha Du	II-1	1080
MR	8 ✓	♄ Cancri	8-09	"	5-20	1, 1	35 E	g	1.4	✓	SPP	5.0	0°	2	2	2	"	Ha	IV-2	1081
MR	9 ✓	♄ Cancri	8-09	"	5-25	1, 1	30 E	g	1.4	✓	SPP	5.0	0°	2	2	2	"	Ha	IV-2	1081 reversed Trail=f

ALL FRESH



13390	✓ WOLF 359	10:54 +7:20	JAN 23	8:54	25 25	11W	g	1.0	✓	All fresh but leyp on II-1	IG	0	0	2	2	2	-18.4 16.3	BR	II-1	1080
PM 1	✓ ROSS 117	11:44 +12:16	"	10:07	12 12	36W	g	1.0	✓		IG	0	0	2	2	2	"	BR	II-2	1082
MR 2	✓ Neptune	12:50 -3:25	"	11:0 35s	4 4	24W	g	1.2	✓		I-G	3.5	0	2	2	2	"	Ch	III-2	1083
MR 3	✓ Neptune	12:50 -3:25	"	11:21 35s	4 4	45W	g	1.2	✓		IG	3.5	0	2	2	2	"	Ch	III-2	1083 Reversed
4	✓ ROSS 1041	14:52 +35:47	"	12:17	15	22E	g	0.7	✓	Displaced	IG	0	0	2	2	2	"	BR	II-2	1082
5	✓ Waef 134	3:10.2 +18:40	JAN 24	00:45	25 25	10E	g	1.0	✓	Displaced	IG	0	0	1	1	2	-14.0/16.3	ST	II-1	1084
6	✓ L737-1	5:06.4 -18:12	"	02:32	6 6	19E	g	1.4	✓		IG	1.5	0	1	1	1	"	ST	II-2	1085 Hole runs slow!
7	✓ Ross 42	5:29 +9:47	"	03:25	5 5	10W	g	1.4	✓		IG	1.0	0	1	1	2	-15.3	ST	III-2	1086
8	✓ Ross 417	6:16.9 -6:37	"	04:27	18-18	26W	g	1.0	✓		IG	0	0	1	1	2	"	ST	II-1	1087 New Plate changed by Brown.
9	✓ BO-12 <sup>o</sup> 2918	9-30	"	8-00	3 2 2	48W	p	0.5	✓	images poorly shaped	I-G	1.0	0°	2	2	1	"	Ha	II-1	1087 Sector stopped



13400	✓ Ross 1003	11-39	Jan 24	9-30	5 5	6 W	g	1.2	✓	I-G	0	0°	2-3	2	2	-160 96.3	Ha	II-2	∴	1088
1	✓ L1194-26	13-27	"	10-35	5 5 5	22 E	g	1.2	✓	I-G	0	0°	2	2	2	"	Ha	II-2	∴	1088
2	✓ AC 25° 6725	2-06	Jan 28	0-16	20 13	45 W	g	1.0	✓	I-G	0	0°	2	2	2	-180 96.5	Ha	III-2	•	Struck Pier 1089
3	✓ Wolf 134	3-10	"	1-12	25 25	43 W	g	1.0	✓	I-G	0	0°	2	2	2	"	Ha	III-2	∴	1089
4	✓ L737-1	5-06	"	2-33	6 6 6	2 E	g	1.2	✓	I-G	1.5	0°	2	2	2	"	Ha	II-1	∴	1090
5	✓ Wolf 237	5-43	"	3-13	9 9 9	0	g	1.2	✓	I-G	0	180°	2-2	2	2	"	Ha	II-1	∴	1090
6	✓ L1750-12	6-41	"	3-57	5 5 5	12 E	g	1.2	✓	I-G	0	180°	2	2	2	"	Ha	II-2	∴	Trial Plate 1091
7	✓ UV Maj	9-07	"	5-53	6 6 6	48 E	f	1.0	✓ Strong All fresh but II-2	I-G	7.0	180°	2	2	2	"	Ha	II-2	∴	Trial f 1091
8	✓ Ross 451	11-37	"	9-16	20 12	11 W	g	1.0	✓	SPP	1.0	180°	2	2	2	-20.5 96.0	Du	IV 1	•	RAW INTO PIER 1092
MR 9	✓ Neptune	12-50 -3-25	"	10:22 45	4 4 4	18 W	g	1.2	✓	I-G	3.5	0°	2	2	2	"	Ch	III 2	∴	1093

10:18 - 10:30  
- 10:33  
10:33 - 10:44  
434



No.

Star

R.A.  
Dec.

Date  
(U.T.)

Middle  
of  
Exposure

Exp.  
in  
Minutes

Hour  
Angle

Emulsion

Sector

P.A.

Definition

Steadiness

Transparency

Temp °C

Focus

Obs.

Plate  
Holder

Configuration

Remarks

No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle	Emulsion	Sector	P.A.	Definition	Steadiness	Transparency	Temp °C	Focus	Obs.	Plate Holder	Configuration	Remarks
13410 MR	✓ Neptune	12:50 -3:25	1948 Jan 28	10:37 15"	4 3	23 <sup>W</sup>	g	1.2	✓	IG	3.5	0°	2 <sup>-</sup> 2 <sup>-</sup> 2 <sup>-</sup>	-20.5 96.0	Ch	III 2	...	Reversed 1093
1	✓ BD -11° 3759	14-32	"	11:44	4	4 10 E	g	1.2	✓	IG	0.0	0°	1 <sup>+</sup> 2 <sup>-</sup> 2 <sup>-</sup>	"	Du	II 1	::	1094
2	✓ L 768-119	15-39	"	12:24	4	4 42 E	g	1.2	✓	IG	0.0	0°	1 <sup>+</sup> 1 <sup>+</sup> 2 <sup>-</sup>	"	Du	II 1	::	1094
3	✓ Wolf 134	3-10 +18° 40'	JAN 29	1:15	25 25	15 W	g	0.7	✓	IG	0.0	0°	2 1 <sup>+</sup> 2 <sup>+</sup>	-11.0 97.7	Du	II 1	::	1095
4	✓ ROSS 42	5 <sup>h</sup> 29 <sup>m</sup> +9° 21'	"	2:25	7	7 29 E	g	1.2	✓	IG	1.0	0°	2 <sup>-</sup> 1 2 <sup>+</sup>	"	Du	II 2	::	1096
5	✓ ROSS 417	6 <sup>h</sup> 17 <sup>m</sup> -6° 37'	"	3:33	18 18	7 E	g	1.0	✓	IG	0.0	0°	2 <sup>-</sup> 2 <sup>-</sup> 2 <sup>+</sup>	"	Du	II 2	::	1096
6	✓ L897-16	10-37	"	8:37	7 7	32 W	g	1.2	✓	I-G	1.0	0°	1 <sup>+</sup> 2 <sup>-</sup> 2 <sup>-</sup>	-14° 97.3	Ha	III-1	::	1097
7	✓ L897-16	10-37	"	8:59	7 7 7	54 W	g	1.2	✓	I-G	1.0	0°	1 <sup>+</sup> 2 <sup>-</sup> 2 <sup>-</sup>	"	Ha	III-2	::	reversed 1097
8	✓ Wolf 437	12-45	"	9:54	12 12	15 E	g	1.0	✓	I-G	1.5	0°	2 <sup>-</sup> 2 <sup>-</sup> 2 <sup>-</sup>	"	Ha	III-2	::	1098
MR 9	✓ Neptune	12-50 -3-25	"	10:27 50"	4 4	26 W	na	10:18-10:30 na +3 <sup>m</sup> 50 <sup>s</sup> 0.0 10:36-10:48	no sector	I-G	0	0°	2 <sup>-</sup> 2 <sup>-</sup> 2 <sup>-</sup>	"	Ch	II	::	1099

ALL FRESH EXG.  
1 EXP. ON IV-1

All fresh except  
1 exp. on IV-1



1342	0 ✓	Neptune	12:50 -3:25	Jan. 29	10:45 50 <sup>s</sup>	4 4	44W	g	1.2	✓	I-G	3.5	0°	2	2	2	-150 97.3	Ch II	...	Reversed	1099
	MR																				
	1 ✓	L1194-26	13-27	"	11-28	7 7	35W	g	1.2	✓	I-G	0	0°	2	2	2	"	Ha III-2	..		1098
	2 ✓	BD-11° 3759	14-32	"	11-55	4 4	1E	g	1.2	✓	I-G	0	0°	2	2	2	"	Ha II-2	..		1100
	3 ✓	L768-119	15-39	"	12-16	4 4	47E	ng	0.0	✓	I-G	0	0°	1+	2	2	"	Ha II-2	..	Down	1100
	4 ✓	Wolf 134	3-10	Feb 1	0-35	25 25	10W	g	1.0	✓	I-G	0	0°	2	2	2	-90 98.2	Ha II-1	..		1101
	5 ✓	L737-1	5-06	"	1-43	5 5 5	36E	g	1.2	✓	I-G	1.5	0°	2.5	2	2	"	Ha II-1	..	Trail	1101
	6 ✓	Wolf 237	5-43	"	2-18	7 7	38E	g	1.2	✓	I-G	0	180°	2	2	2	"	Ha II-2	..		1102
	7 ✓	Ross 417	6-17	"	2-56	15 15	19E	g	0.7	✓	I-G	0	0°	2	2	2	"	Ha II-2	..	Trail	1102
	8 ✓	L1750-12	6-41	"	3-48	4 4	6E	g	1.2	✓	I-G	0	180°	2	2	2	"	Ha III-2	..		1103
	9 ✓	L1750-12	6-41	"	3-59	1.2 4.3	5W	g	1.2	✓	103 a-C	0	180°	2	2	2	"	Ha II-1	..	Test * Plate	1104

Displaced  
ALL FRESH EXCEPT  
1 EXP. ON IV-1

103a-c faster than I-G by 1 1/3 Times

Jan PM 7  
MR 30  
π 32 E 32 M

Total 101



No.

Star

R.A. Dec.

Date (U.T.)

Middle of Exposure

Exp. in Minutes

Hour Angle

ng

0.0

✓ no π stars

Emulsion

Sector

PA.

Definition

Steadiness

Transparency

Temp. °C

Focus

Obs.

Plate Holder

Configuration

Remarks

1343 ✓  
MR Procyon

7-37

Feb 1

4-15

2 1/2 1  
2 1/2 1

27E

ng

0.0

✓ no π stars

SPP

Sp.

340°

2

2

2

-80/98.2

PH

IV-2

∴

1105

trial plates  
to test new  
sector

MR 1 ✓  
Procyon

7-37

"

4-19

1/2 1  
1/2 1

31E

ng

0.0

✓ no π stars

SPP

Sp.

340°

2

2

2

"

Ha  
DH

IV-2

∴

1105

All Fresh

2 ✓  
Ross 451

11-37  
+67°40'

"

9-08

12  
12

15W

g

1.0

✓

SPP

1.0

180°

3

2

2

-11/97.5

Du

IV-1

∴

THIN 1106  
CLOUDS??

3 ✓  
Ross 578

3-35  
-110°35'

Feb 2

0-43

14  
14

15E

g

1.0

✓

IG

0.0

0°

2

2

2

-6/98.5

Du

II-1

∴

1107

MR 4 ✓  
β 543

3h 55m  
-1° 18'

"

1-24

6  
6  
6

20W

g

1.2

✓

IG

3.0

0°

2

2

2

"

Du

J-1

∴

1107

MR 5 ✓  
β 552

4:49.0  
+13°29'

"

2-10

4  
4  
4

11W

f

1.0

images elongated

IG

4.5

90°

2

2

2

"

Du

II-2

∴

1108

6 ✓  
Wolf 237

5h 43m  
+44°08'

"

2-46

9  
9

5E

g

0.7

✓

IG

0.0

180°

2

2

2

"

Du

II-2

∴

1108

7 ✓  
Ross 417

6h 17m  
-6° 36'

"

3-34

15  
15

8W

g

0.7

✓  
All fresh except  
1 exp on IV 1 + 1 on  
III-2

IG

0.0

0°

2

2

2

"

Du

III 2

∴

1109

PM 8 ✓  
L1187-43

1103  
+10°31'

"

7-55

5  
5  
5

18E

g

1.2

✓

IG

0

0

2

2

2

"

DH

III 2

∴

1109

MR 9 ✓  
Neptune

12:50  
-3:25

"

9  
15:44-15:56  
45s

4  
4

8E

g

1.0

✓

IG

3.5

0

2

2

1

"

Ch

II 1

∴

1110

6W 15:56-16:10



1344	0 ✓	Neptune	12:50 -3:25	Feb 2	10:02 45°	4 4	4 4	6 W	g	1.2	✓	IG	3.5	0	2 <sup>-</sup>	2 <sup>-</sup>	1	-6° 98.5	Ch	II <sub>1</sub>	...	Reversed	1110
	MR																						
	1 ✓	Wolf 461	12-56	"	10-45	22	40	W	g	1.0	✓	I-G	0	0°	2 <sup>-</sup>	1	2-0	"	Ha	II-2	:	Clouds!	1111
						16																	
	2 ✓	Ross 1003	11-39	Feb. 8	8-26	4	1	W	g	1.0	✓	I-G	0	0°	2 <sup>-</sup>	2	3	-15° 97.0	Ha	II-2	..		1111
						4																	
	3 ✓	Ross 1003	11-39	"	8-34	4	9	W	g	1.0	✓	I-G	0	0°	2 <sup>-</sup>	2	3	"	Ha	II-2	..	reversed	1111
						4																	
	4 ✓	Wolf 437	12-45	"	9-10	12	20	E	g	1.0	✓	I-G	1.5	0°	2 <sup>-</sup>	1	3	"	Ha	II-1	:		1112
						12																	
	5 ✓	Neptune	12:50 -3:25	"	10:16 10°	4 4	42	W	g	1.2	✓	I-G	3.5	0	1	1	3	"	Ch	III <sub>2</sub>	..		1113
	MR																						
	6 ✓	Neptune	12:50 -3:25	"	10:32 40°	4 4	58	W	g	1.2	✓	I-G	3.5	0	1	1	3	"	Ch	III <sub>2</sub>	...	reversed	1113
	MR																						
	7 ✓	VAD 9476	14-58	"	11-23	12	18	E	g	1.0	✓	SPP	3.5	0°	2 <sup>-</sup>	1	3	"	Ha	IV-1	:		1106
						12																	
	8 ✓	BD-10°4149	15-40	"	11-58	8 8	25	E	g	1.2	✓	SPP	5.0	0°	2 <sup>-</sup>	2 <sup>-</sup>	3	"	Ha	IV-2	..		1114
						8																	
	9 ✓	Ross 128	11-45 +1°05'	Feb 12	8-50	5 5	36	W	g	1.2	✓	IG	05	0°	2	2 <sup>+</sup>	2 <sup>+</sup>	-10° 97.9	Du	II-1	..		1112

ALL FRESH EXC.  
1 EXP. ON IV-1 & II-2

II-2, IV-1 FRESH



1345	0 ✓	ROSS 1041	14-52 +35 47	Feb 2	1100	12 12	22E	g	1.0	✓	IG 0.0	0°	2-	2	2	-11° 97.7	Du	II-1	°	1112
	1 ✓	ADS 9476	14-58 -3-54	"	1150	12 10	22W	g	1.0	✓	SPP 3.5	0°	2	2	2	"	Du	IV-2	°	1114 <i>slightly getting light</i>
	2 ✓	ROSS 1003	11-39	Feb. 14	8-09	4 4	8W	g	1.0	✓	I-G 0.0	0°	2-	2	2	-7° 98.1	Ha	II-2	°	1115
	3 ✓	ROSS 690	12-21	"	8-47	10 10 10	5W	g	1.2	✓	SPP 1.0	180°	2	2	3	"	Ha	IV-1	°	1116
	4 ✓	Wolf 461	12-56	"	9-47	22 22	25W	g	1.0	✓	I-G 0.0	0°	2-	2-	3	"	Ha	II-2	°	1115
	5 ✓	ADS 9476	14-58	"	11-18	12 12	2W	g	1.0	✓	SPP 3.5	0°	2	2	3-0	-10° 97.8	Ha	IV-1	°	1116 <i>Clouds!</i>
	6 ✓	ROSS 845	14-11	Feb 15	10-13	15 15	15E	g	1.0	✓	IG 0.0	0°	2	2-	2+	-13° 97.2	Du	II-1	°	1117 <i>made setup</i>
	7 ✓	ADS 9476	14-58	"	10-52	10 10	18E	g	1.0	✓	SPP 3.5	0°	2	2-	2+	"	Du	IV-1	°	1118
	8 ✓	BD -10° 4149	15-40	"	11-32	7 7	24E	g	1.0	✓	SPP 5.0	0°	2-	2-	2	"	Du	IV-1	°	1118
	9 ✓	L 768-119	15-39	"	11-58	3 3	3W	ng	0.0	✓	IG 0.0	0°	2	2-	2	"	Du	II-1	°	1117 <i>Getting lite!!</i>







No.

Star

R.A.  
Dec.

Date  
(U.T.)

Middle  
of  
Exposure

Exp.  
in  
Minutes

Hour  
Angle

Apnly

1347	✓ h Herc	16-39	Feb. 18	11-52	$\frac{1}{2}, \frac{1}{2}$	51 E	g	1.4	✓
MR					$\frac{1}{2}, \frac{1}{2}$				
MR	1 ✓ h Herc	16-39	"	11-55	$\frac{1}{2}, \frac{1}{2}$	48 E	g	1.4	✓
					$\frac{1}{2}, \frac{1}{2}$				
MR	2 ✓ β 543	3-55	Feb. 21	0-39	6 6 6	49 W	g	1.2	✓
MR	3 ✓ ε Aur	4-58	"	0-58	$\frac{1}{2}, \frac{1}{2}$	5 W	g	1.2	✓
					$\frac{1}{2}, \frac{1}{2}$				
MR	4 ✓ ε Aur	4-58	"	1-01	$\frac{1}{2}, \frac{1}{2}$	8 W	g	1.4	✓
					$\frac{1}{2}, \frac{1}{2}$				
MR	5 ✓ Wolf 237	5-43	"	1-32	9 9 9	5 E	g	1.2	✓
MR	6 ✓ Procyon	7-37	"	3-01	3 3 3	28 E	g	1.2	✓
MR	7 ✓ Procyon	7-37	"	3-11	3 3 3	18 E	g	1.2	✓
MR	8 ✓ β D +36° 1638 A	7-29	Mar 1	2-55	4 4 4	6 W	g	1.2	✓
MR	9 ✓ Ross 417	6:16 -6:37	MAR 5	1:44	18-18	23 W	g	1.0	✓

Feb PM 1  
MR 17  
9 26 M 10 E

Total 54

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
SPP	7.0	90°	3	3	3	+3°/100.0		Ha	IV-2	::	1123
SPP	7.0	90°	3	3	3	"		Ha	IV-2	::	reversed Trail Strong 1123
SPP	3.0	0°	1+	2	1	-8°/98.2		Ha	IV-1	::	Clouds 1124
SPP	6.0	0°	1+	2	1	"		Ha	IV-2	::	Clouds 1125
SPP	6.0	0°	1+	2	1	"		Ha	IV-2	::	Clouds reversed 1125
I-G	0	180°	2-	2	2-1	"		Ha	III-2	::	Clouds 1126
SPP	dbl	340°	1	2	0+	"		Ha	IV-1	::	Thru Clouds! 1124
SPP	dbl	340°	1	2	0+	"		Ha	IV-1	::	Thru Clouds reversed 1124
SPP	1.5	0°	2	2	2	-3°/99.0		Do	IV-1	::	1127
I-G	0	0°	2	2	3	-4.6 98.7		BR	II-1	::	1128

All fresh

IV-1, IV-2 fresh



1348	✓ 0	ROSS 882	7:42 3:41	MARS	3:05	8 8	18W	g	1.2
	✓ 1	ROSS 683	8:47 +1:50	"	3:45	10 10	7E	g	1.0
MR	✓ 2	Neptune		"	7:11:32 4:32 7:32	3 3 3			
MR	✓ 3	Neptune		"	7:13:17 16:22 19:29	3 3 3			
MR	✓ 4	Neptune		"	7:53:02 57:02 8:01:02	4 4 4			
MR	✓ 5	Neptune		"	8:06:02 :10:02 :14:02	4 4 4			
	✓ 6	ROSS 845	14-11 -11°47'	"	9:03	24 24	13E	ng	0.0
	✓ 7	ROSS 1041	14-52 +35-47'	"	10:00	10 10	0	g	1.0
	✓ 8	L 768-119	15-39 -19-07'	"	10:46	4 4 4	4W	ng	0.0
	✓ 9	BD -10° 4149	15-40 -10°46'	"	11:22	8 8	38W	ng	0.0

✓		IG	1.0	0	2-2-3	-4.6 98.7	BR	II-1	::	1128
✓		I-G	2.0	0	2-2-2	"	BR	II-2	::	1129
✓		ALL FRESH EXC. [EXP ON: II-2, IV-1					SPP			1130
						-9 98.0	DH	IV-2		1130
								IV-2	Reversed	1130
								II-7		1131
								III	Reversed	1131
✓		Too faint	IG	0.0	2 2 2	-9 98.0	Du	II-2	::	1129
✓			IG	0.0	2 2 2	"	Du	III-2	::	1132
✓		Too faint	IG	0.0	2-2-2	"	Du	III-2	::	1132
✓		Too faint	SPP	5.0	2-2-2	"	Du	IV-1	::	1127
		ALL FRESH								

DAWN SHOWED  
THIN CLOUDS  
PRESENT!!!  
1127



13490	✓ Ross 417	6:16 -6:37	MAR 10	1:00	18-18	0	g	1.0	
1	✓ BD+36°1638	7:28 +36:20	"	2:00	44	12E	g	1.0	
	✓ AEB								
2	✓ BD+36°1638	7:28 +36:20	"	2:14	44	2W	g	1.0	
3	✓ Ross 683	8:47 +7:50	"	3:26	10 10 10 10	5E	g	1.4	
4	✓ L 1750-12	6-41 +51-11	MAR 11	1:15	5	5 6E	ng	0.0	
5	✓ Ross 986	7-07 +38-39	"	1:55	9	9 8W	g	1.0	
PM 6	✓ Ross. 129	11-53	Mar. 13	6:27	5	5 3W	g	1.2	
					5				
PM 7	✓ BD+6°2536	11-58	"	6:53	4	4 22W	g	1.2	
					4				
MR 8	✓ Σ 1785	13-47	"	7:26	3	3 22E	g	1.2	
					3				
MR 9	✓ Σ 1785	13-47	"	7:37	3	3 3E	g	1.2	
					3				

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs	Plate Holder	Configuration	Remarks
✓ ALL FRESH IG	0	0°	2-2-3			-7° 98.3		BR II-1			1133
✓ SPP 0	0°	2-2-3						BR IV-1			1134
✓ SPP 1.5	0°	2-2-3						BR IV-1			1134
✓ IG 2.0	0°	2-2-3						BR II-1			1133
ALL FRESH											
✓ wrong field IG 0	180°	2	2	1-2		-13 97.4		Du II-1			1135 FIELD BOOK MATCH FOR CARD 722.
✓ IG 0.5	0°	2	2	1-2				Du II-1			1135 clumps!
✓ IG 0.5	0°	2	2	3		-9° 97.8		Ha II-2			1136
✓ IG 3.5	0°	2	2	3				Ha II-2			1136
✓ SPP 4.0	0°	2	2	3				Ha IV-1			1137
✓ SPP 4.0	0°	2	2	3				Ha IV-1			1137 reversed.



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle			
13500	✓ Ross 845	14-11	Mar. 13	8-28	30	15 E	g	1.0	
	✓				30				
1	✓ L768-119	15-37	"	10-10	3 3	1 W	g	1.2	
	✓				3				
2	✓ Ross 640	16-27	"	10-51	12	7 E	g	1.0	
	✓				12				
3	✓ L988-42	16-54	"	11-20	6	5 E	g	1.0	
	✓				6				
MR 4	✓ Procyon	7-37	Mar. 14	1-24	2 2 3	40 E	g-p	1.2	
	✓				3				
MR 5	✓ Procyon	7-37	"	1-31	3 3	33 E	g-p	1.0	
	✓				3				
6	✓ BD-12°39'18"	9-29	"	3-58	5 5 5	0	g	1.2	
	✓				5				
P.M. 7	✓ BD-14°36'87"	13 <sup>n</sup> -16 <sup>m</sup> -14°31'	"	7-50	3,3 3,3	8 W	f	1.0	
	✓								
MR 8	✓ L 768-119	15-39 -19-07	"	9-30	5,5	35 E	ng	0.0	
	✓								
9	✓ Ross 986	7-07 +38-40	MAR 20	1:15	6,6	1 W	g	1.0	

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
I-G	0	0°	2	2	3	-9°/97.8	Ha	III-2	:	Trail faint	1138
											All fresh
I-G	0	0°	2	2	3	"	Ha	II-1	:	Trail g	1139
I-G	0	0°	2	2	3	-10°/97.8	Ha	II-1	:		1139
I-G	0	0°	2	2	3	"	Ha	II-2	:	no more on this! cluster	{1140 1143
SPP	dbl Sec	340°	2	2	0+	-1°/99.3	Ha	IV-1	:	thin clouds.	1141
SPP	dbl Sec.	340°	2	2	0+	"	Ha	IV-1	:	reversed Sector came Apart.	1141
I-G	1.0	0°	2	2	1+	-2°/99.3	Ha	III-2	:	Trail ng Thick!	1142
TG	0.0	0°	1-2	1+	1+	-2°/99.3	Du	II-2	:	SCATTERED CLOUDS - STRONG SW WIND	{1143 1140
IG	0	0°	1+	1+	2-	"	Du	III-2	:	WIND 700 STRONG!!	1142
											ALL FRESH
IG	0.5	0°	3	2	2	+8°/100.8	Du	II-1	:		1144



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle				Emulsion	Sector	P.A.	Definition	Steadiness	Transparency	Temp °C	Focus	Obs.	Plate Holder	Configuration	Remarks
13510	✓ BD +36° 1638	7-29 +36-20	MAR 20	1-50	4	20W	ng	0.0	✓	double images	SPP	0	0	3	2	2	+80 100.8	Du	IV-1	only image	RAN INTO PIER !! 1145
1	✓ Procyon	7-37 +5-22	"	2-15	1 1/2, 1 1/2 1 1/2, 1 1/2	30W	g-p	1.0	✓		SPP	double sect 340°	2+	2	2	"	Du	IV-1	::	1145	
2	✓ Procyon	"	"	2-20	1 1/2, 1 1/2 1 1/2	35W	g-p	0.7	✓		SPP	double sect 340°	2+	2	2	"	Du	IV-1	...	REVERSED 1145	
3	✓ BD +51° 1462	8-54 +51-40	"	2-52	5, 5.5	8E	g	1.2	✓	#3 missing	IG	3.5	180°	2+	2	2	"	Du	II-1	...	1144
4	✓ Ross 845	14-11	"	8-05	25 25	11E	g	1.0	✓		I-G	0	0°	2	2	3	+60 100.8	Ha	II-2	:	1146
5	✓ Ross 1041	14-52	"	9-00	10 10 10	3W	g	1.2	✓		I-G	0	0°	2	2	3	"	Ha	II-2	:	1146
6	✓ Ross 806	15-51	"	9-36	1 1/2 1 1/2 1 1/2 1 1/2	21E	g	1.4	✓		I-G	0	0°	2+	2	3	"	Ha	III-2	...	1147
7	✓ Ross 806	15-51	"	9-42	1 1/2 1 1/2 1 1/2 1 1/2	15E	g	1.4	✓		I-G	0	0°	2+	2	3	"	Ha	III-2	...	Trail short reversed 1147
8	✓ h Nuc	16-39	"	10-00	1/2 1/2 1/2 1/2	44E	g	1.4	✓		SPP	90° 7.0	90°	2+	2	3	"	Ha	IV-2	::	1148
9	✓ h Nuc	16-39	"	10-02	1/2 1/2 1/2 1/2	42E	g	1.4	✓		SPP	90° 7.0	90°	2+	2	3	"	Ha	IV-2	::	Trail a reversed 1148



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		
1352	0 ✓ L988-42	16-54	Mon. 20	10-45	<sup>6</sup> <sub>6</sub>	14 E	g	1.2
1	✓ Ross 986	7-07	MAR 24	1:00	7-7	3 W	g	1.0
2	✓ BD +36° 1638	7-29	"	1:23	<sup>3½, 3½</sup> <sub>3½, 3½, 3½</sub>	4 W	g	A 1.2 B 1.0
3	✓ L 1866-6	8-31	"	1:58	4,4,4	23 E	g	1.2
4	✓ BD +51° 1462	8-54	"	2:24	5,5,5	19 E	g	1.2
5	✓ U. MAJ	9-07	"	2:48	4,4,4	9 E	g	1.2
6	✓ BD -12° 2918	9-29	"	3:45	4,4,5	26 W	g	1.2
MR 7	✓ Bootis	14-49	"	8-35	12-12	3 E	g	1.0
8	✓ L989-20	17-09	"	10-53	3,3,3	5 E	g	1.2
9	✓ L989-20	17-09	"	11-03	3,3,	5 W	g	1.0

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp. °C	Focus	Obs.	Plate Holder	Configuration	Remarks
✓ II-1, II-2 fresh.	I-G	0	0°	2	2	3	<sup>+6°</sup> 100.8	Ha	II-1	∴	Trail g no more on this.
All fresh											1149
✓	IG	0.5	0°	2+	2	2	<sup>+10</sup> 101.3	Du	II-1	∴	STILL fwilite
✓	SPP	0.0 1.5	0°	2+	2	2	"	Do	IV-1	∴	1150
✓	IG	0.5	180°	2+	2	2	"	Do	II-2	∴	1151
✓	IG	3.5	180°	2+	2	2	"	Do	II-2	∴	1152
✓	IG	7.0	180°	2+	2	2	"	Do	III-2	∴	1152
✓	IG	1.0	0°	2-	2-	1+	"	Do	III-2	∴	PARTLY CLOUDY!!
II-1, II-2 Fresh IV-2=fresh IV-1=1 exp	I-G	8.0	0°	2	2	2	<sup>+7°</sup> 100.8	Ha	II-1	∴	1153
✓	I-G	0.5	0°	2	2	2	"	Ha	II-2	∴	new card!
✓	I-G	0.5	0°	2	2	2	"	Ha	II-2	∴	Dawn!!



No.	Star	R.A. Dec.	Date (U.T.)	Middle of Exposure	Exp. in Minutes	Hour Angle		
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1353	0 ✓ Ross 986	7-07	Mar. 25	1-01	9-9	8W	g	1.0
	1 ✓ BD+36°1638	7-29	"	1-21	5-5	10W	g	1.0
	2 ✓ ADB BD+36°1638	7-29	"	1-31	5-4	20W	g	1.0
	3 ✓ Procyon	7-37	"	2-14	2½ 2½ 2½	52W	f-g	1.0
	4 ✓ Procyon	7-37	"	2-21	2½ 2½ 2½	59W	f-g	1.0
	5 ✓ U. Maj	9-07	"	2-44	6,6,6	2E	g	1.2
	6 ✓ FwI 182	9-43	"	3-32	14-13	4W	p	0.5
PM	7 ✓ Wolf 386	11-21	"	4-47	6,6,6	18E	ng	0.0
PM	8 ✓ BD+35°2439	13-19	"	6-55	8,8	9E	g	1.0
MR	9 ✓ Σ 1785	13-47	"	7-25	4,4,4	7E	g	1.0

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp °C	Focus	Obs.	Plate Holder	Configuration	Remarks
I-G	0.5	0°	2-	2-	2-	+10°/10110		Ha	III-2	:	Daylight 1153
SPP	1.5	0°	2-	2-	2-	"		Ha	IV-2	..	1157
SPP	0	0°	2-	2-	2-	"		Ha	IV-2	..	Trail g reversed Struck pier 1157
All fresh											
SPP	dbl Sec	340°	2-	2-	2-	"		Ha	IV-1	..	1158
SPP	dbl Sec	340°	2-	2-	2-	"		Ha	IV-1	..	reversed 1158
I-G	7.0	180°	1+	2-	2-	"		Ha	III-2	..	1159
I-G	0	350°	1+	2-	2-	+5°/100.3		Ha	III-2	..	Struck pier 1159
											IV-1 103°C 1160
103°C	1.0	~350°	1-	2-	1+	"		Ha	IV-1	..	nomore on lens 1160
IG	1.5	0°	1	2-	1	"		D <sub>0</sub>	II-1	..	thin clouds 1161
SPP	4.0	0°	1	2-	1+	"		D <sub>0</sub>	IV-2	..	1162



1354 0 ✓ Ross 496 14-12 MAR 25 7-52 10, 10 4E g 1.0 ✓

IG 0 0° 1 2- 1+ <sup>+4</sup>/<sub>100.3</sub> Du II-1 : 1161

MR 1 ✓ Bootis 14-49 " 8-31 15, 15 3E g 0.7 ✓

IG 8.0 0° 1+ 2- 1+ " Du II-2 : 1163

2 ✓ Ross 806 15-51 " 9-25 3, 3, 3 11E g 1.2 ✓

IG 0 0° 1+ 2- 1+ " Du II-2 ... 1163

3 ✓ L 988-42 16-54 " 9-58 8, 8 40E f 0.7 ✓

IG 0 0° 1+ 2- 1+ " Du II-1 ... 1161

4 ✓ L 989-20 17-09 " 10-25 3, 3, 3 30E ng 0.0 ✓

IG 0.5 0° 1+ 2- 1+ " Du II-2 : 1163

✓ Too faint All fresh.

5 ✓ Procyon 7-37 Mar. 28 1-22 2, 2, 2 14W fg 1.2 ✓

SPP dble Sec 340° 2- 2 2 " 99.5 Ha IV-1 : 1164

6 ✓ Procyon 7-37 " 1-32 2, 2, 2 24W fg 1.2 ✓

SPP dble Sec 340° 2- 2 2 " Ha IV-1 : Reversed 1164

7 ✓ L 1866-6 8-31 " 2-08 6, 6, 6 4W g 1.2 ✓

I-G 0.5 180° 1- 2 3 " Ha II-1 : 35-28 1165

8 ✓ U. Maj 9-07 " 2-34 6, 6, 6 6E g 1.2 ✓

I-G 7.0 180° 2- 2 3 " Ha II-1 : 1165

9 ✓ FxI-182 9-04 " 3-10 14, 14 9E g 1.0 ✓

I-G 0 0° 2- 2 3 " Ha II-2 ... Trail g 1166



1355 0 ✓ L897-16

10-37

Mar. 28

3-56

7,7,7

13E

AM ✓ Wolf 1424

11-58

"

5-37

6,6,5

5W

f

1.0

MR ✓ 44 i Bootis

15-02

"

8-26

2,2,2,2

9E

f

1.0

✓ 3 E 768-119

15-37

"

9-04

8,8

5E

g

1.0

✓ 4 Ross 882

7-42

MAR 29

1-33

8,8

21W

g

1.0

✓ 5 L 1866-6

8-31

"

2-03

6,6

1W

ng

0.0

✓ 6 BD +51° 1462

8-54

"

2-19

6,6

1W

g

1.0

✓ 7 BD -12° 2918

9-29

"

3-20

4,4,4

21W

g

1.2

✓ 8 L 1866-6

8.31

APR. 2

11.48

6.6

4W

g

1.4

✓ 9 BD -12° 2918

9.28

"

2.35

3.3

6E

g

1.4

March M 20 E 33

PM 7

MR 20

Total 80

I-G 1.0

0°

2-

2

3

-4/99.0

Ha

II-2

1166

All fresh  
IX-1 103a-C

103a-C 1.0

0°

2-1+

2

2

"

Ha

IV-1

1167

SPP 6.0

90°

2-

2-

2+

-5.5/98.6

Du

IV-2

1168

IG 0

0°

2-

2

1+

"

Du

II-1

THIN CLOUDS -  
CLOSE TO NOW -  
1169

IG 1.0

0°

2+

2-

1-2

+4/100.2

Du

II-1

SCATTERED  
CLOUDS!  
1169

IG 0.5

180°

2

2

2-

"

Du

II-2

" ? 1170

IG 3.5

180°

2

2

2-

"

Du

II-2

(ERROR)  
SAME CONFIG  
AS ABOVE?  
1170

IG 1.0

0°

2

2-

2

"

Du

III-2

1171

all fresh except  
1 exp on II-2, II-19 II-2

I-G 0.5

180°

2

2

2

+5/100.3

BR

III-2

1171

I-G 1.0

0°

2

2

2

"

BR

IV-2

1172



No. Star R.A. Dec. Date (U.T.) Middle of Exposure Exp. in Minutes Hour Angle

1356	✓	L1113-55	10:33 +5:23	APR-2	3:05	15-4	41E	g	0.7
MR	✓	1 ✓ CANCRI	8:09 +7:48	APR-3	1:40	11	21W	g	1.4
MR	✓	2 ✓ CANCRI	8:09 +7:48	"	1:47	11	28W	g	1.4
	✓	3 Ross 686-7	8:58:2 +5:27'	"	2:20	12-12	13W	g	1.0
	✓	4 L1113-55	10:34 +5:23	"	3:15	8-8-8	28E	g	1.2
	✓	5 L897-16	10:37 -6:39	"	3:54	77 77	8W	g	1.4
PM	✓	6 WOLF 389	11:22 +9:42	"	4:40	8-8	9W	g	1.0
PM	✓	7 BD+14°2453	11:54 +13:40	"	5:30	7-7-7	27W	g	1.2
MR	✓	8 Σ 1785	13-46	"	6:15	3,3 2,2	40E	g	1.4
MR	✓	9 Σ 1785	13-46	"	6:25	2,2 3,3	30E	g	1.4

Emulsion	Sector	PA.	Definition	Steadiness	Transparency	Temp °C	Focus	Obs.	Plate Holder	Configuration	Remarks
✓	SPP	1.0	0°	2	2	VAR	+5/100.3	BR	IV-2	:	CLOUDY ON 2ND EXP 1168
ALL FRESH EXCEPT 1 EXP. ON IV-1 & II-2											
✓	SPP	5.0	0°	1+	1+	2	+3/100.	ST	IV-2	::	1173
✓	SPP	5.0	0°	1+	1+	2		ST		::	1173 Reversed
✓	16	0.5	0°	1+	1+	2	+2/100	ST	II-1	:	1174
✓	16	1.0	0°	1+	1+	2		ST	II-2	::	1172
✓	16	1.0	0°	1+	1+	2		ST	II-2	::	1172
✓	16	0	0°	1+	1+	2		ST	III-2	::?	1175
✓	16	2.5°	0°	1+	1+	2		ST	III-2	::	1175
All fresh but 1 exp on IV-1											
✓	S-PP	4.0	0°	2	2	3	+1/99.7	ST Ha	IV-2	::	1176
✓	SPP	4.0	0°	2	2	3	"	Ha	IV-2	::	1176 Reversed



13570 ✓ BD+13°27'28"

PM

13-53

Apr. 3

6-51

5,5,5

9 E

MR 1 ✓

γ Bootis

14-49

"

7-20

12,12

36 E

g

1.0

PM 2 ✓

BD+6°29'86"

15-02

"

7-53

5,5,5

18 E

g

1.2

3 ✓

Ross 806

15-51

"

8-33

2,2

2,2

24 E

g

1.4

4 ✓

Ross 806

15-51

"

8-41

2,2

2,2

16 E

g

1.4

5 ✓

Ross 640

16-27

"

9-22

16,16

12 E

g

1.0

6 ✓

L988-42

16-54

"

10-04

8,8,8

2 W

g

1.2

7 ✓

L1113-55

10:33

+5:23

APR. 8

2-36

15-15

46 E

g

1.0

8 ✓

L897-16

10:27

-6:39

"

3-30

7-7

7-7

3 W

g

1.4

PM 9 ✓

WOLF 398

11:26

+10:27

"

4-30

15-15

14 W

g

1.0

103a-C

4.0

0°

2

2

3

+14°/29.7

Ha

IV-1

1167

I-G

8.0

0°

2

2

3

"

Ha

II-1

1177

I-G

2.0

0°

2

2

3

"

Ha

II-1

1177

I-G

0

0°

2

2

3

"

Ha

II-2

1178

I-G

0

0°

2

2

3

"

Ha

II-2

Reversed 1178  
Trail good

I-G

0

0°

2

2

3

"

Ha

III-2

1179  
Trail good

I-G

0

0°

2

2

3

"

Ha

III-2

1179

ALL FRESH  
I-G (II-1, II-2, III-2)  
SPP (IV-1, IV-2)

SPP

1.0

0°

1

1

2

+14°/101.9

BR

IV-1

1180

I-G

1.0

0°

1

1

2

"

BR

II-1

1181  
WINDY

I-G

0

0°

1

1

2

"

BR

II-1

1181



O hours

BD 23 <sup>o</sup> 123	12930, 12937, 12946, 12951, 12957, 12981, 13186, 13211 13220, 13231, 13242, 13277
CR 181,210	12945, 13149, 13230, 13256, 13286
Karpov 2	12971
L 722-22	13003
BD 38 <sup>o</sup> 125	13052, 13099
W 1507	13057
h Cass	13067, 13068, 13089, 13090
Wolf 44	13091
Ross 309	13108
BD 0 <sup>o</sup> 32	13139
L868-3	13200



## 1 Hr.

Wolf 1516	12938, 12952, 12958, 12982, 12986, 13004, 13278, 13287, 13295
Ross 15	12947, 12959, 12972, 12983, 12987, 13323, 13324, 13352, 13367
Wolf 87	13015, 13016
Wolf 105	13049, 13092
Wolf 66	13053, 13079
Wolf 1523	13058, 13122
48 Cass	13069, 13070
BD 17 <sup>o</sup> 325	13100
Ross 9	13109
$\alpha$ Pisc	13110, 13123, 13232, 13233, 13234, 13243, 13288, 13289, 13353, 13354
BD -13 <sup>o</sup> 245	13140
Wolf 79	13141
BD 57 <sup>o</sup> 383	13151
L 1159-16	13187



2 hr.

AC 25 6725	12994, 13005, 13054, 13080, 13111, 13359, 13368, 13402
Van Maanen 1166	12995, 13017, 13037, 13 071
Ross 1331	13059, 13167
Ross 3247	13101
BD 8 <sup>o</sup> 332	13132



3 hr.

Wolf 134	12973, 13038, 13072, 13081, 13112, 13133, 13296, 13360 13395, 13403, 13413, 13424
Wolf 1322	12988, 12996, 13006, 13039, 13055, 13060, 13125, 13143, 13154, 13302, 13325, 13340, 13369
Ross 578	13018, 13082, 13134, 13153, 13176, 13290, 13297, 13309 13433,
Wolf 131	13124
Ross 570	13142, 13244
Ross 345	13152
$\beta$ 543	13168, 13202, 13270, 13434, 13472
BD -6 <sup>o</sup> 637	13188
Ross 580	13189
Ross 334	13201
Ross 571	13223
Ross 376	13224
Karpov 37	13235
Ross 566	13257
Pleiades	13279, 13280
Wolf 1322	



4 hrs.

Wolf 1539	13040, 13073, 13155, 13169, 13310, 13326, 13361, 13386
$\epsilon$ Aur	13113, 13114, 13204, 13205, 13246, 13247, 13291, 13292, 13303, 13304, 13473, 13474
$\beta$ 552	13190, 13191, 13248, 13249, 13294, 13435
$\theta$ $\leq$ 82	13203, 13245, 13293
Ross 793	13218
EEAj 1090	13258



5 hrs.

Ross 42	13074, 13102, 13156, 13170, 13378, 13387, 13397, 13414
Wolf 237	13075, 13083, 13115, 13177, 13192, 13370, 13405, 13426, 13436, 13475
Ross 48	13171, 13250
Ross 409	13206
Ross 408	13207
Ross 65	13225
Wolf 1452	13226
Ross 388	13236
Ross 797	13263, 13311
BD 19 <sup>o</sup> 869	13271, 13272
BD 54 <sup>o</sup> 886	13281
Ross 389	13298
L737-1	13327, 13396, 13404, 13425



6 hrs.

L 1815-5	13157, 13178, 13193, 13208
R 417	13212, 13398, 13415, 13427, 13437, 13479, 13490
Ross 413	13237, 13330
Ross 414	13251, 13312
BD 47° 1355	13259
L1866-6	13266
Wolf 1058	13273
Wolf 272	13282
Wolf 273	13283
EEAj 1090	13299
BD -0° 1520	13331
Ross 62	13341
L1750-12	13406, 13428, 13429, 13494



## 7 hrs

Ross 986	13158, 13172, 13179, 13219, 13238, 13260, 13495, 13509, 13521, 13530
Ross 882	13239, 13252, 13261, 13300, 13480, 13554
BD 36 <sup>o</sup> 1638	13264, 13265, <del>13270</del> , 13491, 13492, 13510, 13522, 13531, 13532
Procyon	13274, 13275, 13314, 13315, 13430, 13431, 13460, 13461, 13476, 13477, 13504, 13505, 13511, 13512, 13533, 13534, 13545, 13546
Ross 54	13313
Ross 988	13379



8 hrs.

L1866-6	13213, 13523, 13547, 13555, 13558, 13266
Ross 686-7	13253, 13316, 13563
Ross 683	13262, 13481, 13493
BD 51°1462	13301, 13513, 13524, 13556
5 Cancri	13305, 13306, 13332, 13333, 13342, 13343, 13371, 13372, 13380, 13381, 13388, 13389, 13561, 13562



9 hrs.

T	urs Marj	13267, 13276, 13284, 13362, 13407, 13525, 13535, 13548
BD	-12 <sup>00</sup> 2918	13307, 13317, 13334, 13344, 13399, 13506, 13526, 13557 13559
Fu I	182	13536, 13549



10 hrs.

L1113-55	13268, 13318, 13560, 13564, 13577
Ross 104	13269, 13319
L897-16	13335, 13345, 13346, 13416, 13417, 13550, 13565, 13578
Wolf 359	13336, 13363, 13373, 13390



11 hrs.

Ross 128	13347, 13348, 13355, 13449
L901, 10	13374
Ross 117	13391
Ross 1003	13400, 13442, 13443, 13452
Ross 451	13408, 13432
L1187-43	13438
Ross 129	13496
BD 6 <sup>o</sup> 2536	13497
Wolf 386	13537
Wolf 1424	13551
Wolf 389	13566
BD 14 <sup>o</sup> 2453	13567
Wolf 398	13579



12 hrs.

Neptune	13308, 13320, 13321, 13328, 13329, 13338, 13339, 13349, 13350 13356, 13357, 13365, 13366, 13375, 13376, 13382, 13383, 13392, 13393, 13409, 13410, 13419, 13420, 13439, 13440, 13445, 13446 13482, 13483, 13484, 13485
Wolf 437	13322, 13337, 13364, 13418, 13444
Wolf 461	13449, 13454, 13462, 13466
Ross 690	13453, 13465



13hrs.

L1194-26	13351, 13358, 13401, 13421
$\Sigma$ 1785	13498, 13499, 13539, 13568, 13569
BD $-14^{\circ}$ 3687	13507
BD $35^{\circ}$ 2439	13538
BD $13^{\circ}$ 2728	13570



14 hrs.

Ross 843

13377

BD -11° 3759

13384, 13385, 13411, 13422

Ross 1041

13394, 13450, 13468, 13487, 13515

ADS 9476

13447, 13451, 13455, 13457

Ross 845

13456, 13463, 13467, 13486, 13500, 13514

♄ Bootis

13527, 13541, 13571

Ross 496

13540



15 hrs.

BD 25<sup>o</sup> 2874 12837, 12861

Ross 806 12838, 12862, 13516, 13517, 13542, 13573, 13574

BD -10<sup>o</sup> 4149 12863, 12882, 12899, 13448, 13458, 13489, 13469

L768-119 12890, 13412, 13423, 13459, 13464, 13488, 13501, 13508,  
13553

44 i Bootis 13552

BD 6<sup>o</sup> 2986 13572



16 hrs.

Ross 998 12839

Ross 640m 12869, 13502, 13575

*R* Herc 13470, 13471, 13518, 13519

L988-42 13503, 13520, 13543, 13576



17 hrs.

26 Drac	12840, 12849, 12850
L989-20	12864, 12870, 12879, 12900, 13528, 13529, 13544
Wolf 1473	12865
BD -8 <sup>0</sup> 4501	12866
L917 <sub>m</sub> 26	12883, 12891, 12908, 12932, 13007



18 hrs.

β 648 12830, 12831

Wolf 816 12841, 12871

Wolf 834 12851, 12884, 12909, 12910, 12913, 12918, 12939, 12948, 12953,  
13025

1 687 12857, 12885

1920-7 12867

Ross 149 12880

Wolf 851 12901, 12911, 12914, 12919, 12949



19 hrs.

BD 1 <sup>o</sup> 3942	12832, 12896
Ross 727	12842
Wolf 863	12852
BD -9 <sup>o</sup> 5030	12868
Ross 740	12872
Ross 1063	12881
Wolf 1108	12892
Ross 730-31	12902, 12917, 12920, 12961, 12974
Luy Ebb 18	12903
Ross 165	12921, 12934, 12962, 12998, 13008
Gr Ph 70 <sup>o</sup> 8247	12933, 12954, 12960, 12984, 12997, 13027, 13041



## 20 hrs.

Ross 752	12833, 12873
Fu 53	12834, 13030, 13062, 13076, 13085, 13094, 13103 13126, 13135, 13144
Ru 54 (La1 40728)	12835, 12846, 13021, 13022, <sup>13031</sup> <del>13024</del> , 13084, 13086 13093
L926-16	12843
Nechville 353,54	12844, 12845, 12976, 12989, 13028, 13029, 13042, 13043
Ross 756	12853
BD 12 <sup>o</sup> 4499	12854, 12940, 12990, 12999, 13009, 13044, 13145
Luyten Ebb 21	12858
Ross 762	12893, 12941
Ross 822	12874
Ross 175	12886
Ross 189	12887
BD 19 <sup>o</sup> 4499	12922
Wolf 1130	12955, 12963, 12975, 12985, 13050, 13061,
Ross 253	12977
Ross 176	13173
Wolf 1082	13180



21 hr.

Gr. Ph. 82° 3813	12836, 12859, 13105, 13118, 13127, 13159
• SS Cygni	12847, 12855, 12875, 12876
BD 20° 5071	12856, 13023, 13024 <i>see 22 hr.</i>
Ross 824	12904
† Cygni	12923, 12924, 12965, 12966, 13160, 13161, 13174, 13182, 13214, 13175
Wolf 920	12925
Wolf 953	12926, 13046, 13047
Ross 772	12935, 13000
Wolf 1106	12964, 13063, 13095, 13104, 13117, 13136
Ross 779	12978, 13220
Ross 773	13116, 13195
Kostinsky	13181
Ross 778	13183
Ross 825	13194, 13215
L1217-38	13216
L1003-36	13227



22 hrs.

BD 20°5071	12848, 12860, 12915, 12991, 13010, 13026, 13146
BD 5°5715	12877, 12888, 12897, 12905, 12912, 12936, 13064, 13096, 13119, 13128, 13137, 13147, 13164, 13032, 13045
Ross 268	12894, 13001
Wolf 1014	12931
Wolf 1168	12942
BD 9°5076	12943
KRUEGER Ross 60	12967, 12968, 13019, 13020, 13162, 13163, 13196, 13197
Ross 273	12969
Wolf 1332	12979
Ross 271	12992, 13033
Wolf 998	13011
BD 20°5125	13184
Wolf 1034	13198
Wolf 990	13217, 13240



23 hrs.

Ross 786	12878, 12898, 12906, 12929, 12980, 13013, 13129, 13130,
BD-0 <sup>0</sup> 4470	13148, 13165, 13166
Ross 248	12869, 13185, 13229, 13255, 13285
BD 65 <sup>0</sup> 1846	12895, 12916, 12928, 13097, 13106, 13107, 13138
ADS 16644	12907, 12944, 13228, 13241, 13254
Ross 784	12927, 13012
Luyten Ebb 28	12950
Ross 787	12956, 13065
L1006-12	12970
Ross 679	12993
Ross 674	13002
85 Peg	13014, 13035, 13051, 13087, 13088, 13098, 13120, 13121 13210
Ross 292	13034, 13077
Wolf 1043	13036, 13056, 13209
Ross 301	13048
LE 29	13066
Wolf 1050	13078
BD-6 <sup>0</sup> 6318	13131
Ross 675	13150
BD-6 <sup>0</sup> 6308	13199
Ross 245	13221



