H. L. Giclas
R. Burnham
N. thomas

DATES ARE O.A.D.

NEG NO.	REGION Guide Star	R.A.	Dec.	DATE 1948	H.A. End of Exposure	EXPOSURE *Old Astro. Day	Watch Error	Instrument	PLATE	DEVELOPMENT Kind	Time	Temp.	SEEING Trans.	Stead.	Position of Telescope	Writing on Plate	Observer	REMARKS
2740	☄ Johnson Reg. (1948j)	$23^h 22^m$	$-40° 36'$	Oct. 24	$0^h 07^m$ W	9:10:00 – 9:40:00	40 sec Slow	13"	4x5 Eastman 103aO	D19	4^m	68	Good	3	W	N	HG	
2741	"	"	"	"	$0^h 41^m$ W	9:46:00 – 10:16:00	"	"	"	"	"	"	"	"	"	"	"	
2742	"	"	"	Oct. 25	$0^h 42^m$ W	9:11:00 – 10:12:00	45 sec Slow	"	"	"	"	"	good	2	"	"	"	
2743	☄ Wirtanen (1948k)	$21^h 12^m$	$-1° 02'$	Nov. 2	$2^h 53^m$ W	9:00:00 – 9:42:00	32s Slow 34s @ 11:00	"	"	"	"	"	good	2	"	"	"	
2744	☄ Ashbrook-Jack (1948i)	$22^h 42^m$	$-8° 48'$	"	$1^h 38^m$ W	9:53:00 – 9:57:00		"	"	"	"	"	"	"	"	"	"	
2745	"	"	"	"	$1^h 51^m$ W	10:01:00 – 10:09:00		"	"	"	"	"	"	"	"	"	"	
2746	m.p. opposition (Venus 38 Eclipse)	$2^h 45.5^m$	$+15° 21'$	"	$0^h 52^m$ E	10:29:26 – 11:29:26	34s Slow	"	14x17 Cramer Hi.Sp. Spec.	"	"	"	"	3	"	"	"	Election Day fell down stairs + busted "It."
2747	"	"	"	Nov. 4	$0^h 45^m$ E	10:29:17 – 11:29:17	43 sec Slow	"	"	"	"	"	good	1,2	"	"	"	
2748	Seki-Wacki (I) 1925 II Reg.	$9^h 22.0^m$	$+18° 00'$	Nov. 5	$1^h 13^m$ E	17:03:00 – 17:33:00	53 sec Slow	"		"	"	"	good	2	"	"	"	Sort All. no ☄ on plate.
2749	•	$8^h 15^m$	$+25° 00'$	Nov. 8	$0^h 42^m$ E	16:16:00 – 16:46:00	2 sec Slow	"	Eastman 103aO 10x12	"	"	"	good	0	"	"	"	
2750	Seki-Wacki (I) 1925 II Reg	$9^h 22.0^m$	$+18° 00'$	"	$1^h 03^m$ E	17:01:00 – 17:31:00		"	8x10 "	"	"	"	"	"	"	"	"	
2751 a b	Prasker. Bright ☄ (1948 l)	$13^h 13^m$	$-22° 22'$	"		17:44:00 – 17:49:00		+ Copelell Meter.	14x17 Cramer 8x10 Eastman 103aO	"	"	"	"	"	"	"	"	
2752	"	"	"	"	$4^h 32^m$ E	17:52:00 – 17:54:00	5 sec Slow	13"	4x5 Eastman	"	"	"	"	"	"	"	"	Copelell 5" put on 24" telescope
2753	"	$13^h 05^m$	$-23° 09'$	Nov. 9 Wed. A.M.	$4^h 27^m$ E	17:32:30 – 17:47:30	11 sec Slow @ 5:00 AM	"	8x10 Cramer Hi Sp Spec	"	"	"	Poor to Fair clouds haze + smoke	1+	"	"	"	
2754	"	"	"	"		17:51:00 – 17:55:00		"	4x5 Eastman 103aO	"	"	"		"	"	"	"	
2755	"	"	"	"	$4^h 14^m$ E	17:56:10 – 18:00:10	12 sec Slow @ 6:15 AM	"	4x5 Cramer Hi Sp Spec	"	"	"		"	"	"	"	
2756	"	$12^h 49.2^m$	$-24° 46'$	Nov. 11 Friday A.M.		17:28:30 – 17:36:30	18 sec Slow	"	8x10 Eastman 103aO	"	"	"	Good	1	"	"	"	
2757	"	"	"	"		17:39:00 – 17:44:00		"	4x5 "	"	"	"	"	"	"	"	"	
2758	"	"	"	"		17:45:30 – 17:49:33	20 sec Slow @ 6:15	"	"	"	"	"	"	"	"	"	"	
2759	"	$12^h 41^m$	$-25° 30'$	Nov. 12	$4^h 07^m$ E	17:23:15 – 17:27:15	23 sec Slow 4:50	"	"	"	"	"	good	2	"	"	"	
2759 5 5	Plate made ☄ 24" Refr.																	
2760	"	"	"	"	$3^h 33^m$ E	18:03:00 – 18:05:00	24.8 Slow 6:15	"	"	"	"	"	"	"	"	"	"	
2761	"	$12^h 34^m$	$-26° 14'$	Nov. 13		17:57:10 – 18:01:10	29s Slow	"	"	"	"	"	good	2	"	"	"	
2762	"	"	"	"	$3^h 21^m$ E	18:03:00 – 18:06:00	30s Slow	"	"	"	"	"	"	"	"	"	"	
2763 a b	"	12:18	$-27° 38'$	Nov. 15	$3^h 03^m$ E	a) 17h55m19s to 17h59m19s b) 17:50:00 to 17:59:19	41 sec Slow	a) = 13" b) = 5" Cooke	"	"	"	"	good	1	"	"	"	All objectives cleaned on 13" – 5" Cooke put back.
2764	"	"	"	"	$2^h 57^m$ E	18:02:00 – 18:06:00	41.8s Slow	13"	"	"	"	"	"	"	"	"	"	
2765	☄ Ashbrook-Jack. K	$22^h 55^m$	$-5° 05'$	Nov. 23	$0^h 03^m$ W	7:05:00 – 7:13:00	10.4 sec Slow	"	"	"	"	"	good	2	"	"	"	
2766	☄ Johnson (1948j)	$23^h 25^m$	$-40° 28'$	"	$0^h 37^m$ W	7:17:00 – 8:18:00	11.0 sec Slow	"	"	"	3	"	"	1	"	"	"	
2767 a b	☄ 1948 l	$11^h 11^m$	$-32° 10'$	"	$1^h 27^m$ E	17:42:00 – 17:57:00	12 sec Slow @ 5:20 AM	13" = a 5" = b	8x10's	"	3	"	"	3	"	"	"	Wed. A.M.
2768	"	"	"	"		18:00:30 – 18:04:30		13"	4x5	"	4	"	"	"	"	"	"	
2769	"	"	"	"	$1^h 16^m$ E	18:06:30 – 18:09:00	13 sec Slow @ 6:20 AM	"	"	"	"	"	"	"	"	"	"	
2770 a b	"	$10^h 29^m$	$-34° 00'$	Nov. 28	$0^h 23^m$ E	17:40:00 – 18:00:00	21 sec Slow	13" & 5" Cooke	8x10	"	"	"	good	3	"	"	"	Monday A.M.
2771	"	"	"	"		18:04:00 – 18:08:00		13	4x5	"	"	"	"	"	"	"	"	
2772	"	"	"	"	$0^h 10^m$ E	18:10:00 – 18:12:00	21½ sec Slow	"	"	"	"	"	"	"	"	"	"	
2773	☄ Johnson (1948j)	$23^h 25^m$	$-40° 28'$	Nov. 29	$0^h 52^m$ W	7:08:00 – 8:08:00	23 sec Slow	"	"	"	"	"	good	3	"	"	"	
2774 a b	☄ 1948 l	$10^h 20.5^m$	$-34° 22'$	"	$0^h 09^m$ E	17:40:00 – 18:00:00	25 sec Slow @ 17:28	13" + 5" Cooke	8x10's	"	"	"	good	2	"	"	"	

NEG NO.	REGION Guide Star.	R.A.	Dec.	DATE 1948	H.A End of Exposure	EXPOSURE *Old Astro. Day	Watch Error	Instrument	PLATE	DEVELOPMENT Kind	Time	Temp	SEEING Trans.	Stead	Position of Telescope	Writing on Plate	Observer	REMARKS
2775	≡ 1948 l	10h20.5m	-34°22'	1948 Nov. 29		18:04:00 - 18:06:00		13"	4x5 Eastman 103aO	D19	4m	68°F	Good	2	W	N	HG	
2776	"	"	"	"	0h01m E	18:08:00 - 18:09:00	26.2 sec Slow at 18:26	"	"	"	"	"	"	"	"	"	"	
2777 a b	"	10h02m	-34°34'	Dec. 1 Thurs. A.M.	0h16m W	17:38:00 - 18:00:00	31 sec Slow	13"+5" Cooke	8x10s "	"	"	"	Good	2	"	"	"	Thursday A.M.
2778	"	"	"	"	0h22m W	18:05:00 - 18:06:00		13"	4x5 "	"	"	"	"	"	"	"	"	
2779	"	"	"	"	0h25m W	18:09:00 - 18:09:30	32.8 sec. Slow at 18:29	"	"	"	"	"	"	"	"	"	"	
2780		23h45m	-3°00'	Dec 3	MT.	7:09:00 - 7:21:00	38 sec Slow	"	"	"	"	"	good	2+	"	"	"	cut to 4x5
2781	≡ Ashbrook-Jacks	23h3.5m	-3°30'	"	1h07m W	7:29:00 - 7:46:00	39 sec Slow	"	"	"	"	"	"	"	"	"	"	
2782 a b	≡ 1948 l	9h30m	-35°00'	Dec. 5	1h07m W	17:42:00 - 18:02:00	45½ sec Slow	13"+5" Cooke	8x10s "	"	"	"	Good-	2+	"	"	"	Monday A.M.
2783	"	"	"	"	1h13m W	18:05:30 - 18:07:30		13"	4x5 "	"	"	"	"	"	"	"	"	
2784	"	"	"	"	1h15m W	18:09:30 - 18:10:30	46 sec Slow.	"	"	"	"	"	"	"	"	"	"	
2785	"	9h22m	-35°00'	Dec. 6	0h53m W	17:33:00 - 17:35:00	48 sec Slow @ 17:15	"	"	"	"	"	Good-	3	"	"	"	
2786	≡ 1948 Honda	13h43m	-25°00'	"	3h00m E	17:43:00 - 17:58:00		"	14x17 Cramer Hi Speed Spec	"	"	"	Fair+	"	"	"	"	
2787	"	13h48m	-24°40'	"	2h37m E	18:02:30 - 18:12:30	50 sec Slow @ 18:25	"	8x10 Eastman cut to 4x5 103aO	"	"	"	"	"	"	"	"	cut to 4x5 for measuring. "
2788	≡ 1948 l	8h35m	-33°55'	Dec 12	1h51m W	17:22:00 - 17:24:00	9 sec Slow.	"	4x5 103aO	"	"	"	Fair+	2	"	"	"	monday A.M.
2789	"	"	"	"	1h55m W	17:27:00 - 17:28:00	"	"	"	"	"	"	"	"	"	"	"	
2790		13h26.5m	-25°22'	"	2h27m E	17:45:00 - 17:59:00	"	"	"	"	"	"	Fair-	"	"	"	"	
2791		"	"		2h08m E	18:02:00 - 18:12:00	9 sec Slow)	"	"	"	"	"	"	"	"	"	"	
2792 a b	Honda - ~~Schmitt~~ ≡ 1948m	13h38m	-28°00	1949 Jan. 4	0h41m E	17:48:00 - 18:24:00	17 sec Slow	"	14x17 Cramer. 8x10 103aO East.	"	"	"	Good	1	"	"	"	wed. A.M.
2793	Honda, Mokos " Pasdesckova	13h41m	-28°21'	Jan. 6	0h49m E	17:42:00 - 18:12:15	24 sec Slow lag.	"	4x5 East. 103aO	"	"	"	Good-	2	"	"	"	
2794	"	"	"	"	0h29m E	18:16:00 - 18:31:00	26 sec Slow and	"	"	"	"	"	"	"	"	"	"	Friday A.M.
2795 a	Moonlet Search 60° behind Moon	9h40m	+12°30'	Feb 25	0h53m W	12:11:00 - 12:26:00	26 sec Slow	13"+5" Cooke	14x17 Eastman 103aO	"	"	"	Good+	2±	"	"	"	During Total Eclipse of ☾
2795 b		9h42m	+19°08'	April 12 Tuesday		8:25:00 - 8:45:00	9 sec fast 7:50	13" & 5" Cooke	8x10 " "	D19	"	"	"	"	"	"	"	P.A. set 270°+27° Mike mount 38.2" (=.86 rev. of mike) per min.
2796 a b	"	"	"	"		8:50:00 - 9:10:00		"	"	"	"	"	"	"	"	"	"	Lunar Rate on clock: tried to follow Moon's motion 60° behind it
2797 a b	"	"	"	"		9:15:10 - 9:35:10		"	"	"	"	"	"	"	"	"	"	
2798 a b	"	"	"	"	1h16m W	9:40:00 - 10:00:03	9 sec fast 10:15	"	"	"	"	"	"	"	"	"	"	Sunday AM
2800	Gale & Region	22h05m	-18°00'	April 23	4h00m E	16:05:10 - 16:25:10	3 sec fast	13"	14x17 Eastman 103aO	"	"	"	Good	1-	"	"	"	Thurs. A.M.
2801	"	"	"	April 29	3h55m E	15:53:00 - 16:13:00	38 sec Slow	"	"	"	"	"	"	"	"	"	"	
2802	≡ 1949a Johnson	15h05m	-43°34'	May 23	0h34m W	11:51:00 - 11:59:00	39s Slow 11:05	"	4x5 Eastman 103aO	"	"	"	Good	2	"	"	"	Comet very faint on this plate
2803	"	"	"	"	0h54m W	12:02:00 - 12:18:00	41s Slow 12:30	"	8x10 "	"	"	"	"	"	"	"	"	marked ok on this.
2804	Johnson Asteroid (1949 H?)	14h25m	-5°54'	May 24	0h23m W	10:49:00 - 11:04:00	10 sec fast at 10:10	"	"	"	"	"	Good	3	"	"	HLG + Rot. Schedlock (guide)	
2805	"	"	"	"	0h44m W	11:11:00 - 11:26:00	8 sec fast at 11:15	"	"	"	"	"	"	"	"	"	"	
2806	≡ 1949a Johnson	15h05m	-43°34'	"	0h29m W	11:35:00 - 11:51:00		"	"	"	"	"	Fair±	1	"	"	"	
2807	"	"	"	"	0h47m W	11:53:00 - 12:09:00	8 sec fast at 12:15	"	4x5 "	"	"	"	"	"	"	"	"	
2808	Johnson Asteroid (1949 H?) not on plate	14h20.8m	-1°00'	June 1	0h44m W	10:45:02 - 10:50:02	31 sec Slow	"	"	"	"	"	good	2	"	"	HLG	not on plate
2809	"	"	"	"	1h02m W	11:02:00 - 11:07:00		"	"	"	"	"	"	"	"	"	"	
2810	≡ 1949a Johnson	14h40m	-40°	"	1h20m W	11:27:00 - 11:45:00	32 sec Slow at 11:55	"	8x10 "	"	"	"	"	1	"	"	"	

	NEG. NO.	REGION Guide Star	R.A.	Dec	DATE 1949	H.A. End of Exposure	EXPOSURE Old Astro. Day	Watch Error	Instrument	PLATE BRAND	DEVELOPMENT Kind	Time	Temp.	SEEING Trans.	Steady	Position of Telescope	Writing on Plate	Observer	REMARKS
	2811	Comet 1949a	14h 17.7m	-35° 22'	June 13 Monday	0h 07m W	8:59:00 to 9:23:00	29 sec slow	13"	4x5 Eastman 103a O	D19	4m	68°F	good	2	W	N	HLG	
	2812	Johnson	"	"	"	0h 29m W	9:25:00 to 9:45:10	"	"	"	"	"	"	"	"	"	"	"	
	2813	Asteroid 1949 H? Johnson	14h 24.5m	+3° 20'	"	0h 55m W	10:06:00 to 10:16:00		"	8x10 Cramer Hi Speed Special	"	"	"	good	"	"	"	HLG + Rob. Schaldach	
	2814	"	"	"	"	1h 11m W	10:23:00 to 10:33:00	29 sec slow	"	"	"	"	"	"	"	"	"	"	
	2815	"	14h 21m	-3° 00'	June 15	1h 12m W at 10:28	10:02:00 +16s to 10:22:00 +16s	16 sec slow Bobb's Watch	"	"	"	"	"	good	3	"	"	"	Schaldach watch for Jimmy. cut to 4x5
	2816	"	"	"	"	1h 48m W	10:36:00 to 10:56:00	12 sec slow My Watch	"	"	"	"	"	"	"	"	"	"	
	2817	Vesta	17h 16.5m	-17° 40'	"	0h 48m E	11:09:00 to 11:19:00	12 sec slow "	"	"	"	"	"	"	2	"	"	"	
(5-1)	2818 a b	M.P. Opposition	17h 54.5m	-23° 52'	June 20	0h 19m W	11:42:00 to 12:42:00	16 sec fast at 11:00 8 sec fast at 13:13	13" + 5" Code	14x17 ~~Eastman 103a O~~ 8x10 CRAMER	"	"	"	good		"	"	R. Schaldach "	
	2819 a b	"	"	"	" 22	1h 7.5m W	12:22:00 to 13:22:00	62 sec fast at 11:52 54 sec fast at 13:46	"	"	"	"	"	"		"	"	"	
	2820	"	"	"	" 24	0h 19.5m W	11:27:00 to 12:27:00	39 sec fast at 11:00 30 sec fast at 12:55	13"	14x17 CRAMER ~~Eastman 103a O~~	"	"	"	"		"	"	"	
	2821	E 1949a	13h 58.3m	-29° 19'	June 28		9:00:00 to 9:15:00	24 sec slow at 9:30	"	4x5 Eastman 103a O	D "	"	"	good	3	"	"	H.G	
	2822	"	"	"	"	1h 37m W	9:17:00 to 9:33:00		"	"	"	"	"	"	"	"	"	"	
	2823	Asteroid 1949 H	14h 35m	+7° 35'	"	1h 23m W	9:45:00 to 9:55:00		"	"	"	"	"	"	"	"	"	"	
	2824	"	"	"	"	1h 27m W	10:00:00 to 10:10:00	24 sec slow at 10:20	"	"	"	"	"	"	"	"	"	"	
	2825	Nova Scuti	18h 53.5m	-4° 12'	Aug. 4		11:04:00 to 11:06:00	14 sec fast.	"	"	"	"	"	Fair +	2	"	"	"	
	2826	"	"	"	"	0h 43m W	11:08:00 to 11:09:00	"	"	"	"	"	"	"	"	"	"	"	
	2827	E 1949D (Johnson) Region had not enough star plates	20h 32.8m	-27° 00'	Aug. 29	0h 18m W	10:36:00 to 10:46:00	10 sec fast	"	"	"	"	"	good	3	"	"	"	
	2828	"	"	"	"	0h 43m W	10:50:00 to 11:10:00	"	"	"	"	"	"	"	"	"	"	"	
	2829	"	20h 31.6m	-27° 20'	Aug. 30	1h 12m W	11:03:00 to 11:33:00	20 sec fast	"	8x10 "	"	"	"	good	3±	"	"	"	
	2830	E 1949 E Pelageje	0h 3.0m	-2° 00'	Sept. 26	1h 27m W	13:23:00 to 13:33:00	38 sec fast	"	4x5 "	"	"	"	Fair ±	2	"	"	"	
	2831	"	"	"	"	1h 41m W	13:36:00 to 13:48:00		"	"	"	"	"	good to Fair to Poor	"	"	"	"	
	2832	Metis #9 Reg.	3h 19m	+12° 00'	"	1h 18m E	13:44:05 to 14:06:05	36 sec fast	"	8x10 "	"	"	"	Good	"	"	"	"	
	2833	E 1949 E	0h 5m	-2° 50'	Sept 27	0h 31m E	11:24:40 to 11:35:00	40 sec fast	"	4x5 "	"	"	"	Fair +	2	"	"	"	
	2834	"	"	"	"	0h 17m E	11:37:00 to 11:49:00	40 sec fast	"	"	"	"	"	"	"	"	"	"	
	2835	Metis #9 Reg	2h 53m	+10° 18'	Sept. 29	2h 45m E	11:50:00 to 12:00:00	11 sec slow	"	8x10 "	"	"	"	good	2	"	"	"	
	2836		3h 18m	+12° 10'	"	2h 49m E	12:11:00 to 12:21:00		"	"	"	"	"	"	"	"	"	"	
	2837	"	2h 53m	+10° 18'	Sept. 30	1h 23m W	15:48:00 to 16:03:00	14 sec slow	"	"	"	"	"	good	3	"	"	"	
	2838	P-60°A During Total Eclipse of Moon	21h 12.3m	-20° 50'	Oct. 6	1h 11m E	7:12:00 to 7:28:00	25 sec fast	"	14x17 Eastman 103a O	"	"	"	good	2	"	"	"	P.A. set 90-27° and trailed guide star West + South 0.70 Rev./min.
	2839	Trailed " Plates	"	"	"		7:44:00 to 8:14:00		"	"	"	"	"	"	"	"	"	"	
	2840	"	"	"	"	0h 10m W	8:18:00 to 8:48:00	25 sec fast	"	"	"	"	"	"	"	"	"	"	Search for Moonlets.
	2841	m.p. #9 Metis	3h 00m	+10° 52'	Oct. 11	0h 22m W	14:21:10 to 14:26:10	12 sec slow	"	8x10 Cramer Hi Sp Spec cut 4x5	"	"	"	good	3	"	"	"	Bright moonlight cut to 4x5 cut to 4x5
	2842	"	2h 49.3m	+11° 10'	Oct. 21	2h 55m E	10:16:00 to 10:31:00	20 sec slow	"	"	"	"	"	"	2	"	"	"	
	2843	"	2h 55m	+10° 18'	"	2h 40m E	10:36:00 to 10:40:00	20½ sec slow	"	4x5 Eastman 103a O	"	"	"	good	"	"	"	"	
	2844		2h 42m	+9 52	Nov. 7	1h 12m E	10:46:00 to 10:50:00	3 sec fast	"	"	"	"	"	good	3	"	"	"	
	2845		2h 26.6	+9° 22'	"	0h 43m E	10:56:00 to 11:04:00	"	"	8x10 Cr. Hi Sp Spec.	"	"	"	"	"	"	"	"	

1949 1950

NEG No.	REGION OBJECT	R.A.	DEC.	DATE 1949–1950	H.A. End of Exposure	EXPOSURE *Old Astro Day	Watch Error	Instrument	PLATE BRAND	Position of Telescope	DEVELOPMENT Kind	Time	Temp	SEEING Trans	Stead	Writing on Plate	Observer	REMARKS
2846	#9 Metis	$2^h 34^m.4$	+10° 18'	Nov. 11 Friday	$1^h 36^m$ E	9:53:00 to 10:01:00	6 sec fast	13"	4x5 Eastman 103a O	W	D19	4m	68°	good	3	N	HG	
2847	"	$2^h 27^m$	+9° 22'	"	$1^h 08^m$ E	10:07:00 to 10:22:00	5 sec fast	"	8x10 Cramer Hi Sp. Spec.	"	"	"	"	"	"	"	"	
2848	"	$2^h 27^m$	+10° 10'	Nov. 13 Sunday	$1^h 08^m$ W	12:27:00 to 12:31:00	10 sec fast	"	4x5 Eastman 103a O	"	"	"	"	good	1, 2	"	"	
2849	"	"	"	"	$1^h 17^m$ W	12:35:00 to 12:40:00	"	"	"	"	"	"	"	"	"	"	"	
2850	"	$2^h 24^m$	+10° 22'	Nov. 18 Friday	$1^h 22^m$ W	12:17:00 to 12:21:00	18 sec fast.	"	4x5 Cramer Hi-Speed Spec	"	"	"	"	good	5, 6	"	"	
2851	"	"	"	"	$1^h 34^m$ W	12:25:00 to 12:33:00	"	"	"	"	"	"	"	"	"	"	"	
2852	"	$2^h 13^m$	+10° 33'	Nov. 25	$1^h 42^m$ W	11:46:00 to 12:01:00	8 sec fast	"	8x10 "	"	"	"	"	good	3	"	"	
2853	"	$2^h 18^m$	+10° 22'	"	$1^h 47$ W	12:08:00 to 12:12:00	"	"	4x5 Eastman 103a O	"	"	"	"	"	"	"	"	
2854	Pleiades	$3^h 45^m$	+24° 00'	"	$0^h 27^m$ W	12:16:00 to 12:20:00	"	"	"	"	"	"	"	"	"	"	"	
2855	#9 Metis	$2^h 16^m$	+10° 12'	Nov. 28	$0^h 39^m$ W	10:59:00 to 11:01:00	16 sec fast	"	"	"	"	"	"	good	2	"	"	moonlight.
2856	"	$2^h 10^m$	+10° 08'	Dec. 4	$1^h 35^m$ E	8:03:00 to 8:08:00	5 sec slow	"	8x10 Cr. Hi Sp Spec	"	"	"	"	good	3	"	"	bright moonlight.
2857	"	"	"	Dec. 7	$1^h 53^m$ W	11:18:00 to 11:23:00	14 sec fast	"	4x5 Eastman 103a O	"	"	"	"	Fair	2	"	"	"
2858	"	"	"	Dec. 11	M.T.	9:10:00 to 9:15:00	18 sec. slow	"	"	"	"	"	"	good	3	"	"	
2859	"	"	"	Dec. 20	$2^h 17^m$ W	10:45:00 to 10:55:00	31 sec. Fast	"	8x10 Cr. Hi Sp. special	"	"	"	"	good	1−	"	"	
2860	Comet Suspect Region	$7^h 35^m$	−6° 6'	"	$2^h 42^m$ E	11:02:00 to 11:22:00	"	"	14x17 Eastman 103a O	"	"	"	"	"	"	"	"	
2861	"	$6^h 51^m$	−5° 45'	Dec 21	$1^h 26^m$ E	11:32:00 to 11:52:00	31 sec fast 11:00	"	"	"	"	"	"	good	1	"	"	
2862	"	$8^h 20^m$	−6° 00'	"	$2^h 29^m$ E	11:57:00 to 12:17:00	30 sec fast at 12:30	"	"	"	"	"	"	"	"	"	"	
2863	Harrington's Region	$2^h 53^m$	+19° 02'	Dec. 22	$1^h 33^m$ E	7:22:00 to 7:42:00	35 sec fast	"	4x5 Eastman 103a O	"	"	"	"	good	2+	"	"	
				1950					1950						1950			
2864	Metis (9)	$2^h 20^m$	+13° 18'	Jan. 9	$3^h 13^m$ W	10:33:05 to 10:43:05	20 sec fast	"	4x5 Eastman 103a O	"	"	"	"	good	3	"	"	
2865	not on plate	$2^h 15^m$	+13° 15'	Jan. 15	$3^h 27^m$ W	10:17:15 to 10:27:15	2 sec slow	"	"	"	"	"	"	good	3	"	"	
2866	Metis (9)	$2^h 25.5^m$	+13° 42'	Jan. 16	$3^h 09^m$ W	10:06:00 to 10:17:02	1 sec fast	"	4x5 Cramer Hi Sp Spec.	"	"	"	"	good	3	"	"	
2867	Neptune Field	$13^h 01^m$	−4° 45'	Feb. 13	$2^h 05^m$ E	13:38:00 to 13:48:00	on Time	"	8x10 Eastman 103a O	"	"	"	"	good	3	"	"	
2868	2 Pallas Field	$15^h 06^m$	+26° 31'	May 8	$0^h 24^m$ W	12:40:15 to 12:50:15	+07 sec slow	"	"	"	"	"	"	good	4	"	"	
2869	Vesta	$2^h 48.5^m$	+6° 03'	Nov. 15 Wed.	$1^h 38^m$ E	9:54:00 to 9:58:02	01 sec fast	"	4x5 Eastman 103a O	"	"	"	"	Fair	3	"	"	
2870	Search for Ali Object	$0^h 15^m$	+3° 33'	Dec. 1 Friday	$0^h 14^m$ W	7:59:00 to 8:14:00	24 sec fast at 6:45	"	8x10 Eastman 103a O	"	"	"	"	good	3	"	"	
2871	"	"	"	"	$1^h 45^m$ W	9:15:04 to 9:45:04	21 sec fast at 10:10	"	14x17 Eastman 103a O	"	"	"	"	"	"	"	"	
2872	Vesta Region (West of)	$2^h 17^m$	+6° 30'	Dec. 5	$1^h 24^m$ W	10:50:03 to 11:10:03	42 sec fast	"	8x10 "	"	"	"	"	good	1	"	"	
2873	Vesta	$2^h 31^m$	+6° 00'	Dec. 8 Friday	$1^h 02^m$ E	8:36:12 to 8:41:12	2 sec slow	"	4x5 "	"	"	"	"	good	2	"	"	
2874	"	$2^h 27^m.4$	+6° 21'	Dec 17 1951	$3^h 09^m$ W	12:16:00 to 12:18:00	52 sec fast	"	4x5 "	"	"	"	"	good	2	"	"	bright moonlight.
2875	"	"	+7° 48'															
2875	Vesta	$2^h 27.4^m$	+7° 48'	Saturday Jan. 6	$0^h 26^m$ E	7:15:00 to 7:25:00	6 sec slow	"	8x10 "	"	"	"	"	good	2	"	"	

NEG. NO.	REGION: Guide Star or Obj	R.A.	Dec	DATE 1951	Hour Angle	EXPOSURE *Old Astro. Day	Watch Error	Instrument	Plate Brand Emulsion	Position of Telescope	DEVELOPMENT Kind	Time	Temp.	SEEING Trans.	Stead.	Waiting on Plate	Observer	REMARKS
2876	☆ 1951 A Padjusakova	20h 33m	+15° 18′	Feb. 5 Tues. A.M.		18:00:00 – 18:10:00	5 sec Slow	13″	14x17 Eastman 103a O	West of P.A.	D19	4m	68° F	Fair +	2+	N	H.G.	cut to 4x5 size & at center.
2877	"	"	"	"	5h 43m E	18:12:02 – 18:15:02	"	"	8x10 Eastman 103a O	"	"	"	"	"	"	"	"	
2878	"	20h 46m	+21° 05′	Feb. 8 Friday A.M.		18:00:00 – 18:10:00	14 sec Fast	"	4x5 Eastman 103a O	"	"	"	"	good	2+	"	"	
2879	"	"	"	"	5h 46m E	18:12:00 – 18:13:02	"	"	"	"	"	"	"	"	"	"	"	
2880	Markowitz Rediscovery of Asteroid 1923 GHalia	3h 48m	+23° 52′	Feb. 28	2h 37m W	8:04:00 – 8:19:00	on Time	"	8x10 Eastman 103a O	"	"	"	"	good	4	"	"	cut to 4x5 for mass.
2881	" Pleiades Cluster on Plate	"	"	"	3h 43m W	9:09:00 – 9:25:00	"	"	"	"	"	"	"	"	"	"	"	
2882	Vesta Region	3h 15m	+14° 28′	Sunday night Mar. 4	2h 58m W	7:48:00 – 7:52:00	27 sec fast	"	4x5 Eastman 103a O	"	"	"	"	good	3	"	"	
2883	Juno	16h 03m	−3° 10′	June 1	0h 31m E	11:15:00 – 11:20:00	40 sec fast	"	"	"	"	"	"	good	2	"	"	
2884	"	"	"	" 4	0h 18m E	11:16:00 – 11:21:00	59 sec fast	"	"	"	"	"	"	good	3	"	"	
2885	"	15h 49m	−2° 58′	June 22	0h 05m E	9:58:00 – 10:08:00	10 sec Slow	"	"	"	"	"	"	good	3	"	"	
2886	"	"	"	" 28	0h 14m E	9:26:00 – 9:36:00	18 sec Slow	"	"	"	"	"	"	good	2	"	"	
2887	"	15h 42	−3° 42′	July 29	2h 59m W	10:32:00 – 10:40:00	6 sec fast	"	8x10 "	"	"	"	"	Fair	2	"	"	
				1952						1952								
2888 a b	Search for du Toit E	13h 12.9m	−7° 50′	June 9	1h 12½m W	9:08:00 – 9:38:00	15 sec fast	" + 5″ Cooke	14x17 & 8x10 103a O	"	"	"	72-70 69-68	good	4	"	Chas. Stakeford	
2889	"	"	"	June 10	1h 16m W	9:08:00 – 9:38:00	9 sec fast	13″	14x17 103a O	"	"	"	70−	"	3	"	"	
2890 a b	"	13h 44.5m	−9° 32′	June 16	1h 24m W	9:14:00 – 9:54:00	26 sec fast	13″ & 5″ Cooke	14x17 8x10 103a O	"	"	"	70−	good	3	"	"	See companion plate of 6/17 by Stakeford
2891	New Peltier ☆	14h 40.2m	+67° 50′	June 20	0h 14m W	9:10:00 – 9:25:00	31 sec fast 8:30	13″	8x10 103a O	"	"	"	68	"	4	"	H.G.	
2892	"	14h 40m	+67° 25′	"	1h 02m W	10:09:00 – 10:11:00		"	4x5 Eastman 103a O	"	"	"	"	good	3	"	"	
2893	"	"	"	"		10:15:00 – 10:19:00		"	"	"	"	"	"	"	"	"	"	Acc. Pos. Meas.
2894	Polar Sequence	14h 40m	+90° 00′	"	1h 23m W	10:24:00 – 10:28:00	30 sec fast 10:40	"	"	"	"	"	"	"	"	"	"	
2895	Peltier ☆	"	+67° 21′	June 21	1h 21m W	10:23:00 – 10:27:00	36 sec fast 10:10	"	"	"	"	"	"	good	3	"	"	
2896	Renner ☆ } this is	22h 56m	+22° 20′	June 30	1h 40m E	14:54:00 – 15:06:03	i.e. 12m 3s 1 sec fast	"	8x10 "	"	"	"	"	good	3	"	"	i.e. June A.M. July 1.
2897	" }	23h 6.5m	+22° 20′	"	1h 17m E	15:37:00 – 15:39:00	"	"	4x5 "	"	"	"	"	"	"	"	"	Acc. pos. meas.
2898	" }	"	"	"	1h 09m E	15:42:00 – 15:46:00	Perfect time	"	"	"	"	"	"	"	"	"	"	
2899 a b	Al. Wilson Obj. Region	12h 13m	+47° 25′	1953 Mar. 11	2h 08m E	10:54:00 – 11:14:00	on Time	13″ & 5″ Cooke	14x17 8x10	"	"	"	"	good	4-5+	"	"	
2900	" "	"	"	"	1h 01m E	12:11:00 – 12:21:00		13″	14x17	"	"	5m	"	"	5-6 good 4-5	"	"	closed shutter for 5 min to make break in trail.
2901	" "	12h 10m	+44° 48′	"	1h 11m W	14:11:00 to 14:21:00 14:26:00 to 14:31:00	2s Slow at 3:00 A.M.	"	8x10	"	"	4m	"	"				
2902 3		12h 40m	+46° 06′		3h 37m E	9:53:00 to 10:03:00 10:06:00 – 10:11:00		"										
2904 5	~~Pluto~~	"	"			10:22:00 – 10:32:00 10:35:00 – 10:40:00	3 sec Slow	"										
	1954			1954						1954					1954			
2906	Pluto	9h 56.5m	+23° 39′	Mar. 1	0h 52m E at 10:42	10:26:00 to 10:36:00	06s Fast at 9:30	42″ Ref.	4x5 103a O		D19	4m	68	good	3		"	
2907	"	"	"	"	0h 04m E at 11:29:00	11:12:10 to 11:22:08	04s Slow at 11:50	"	"		"	"	"	"	"		"	
2908	"	"	"	Mar. 5		9:21:00 to 9:26:00	About 14s Slow but NOT Exact	"	"		"	"	"	good	2−		"	
2909	"	"	"	"	1h 46m E at 9:44	9:36:00 – 9:41:00		"	"		"	"	"	"	"			

NEG NO.	REGION: Guide Star or Object	R.A.	DEC.	DATE 1954-55	Hour Angle	EXPOSURE *Old Astro. Day	Watch Error	Instrument	Plate Brand or Emulsion	Position of Telescope	DEVELOPMENT: Kind	Time	Temp	SEEING: Trans	Stead.	Writing on Plate	Observer	REMARKS
2910	Polar Sequence	21h 29m	+90°	Sept. 17 Friday	0h 46m E	9:16: to 9:26:30	02 sec slow	13"	3¼x4¼ No 103 G Filter	W	D19	5m	Rm 67½°	good		N	HG	Ticket Effect on EKCo Spectroscopic Plates
2911	" "	"	"	"	0h 33m E	9:29 to 9:39	"	"	103 E "	"	"	"	"	"		"	"	
2912	Perseus Cluster	2h 16m	+57° 00'	"	4h 53m E	9:51:05 to 10:05:00		"	103G "	"	"	"	"	"	3	"	"	"
2913	" "	"	"	"	4h 38m E	10:09:22 to 10:19:00		"	103E "	"	"	"	"	"	"	"	"	"
μ 2914	Boss 34 Ceti	0h 12.7m	-9° 44'	Sept. 21 Tues 21/22	0h 35m E	11:43:00 to 12:03:00	19 sec slow	"	14x17 103aO	"	D19	4	68°	good	5-6	"	"	
μ 2915	44 Piscium	0h 23.0m	+1° 47'	"	0h 03m E	12:15:00 to 12:45:00	✓ 1:00 am	"	"	"	"	"	"	"	"	"	"	
μ 2916	Boss 34 Ceti	0h 12.7m	-9° 44'	Sept. 27/28 Mon-Tues.	0h 12m W	12:06:00 to 12:26:00	01 sec fast	"	"	"	"	"	"	good	4	"	"	
μ 2917	44 Piscium	0h 23.0m	+1° 47'	"	0h 29m W	12:33:00 to 12:54:00		"	"	"	"	"	"	"	"	"	"	
μ 2918	21 Ceti	0h 52m	-8° 55'	"	0h 49m W	13:22:00 to 13:42:00		"	"	"	"	"	"	"	"	"	"	
μ 2919	26 Ceti	1h 01m	+1° 12'	"	1h 05m W	13:47:00 to 14:07:00	✓ 01 sec fast 14h 20m	"	"	"	"	"	"	"	"	"	"	
μ 2920	21 Ceti	0h 52m	-8° 55'	Sept 29/30	0h 24m E	11:59:00 to 12:22:00	36 sec slow	"	"	"	"	"	"	good	4±	"	"	
μ 2921	26 Ceti	1h 01m	+1° 12'	"	0h 08m E	12:27:00 to 12:47:00	36 sec slow	"	"	"	"	"	"	"	"	"	"	
μ 2922	7m Star	1h 28.5m	-5° 08'	Nov. 21/22 Sunday	0h 04m W	9:33:00 to 9:53:00	on Time	"	"	"	D19	"	"	good	2-	"	"	
μ 2923	6m "	2h 05m	-0° 45'	"	0h 10m E	10:01:00 to 10:21:00	"	"	"	"	"	"	"	"	"	"	"	
μ 2924	7m Star	1h 28.5m	-5° 08'	Tues Nov. 23/24	0h 57m W	10:21:26 to 10:41:26	34 sec. slow	"	"	"	"	"	"	good	3-5	"	"	
μ 2925	6m "	2h 05m	-0° 45'	"	0h 45m W	10:46:26 to 11:06:26	"	"	"	"	"	"	"	"	"	"	"	
μ 2926	6m Star	2h 09m	-10° 17'	Nov. 26/27 Friday	0h 02m W	9:56:00 to 10:17:02	on Time	"	"	"	"	"	"	good		"	"	
μ 2927	84 Ceti	2h 38.5m	-0° 54'	"	M.T.	10:25:00 to 10:45:00	"	"	"	"	"	"	"	"		"	"	
μ 2928	6m Star	2h 09m	-10 17	Nov. 28/29 Sunday	0h 49m E	8:58:00 to 9:18:00	on Time cat.	"	"	"	"	"	"	good	3	"	"	
μ 2929	84 Ceti	2h 38.5m	-0° 54'	"	0h 44m E	9:32:00 to 9:52:00	"	"	"	"	"	"	"	"	"	"	"	
μ 2930	7m Star	2h 50m	-9° 40'	"	0h 07m E	10:25:00 to 10:40:00	"	"	"	"	"	"	"	"	"	"	"	
μ 2931	"	3h 11m	0°	"	M.T.	10:48:00 to 11:08:00	"	"	"	"	"	"	"	"	"	"	"	Poor Focus
μ 2932	6m Star	2h 09m	-10° 17'	Dec 23/24 Thurs	1h 00m W	9:15:00 to 9:28:00	02.5 sec slow	"	"	"	D19	4	68°	good	3, 4	"	"	
μ 2933	84 Ceti	2h 38.5m	-0° 54'	"	1h 00m W	9:38:00 to 9:58:00	"	"	"	"	"	"	"	"	"	"	"	Poor Focus.
μ 2934	7m Star	3h 11m	0°	"	1h 07m W	10:16:10 to 10:36:10	04 sec. slow	"	"	"	"	"	"	"	"	"	"	
μ 2935	7m Star	1h 28.5m	-5° 08'	Jan. 18/19 Tues.	1h 12m W	7:03:00 to 7:18:00	On Time	"	14x17 103aO	"	D19	4m	68°	good	2, 3	"	"	To improve previous #'s.
μ 2936	84 Ceti	2h 38.5m	-0° 54'	"	0h 33m W	7:28:00 to 7:49:00	"	"	"	"	"	"	"	"	"	"	"	
μ 2937	8m Star	2h 47m	-9° 45'	Jan. 26/27	0h 07m W	7:45:00 to 8:00:00	01 sec fast	"	"	"	"	"	"	good	1 poor	"	"	
μ 2938	7m Star	3h 11m	± 0°	"	1h 14m W	8:09:00 to 8:29:00	"	"	"	"	"	"	"	"	1 "	"	"	
2939	Perseus Cluster	2h 16m	+57°	"	2h 28m W	8:39:00 to 8:49:00	On Time	"	3¼x4¼ Eastman II K 14x17 103aO Eastman	"	"	"	"	"	1	"	"	In blue focus.
μ 2940	8m Star	2h 47m	-9° 45'	Feb. 13/14	2h 53m W	8:20:00 to 8:35:00	14 sec fast	"	"	"	"	"	"	good	3	"	"	
μ 2941	7m Star	3h 51.2m	-10° 42'	"	2h 13m W	8:43:00 to 8:58:00	"	"	"	"	"	4±	"	"	"	"	"	
μ 2942	6m Star	3h 48.5m	+1° 33'	Feb. 19/20 Sat.	1h 39m W	7:36:00 to 7:56:10	5 sec slow	"	"	"	"	4m	68°	"	2	"	"	
μ 2943	7m Star	3h 52.8m	-11° 08'	"	2h 03m W	8:06:00 to 8:26:00	11 sec slow	"	"	"	"	"	"	"	"	"	"	

1955

1955

1955

NEG. NO.	REGION	R.A.	DEC.	DATE 1955-	Hour Angle	EXPOSURE	Watch Error	Instrument	Plate Brand or Emulsion	Position of Telescope	DEVELOPMENT Kind	Time	Temp	SEEING Trans.	Stead.	Writing on Plate	Observer	REMARKS
μ 2944	7m Star	3h10m	-11°50'	Feb. 20/21 Sun.	2h30m W	7:51:30 to 8:06:30	7:30 P.M. 31 sec. Slow	13"	14x17" 103aO Eastman	W	D19	4m	68°	Good	2-	N	HB	
μ 2945	44 Eridani	4h26m	+1°18'	"	1h43m W	8:13:35 to 8:33:35	8:45 P.M. 36 sec. Slow	"	"	"	"	"	"	"	2, 1	"	"	
μ 2946	Σ 570	4h33m	-9°50'	Feb. 21/22 Mon.	1h17m W	7:52:10 to 8:12:10	3 01 sec. Slow 7:45	"	"	"	"	"	"	"	2, 1	"	"	
μ 2947	α Ori.	5h06m	-8°44'	"	1h15m W	8:21:00 to 8:42:10	6	"	"	"	"	"	"	"	"	"	"	
μ 2948	55 Ori.	5h49.4m	-7°35'	"	1h06m W	8:58:00 to 9:18:00	13 sec. Slow 9:30 "	"	"	"	"	"	"	"	"	"	"	
μ 2949	7m Star	3h10m	-11°50'	Feb. 23/24 Wed.	2h36m W	7:43:06 to 8:01:06	01 sec. Slow 7:23	"	"	"	"	"	"	"	2, 1	"	"	
μ 2950	7m Star.	3h54.5m	-11°00'	"	2h14m W	8:08:00 to 8:23:00	2	"	"	"	"	"	"	"		"	"	
μ 2951	Σ 570	4h33m	-9°50'	"	2h21m W	8:49:00 to 9:09:00	3	"	"	"	"	"	"	"	1	"	"	
μ 2952	55 Ori	5h50m	-7°22'	"	1h30m W	9:17:00 to 9:37:00	4 9:50 P.M. 05 sec. Slow	"	"	"	"	"	"	"		"	"	
μ 2953	44 Eridani	4h26.7m	+1°15'	March 16/17 Wed.	3h24m W	8:23:00 to 8:41:00	03 sec fast at 8:00	"	"	"	"	"	"	good	1, 2-	"	"	
μ 2954		5h12.5m	-8°19'	"	3h07m W	8:50:00 to 9:10:03	03 sec slow at 9:15	"	"	"	"	"	"	"	1.	"	"	
μ 2955		5h34.0m	-1°17'	March 17/18 Thurs.	2h36m W	8:25:00 to 9:00:00	7 sec slow	"		"	"	"	"	good	2, 1	"		
μ 2956		7h29.3m	+2°13'	"	1h14m W	9:10:30 to 9:30:30	20 sec slow at 9:45	"		"	"	"	"	"	"	"	"	
2957	Pluto			"		11:16:00 to 11:20:00		42" Refl.	4x5 Eastman 103aO		"	"	"	"	"	"	"	
2958	"			"		11:28:00 to 11:31:00	24 sec Slow at 11:48	"	"		"	"	"	"	"	"	"	
μ 2959		5h31.2m	-1°12'	March 18/19 Friday	2h30m W	8:22:00 to 8:45:00	38 sec Slow	13"	14x17 Eastman 103aO	"	"	"	"	good	3	"	"	
μ 2960		5h07m	-8°52'	"	3h23m W	8:54:00 to 9:14:00		"	"	"	"	"	"	to Fair+	"	"	"	
μ 2961	Σ 630 Ori	4h59.4m	+1°28'	March 19/20 Sat.	2h52m W	8:12:00 to 8:32:03	12 sec fast	"	"	"	"	"	"	good	3	"	"	
μ 2962	8 Can. Min	7h29.3m	+2°13'	"	1h00m W	8:55:00 to 9:10:00		"	"	"	"	"	"	"	"	"	"	
μ 2963	8m Star.	7 37.3	-9°55'	"	1 36 W	9:34:00 to 9:54:00	2 sec fast 10:10	"	"	"	"	"	"	"	"	"	"	
μ 2964		5h31m	-1°15'	March 21/22 Monday	2h29m W	8:10:03 to 8:35:00	28 sec Slow at 7:50	"	"	"	"	"	"	good	3	"	"	
μ 2965	Σ 855	6h6.5m	+2°28'	"	2h27m W	8:45:15 to 9:05:15		"	"	"	"	"	"	"	"	"	"	
μ 2966	8 Ca min.	7h30m	+2°00'	"	1h51m W	9:35:00 to 9:53:00		"	"	"	"	"	"	"	"	"	"	
μ 2967	6m Star	8h16.1m	-12°32'	"	1h36m W	10:05:00 to 10:25:00	29 sec Slow 10:35	"	"	"	"	"	"	"	"	"	"	
μ 2968	630 Ori.	4h49.8m	+1 30	March 22/23 Tuesday	2h56m W	8:05:00 to 8:25:00	21 sec fast	"	"	"	"	"	"	good	"	"	"	
μ 2969	6m Star	6h17m	-9°25'	"	2 07 W	8:34:00 to 8:54:00	21 sec fast at 9:10	"	"	"	"	"	"	"	"	"	"	
μ 2970	18 Mon.	6h45m	+2°28'	March 26/27 Sat.	2h24m W	9:02:15 to 9:22:15	on Time Right 03 sec Slow 9:20	"	"	"	"	"	"	good	3	"	"	
μ 2971		14h17.7m	+16°30'	July 11	1h55m W	9:03:00 to 9:23:00	on Time	"	"	"	"	"	"	good	2, 3	"	"	
26 trailed for 14 μ 2972	189 Piscium	0h45.1m	+5°01'	Oct. 11	1h47m E	9:56:00 to 10:09:00	1h47m E	"	"	"	"	"	"	good	2	"	"	
red 2973	"	0 45.1m	+5 01	Oct. 12	1h46m E	9:05:00 to 10:05:00	1h46m E	"	103aE with Kodaloid Ruby filter	"	"	"	"	"	3	"	"	
2974	m.p. #1362 Grigua	12h52m	+25°52'	1956 March 15	3:06m E	9:54:00 to 10:39:00	8:40 2 sec fast	"	4x5 103aO	"	"	"	"	good	1 poor	"	"	Driving to follow motion
2975	"	"	"	"	2:19 E	11:11:00 to 11:26:00	11:04 4 sec Slow	"	"	"	"	"	"	"	"	"	"	
2976	"	"	"	"	1:30 E	11:30:00 to 12:15:00	12:37 4 sec Slow	"	"	"	"	"	"	"	"	"	"	Driving to follow motion

PAGES 17-18 ARE MISSING

NEG. NO.	REGION Guide Star	R.A.	DEC.	DATE 1956 1957	Hour Angle	EXPOSURE	Watch Error	Instrument	Plate Brand or Emulsion	Position of Telescope	DEVELOPMENT Kind	Time	Temp.	SEEING Trans.	Stead.	Writing on Plate	Observer	REMARKS
pr. 2977	α_2 Librae	14^h48^m	$-15°52'$	May 25 Friday	1^h17^m E	9:24:00 - 9:44:00	02 sec fast	13-inch	103a E with 2444 Plexiglas	W	D 19	4^m	68°	Good	4	N	H.G.	
2978		11 48	$+2°00'$	May 29	1^h25^m W	9:20:44 to 10:10:11	01.5 sec fast	"	"	"	"	"	"	Good	3	N	"	
2979						9:45-9:50 ; 9:51-10:01 ; 10:02-32												
2980	Polar Sequence		+90	June 9	0 25 W	$1\frac{1}{2}^m$, 1, 2, 4, 8^m		"	Red + Plexiglas Blue	"	"	"	"	good	?		"	
1957	1957						1957		1957								1957	
2981	1956h Arend-Roland ☄	$0^h57.5^m$	δ ± 0	Jan 31 Thurs.	3^h28^m W	7:20:00 - 7:26:00	01 sec fast at 6:45 PM	"	103a O 4x5	W	Atkinson D19	4^m	68°	Good	3	N	H.G.	
2982	"	$0^h25.0^m$	$\delta -0°20'$	"	3 37 W	7:35:05 - 7:45:05	07 sec slow 8:00 PM	"	"	"	"	"	"	"	"	"	"	
2983	"	0^h23^m	$-4°30'$	Feb 22 Friday	5^h02^m W	7:36:26 - 7:40:26	25.8 sec fast	"	"	E	"	4^m	68°	good	3	S	"	
2984	"	"	"	"	5^h07^m W	7:43:26 - 7:45:26	24.6 sec fast	"	"	"	"	"	"	"	"	"	"	
2985	Kopff ☄ 1906 IV Search	$11^h43.3^m$	$+6°42'$	Feb. 27/28	1^h27^m E	11:47:00 - 12:13:00	14 sec fast	"	14x17 103a O	W	D 19	4^m	68°	Good	4	N	"	
2986	Rijves ☄ Suspect!	$9^h18.5^m$	$+15°33'$	Mar. 25 Monday	0^h44^m E	8:39:00 - 8:49:00	on Time	"	4x5 103a O	"	"	"	"	Good	3	N	"	☄ not located
2987	"	"	"	"	0^h39^m E	8:52:00 - 8:54:00	☄ on Time 9:40	"	"	"	"	"	"	"	"	"	"	
μ 2988	θ Virg.	$13^h7.7^m$	$-5°18'$	Mar. 27 Wed.	1^h09^m E	11:40:53 - 12:04:53	07 sec slow	"	14x17 "	"	"	"	74-66	Good	3^+	"	"	
μ 2989	"	"	"	Mar. 30-31	1^h05^m E	11:37:00 - 11:57:00	correct M.S.T.	"	"	"	D 76	12	73-66	good	3	"	"	
μ 2990	"	"	"	April 4-5	0^h54^m E	11:35:00 - 11:50:00	"	"	"	"	"	"	"	good	1,0	"	"	
μ 2991	δ Cancri	8^h42^m	$+18°18'$	Apr. 18-19 Thurs Eve.	2^h38^m W	9:40:08 - 10:00:05	03 sec fast	"	"	"	D 76	12	73-66	Good	3	"	"	
μ 2992	β Virginis	11 48	$+2°00'$	"	0^h17^m W	10:25:15 - 10:45:15		"	"	"	"	"	"	Good	3	"	"	
2993	Polar Sequence	13^h	$+90°$	"		10:55:03 - 11:15:03		"	4x5 103a O	"	"	"	"	Good	"	"	"	
2994	" "	"	"	"		11:20:15 - 11:33.45 clouds	01 sec fast at 11:45	"	"	"	"	"	"	good lid last 2^m	"	"	"	
Pr μ 2995	δ Cancri	8^h42^m	+18 18	Apr. 19-20	2^h37^m W	8:50:45 - 9:55:15	03 sec fast 8:0 02.5 " 10:10	"	14x17 103a E.	"	"	"	"	good	2	"	"	Red Plexiglas Filter.
2996	☄ 1956h Arend-Roland	2^h50^m	+47°00' ~~+46 34'~~	Apr. 25-26	8^h21^m W	9:16:23 - 9:21:23	01 sec fast 8:0 05 sec slow 8:0	"	4x5 103a O	E	D 19	4	"	Poor	?	5	"	Thick clouds.
2997	"	3^h02^m	+49°45'	Apr 26/27 Friday Eve		8:14:00 - 8:15:00	01 sec slow 7:22	"	"	E	"	"	68-	good	2-	S	"	
2998	"	"	"	"		8:19:15 - 8:20:18		"	"	"	"	"		"	"	"	"	
2999 a	"	"	"	"		8:28:15 - 8:49:15		13" + 5" Cooke	14x17 8x10 } 103a O	"	D76	12^m	68-	"	2	"	"	
b 3000	"	"	"	"		9:02:00 - 9:06:04		13"	4x5 103a O	"	D19	4^m	"	"	"	"	"	
3001	"	"	"	"		9:13:00 - 9:23:00	02 sec slow 9:35	"	"	"	"	"	"	"	"	"	"	
3002	"	3^h16^m	+52°	Apr. 27 Saturday	7^h01^m W	8:16:00 - 8:16:30	3 sec slow 7:30	"	"	"	"	4	"	good	1	S	"	
3003	"	"	"	"		8:26:10 to 8:26.30		"	"	"	"	"	"	"	"	"	"	
3004	"	"	"	"		8:31:03 - 8:37:03		"	"	"	"	"	"	"	"	"	"	
3005 a b	"	"	"	"	7^h55^m W	8:41:00 to 9:11:00	7 sec slow at 10:00 PM	13" + 5" Cooke	14x17 8x10 } 103a O	"	D 76	12^m	"	"	"	"	"	
3006	"		+54°	Apr. 28 Sunday	7^h45^m W	9:11:00 to 9:11:30	18 sec slow 8:40	13"	4x5 103a O	"	D 19	4^m	"	Poor	"	"	"	
3007	"		"	"		9:20:20 to 9:20:50		"	"	"	"	"	"	very Poor	"	"	"	
3008	"		"	"	8^h10^m W	9:29:00 to 9:36:00	18 sec slow 10:00 PM	"	"	"	"	"	"	"	"	"	"	
3009	"	3^h40^m	+55°40'	Apr. 29	6^h45^m W	8:19:00 - 8:19:30	16 sec slow 8:00 PM	"		"	D 19	4	"	Good	"	"	"	
3010 a b	"	"	"	monday	7^h28^m W	8:33:00 - 9:03:00	"	13" + 5" Cooke	14x17 8x10 } 103a O	"	D 76	12	"	"	"	"	"	
3011	"	"	"	"		9:09:00 - 9:19:00		13"	4x5 103a O	"	D 19	4	"	"	"	"	"	

NEG No.	REGION Guide Star	R.A.	Dec.	DATE 1957	Hour Angle	EXPOSURE	Watch Error	Instrument	Plate Brand + Emulsion	Position of Telescope	DEVELOPMENT Kind	Time	Temp	SEEING Trans	Stead	Writing on Plate	Observer	REMARKS
3012	☆1956h Arend-Roland	3h40m	+55°40'	April 29	7h50m W	9:24:10 - 9:26:10	16 sec Slow at 9:40 PM	13"	4x5 103aO	East	D19	4	68	good	2	5	H.Giclas	
3013	"	3h53m	+57°	April 30 Tuesday	6h49m W	8:32:00 - 8:32:20	14 sec Slow 7:55	"	"	"	"	"	"	good	2	"	"	
3014 a b	"	"	"	"	7 25 W	8:38:00 - 9:11:02		13" + 5" Cooke	14x17 8x10 } 103aO	"	D76	12	"	good	3	"	"	
3015	"	"	"	"	7h43m W	9:20:00 - 9:28:00	14 sec Slow	13	4x5 "	"	D19	4	"	"	"	"	"	
3016	"	4h03m	+58°20'	May 1	6h35m W	8:28:30 - 8:29:00	11 sec Slow	"	"	"	"	"	"	good	3	"	"	
3017	"	"	"	"		8:35:40 - 8:36:00		"	"	"	"	"	"	"	"	"	"	
3018	"	"	"	"	7h15m W	8:39:00 - 9:09:00		"	8x10 103aO	"	"	"	"	"	"	"	"	
3019	"	"	"	"	7h31m W	9:17:00 - 9:25:00	12 sec Slow 9:40 PM	"	4x5 103aO	"	"	"	"	"	"	"	"	
3020	"	4h20m	+59°30'	May 2	6h50m W	8:54:00 - 8:54:30	9 sec Slow 8:00 PM	"	"	"	"	"	"	good	2	"	"	
3021	"		"	"	7h16m W	9:00:00 - 9:20:00	9½ sec Slow 9:30	"	8x10 103aO	"	"	"	"	"	"	"	"	
3022	"	4h30m	+60°20'	May 3	8h15m W	10:09:15 - 10:24:18	22 sec Slow	"	4x5 103aO	"	"	"	"	good	2	"	"	
3023	"	"	"	"	8h21m W	10:33:30 - 10:34:00	" 10:45	"	"	"	"	"	"	"	"	"	"	
3024	"			May 4	7h20m W	9:40:30 - 9:41:00	17 sec Slow	"	"	"	"	"	"	good	3	"	"	
3025	"			Saturday "	7h45m W	9:50:00 - 10:05:30	18 sec Slow 9:20	"	"	"	"	"	"	"	"	"	"	
3026	"	7h42m	+62°50'	May 27 Monday Eve	5h36m W	9:22:00 - 9:22:30	01 sec fast	"	"	"	D19	4	"	good	2	"	"	
3027	"	"	"	"	6h02m W	9:27:00 - 9:47:00	"	"	5x7 103aO	"	"	"	"	"	"	"	"	
3028	A. Region	17h20.7m	+0° 53'	July 24 Wed Eve. 25	1h03m W	10:40:00 - 10:41:00	1½ sec Fast	"	5x4 103aO	W	D19	4	"	good	2±	N	"	
3029	"	18h29.5m	-1 02'	"	M.T.	10:46:00 - 10:47:30		"	"	"	"	"	"	"	"	"	"	
3030	Polar Seq.	19h30m	+90°	"	0h27m E	11:06:15 - 11:21:15		"	"	"	D76	12	"	"		"	"	
3031	" "	"	"	"		11:23:00 - 11:38:00		"	"	"	D76	12m	"	"		"	"	
3032	" "		"	July 29/30	0h17m W	12:57:00 - 1:27:00	On time	"	"	"	D76	12m	"	good	3+	"	"	
μ 3033	ξ 2878 Pegasi	22h12m	+7°47'	"	0h01m E	1:38:00 - 2:08:30	"	"	14x17 103aO	"	"	"	"	"	"	"	"	20s trail P.A.
Pv pl 3034	Polar Seq.	19h05m	+90°	Aug. 6/7 Tues Eve Wed AM		9:09:00 - 9:14:00 ~~9:20:30 - 9:25:30~~	22 Sec slow	"	3½x4¼ D plate with Pleiades 220 & # 103G	"	D19	4	68°	good	3	"	"	
or 3035	" "	"	"		1h04m W	9:20:30 - 9:25:30	"	"	" "	"	"	"	"	"	"	"	"	
μ trail 3036	ξ 2878 Pegasi	22h12m	+7 47	"	2h06m W	15:22:00 - 15:42:00	"	"	14x17 103aO	"	D76	12m	"	good	3+	"	"	
3037	Polar Seq.	1h00m	+90	"	0h22m E	15:50:10 - 16:03:10	21 sec slow	"	4x5 103aO	"	D19	4	68	"	"	"	"	
3038	☆ 1957 D Mrkos	9h23.5m	+38°0'	Aug 7	7h41m W	8:26:00 - 8:26:30	24.5 Slow	"	"	☒	"	"	"	good	1−	5	"	
3039	"	9h37.7m	+38°10'	Aug 8 Thursday	7 22 W	8:16:00 - 8:16:30	25½ Slow 29½ sec. Slow	"	"	☒	D19	4	66−	good	1+	"	"	
3040	"	"	"	"		8:31:15 - 8:32:15		"	"	"	"	"	"	"	"	"	"	
3041	"	"	"	"	7 41 W	8:34:00 - 8:36:00	9:40 30 sec Slow	"	"	"	"	"	"	"	"	"	"	
3042	"	11h00m	+36° 22'	Aug. 14	7h02m W	8:55:20 - 8:56:20	45 Slow 8:00 5½ " 9:47 PM	"	"	"	"	"	"	Fair+	1	"	"	clouds
3043	"	11h10.5m	+35°38'	Aug 15 Thurs.	6h26m W	8:27:00 - 8:27:30	5½ Slow 8:10	"	"	"	"	"	"	Fair	1	"	"	
3044 a b	"	"	"	"	6 52 W	8:33:10 - 8:53:10	6½ S Slow 9:05	13" + 5" Cooke	14x17 8x10 } 103aO	"	"	"	"	Fair+	1	"	"	Big Plate Badly fogged (Cold.)
3045	"	12h17m	+29 28'	Aug 21/22 Wed.	6 05 W	8:47:00 - 8:47:30	9.25 fast 8:25	13"	4x5	"	"	"	68	Good	2	"	"	
3046 a b	"	"	"	"	6 35 W	8:53:30 - 9:18:00	9 sec fast 9:28	13" + 5" Cooke	14x17 8x10 } 103aO	"	"	"	"	"	"	"	"	

	NEG. No.	REGION Guide Star	R.A.	Dec.	DATE 1957	Hour Angle (end)	EXPOSURE	Watch Error	Instrument	Plate Brand Em. + Filter etc.	Position of Telescope	DEVELOPMENT Kind	Time	Temp	SEEING Trans.	Stead	Writing on Plate	Observer	REMARKS
✓ μ	3047	Σ 2878 Pegasi	22h 12.1m	+7° 45'	Aug 21/22 Wed + Thurs AM	0h 13m W	12:33:00 - 12:53:00	5½ sec fast 12:05	13"	14x17 103a O	W	D19	4m	68°	Good	3	N	H. Giclas	Plate Broken in Development.
✓ tr μ	3048	189 Piscium	0h 45.8m	+5° 04'	"	1h 00m E	13:58:00 - 14:13:00		"	"	"	"	"	"	Good	3	"	"	Tr = Trail 20s.
✓ tr μ	3049	ξ Piscium	1h 11m	+7° 20'	"	0h 54m E	14:24:00 - 14:44:00	3½ sec fast 2:55 AM	"	"	"	"	"	"	Good	3⁻	"	"	
—	3050	Mrkos ☄ 1957 d		+28° 12'	Aug 22/23	6h 19m W	9:06:00 - 9:06:30	1½ sec fast 8:48	"	4x5 103a O	E	"	"	"	Poor Clouds	1	S	"	
—	3051	"	13h 01m	+22 19	Aug 27 Tues.	5 57 W	9:00:00 - 9:00:30	0 sec fast 8:45	"	"	"	"	"	"	Good	2	"	"	
—	3052 a b	"	"	"	"	6 21 W	9:06:00 - 9:26:00	0 sec fast 9:50	13" + 5" Cooke	14x17 8x10 103a O	"	"	"	"	Some Cloudy	"	"	"	14x17 plate broke in holder.
✓ tr μ	3053	Σ 2878 Pegasi	22h 12m	+7° 47'	Aug 30	0h 24m W	11:19:00 - 11:39:00	14 sec Slow	13"	14x17 103a O	W	D19	4	68	Good	3	N	"	
✓ tr μ	3054	"	"	"	Sept 2/3 Monday Tues	1h 34m W	13:10:00 - 13:25:00	19 sec fast 12:25	"	"	"	"	"	"	Good	2+	"	"	
✓ tr μ	3055	189 Pisc	0h 45.8m	+5° 04'	"	0h 12m E	13:58:00 - 14:13:00		"	"	"	"	"	"	Good	2	"	"	
✓ tr μ	3056	ξ Pisc.	1h 11m	+7° 20'	"	0h 08m E	14:23:00 - 14:43:00	17 sec fast 2:55	"	"	"	"	"	"	Good	"	"	"	
—	3057	Mrkos ☄ 1957 d	14h 11.5m	+7° 58'	Sept 11 Wed.	5h 19m W	8:31:29 - 8:31:59	29 sec fast	"	4x5 "	E	"	"	"	Good	2+	S	"	Bright moonlight.
—	3058	"	"	"	"	5h 30m W	8:39:29 - 8:44:29	28½ sec fast 4:05	"	"	"	"	"	"	"	"	"	"	
—	3059	"	14h 21m	+5° 48'	Sept. 14 Saturday	4h 40m W	7:51:30 - 7:52:00	on time	"	"	"	"	"	"	Good	3	"	"	
—	3060	"	"	"	"	5h 01m W	7:56:10 - 8:11:10	"	"	8x10 "	"	"	"	"	"	"	"	"	
✓ tμ	3061	#29 ω Arietis	2h 31m	+14° 50'	Sept. 20/21 Fri - Sat.	1 45 E	12:57:02 - 13:12:02	02 sec fast 12:10	"	14x17 103a O "	W	D19	4	68	Good	2,1	N	"	Plate Cracked in holder. Broken
✓ tμ	3062	"	"	"	"	1 17 E	13:20:02 - 13:40:02	01 sec Slow 12:57	"	"	"	"	"	"	"	"	"	"	
✓ μt	3063	"	"	"	Sept 21/22	1h 47 E	12:47:00 - 13:08:15	01 sec Slow 12:10	"	"	"	"	"	"	Good	2	"	"	
✓ μt	3064	"	"	"	" Sat. Sun.	1h 18m E	13:17:00 - 13:37:00	"	"	"	"	"	"	"	"	"	"	"	
✓ μt	3065	54 Ceti	1h 48m	+10° 58'	"	1h 49 W	15:39:00 - 15:59:10	"	"	"	E	"	"	"	Good	2,1	S	"	
✓ μt	3066	"	"	"	"	2h 22m W	16:08:00 - 16:28:00	01 sec Slow 4:15	"	"	"	"	"	"	"	2	"	"	
✓ μt	3067	"	"	"	Sept 23/24 Mon - Tues	1h 45m W	15:33:00 - 15:48:00	8 sec fast 3:05 AM	"	"	"	"	"	"	Good	3,2	"	"	
✓ μt	3068	"	"	"	"	2h 09m W	15:56:00 - 16:11:10	8 sec fast 4:25 AM	"	"	"	"	"	"		"	"	"	
✓ μ	3069	Polar Seq.		+90°	Sept 26/27	0h 05m E	10:05:15 - 10:25:15	18 sec fast	"	4x5 "	W	D19	4	68	Good			"	
✓ Pv	3070	Σ 2878 Peg.	22h 12m	+7° 47'	Sept 28/29 Sat/Sun	1h 19m W	10:26:10 - 11:27:30	22 sec fast	"	14x17 103 G with #2208 Plexiglas	"	"	"	"	Good	3,2	N	"	
✓ μPv. Latey Sher.	3071 Latouche	Polar Seq.	0h 30m	+90°	"	0h 06m W	11:34:00 - 12:34:00	"	"	"	"	"	"	"	"	"	"	"	
—	3072	Wild-Burnham ☄	0h 28m	-20° 48'	Oct 20 Sunday	0h 35m W	11:31:30 - 11:32:00	04 sec Slow 11:00	"	4x5 103a-O	"	"	"	"	Good	3	N	"	too faint to see E
—	3073	" 1957 f	"	"	"	0 45 W	11:40:00 - 11:41:00		"	"	"	"	"	"	"	"	"	"	ex
—	3074	"	"	"	"	1h 01m W	11:55:00 - 11:56:00	04 sec Slow 12:15	"	"	"	"	"	"	"	"	"	"	meas.
—	3075	"	22h 15m	-34° 20'	Oct 23 Wed.	0h 17m W	8:54:00 - 8:58:00	05 sec Slow	"	"	"	"	"	"	Good	2	"	"	
—	3076	"	"	"	"	0h 27m W	9:06:00 - 9:10:00	"	"	"	"	"	"	"	"	"	"	"	
—	3077	Wild-Burnham ☄	21h 07m	-37° 20'	Oct 24 Thursday	1h 12m W	8:28:00 - 8:32:00	02 sec Slow	"	"	"	"	"	"	Good	2,1	"	"	☄ edge of plate
—	3078	"	"	"	"	1h 23m W	8:39:00 - 8:43:00	"	"	"	"	"	"	"	"	"	"	"	
✓ Pv.	3079	54 Ceti	1h 48m	+10° 54'	"	1h 01m W	12:03:00 - 13:03:00	"	"	14x17 103 G with 2208 Plexiglas	"	"	"	"	"	2+	"	"	
—	3080	Super Nova in #1365	3h 33m	-36° 00'	"	0h 09m E	13:18:00 - 13:38:00	"	"	4x5 103a O	"	"	"	"	"	2,1	"	"	
—	3081	"	"	"	Oct. 28/29	1h 10m W	14:24:00 - 14:43:00	On Time	"	"	"	"	"	"	Cloud cut it	3	"	"	

	NEG NO.	REGION Guide Star	R.A.	Dec.	DATE 1957-8	Hour Angle (end)	EXPOSURE Old Astro. Day	Watch Error	Instrument	Plate Brand Emulsion & Filter	Position of Telescope	DEVELOPMENT Kind	Time	Temp.	SEEING Trans.	Stead.	Writing on Plate	Observer	REMARKS
Pv	3082	Σ 2878 Peg.	22h12m	+7°45'	Nov. 19	2h28m W	8:12:00 - 9:12:00	On Time	13	103G with #2208 Plexiglas 14x17	W	D19	4m	68°	Good for Nimbus clouds later	3	N	HG	Clouds on Part No. for Plate.
Pv	3083	π Pisc. (π 184)	0h45.1m	+5°01'	"	1h33m W	9:49:15 - 10:51:15	"	"	"	"	"	"	"	2nd clouds	"	"	"	almost good enough for photometry.
Pv	3084	Σ 2878 Peg.	22h12m	+7°45'	Nov. 20 Wednesday	1h50m W	7:30:15 - 8:30:15	01s Slow	"	"	"	"	"	"	V. good	3	"	"	
Pv	3085	π Piscium	0h45.1m	+5°01'	"	0h28m W	8:42:00 - 9:42:00		"	"	"	"	"	"	"	"	"	"	
Pv	3086	ζ Piscium	1h12m	+7°20'	"	1h28m W	10:07:00 - 11:07:00		"	"	"	"	"	"	"	"	"	"	
Tr	3087	14 Tauri	3h41.5m	+19°35'	"	0h21m E	11:29:10 - 11:49:10		"	103a O 14x17	"	"	"	"	"	3	"	"	BROKEN IN PLATEHOLDER
	3088	Polar Seq.	3 54	+90°	"	0h18m W	12:12:00 - 12:32:00	09 sec Slow 12:45	"	14x17 103a O	"	"	"	"	"		"	"	
Pv	3089	ω Arietis	2h31m	+14°50'	Nov. 22	0h56m W	10:44:00 - 11:44:00	1/2 sec Slow	"	14x17 103G with 2208 Plex.	"	"	"	"	good	1	"	HG. Pat. Roemer C. Slaughter HG. P. Roemer.	
Tr	3090	14 Tauri	3 41.5	+19 35	"	0 37 W	12:17:00 - 12:37:00	2 sec Slow 13:00	"	103a O 14x17	"	"	"	"	"	1±	"		
Tr	3091	8m Star	3h10m	+17°10'	Nov. 24 Sunday	M.T.	11:03:00 - 11:23:00	7 sec fast	"	"	"	"	"	"	good	1+	"	HG	
Tr	3092	14 Tauri	3h41m	+19°35'	"	0h02m E	11:33:00 - 11:53:00	7s fast 12:15	"	"	"	"	"	"	"	"	"	"	
Pv	3093	8m Star	3h10m	+17°10'	Nov. 25 Monday/Tues.	0h10m E	10:09:00 - 11:09:00	13 sec fast	"	103G 14x17 with #2208 Plex.	"	"	"	"	good	3+	"	"	Uneven background.
Tr	3094	"	"	"	"	0h19m W	11:17:00 - 11:37:00	"	"	103a O	"	"	"	"	"	V good	"	"	
Pv	3095	14 Tauri	3h41.5m	+19°35'	"	1h06m W	11:56:00 - 12:56:00		"	103G with #2208 Plexiglas	"	"	"	"	"		"	"	
Pv	3096	Polar Sequence	7h00m	+90°	"	0h50m E	13:17:00 - 14:17:00		"	"	"	"	"	"	"		"	"	
Pv	3097	δ Cancri	8h43m	+18°18'	"	1h19m E	14:31:00 - 15:31:00		"	"	"	"	"	"	"		"	"	
T	3098	"	"	"	"	0h54m E	15:36:00 - 15:56:00		"	103a O	"	"	"	"	"	3+	"	"	
—	3099	Search for Delgrande Comet Suspect.	20h32m	-26°50'	Dec. 12	3h10m W	6:36:00 to 6:44:00	30 sec fast 6:40+7:10	"	14x17 103a O	E	"	"	"	Good	2-	S	"	Check on Harvard Telegram of Date. Bill Sinton along.
—	3100	Pliades	3h42m	+24°	Dec 20		8:38:10 to 8:40:00	On Time	"	4x5 103a O	W	"	"	"	Good	3	N	HG + Slaughter	Navy Objective grating over Objective.
—	3101	"	"	"	"		9:23:00 to 9:25:00	"	"	"	"	"	"	"	"	"	"	"	"
	3102	Polar Sequence	"	+90	"		9:30:30 to 9:50:30	"	"	"	"	"	"	"	"	"	"	"	Seeing Tests "
	3103	"	"	"	"		9:53:00 to 10:24:10	"	"	14x17 103a O	"	"	"	"	"	"	"	"	" Broken in holder
	3104	Polar Sequence		+90°	Jan. 2		11h35m + 1min		13"	4x5 103a O	W	D19	4	68	good	2,3		HG	Shanks 1mm x 5mm Grating on Objective.
	3105	Pliadias	3h45m	+24°	Jan 7 Tues.	1h36m E	7:14:00 - 7:29:30	On Time	13 Grating x	14x17 103a O	"	"	"	"	V good	1,2	N	"	"
	3106	Hyades Region	4h20.5m	+21°04'	"	1h37m W	7:44:15 - 8:01:14	"	13	"	"	"	"	"	"	"	"	"	Corner fogged due to defective plate in box as received from mfg.
	3107	"	4h21.0m	+21°19'	Jan 9 Thursday	1h17m E	7:54:00 - 8:14:00	10s fast	"	"	"	"	"	"	good	2	"	"	
μT	3108	π Tauri	4h06.1m	+13°21'	"	0h34m E	8:24:15 - 8:44:15	11s fast 9:15	"	"	"	"	"	"	"	"	"	"	"
Tr	3109	Hyades Region	4h21m	+20°54'	Jan 14 Tuesday	0h44m E	8:06:00 - 8:28:00	18s Slow	"	"	"	D19	"	72-66	V good	1	"	"	"
	3110	" "	"	"	"	0h18m E	8:34:00 - 8:54:00		"	"	"	"	"	"	"	"	"	"	"
	3111	" "	"	"	"	0h02m W	9:09:00 - 9:14:00		"	"	"	"	"	71-66	"	"	"	"	"
Pv	3112	" "	"	"	"	1h32m W	9:43:00 - 10:43:00	18s Slow 10:55	"	14x17 103a G with 2208 Plex filter	"	"	"	"	"	"	"	"	Fogged in box some way
μT	3113	π Tauri	4h06.1m	+13°19'	Jan 15 Wednesday	0h49m E	7:45:00 - 8:05:00	11s Slow 7:05	"	103a O	"	"	"	"	"	"	"	"	5. out of focus screws on holder not tight
Pv	3114	8mag Star	3h11m	+17°10'	"	1h35m W	8:33:00 - 9:33:00		"	14x17 103a G with 2208 Plex filter	"	"	"	"	"	"	"	"	
μT	3115	Hyades Region	4h21m	+20°54'	"	0h57m W	9:44:00 - 10:04:00	12 sec Slow	"	103a O 14x17	"	"	"	"	"	"	"	"	

	FG No.	REGION Guide Star	R.A.	DEC.	DATE 1958	Hour Angle (end)	EXPOSURE *Old Astro Day.	Watch Error	Instrument	Plate Brand Emulsion & Filter.	Position of Telescope	DEVELOPMENT Kind	Time	Temp.	SEEING Trans.	Stead.	Writing on Plate	Observer	REMARKS
✓ μT	3116	π Tauri	4h06.5m	+13°20'	JAN 22	0h27m W	8:34:03-8:54:03	on Time	13"	14x17 103aO	W	D19	4m	70-66	Good	2	N	HG	
✓ μT	3117	Hyades	4h21m	+20°54'	Jan. 22 Wed.	0h46m W	9:06:00-9:26:00	"	"	"	"	"	"	"	"	"	"	"	
—	3118	Burnham & Region	16h04m	-14°10'	Jan 27/28 Tues. A.M.	2h00m E	17:48:00-18:03:00	23 sec fast	"	8x10 103aO	"	"	"	"	Good to Fair	0 Poor	"	"	5:48 to 6:03 AM. Tues. AM.
—	3119	"	"	"	"	1h54m E	18:06:23-18:10:23	21 sec fast	"	4x5 103aO	"	"	"	"	"	0	"	"	
✓ Pr	3120	Hyades	4h21m	+20°54'	Feb. 11	2h27m W	8:48:15-9:49:15	02 sec fast	"	14x17 103aE with Red Plex. Fil.	"	"	"	"	Good	2, 3	"	"	Robt. Burnham aloupt guide. Old Emulsion, very dark plate.
✓ μT	3121	"	"	"	Feb. 17	1h40m W	8:16:00-8:36:00	on Time	"	14x17 103aO	"	"	"	"	Good	2, 3	"	HG Burnham	
—	3122	E Burnham 1958a	5h56m	+11°50'	Feb. 24	2h12m W	10:13:12-10:14:12	on time	"	4x5 103aO	"	"	"	"	Poor Cloudy	2	"	1 "	through cloud gap.
—	3123	"	5h56m	+11°40'	Feb. 26 Wed.	0h21m W	8:16:00-8:19:00	02 sec fast	"	"	"	"	"	"	Good	3		HG	Bright moonlight; shielded objective with dome, cut ⅝.
—	3124	"	"	"	"	0h35m W	8:23:00-8:29:00	02 sec fast	"	"	"	"	"	"	"	"		"	"
✓ Red	3125	Hyades	4h21m	+20°45'	March 17	4h53m W	8:55:30-10:00:30	01 sec fast	"	14x17 103aE with Red Plex	"	"	"	68° mean	Good	3	"	HG	Followed very low.
✓ Red	3126	29 ω Arietis	2h31m	+14°55'	Mar 18 Tuesday	5h24m W	7:53:30-8:38:30	01 5 fast 7:25	"	"	"	"	"	"	"	1, 2-	"	R Burnham	Cut off by Dome sill.
✓ Red	3127	14 Tauri	3h41m	+19°25'	"	5h25m W	8:48:00-9:48:00		"	"	"	"	"	"	"	1, 2	"	"	
—	3128	E Burnham 1958a	6h31m	+19°35'	"	3h30m W	10:42:00-10:44:00		"	4x5 103aO	"	"	"	"	"	2	"	"	
✓	3129	Polar Sequence	12h00m	+90°	"	1h32m E	10:52:00-11:12:00		"	"	"	"	"	"	Question able.	"	"	"	Polaris enlarged, probably cloudy to small degree.
✓ Red	3130	β Virginis	11h48.5m	+2°00'	"	0h05m E	11:25:15-12:25:15	06 sec slow 12:40	"	14x17 103aE Red Plex	"	"	"	"	Good?	2+	"	"	
✓ Pred	3131	29 ω Arietis	2h31m	+14°55'	March 19 wednesday	5h43m W	7:51:00-8:51:00	04 sec Slow 7:35	"	"	"	"	"	"	Good	1	S	"	
✓ Red	3132	14 Tauri	3h41m	+19°35'	"	5h42m W	8:59:56-9:59:56		"	"	E	"	"	"	"	1	S	"	
—	3133	Geographos, m.p. Region	7h01m	-2°22'	"	2h43m W	10:11:00-10:21:00		"	8x10 103aO	W	"	"	"	"	2-	N	"	
—	3134	"	"	"	"	3h00m W	10:28:00-10:38:00		"	"	"	"	"	"	"	"	"	"	Pre exposed plate; Fogged before Exposure. Red Plate in Blue Focus.
✓ Red Tr	3135	β Virginis	11h48m	+2°00'	"	0h55m E	11:11:00-11:31:00	08 sec Slow 11:45	"	14x17 103aE (No Filter)	"	"	"	"	"	2	"	"	Fickhoff Images
✓ Pred	3136	8m Star Region	3h10m	+17°10'	April 5 Sat.	6h16m W	8:07:00-8:57:00	on Time	"	14x17 103aE with Red Plex	E	"	"	"	Good	1	S	HG.	Made low on horizon Images Elongated by Rotr.
✓ Tr	3137	93 Tauri	4h38m	+12°12'	Apr. 8/9 Tues	4h43m W	8:20:00-8:40:00	7 sec fast 7:20	"	14x17 103aO	E	"	"	"	Good	2	S	HG. R. Burnham	
—	3138	Burnham E 1958a	7h35m	+26°11'	"	3h07m W	9:57:00-10:00:00		"	4x5 103aO	"	"	"	"	"	"	"	"	
✓ Tr	3139	β Virginis	11h48.5m	+2°00'	"	0h36m E	10:13:00-10:33:08		"	14x17 103aO	W	"	"	"	"	"	N	"	
✓ Tr	3140	θ Virginis	13h08m	-5°22'	"	1h22m E	10:46:00-11:06:00		"	"	"	"	"	"	"	"	"	"	
✓ Pred	3141	"	"	"	"	0h06m E	11:21:00-12:21:00	5 sec fast 12:25	"	103aE, 14x17 Red Plex	"	"	"	"	"	2	"	"	
✓ Pred	3142	π Tauri	4h07m	+13°21'	Apr. 9/10	5h32m W	8:04:00-8:54:00	5 sec fast 7:20	"	"	E	"	"	"	Good	1, 2	S	"	
—	3143	Mizar	13h26m	+55°08'	"	3h24m E	9:14:00-9:15:00	4 sec fast 9:40	"	4x5 103aO	W	"	"	"	"	"	N	"	
✓ μTr	3144	η Virginis	12h17.6m	-0°28'	Apr. 10	0h58m E	10:12:30-10:32:30	8 sec fast	"	14x17 103aO	"	"	"	"	Good	1±2	"	HG.	
✓ Pred	3145	"	"	"	"	0h13m W	10:43:00-11:43:00	7½ sec fast 11:50	"	14x17 103aE with Red filter	"	"	"	"	"	"	"	"	
✓ Pred	3146	π Tauri	4h07m	+13°21'	Apr. 13 Sunday	6h03m W	8:19 - 9:09	on Time	"	"	E	"	"	"	Good	1	"	"	
✓ μTr	3147	η Virginis	12h17m	-0°25'	Apr. 14	0h33m E	10:21:00-10:41:00		"	14x17 103aO	W	"	"	"	Good	2+	N	HG & Robt. Burnham	
✓ μTr	3148	ι Leonis	11h25.7m	+3°02'	Apr. 17 Thurs.	0h49m E	9:01:00-9:21:00	03 sec Slow	"	"	"	"	"	"	Good	2-, 1	"	"	
✓ μTr	3149	12 Virginis	12h11.1	+10°29'	"	0h51m E	9:45:00-10:05:00	"	"	"	"	"	"	"	"	"	"	"	
✓ μTr	3150	η Virginis	12h17.8m	-0°25'	"	0h22m E	10:25:00-10:40:00	"	"	"	"	"	"	"	"	"	"	"	

	NEG No	REGION Guide Star	R.A.	Dec	DATE 1958	Hour Angle end.	EXPOSURE	Watch Error	Instrument	PLATE	Position of Telescope	DEVELOPMENT Kind	Time	Temp	SEEING Trans	Stead	Writing on Plate	Observer	REMARKS
✓ μT	3151	τ Leonis	11h25.7m	+3°02'	April 21 Monday	0h01m E	9:34:00 - 9:54:00	On time 01 sec slow	13"	14X17 103a O	W	D19	4m	70-66	good	2+	N	HLG R. Burnham	
✓ μT	3152	12 Virginis	12h11.7m	+10°29'	"	0h18m E	10:02:00 - 10:22:00		"	"	"	"	"	"	"	"	"	"	
✓ μT	3153	η Virginis	12h17.8m	-0°25'	"	0h04m E	10:28:00 - 10:43:00		"	"	"	"	"	"	"	"	"	"	
✓ μ	3154	Polar Sequence	13h00m	+90°	"	0h18m E	10:49:00 - 11:09:00	01 sec slow	"	"	"	"	"	"	"	"	"	"	
✓ Pr	3155	τ Leonis	11h25.0	+3°10'	May 14 Wed.	1h41m W	9:05:00 - 10:05:00	01 s slow	"	14X17 103a E with Red Plex Filter	E	"	"	"	good	3	S	R Burnham H & Nicholas	DARK STREAK on PLATE
✓ Pr	3156	12 Virginis	12h11.0m	+10°29'	"	2h19m W	10:26:00 - 11:26:00		"	"	"	"	"	"			"	"	
✓ Pr	3157	τ Leonis	11h25.5m	+3°10'	May 15 Thurs.	1h31m W	8:50:00 - 9:50:00	4 sec fast	"	"	"	"	"	"	good	3+	"	R. Burnham	
✓ Pr	3158	η Virginis	12h18m	-0°25'	"	2h04m W	10:15:00 - 11:15:00	"	"	"	"	"	"	"	"	"	"	"	
✓ P.S.	3159a	N.P.S.		+90°	Sat. May 17	0h25m W	Slide End open 10:00-10:02 Center " 10:04-10:06 Wait End " 10:08-10:10	on time	"	14X17 103a O	W	"	"	"	good	?	"	HG.	
✓ Pr	3159	5 Serpentis	15h17m	+2°00'	June 5	0h40m E	9:12:00 - 10:12:00	3 sec slow	"	14X17 103a E with Red Plex Filter	"	"	"	"	good	3	N	R Burnham C. Stieglitz	
✓ Tr	3160	"	"	"	"	0h07m E	10:22:00 - 10:42:00	"	"	14X17 103a O	"	"	"	"	"	"	"	"	
✓ Tr	3161	"	"	"	"	0h28m W	10:56:00 - 11:16:00	"	"	"	"	"	"	"	"	"	"	"	
✓ Tr	3162	"	"	"	June 6 Saturday	0h09m E	10:15:00 - 10:30:00	01 sec fast	"	"	"	"	"	"	good	3,4	"	HG	
✓ Tr.	3163	"	"	"	"	0h13m W	10:38:00 - 10:53:00	01 s fast	"	"	"	"	"	"	"	"	"	"	
✓ Pred	3164	ω Serpentis	15h48m	+2°25'	June 9 monday	0h50m E	9:12:00 - 10:12:00	on time 10:00	"	14X17 103a E with Red Filter	"	"	"	"	good	2	"	R Burnham	
✓ Tr	3165	5 Serpentis	15h17.5m	+2°00'	"	0h14m E	10:32:00 - 10:42:00		"	14X17 103a O	"	"	"	"	"	"	"	"	
✓ Tr	3166	"	"	"	"	0 25m W	10:48:00 - 10:58:00	2 sec slow 11:15	"	"	"	"	"	"	"	"	"	R. Burnham + HG.	
✓	3167	Polar Sequence	14h58m	+90°	June 10 Tuesday		10:05:00 - 10:15:00	on time	"	"	"	"	"	"	good		"	R Burnham C Stieglitz	
✓ Tr	3168	ω Serpentis	15h48m	+2°00'	"	0h18m E	10:32:00 - 10:42:00		"	"	"	"	"	"	"	2+	"	"	
✓ Tr	3169	"	"	"	"	0h05m W	10:54:00 - 11:04:00		"	"	"	"	"	"	"	"	"	"	
✓ Tr	3170	6m Star at	16h27m	+0°50'	"	0h12m E	11:16:00 - 11:26:00		"	"	"	"	"	"	"	3	"	"	
✓ Tr	3171	"	"	"	"	0h10m W	11:37:00 - 11:47:00		"	"	"	"	"	"	"	"	"	"	
✓ Pr	3172	"	"	"	"	1h24m W	12:00:00 - 13:00:00	2 sec fast	"	14X17 103a E with Red Filter	"	"	"	"	"	"	"	"	
✓ Pr	3173	6m Star at	17h07m	-1°00'	June 12 Thursday	0h42m E	10:28:00 - 11:28:00	on Time	"	14X17 103a E with Red Filter	"	"	"	"	good	3	"	"	
✓ Tr	3174	"	"	"	"	0h26m E	11:34:00 - 11:44:00		"	14X17 103a O	"	"	"	"	"	"	"	"	
✓ Tr	3175	"	"	"	"	0h09m E	11:51:00 - 12:01:00	2 sec fast	"	"	"	"	"	"	"	"	"	"	
✓ Tr	3176	6m Star at	17h46m	-2°51'	June 13	0h12m E	12:21:00 - 12:31:00	2 sec fast	"	14X17 103a O	"	"	"	"	good	2+	"	"	
✓ Pr	3177	"	"	"	June 16 Monday	0h55m E	10:37:00 - 11:37:00	1 sec fast	"	14X17 103a E with red filter	"	"	"	"	"	1,2	"	"	Light Leak on plate. Fogged area thereon.
✓ Tr	3178	"	"	"	"	0h06m E	12:16:00 - 12:26:00	5 sec fast	"	14X17 103a O	"	"	"	"	"	"	"	"	
✓ Pr	3179	"	"	"	June 17 Tues	0h01m E	11:26:00 - 12:26:00	on time 2 sec slow	"	14X17 103a E with Red filter	"	"	"	"	good	1,2	"	"	
✓ Pr	3180	6m Star at	18h22m	-1°36'	Mon. June 23	1h23m W	1:05:00 - 2:05:00	17s Fast	"	14X17 103a E with Red Filter	"	"	"	"	good	3	"	Strength. Broken in Development	
✓ Pr	3181	"	"	"	Tues June 24	0h23m W	0:00:00 - 1:00:00	14s Fast	"	"	"	"	"	"	"	2+	"	"	U.T. = 7h30m June 25
✓ Tr	3182	"	"	"	" 25	0h03m W	1:16:00 - 1:31:00	"	"	14X17 103a O	"	"	"	"	"	"	"	"	Small piece broken off of corner
✓ Tr	3183	"	"	"	"	1h19m W	1:42:00 - 1:57:00	"	"	"	"	"	"	"	"	3	"	"	
✓ Tr	3184	6m Star at	17h06m	-1°01'	Monday July 7	0h42m E	9:30:00 - 9:50:00	27s to 28s	"	"	"	"	"	"	"	3	"	"	

	Neg No	Region: Guide star	R.A.	Dec.	Date 1958	Hour angle end	Exposure	Watch error	Instrument	Plate	Position of telescope	Development: Kind	Time	Temp	Seeing: Trans.	stead.	Writing on Plate	Observer	Remarks
Tr	3185	6m star at	17h 44m	-2° 57'	Monday July 7	34m E	10:16:00-10:36:00	37s 28s fo	13"	14x17 103aO	W	D19	4m	66°-70°	good	3+	N	C.S.Lang.	
Tr	3186	ω Serpentis	15h 48m	+2° 21'	"	2h 01m W	10:54:00-11:14:00	"	"	"	"	"	"	"	"	"	"	"	
Tr	3187	6m star at	18h 22m	-1° 36m	"	0h 03m E	11:23:00-11:43:00	"	"	"	"	"	"	"	"	"	"	"	
Pr	3188	6m Star at	19h 04m	+0° 30'	Tuesday July 8	0h 01m E	11:25:00-12:25:00	19s Fast	"	14x17 103aE with Red Filter	"	"	"	"	"	"	"	C.D.S.	
Tr	3189	6m star at	16h 26m	+0° 47'	Wed. July 9	1h 15m W	10:37:00-10:57:00	04s slow	"	14x17; 103aO	"	"	"	"	"	"	"	"	
Tr	3190	6m star at	19h 04m	+0° 30'	"	0h 04m E	11:57:00-12:17:00	"	"	"	"	"	"	"	"	"	"	"	
Tr	3191	6m star at	19h 48m	+7° 46'	"	0h 12m E	12:34:00-12:54:00	"	"	"	"	"	"	"	"	"	"	"	
Tr	3192	6m star at	19h 04m	+0° 30'	July 10	0h 02m W	12:09:45-12:19:45	10 sec slow	"	"	"	"	"	"	fair	2.5	"	"	
Tr	3193	6m star at	19h 04m	+0° 30'	"	0h 22m W	12:30:15-12:40:15	"	"	"	"	"	"	"	"	"	"	"	
Tr	3194	6m star at	19h 48m	+7° 46'	"	0h 05m E	12:54:45-13:04:45	"	"	"	"	"	"	"	"	"	"	"	CORNER OUT of focus
Tr	3195	6m Star at	19h 48m	+7° 46'	"	0h 25m W	13:15:00-13:25:00	"	"	"	"	"	"	"	"	"	"	"	" " "
Pr	3196	6m star at	19h 48m	+7° 46'	"	1h 38m W	13:37:00-14:37:00	"	"	14x17 103aE	"	"	"	"	"	"	"	"	
Pr	3197	6m star at	16h 27m	+0° 50'	July 21	2h 35m W	10:35:00-11:35:00	on Time	"	"	"	"	"	"	good	2.5	"	RB	
Tr	3198	6m star at	18h 22m	-1° 36'	Aug 7	0h 34m E	9:02:00-9:12:00	2 sec slow	"	14x17, 103aO	"	"	"	"	fair+	3+	"	RB CDS	
Tr	3199	6m star at	18h 22m	-1° 36'	"	0h 18m E	9:17:15-9:27:15	"	"	"	"	"	"	"	"	"	"	"	
Tr	3200	6m star at	19h 48m	+7° 46'	"	0h 35m E	10:26:00-10:35:00	"	"	"	"	"	"	"	"	"	"	"	
Tr	3201	6m star at	19h 48m	+7° 46'	"	0h 23m E	10:39:00-10:49:00	"	"	"	"	"	"	"	"	"	"	"	
Pr	3202	6m STAR at	20h 24	+2° 48'	Wed. Aug 13	2h 05 W	12:25:00-12:45:00 13:17:00-13:27:00	1 sec f.	"	14x17-103aE	"	"	"	"	FAIR	2	"	R.B.	EXPOSURE INTERRUPTED BY CLOUDS.
Tr	3203	7m STAR at	20h 24	+2° 48'	Sept 5	1h 27m W	11:05:00-11:20:00	6 sec slow	"	14x17 103aO	"	"	"	"	FAIR	2+	"	CDS RB.	Light STREAK ON PLATE
Pr	3204	7m " "	20h 24	+2° 48'	"	2h 30m W	11:41:15-12:26:15	"	"	14x17 103aE	"	"	"	"	"	"	"	"	
Tr	3205	7m " "	20h 24	+2° 48'	Sept 6	1h 58m	11:22:00-11:29:00 11:34:00-11:45:00	10 sec slow	"	14x17 103aO	"	"	"	"	"	2+	"	RB	HAZY. IMAGES ENLARGED. INTERRUPTED BY CLOUDS.
Tr	3206	OΣ527 Equuleus	21h 05	+4° 57'	"	2h 08m	12:08:00-12:38:00	"	"	14x17 IIaO	"	"	"	"	"	2-3	"	RB	
Tr	3207	γ Aquarii "	22h 19	-1° 36	Sept 8	1h 53m W	1:02:00-1:27:00	3 sec slow	"	14x17 IIaO	"	"	"	"	good	2+	"	RB	
Pr	3208	OΣ527 Equuleus	21h 05	+4° 56'	Sept 9	0h 10m W	9:22:30-10:07:30	2 sec slow	"	14x17 103aE	"	"	"	"	"	3+	"	CDS	
ok	3209	M.P. #460 SCANIA	23h 24	+1° 11'	"	2h 13m E	10:15:05-10:25:10	2 sec slow	"	4x5 103aO	"	"	"	"	"	3	"	HLG	
Tr	3210	7m STAR at	20h 24	+2° 47'	"	1h 30m W	10:34:00-11:04:00	"	"	14x17 IIaO	"	"	"	"	"	3+	"	CDS RB	
Tr	3211	7m STAR at	21h 41m	-4° 57	"	0h 40m W	11:13:00-11:33:00	"	"	14x17 IIaO	"	"	"	"	"	3	"	"	
Tr	3212	OΣ527 Equuleus	21h 05m	+4° 57	"	1h 50m W	11:39:00-12:09:00	"	"	14x17 IIaO	"	"	"	"	"	3	"	"	
ok	3213	M.P. #460 SCANIA	23h 24	+1° 11'	"	0h 10m E	12:17:10-12:27:10	"	"	4x5 103aO	"	"	"	"	"	3	"	HLG	
Tr	3214	γ Aquarii	22h 19	-1° 38'	"	1h 22m W	12:32:00-12:52:00	"	"	14x17 IIaO	"	"	"	"	FAIR	2+	"	CDS	Double Images
Tr	3215	7m STAR at	22h 50	+3° 17	"	1h 27m W	13:08:00-13:28:00	"	"	14x17 IIaO	"	"	"	"	"	3+	"	"	
ok	3216	N. Polar Sequ.		+90°	"		13:42:00-14:12:00	"	"	14x17 IIaO	"	"	"	"	"	2+	"	"	
ok	3217	" " "		+90°	"		14:15:00-14:35:00	"	"	14x17 IIaO	"	"	"	"	"	"	"	"	
ok	3218	ω Burnham Slaughter	21h 12m	+10° 45	Sept 10	0h 27m W	10:38:04-10:48:04	4 sec f.	"	4x5 103aO	"	"	"	"	"	"	"	HLG CDS	
ok	3219	" " "	21h 12	+10° 45	"	0h 43m W	10:55:04-11:03:04	"	"	4x5 103aO	"	"	"	"	"	3		"	

	Neg No	Region: Guide or Object	RA	DEC	Date 1958	Hour Angle End	Exposure	Watch Error	Instrument	Plate	Position of Telescope	Development: Kind	Time	Temp	Seeing: Trans	Stead	Writing on Plate	Obsv.	Remarks
✓ Tr	3220	7m STAR at	21h41m	-4°58′	Sept 10	1h49m W	11:18:00-11:38:00	12 sec SLOW	13″	14x17 IIaO	W	D19	4 min	66°-70°	FAIR	3	N	CDS	
✓ Pr	3221	γ Aquarii	22h19m	-1° 38′	"	0h53m W	11:55:00-12:20:00	3 sec f.	"	14x17 103aE	W	"	"	"	"	"	"	"	
✓ Tr	3222	" "	22h19m	-1° 38′	"	1h12m W	12:28:00-12:43:00	"	"	14x17 IIaO	"	"	"	"	"	"	"	"	
✓ Tr	3223	7m STAR at	22h50	+3° 17′	"	1h37m W	13:15:00-13:35:00	"	"	14x17 IIaO	"	"	"	"	"	"	"	"	
— ok	3224	M.P. #460 SCANIA	23h24m	+1° 02′	SATURDAY Sept 13	0h26 E 1h10m W	11:46:00-11:56:00 13:21:00-13:31:00	14 sec f	"	4x5 103aO	"	"	"	"	clear	2+3	"	HLG	
— ok	3225	☿ Burnham Slaughter	21h06m	+11° 20′	Sept 14	1h23m W	11:13:01-11:21:01	1 sec fast	"	4x5 103aO	"	"	"	"	good	2	"	"	
— ok	3226	☿ Burnham Slaughter	21h06m	+11° 20′	"	1h46m W	11:28:00-11:43:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
— ok	3227	M.P. #460 SCANIA	23h24	+1° 00′	"	0h12m E 1h03 W	11:56:01-12:06:01 13:09:01-13:19:01	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
✓ Pr	3228	7m * Aquarius	21h42m	-4° 58′	Sept 15	0h19m W	10:20:00-10:50:00	6 sec SLOW	"	14x17 103aE	"	"	"	"	"	2	"	RB	
— ok	3229	☿ Burnham Slaughter	21h05m	+11° 30′	"	1h14m W	11:00:10-11:10:10	"	"	4x5 103aO	"	"	"	"	"	"	"	HLG	
— ok	3230	M.P. #460 SCANIA	23h24	+1° 04′	"	0h44m E	11:25:00-11:35:00		"	4x5 103aO		"	"	"			"	HLG	
✓ Pr	3231	7mag * Pisces	22h50	+3° 17′	"	1h01m W	12:00:30-12:40:30	4 sec SLOW	"	14x17 103aE	"	"	"	"	good	2	"	RB	
✓ Pr	3232	θ Piscium	23h25	+6° 06′	"	1h15m W	12:48:00-13:28:00	2 sec SLOW	"	14x17 103aE	"	"	"	"	"	"	"	"	
✓ Pr	3233	7mag * Pegasus	23h55	+11° 12′	"	1h53 W	13:57:00-14:37:00	00	"	14x17 103aE	"	"	"	"	"	"	"	"	
✓ Pr	3234	7m * Aquarius	21h42	-4° 58′	Sept 16	0h00m	9:43:00-10:28:00	00	"	14x17 103aE	"	"	"	"	"	3	"	"	
— ok	3235	☿ Burnham Slaughter	21h00	+11° 30′	"	0h57m W	10:33:00-10:43:00	15 sec SLOW	"	4x5 103aO	"	"	"	"	"	2+	"	HLG	
— ok	3236	M.P. #460 SCANIA	23h24	+1° 05′	"	1h07m E	10:53:00-11:04:00		"	4x5 103aO	"	"	"	"	"	"	"	"	
✓ Pr	3237	7mag * Pisces	22h50	+3° 17′	"	0h26m W	11:16:00-12:01:10	2 sec FAST	"	14x17 103aE	"	"	"	"	"	3	"	RB	
✓ Pr	3238	θ Piscium	23h25	+6° 06′	"	0h50 W	12:16:00-13:01:00	4 sec FAST	"	14x17 103aE	"	"	"	"	"	"	"	RB	
✓ Pr	3239	7mag * Pegasus	23h55	+11° 12′	"	1h45 W	13:40:00-14:25:00	5 sec FAST	"	14x17 103aE	"	"	"	"	"	"	"	RB	
✓ Pr	3240	9mag * Pisces	0h05m	-0° 06′	Sept 18	0h18m E	11:40:00-12:25:00	4 sec FAST	"	14x17 103aE	"	"	"	"	"	2-3	"	"	CORNER BROKEN OFF
✓ Pr	3241	6mag * Pisces	0h33m	+12° 56′	"	0h34 W	13:00:00-13:45:00	6 sec FAST	"	14x17 103aE	"	"	"	"	"	"	"	"	
— ok	3242	☿ Burnham Slaughter	20h57m	+11° 50′	Sept 19	0h55 W	10:17:00-10:25:00	19 sec f.	"	4x5 103aO	"	"	"	"	"	"	"	HLG	
— ok	3243	M.P. #460 SCANIA	23h24	+1° 05′	"	1h15m E	10:36:00-10:44:00	"	"	5x7 103aE	"	"	"	"	"	"	"	"	
— ok	3244	☿ Burnham Slaughter	20h46	+12° 52′	Sept 29	1h21 W	9:55:00-10:00:00	23 sec SLOW	"	4x5 103aO	"	"	"	"	—	2	"	"	BRIGHT MOONLIGHT
— ok	3245	☿ Burnham Slaughter	20h43	+12° 35	Oct 2	0h56m W	9:08:00-9:20:00	3 sec SLOW	"	4x5 103aO	"	"	"	"		2	"	"	
Tr	3245	7m * Delphinus	20h23	+2° 47′	Oct 3	1h30 W	9:15:00-9:30:00	8 sec SLOW	"	14x17 103aO	"	"	"	"	fair	2	"	CDS	
Tr	3246	7m * Delphinus	20h24	+2° 48	Oct 6	1h47 W	9:18:00-9:33:00	00	"	14x17 103aO	"	"	"	"	"	"	"	"	
— ok	3247	Double * Suspect	23h06	-2° 42	"	0h06 E	10:23:00-10:28:00	15 sec SLOW	"	4¼x3¼ 103aO	"	"	"	"	"	2-	"	HLG	
Tr	3248	γ Aquarii	22h19	-1° 38′	"	1h11m W	10:40:00-10:55:00	00	"	14x17 103aO	"	"	"	"	"	"	"	CDS	
Tr	3249	9m * Pisces	0h05m	-0° 06′	"	0h05 E	11:05:00-11:25:00	00	"	14x17 103aO	"	"	"	"	"	"	"	CDS	
Tr	3250	θ Piscium	23h25	+6° 06	"	1h35 W	11:58:00-12:18:00	00	"	14x17 103aO	"	"	"	"	"	"	"	"	
Tr	3251	6m * Pisces	0h33	+12° 56	"	1h30 W	13:06:00-13:26:00	00	"	14x17 103aO	"	"	"	"	Poor	"	"	"	
Tr	3252	7m * Delphinus	20h24	+2° 48	Oct 7	1h30 W	9:04:00-9:19:00	16 sec SLOW	"	14x17 103aO	"	"	"	"	good	3	"	"	
— ok	3253	Double * Suspect	23h06	-2° 42	"	0h41 E	9:28:10-9:48:10	28 SLOW	"	5x7 103aO	"	"	"	"	"	2-3	"	HLG	

	Neg No	Region: Guide or Object	RA	DEC	Date 1958	Hour Angle End	Exposure	Watch Error	Instrument	Plate	Position of Telescope	Development: Kind	Time	Temp	Seeing: Trans	Stead	Writing on Plate	Obsv.	Remarks
—	3254	Double * Suspect	23h07	-2°52′	Oct 7	0h29E	9:56:00-10:00:00	28 SLOW	13"	103aO 3¼x4½	W	D19	4min	66-70			N	HLG	
Tr	3255	9m * Pisces	0h05	-0°06′	"	0h55E	10:10:00-10:30:00	16 SLOW	"	103aO 14x17	"	"	"	"	good	3	"	CDS	
Tr	3256	γ Aquarii	22h19	-1°38	"	1h15W	10:45:00-10:55:00	17 SLOW	"	103aO 14x17	"	"	"	"	"	2	"	"	
Pr	3257	9m * Pisces	0h05	-0°06	"	0h27W	11:15:00-11:55:00	18 SLOW	"	103aE 14x17	"	"	"	"	"	3	"	"	PLATE BROKEN
Tr	3258	θ Piscium	23h25	+6°06	"	1h35W	11:59:05-12:19:05	20 SLOW	"	103aO 14x17	"	"	"	"	"	"	"	"	
Tr	3259	6m * Pisces	0h33	+12°56	"	1h37W	13:10:00-13:30:00	21 SLOW	"	103aO 14x17	"	"	"	"	"	"	"	"	
Tr	3260	γ Aquarii	22h19	-1°38	Oct 8	1h15W	10:40:00-10:50:00	10 sec FAST	"	103aO 14x17	"	"	"	"	"	2	"	RB	
Pr	3261	9m * Pisces	0h05	-0°06′	"	0h38W	11:15:05-12:00:05	8 sec f.	"	103aE 14x17	"	"	"	"	fair	2-	"	"	
Tr	3262	7m * Pegasi	23h55	+11°12′	"	2h05W	13:00:00-13:15:00	7 sec f.	"	103aO 14x17	"	"	"	"	"	"	"	"	
Tr	3263	97 Piscium	1h17m	+18°06	Oct 9	1h26E	10:55:00-11:15:00	24 sec SLOW	"	103aO 14x17	"	"	"	"	"	3	"	RB	
Tr	3264	6m * Aries	1h57	+26°49	"	0h59E	11:50:00-12:10:00	"	"	103aO 14x17	"	"	"	"	"	2-3	"	"	
Tr	3265	72 Piscium	1h02m	+14°41	"	0h33W	12:30:00-12:50:00	"	"	103aO 14x17	"	"	"	"	"	3	"	"	
Tr	3266	6m * Pisces	0h33	+12°56	"	1h54W	13:23:00-13:43:00	27 sec FAST	"	103aO 14x17	"	"	"	"	good	2-3	"	"	
—	3267	Double * Suspect	23h07	-2°42	Oct 10	0h31W	10:35:00-10:50:00	10 sec f.	"	103aO 5X7	"	"	"	"	"	3-4	"	HLG	
Tr	3268	97 Piscium	1h27m	+18°06	"	1h00E	10:53:00-11:13:30	2 sec SLOW	"	103aO 14x17	"	"	"	"	"	3-4	"	CDS	
Tr	3269	6m * Aries	1h57m	+20°49	"	1h00E	11:49:00-12:04:00	"	"	103aO 14x17	"	"	"	"	"	"	"	"	
Tr	3270	72 Piscium	1h02m	+14°41′	"	0h22W	12:15:07-12:35:07	"	"	103aO 14x17	"	"	"	"	"	"	"	"	
Tr	3271	7m * Pegasi	23h53	+11°12′	"	2h05W	12:55:00-13:10:00	"	"	103aO 14x17	"	"	"	"	"	"	"	"	
Tr	3272	72 Piscium	1h02	+14°41	Oct 13	0h02W	11:02:00-12:02:00	6 sec SLOW	"	103aE 14x17	"	"	"	"	"	3	"	RB	
—	3273	Palomar Survey Strip	7h12	-14°30	Nov 12	1h33W	17:04:00-17:44:00	4 sec SLOW	"	103aO 8x10	"	"	"	"	"	"	"	HLG	
—	3274	" " "	7h12	-14°30	Nov 13		14:02:15-	2 sec SLOW	"	103aO 8x10	"	"	"	"			"		
—	3275	☄ Susp. Region	23h12	+3°05	Dec 1	3h45W	10:07:15-10:43:15	15 f.	"	103aO 8x10	"	"	"	"	fair	2	"	CDS RB	
—	3276	☄ " "	23h28	+2°12	Dec 2		9:00:00-9:40:00	1 sec f	"	103aO 8x10	"	"	"	"	"	1-2	"	RB	
Pr	3277	97 Piscium	1h27	+18°05	Dec 9	0h57E	6:44:00-7:44:00	24 f.	"	103aE 14x17	"	"	"	"	good	3	"	CDS RB	
Tr	3278	6m Arietis	1h57	+20°49	"	1h02E	7:48:00-8:10:00	"	"	103aO 14x17	"	"	"	"	"	3+	"	"	
Tr	3279	30 Arietis	2h34	+24°26	"	0h48E	8:30:00-9:00:00	"	"	IIaO 14x17	"	"	"	"	"	"	"	"	
Pr	3280	30 Arietis	2h34	+24°26	"	0h01W	9:05:10-9:50:10		"	103aE 14x17	"	"	"	"	"	"	"	"	
Tr	3281	55 Arietis	3h06	+28°53	"	0h03W	9:55:00-10:25:00	"	"	IIaO 14x17	"	"	"	"	"	"	"	"	
Tr	3282	ξ Persei	3h51	+31°44	"	0h04W	10:40:00-11:10:00	"	"	IIaO 14x17	"	"	"	"	"	3	"	"	
Tr	3283	9m * Persei	4h32	+32°28	"	0h02E	11:15:00-11:45:00	"	"	IIaO 14x17	"	"	"	"	"	"	"	"	
	3284	N. Polar Sequ.		+90°	"		11:58:00-12:28:00	"	"	IIaO 14x17	"	"	"	"	"	"	"	"	
	3285	97 Piscium	1h27	+18°06	Dec 10	1h13E	6:45:00-7:25:00	25 f	"	IIaO 14x17	"	"	"	"	"	2+	"	"	
	3286	6m * Arietis	1h57	+20°49	"	1h00E	7:45:00-8:07:00	"	"	IIaO 14x17	"	"	"	"	"	3	"	"	
	3287	30 Arietis	2h34	+24°25	"	0h40E	8:18:00-9:03:00	"	"	IIaO 14x17	"	"	"	"	"	3+	"	"	
	3288	55 Arietis	3h06	+28°53	"	0h01E	9:35:00-10:15:00	11 Eb	"	IIaO 14x17	"	"	"	"	"	"	"	"	

	NEG	REGION Guide or OBJECT	RA	DEC	DATE 1958	Hour Angle Est.	Exposure	W.C.	INST.	PLATE		POSITION T&L	DEVELOPMENT KIND	TIME	TEMP	SEEING STEAD	TRAN	Writing	OBSV	REMARKS
Tr	3289	ξ Persei	3h51	+31°44	Dec 10	0h05W	10:25:00-11:05:00	11 s	13"	IIaO	14x17	W	D19	4 min	66-70	3	Good	N	CDS RB	
Tr	3290	9m ★ Persei	4h32	+32 28	"	0h12 E	11:12:00-11:52:00	"	"	"	"	"	"	"	"	"	"	"	"	
Pr	3291	9m ★ Persei	4h32	+32°28	"	1h18W	12:00:00-13:00:00	"	"	103a E	"	"	"	"	"	"	"	"	"	
	3292	N. Pole Sequ.		+90°	"		13:06:00-13:46:00	"	"	IIaO	"	"	"	"	"	"	"	"	"	
Tr	3293	97 Piscium	1h27	+18°06	Dec 11	0h55E	6:58:00-7:38:00	19 sec s	"	"	"	"	"	"	"	"	fair	"	"	TRAIL DEFECT.
Tr	3294	30 Arietis	2h34	+24°26	"	0h40 E	8:05:00-9:00:00	"	"	"	"	"	"	"	"	"	Good	"	"	
	3295	55 Arietis	3h06	+28°53	"		9:10:00- 9:34:00	"	"	"	"	"	"	"	"	3	"	"	"	Exposure stopped by clouds at 9:34
—	3296	Palomar Region	7h16m	-14°30	"	0h02 E	13:40:00-14:20:00	3 sec slow	"	103aO	8x10	"	"	"	"	3	"	"	RB	
Tr	3297	30 Arietis	2h34	+24°26	Dec 12	0h41 E	8:00:00-8:55:00	14 f.	"	IIaO	14x17	"	"	"	"	2-3	fair	"	CS RB	
Tr	3298	55 Arietis	3h06.5	+28°53	"	0h09 E	9:00:00-10:00:00	18 s	"	"	"	"	"	"	"	"	"	"	CS RB	
Tr	3299	ξ Persei	3h51	+31°44	"	0h12 W	10:05:00-11:05:00	17-20 f	"	"	"	"	"	"	"	2	"	"	"	
Tr	3300	55 Arietis	3h06.5	+28°53	Dec 14	0h15 W	9:19:00-10:19:00	23-20 f	"	"	"	"	"	"	"	2+	"	"	CS	
Tr	3301	ξ Persei	3h51	+31°44	"	0h42 W	10:27:00-11:27:00	20 f	"	"	"	"	"	"	"	"	"	"	"	
Tr	3302	9m ★ Persei	4h32	+32°28	Dec 15	0h02 W	10:25:00-11:25:00	12-11 f	"	"	"	"	"	"	"	3	"	"	RB	
NPS	3303	N. Polar Sequence		+90°	"		11:48:00-12:48:00	11-10 f	"	"	"	"	"	"	"	"	"	"	"	
Tr	3304	9m ★ Persei	4h32	+32°28	Dec 16	0h52W	11:10:00-12:10:00	3 S	"	"	"	"	"	"	"	"	good	"	"	
	3305	6m ★ Aurigae	5h01.4	+32°15	Jan 5	1h28 E	8:30:00-9:00:00	2 s slow	"	"	"	"	"	"	"	2	fair	"	RB	Exposure stopped by haze
1959 Pr	3306	97 Piscium	1h27	+18°06	Jan 8	1h38W	7:30:00-8:30:00	28 slow	"	103aE	14x17	"	"	"	"	"	"	"	"	
Pr	3307	6m ★ Aries	1h57	+20°49	Jan 11	2h00W	7:37:00-9:00:00	12 F	"	"	"	"	"	"	"	3+	Good	"	CDS	
Pr	3308	9m ★ Perseus	4h32	+32°28	"	1h30W	9:39:00-11:09:00	"	"	"	"	"	"	"	"	"	"	"	"	
Pr	3309	30 Arietis	2h34	+24°26	Jan 12	2h18W	8:20:00-9:50:00	6 F	"	"	"	"	"	"	"	3	"	"	RB	
Pr	3310	ξ Persei	3h51	+31°44	"	2h40W	10:01:00-11:31:00	28 s	"	"	"	"	"	"	"	"	"	"	"	
—	3311	⊕ Search Region	2h35	+26°02	Jan 27	1h04W	7:10:00-7:40:00	2 s 5 s	"	103aO	8x10	"	"	"	"	3+	"	"	RB + CS	
—	3312	⊕ Search Region	2h35	+26°02	"	2h13W	8:19:00-8:49:00	5 s 6 s	"	"	"	"	"	"	"	"	"	"	"	
	3313	30 Arietis	2h34	+24°26	Jan 28		7:15:00-8:15:00	14 s-16	"	IIaO	14x17	"	"	"	"	2	"	"	"	
—	3314	⊕ Search Region	2h24	+26°47	Jan 29	2h31W	7:45:00-8:45:00	29 s	"	"	"	"	"	"	"	2+	fair	"	"	Sky hazy last 15 min.
	3315	56 Arietis	3h09	+27°64	Jan 30	1h56W	8:26:00-8:56:00	21-20 f	"	103aO	14x17	"	"	"	"	3	fair+	"	"	
	3316	56 Arietis	3h09	+27°04	"	2h41W	9:09:00-9:39:00	19-18 f	"	"	"	"	"	"	"	"	"	"	"	
Tr	3317	π Cancri	9h12	+15°09	"	1h13E	11:22:00-11:52:00	16-15 f	"	"	"	"	"	"	"	2	"	"	"	
Tr	3318	P142 Cancri	8h17	+20°54	"	0h24W	12:01:00-12:31:00	14-13 f	"	103aO	14x17	"	"	"	"	2+	"	"	"	
—	3319	⊕ Search	3h13.6	+25°30	Jan 31	0h58W	7:47:00-7:57:00	3 f	"	"	4x5	"	"	"	"	"	"	"	"	
—	3320	⊕ Search	"	"	"	1h17W	8:06:00-8:16:00	"	"	"	"	"	"	"	"	"	"	"	"	
	3321	55 Arietis	3h06	+28°53	"	2h17W	8:22:00-9:22:00	3-2 f	"	103aE	14x17	"	"	"	"	"	good	"	"	
Tr	3322	π Cancri	9h12	+15°09	"	0h58E	11:40:00-12:00:00	2-3 s	"	103aO	"	"	"	"	"	"	fair	"	"	
Tr	3323	P142 Cancri	8h17	+20°54	"		12:09:00-12:29:00	4-5 s	"	"	"	"	"	"	"	"	"	"	"	

	NG #	REGION: GUIDE or OBJECT	RA	DEC	DATE 1959	Hour Angle (END)	Exposure	W.e.	INST.	PLATE	Position: TEL.	DEVELOPMENT: KIND	TIME	TEMP	SEEING: STEAD	TRANS.	Writing	OBSV.	REMARKS
Tr	3324	Ψ Leonis	9h41	+14°15	JAN 31	0h18 E	12:48:00-13:08:00	6-7 s	13"	103aO 14x17	W	D19	4 min	66-70	2+	f-good	N	CDS RB	
	3325	⚥ Search	3h09	+27°04	Feb 1	0h57 W	7:31:00-7:51:00	17 f	"	" 4x5	"	"	"	"	3	FAIR	"	RB	
	3326	⚥ Search	3h09	+27°04	Feb 1	1h26 W	8:00:00-8:20:00	"	"	" "	"	"	"	"	"	"	"	"	
	3327	π Cancri	9h12	+15°09	"	1h02 E	11:32:00-11:52:00	"	"	" 14x17	"	"	"	"	"	"	"	"	
	3328	P.42 Cancri	8h17	+20°54	"	0h33 W	12:10:00-12:30:00	"	"	" "	"	"	"	"	2+	good	"	"	
	3329	Ψ Leonis	9h41	+14°15	"	0h13 E	12:48:00-13:08:00	"	"	" "	"	"	"	"	2	"	"	"	
	3330	PLEIADES	3h41	+20°46	Feb 3	1h05 W	7:20:00-8:20:00	—	"	IIaO 14x17	"	"	"	"	2	FAIR	"	RB	} TWO fields on PLATE - for Mag Calib
	"	"	"	+27°45	Feb 4	0h38 W	7:20:00-7:50:00	—	"		"	"	"	"	"	"	"	"	
	3331	P.42 Cancri	8h17	+20°54	"	0h14 W	11:02:00-12:02:00	—	"	103aE 14x17	"	"	"	"	2+	good	"	CDS RB	
	3332	π Cancri	9h12	+15°09	Feb 5	0h06 E	11:27:00-12:27:00	25s 26s	"	" "	"	"	"	"	2	FAIR	"	CJ	
	3333	PLEIADES	3h41	+20°46	Feb 10	1h07 W	7:35:00-7:55:00	0	"	103aO 14x17	"	"	"	"	3	"	"	RB	TWO fields on plate
	3334	Ψ LEONIS	9h41	+14°15	"	1h14 E	10:30:00-11:30:00	0	"	103aE 14x17	"	"	"	"	2-3	good	"	"	
	3335	PLEIADES	3h41	+27 44	Feb 26		7:35:15-7:55:15		"	103aO 14x17	"	MetSulf	12min	"	2+	"	"	CDS RB	TWO fields on plate
	3336	a² Leonis	10h06	+12° 13	"		9:25:00-10:25:00	0	"	103aE 14x17	"	"	"	"	"	"	"	"	
	3337	Ψ Leonis	9h41	+14 15	Feb 27	1h16 E	10:05:00-10:25:00	0	"	103aO "	"	"	"	"	2	"	"	"	
	3338	a² Leonis	10 06	+12 12	Mar 2		10:35:00-11:00:00	0	"	103aE "	"	D19	4 min	"	2-	"	"	CDS	(Poor Seeing cut Exp)
	3339	ε Leonis	9 43	+24 00	" 4	1 25 E	9:30:00-9:60:00	0	"	103aO "	"	"	"	"	2+	"	"	CJ RB	
	3340	ε Leonis	"	"	" 5	1 28 E	9:30:00-9:60:00	0	"	" "	"	"	"	"	"	"	"	CJ RB	
	3341	ω Hydrae	9 03	+5 18	"	0 24 E	9:55:00-10:15:00	0	"	" "	"	"	"	"	"	"	"	"	
	3342	75 Cancri	9 06	+26 50	"	0 05 E	10:20:00-10:40:00	0	"	" "	"	"	"	"	"	"	"	"	
	3343	2 Sextantis	9 36	+4 33	"	0 04 E	10:46:00-11:06:00	0	"	" "	"	"	"	"	"	"	"	"	
	3344	P Leonis	10 30	+9 34	"	0 50 W	12:15:00-12:35:00	0	"	" "	"	"	"	"	"	"	"	"	
	3345	59 Leonis	10 58	+6 22	"	0 27 W	12:40:00-13:00:00	0	"	" "	"	"	"	"	"	"	"	"	
	3346	ω Hydrae	9 03	+5 18	Mar 6	0 20 E	9:53:00-10:13:00	0	"	" "	"	"	"	"	"	"	"	CDS	
	3347	2 Sextantis	9 36	+4 53	"	0 04 E	10:42:00-11:02:00	0	"	" "	"	"	"	"	2	"	"	"	
	3348	59 Leonis	10 58	+6 22	"	0 02 W	12:10:00-12:30:00	0	"	" "	"	"	"	"	2-	"	"	"	
	3349	ω Hydrae	9 03	+5 18	Mar 7		8:50:00-9:50:00	0	"	103aE "	"	"	"	"	2+	"	"	"	
	3350	75 Cancri	9 05	+26 50	"	0 03 W	10:09:00-10:29:00	0	"	103aO "	"	"	"	"	2	"	"	"	
	3351	P Leonis	10 30	+9 34	"	0 16 E	10:40:00-11:40:00	0	"	103aE "	"	"	"	"	2-	"	"	"	
	3352	P "	"	"	"	0 15 W	11:51:00-12:11:00	0	"	103aO "	"	"	"	"	"	"	"	"	
	3353	"	"	"	Mar 8	0 08 W	11:40:00-12:00:00	0	"	" "	"	"	"	"	3+	"	"	RB	
	3354	59 Leonis	10 58	+6 22	"	0 49 W	12:10:00-13:10:00	0	"	103aE "	"	"	"	"	2+	"	"	"	
	3355	ε Leonis	9 43	+24 0	Mar 9	1 46 E	9:00:00-9:20:00	0	"	103aO "	"	"	"	"	2+	"	"	CJ RB	
	3356	ω Hydrae	9 03	+5 18	"	0h12 E	9:30:00-9:50:00	"	"	" "	"	"	"	"	"	"	"	"	
	3357	75 Cancri	9 06	+26 50	"	0h04 E	10:00:00-10:20:00	"	"	" "	"	"	"	"	"	"	"	"	

NEG #	Region: Guide or Object	Region: RA	Region: Dec	Date 1959	Hour Angle (end)	Exposure	watch error	Instrument	Plate		Telesc. Position	Development: kind	Development: time	Development: temp	Seeing: steadyness	Seeing: Transparency	write on — end	obs.	Remarks
3358	2 Sextantis	9h 36	4°53'	Mar 9	0 04E	10:31:- 10:61:-	0	13"	103a O	14x17	W	D19	4min	68°-70°	2+	good	N	CS RB	
3359	a² Leonis	10 06	12 12	"	0 36W	11:00 - 12:00 -	0	"	103a E	"	"	"	"	"	"	"	"	"	
3360	59 Leonis	10 58	6 22	"	0 14W	12:10 - 12:30	0	"	103a O	"	"	"	"	"	"	"	"	"	
3361	75 Cancri	9 06	26 50	Mar 10	0 50E	8:30 - 9:30	0	"	103a E	"	"	"	"	"	"	"	"	RB	
3362	α₂ Leonis	10 06	+12 12	"	1 15E	9:45:- 10:05	0	"	103a O	"	"	"	"	"	"	"	"	"	
3363	8m* Cancri	8 31	+29 23	Mar 11	0h 57E	8:25:00-8:45:00	0	"	"	"	"	"	"	"	3	"	"	"	
3364	7m* Cancri	8 02	+9 25	"	0h 07W	9:00:00-9:20:00	0	"	"	"	"	"	"	"	2-3	"	"	"	
3365	a² Leonis	10 06	+12 13	"	1h 16E	9:40:00-10:00:00	0	"	"	"	"	"	"	"	"	"	"	"	
3366	6m* Cancri	8 32	+8 37	"	0h 48W	10:10:00-10:30:00	0	"	"	"	"	"	"	"	"	"	"	RB CDS	
3367	ω Hydrae	9 03	+5 18	"	1h 20W	10:35:00-11:35:00	0	"	103a E	"	"	"	"	"	"	"	"	"	
3368	8m* Cancri	8 31	+29 23	Mar 12	0h 58E	8:20:00-8:40:00	0	"	103a O	"	"	"	"	"	3-4	"	"	"	
3369	7m* Cancri	8 02	+9 25	"	0h 04E	8:45:00-9:05:00	0	"	"	"	"	"	"	"	3+	"	"	"	
3370	a² Leonis	10 06	+12 13	"	1h 26E	9:10:00-9:30:00	0	"	"	"	"	"	"	"	"	"	"	"	
3371	6m* Cancri	8 32	+8 37	"	0h 18W	9:36:00-9:56:00	0	"	"	"	"	"	"	"	3	"	"	"	
3372	2 Sextantis	9 36	+4 53	"	0h 16W	10:00:00-11:01:00	0	"	103a E	"	"	"	"	"	"	"	"	"	
3373	ε Leonis	9 43	+24 00	"	1h 18W	11:09:00-12:09:00	0	"	"	"	"	"	"	"	"	"	"	"	
3374	73 Orionis	6 13	+12°34	Apr 1	2h 19W	8:00:10-8:20:10	0	"	103a O	14x17	"	"	"	"	2+	Good	"	RB	
3375	4 Search	10 18.1	+4°53	"	0h 57E	8:50:00-9:10:00	0	"	"	8x10	"	"	"	"	3	"	"	"	
3376	7m* Cancri	8 01.8	+9° 25	"	2h 33W	9:25:00-10:25:00	0	"	103a E	14x17	"	"	"	"	3+	FAIR	"	RB CDS	Sky hazy toward end
3377	4 Search	10 18.1	+4°53	"	0h 57E	10:35:00-10:55	0	"	103a O	8x10	"	"	"	"	3-	"	"	"	milky sky
3378	6m* Cancri	8 32	+8° 37	Apr 8	1h 33W	8:25:00-9:25:00	0	"	103a E	14x17	"	"	"	"	3	Good	"	RB	
3379	8m* Cancri	8 31	+29° 23	"	3h 00W	9:50:00-10:50:00	0	"	"	"	"	"	"	"	2+	"	"	"	
3380	30 Sextantis	10 28	-0° 23	Apr 9	1h 17E	8:10:00-8:30:00	0	"	103a O	"	"	"	"	"	2+	"	"	RB CDS	
3381	13 Sextantis	10 02	+3° 27	"	0h 26E	8:35:00-8:55:00	0	"	"	"	"	"	"	"	"	"	"	"	
3382	6m* Leo	10 12	+21° 25	"	0h 05E	9:00:00-9:20:00	0	"	"	"	"	"	"	"	"	"	"	"	
3383	Σ1527 Leo	11 16	+14° 33	"	0h 50E	9:25:00-9:45:00	0	"	"	"	"	"	"	"	"	"	"	"	
3384	7m* Leo	11 48	+12° 33	"	0h 56E	9:50:00-10:10:00	0	"	"	"	"	"	"	"	"	"	"	"	
3385	30 Sextantis	10 28	-0° 23	Apr 10	0h 57E	8:25:00-8:45:00	0	"	"	"	"	"	"	"	"	"	"	"	Crescent moon
3386	13 Sextantis	10 02	+3° 27	"		8:50:00-9:10:00	0	"	"	"	"	"	"	"	"	"	"	"	
3387	6m* Leo	10 12	+21° 25	"	0h 12E	9:15:00-9:35:00	0	"	"	"	"	"	"	"	"	"	"	"	
3388	Σ1527 Leo	11 16	+14° 33	"	0h 29E	9:40:00-10:10:00	0	"	"	"	"	"	"	"	"	"	"	"	
3389	7m* Leo	11 48	+12° 33	"	0h 37E	10:05:00-10:25:00	0	"	"	"	"	"	"	"	"	"	"	"	
3390	30 Sextantis	10 28	-0° 23	Apr 11	0h 38E	8:40:00-9:00:00	0	"	"	"	"	"	"	"	"	"	"	"	
3391	13 Sextantis	10 02	+3° 27	"	0h 01E	9:05:00-9:25:00	0	"	"	"	"	"	"	"	"	"	"	"	
3392	6m* Leo	10 12	+21° 25	"	0h 50W	9:50:00-10:10:00	0	"	"	"	"	"	"	"	"	"	"	"	

	NEG #	Region: Guide or Object	Region: RA	Region: DEC	DATE 1959	Hour Angle End	Exposure	Watch Error	Instrument	PLATE		Telescope Position	Developement: kind	Developement: time	Developement: temp	Seeing: Stead	Seeing: Trans	Writing	Obs.	Remarks
✓	3393	7m* Leo	11h48.4	+12°33	Apr 28	1h53W	10:40:00-11:40:00	0-0	13"	103aE	14x17	W	D19	4min	66°-70	3	good	N	RB	
✓	3394	13 Sextantis	10h01.5	+3°27	May 7	3h15W	9:45:00-10:45:00	0-0	"	"	"	"	"	"	"	"	" -	"	CDS RB	Weak plate
✓	3395	6m* Cancri	8h31.5	+8°37	May 9		9:20:00-10:35:00	0-0	"	"	"	E	"	"	"	"	fair	S	CDS	Some crescent moon
✓	3396	Σ1527 Leo	11h16.4	+14°33	"		10:55:00-12:10:00	0-0	"	"	"	W	"	"	"	"	"	N	"	
✓	3397	13 Sextantis	10h01.5	+3°27	May 10		8:35:00-9:50:00	0-0	"	"	"	"	"	"	"	3+	"	"	"	Crescent moon
✓	3398	30 Sextantis	10h27.7	-0°23	"		10:05:00-11:20:00	0-0	"	"	"	"	"	"	"	2+	"	"	"	" "
✓	3399	6m* Leo	10h11.8	+21°25	May 11	2h48W	8:50:00-10:05:00	0-0	"	"	"	"	"	"	"	3	"	"	RB	" ", hazy
✓	3400	51 Leonis	10 43.7	+19°09	May 25	2h10W	8:50:00-9:10:00	0-0	"	103aO	"	"	"	"	"	3	"	"	RB	
✓	3401	20 Coma	12 27.2	+21°10	"	56W	9:20:00-9:40:00	0 0	"	"	"	"	"	"	"	2-3	"	"	"	
✓	3402	6m Virgo	12 44.5	+6°13	"	1h15W	9:55:00-10:15:00	0 0	"	"	"	"	"	"	"	2-3	"	"	"	
✓	3403	51 Leonis	10 43.7	+19 09	May 26	2h31W	9:05:00-9:25:00	0 0	"	"	"	"	"	"	"	3	"	"	CDS RB	
✓	3404	20 Coma	12 27.2	+21°10	"	1h06W	9:30:00-9:45:00	0 0	"	"	"	"	"	"	"	"	"	"	"	
✓	3405	6m Virgo	12 44.5	+6°13	"	1h08W	9:50:00-10:05:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
✓	3406	51 Leonis	10 43.7	+19°09	May 27	2h34W	9:05:00-9:25:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
✓	3407	20 Coma	12 27.2	+21°10	"	1h11W	9:30:00-9:45:00	0-0	"	"	"	"	"	"	"	2-3	good	"	"	
✓	3408	6m Virgo	12 44.5	+6°13	"	1h17W	9:55:00-10:10:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
✓	3409	51 Leonis	10 43.7	+19 09	May 28	3h18W	9:20:00-10:35:00	0-0	"	103aE	"	"	"	"	"	3	"	"	"	
✓	3410	20 Coma	12 27.2	+21°10	May 31		8:45:00-9:30:00	0-0	"	"	"	"	"	"	"	2+	"	"	CDS	
✓	3411	6m* Virgo	12 44.5	+6°13	June 1	1h47W	9:20:00-10:20:00	0-0	"	"	"	"	"	"	"	2-3	"	"	RB	
✓	3412	70 Virginis	13 26.0	+14 03	June 2	1h50W	9:30:00-10:00:00	0-0	"	103aO	"	"	"	"	"	2-3	fair	"	"	MISTY CLOSED FROM 9:45:-9:55
✓	3413	GC 18079	13 19.2	+2°21	June 4	0h41W	9:10:00-9:30:00	0-0	"	"	"	"	"	"	"	"	"	"	RB CDS	
✓	3414	70 Virginis	13 26	14 03	"	0h58W	9:40:00-10:00:00	0-0	"	"	"	"	"	"	"	"	"	"	"	broken plate
✓	3415	70 Virginis	13 26	14 03	"	2h23W	10:05:00-11:20:00	0-0	"	103aE	"	"	"	"	"	"	"	"	"	
✓	3416	70 Virginis	13 26	14 03	June 5	0h42W	9:25:00-9:40:00	0-0	"	103aO	"	"	"	"	"	2+	fair+	"	CDS	
✓	3417	GC 18079	13 19.2	+2 21	"	1h25W	9:50:00-10:10:00	0-0	"	"	"	"	"	"	"	3	"	"	"	
✓	3418	70 Virginis	13 26	14 03	June 6	0h25W	9:05:00-9:20:00	0-0	"	"	"	"	"	"	"	3	"	"	"	
✓	3419	GC 18079	13 19	+2 21	"	1h02W	9:30:00-9:50:00	0-0	"	"	"	"	"	"	"	3	"	"	"	
✓	3420	20 Coma	12 27	+21 10	"	3h15W	10:10:00-11:10:10	0-0	"	103aE	"	"	"	"	"	3	"	"	"	
✓	3421	36 Coma	12 56.5	+17°41	"	1h20W	9:20:00-9:40:00	0-0	"	103aO	"	"	"	"	"	2+	good	"	"	
✓	3422	90 Virginis	13 52.1	-1°15	June 7	0h50W	9:55:00-10:15:00	0-0	"	"	"	"	"	"	"	"	fair+	"	"	
✓	3423	GC 18079	13 19	+2°21	"	3h03W	10:30:00-11:45:00	0-0	"	103aE	"	"	"	"	"	"	good	"	"	
✓	3424	36 Coma	12 56	+17°41	June 8	1h18W	9:15:00-9:35:00	0-0	"	103aO	"	"	"	"	"	3	"	"	"	
✓	3425	90 Virginis	13 52	-1°15	"	0h54W	9:45:00-10:05:00	0-0	"	"	"	"	"	"	"	"	"	"	RB	
✓	3426	90 Virginis	13 52	-1°15	"	2h16W	10:15:00-11:30:00	0-0	"	103aE	"	"	"	"	"	2	"	"	"	
✓	3427	36 Coma	12 56	+17 14	June 9	1h22W	9:15:00-9:35:00	0-0	"	103aO	"	"	"	"	"	2	"	"	"	

NEG #	REGION Guide or Object	RA	DEC	DATE 1959	H.A. END	Exposure	Watch Error	INSTR.	PLATE	Telescope Position	DEVELOPEMENT kind	Time	temp	SEEING Stead	TRANS	Writing	OBS.	Remarks
3428	90 Virginis	13h52m	-1° 15	June 9	0h58W	9:45:00-10:05:00	0-0	13"	103aO 14x17	W	D19	4 min	66-70	2	good	N	RB	
3429	36 Coma	12 56	+17°41	"	3h18W	10:15:00-11:30:00	0-0	"	103aE 14x17	"	"	"	"	1-2	"	"	"	
3430	70 Virginis	13 26	+14°03	June 24		9:20:00-9:40:00	0-0	"	103aO 14x17	"	"	"	"	3	"	"	CS	
3431	OΣ275 Bootis	14 07	+7°37	June 26	1h08W	9:10:00-9:25:00	0-0	"	" "	"	"	"	"	2-3	f-gd	"	RB	
3432	Σ1883 Virgo	14 46	+6°10	"	0h49W	9:30:00-9:45:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3433	OΣ275 Bootis	14 07	+7°37	June 28	1h17W	9:10:00-9:25:00	0-0	"	" "	"	"	"	"	3	good	"	"	
3434	Σ1883 Virgo	14 46	+6°10	"	1h00W	9:30:00-9:45:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3435	OΣ275 Bootis	14 07	+7°37	June 29	1h21W	9:10:00-9:25:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3436	Σ1883 Virgo	14 46	+6°10	"	1h04W	9:30:00-9:45:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3437	OΣ275 Bootis	14 07	+7°37	July 8		9:15:00-10:15:00	0-0	"	103aE "	"	"	"	"	2	"	"	"	
3438	Σ1883 Virgo	14 46	+6°10	July 9		9:15:00-10:15:00	0-0	"	" "	"	"	"	"	2-3	fair	"	RB CS.	
3439	← Alcock (1959e)	16h05m	+32°30'	Aug. 27		8:40:00-8:42:00	correct	"	103aO 4x5	"	"	"	"	3	good	"	HG.	
3440	← " (1959e)	"	"	"	2h40mW	8:46:00-8:50:00	0-0	"	"	"	"	"	"	"	"	"	"	
3441	← Bester Hoffmeister	22h 10	-43°00	Aug 31	0h12W	11:51:00-12:11:00	0-0	"	103aO 8x10	"	"	"	"	1-2	f-good	"	RB	
3442	← Alcock II	8h25	+15°18	"	5h29E	16:40:00-16:46:00	0-0	"	103aO 8x10	"	"	"	"	1	good	"	HG	
3443	N. Polar Sequ.		+90°	Sept 1		15:45:00-16:05:00	0-0	"	103aO 14x17	"	"	"	"	2-3	"	"	RB	
3444	← Alcock II	8h33	+12°00	"		16:22:00-16:40:00	0-0	"	103aO 14x17	"	"	"	"	2	"	"	"	Low Altitude, morning twilight
3445	← Bester Hoffmeister	22h15	-42°30	Sept 2		11:20-11:35; 11:40-11:55	0-0	"	103aO 8x10	"	"	"	"	1-2	fair	"	"	Two exp; offset 30" dec.
3446	6m* Pegasi	22h51	+16 35	Sept 28	1h20W	12:00:00-12:05-	0-	"	103aO 14x17	"	"	"	"	2	"	"	"	Stopped by clouds.
3447	← Alcock II Region	13h27	+16°30	Oct 6		7:04:00-7:11:00		"	103aO 8x10	"	"	"	"	1-2	—	"	"	Twilight, low altitude
3448	6m* Pegasi	22h51	+16 35	Oct 7	1h43W	11:45:00-12:00:00	0-0	"	103aO 14x17	"	"	"	"	2-3	fair	"	"	
3449	GC 32655 Pegasi	23 26	+19°37	Oct 7	1h35W	12:10:00-12:25:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3450	← Alcock II Region	14h 01	+24°04	Oct 19		6:50:00-7:10:00	0-0	"	103aO 8x10	E	"	"	"	1-2	—	"	"	Twilight, low altitude
3451	6m Pegasi	22 51	+16 35	Oct 27	1h25W	10:05:00-10:20:00	0-0	"	103aO 14x17	W	"	"	"	3	fair	"	RB	
3452	GC 32655 Pegasi	23 26	+19 37	"	1h15W	10:30:00-10:45:00	0-0	"	" "	"	"	"	"	2-3	"	"	"	
3453	67 Piscium	0h53	+26 56	"	0h23W	11:05:00-11:20:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3454	GC 32655 Pegasi	23 26	+19°37	Nov 4	1h42W	10:25:00-10:40:00	0-0	"	" "	"	"	"	"	0-1	"	"	RB, NT	UNSTEADY SEEING fuzzy images:
3455	67 Piscium	0 53	+26°56	Nov 23	0h55W	9:50:00-10:05:00	0-0	"	" "	"	"	"	"	1-2	"	"	"	
3456	GC 2068 Tria.	1h 39	+29°15	"	0h44W	10:25:00-10:40:00	0 +4	"	" "	"	"	"	"	2	"	"	"	
3457	14 Trianguli	2h 29	+35 56	"	0h19W	10:50:00-11:05:00	+4 +4	"	" "	"	"	"	"	2	"	"	"	
3458	6m* Pegasi	22 51	+16 35	Nov 24	1h15W	8:15:00-8:30:00	0-0	"	" "	"	"	"	"	2-3	"	"	"	
3459	67 Piscium	0 53	+26 56	"	0h36W	8:40:00-9:40:00	0-0	"	103aE 14x17	"	"	"	"	3	"	"	"	
3460	67 Piscium	"	"	"	0h56W	9:45:10-10:00:10	0-0	"	103aO "	"	"	"	"	"	"	"	"	
3461	GC 2068 Tria	1h 39	+29 15	"	0h33W	10:10:00-10:25:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3462	14 Trianguli	2h29	+35°56	"	0h08W	10:35:00-10:50:00	0-0	"	" "	"	"	"	"	"	"	"	"	

NEG #	REGION Guide or OBJECT	RA	DEC	DATE 1959	H.A. END	Exposure O.A.D.	WATCH ERROR	INSTR.	PLATE		Telescope POSITION	DEVELOPEMENT KIND	TIME	TEMP	SEEING STEAD	TRANS	WRITING	OBSV.	REMARKS
✓3463	26 CETI	1^h01^m	+1°06'	Nov 28	0^h32E	8:20:00-8:35:00	0-0	13"	103aO	14x17	W	D19	4 MIN	66-70	1-2	FAIR	N	NT	AIR GLOW
✓3464	ξ' CETI	2^h10	+8° 37	"	0^h30E	9:30:00-9:45:00	0-0	"	"	"	"	"	"	"	"	"	"	"	OUT OF FOCUS-
✓3465	GC 2068 TRIANG	1^h39	+29 15	"	0^h26W	9:55:00-10:10:00	0-0	"	"	"	"	"	"	"	2	"	"	"	AIR GLOW
✓3466	14 TRIANG.	2^h29	+35 56	"	0^h20W	10:40:00-10:55:00	0-0	"	"	"	"	"	"	"	2+	"	"	"	"
✓3467	26 CETI	1^h01	+1° 06	Nov 29	0^h31E	8:10:00-8:25:00	0-0	"	"	"	"	"	"	"	1-2	Good	"	RB	
✓3468	6^m * Pegasi	22^h51	+16 35	Nov 30	1^h14W	7:05:00-8:05:00	0-0	"	103aE	14x17	"	"	"	"	"	fair	"	"	
✓3469	26 CETI	1^h01	+1° 06	"	0^h16E	8:20:00-8:35:00	0-0	"	103aO	14x17	"	"	"	"	"	"	"	"	
✓3470	ξ' CETI	2^h10	+8° 37	"	0^h29E	9:16:00-9:31:00	0-0	"	"	"	"	"	"	"	2	"	"	"	
✓3471	84 CETI	2^h39	-0° 54	"	0^h29E	9:45:00-10:00:00	0-0	"	"	"	"	"	"	"	1-2	"	"	"	
✓3472	GC 32655 Peg.	23 26	+19° 37	Dec 1	0^h42W	6:50:00-7:55:00	0-0	"	103aE	14x17	"	"	"	"	2+	"	"	RB, NT	
✓3473	26 Ceti	1^h01	+1° 06	"	0^h34W	8:06:00-9:21:00	0-0	"	"	"	"	"	"	"	1-2	"	"	"	
✓3474	84 Ceti	2^h39	-0° 54	"	0^h33E	9:30:00-9:50:00	0-0	"	103aO	14x17	"	"	"	"	1+	"	"	"	
✓3475	GC 2068 Triang	1^h39	+29° 15	Dec 2	0^h43E	7:30:00-8:40:00	0-0	"	103aE	14x17	"	"	"	"	2-3	"	"	RB	
✓3476	ξ' CETI	2^h10	+8° 37	"	0^h38E	8:55:00-9:15:00	0-0	"	103aO	14x17	"	"	"	"	2	"	"	"	
✓3477	84 CETI	2^h39	-0° 54	"	0^h36E	9:26:00-9:46:00	0-0	"	"	"	"	"	"	"	2-3	"	"	"	
✓3478	14 TRIANG	2^h29	+35° 56	"	0^h54W	9:55:00-11:05:00	0-0	"	103aE	"	"	"	"	"	"	"	"	"	
✓3479	ξ' CETI	2^h10	+8° 37	Dec 3	0^h29E	9:00:00-9:20:00	0-0	"	103aO	"	"	"	"	"	"	"	"	NT	
✓3480	ξ' CETI	"	"	"	0^h56W	9:30:00-10:45:00	0-0	"	103aE	"	"	"	"	"	"	"	"	"	
3481	✓ Mrkos (1959 J)	15^h04	-5° 10'	"		17:56 — 18:11	—	"	103aO	8x10	"	"	"	"	2	f-good	"	RB	Morning twilight
✓3482	84 CETI	2^h39	-0° 54	Dec 4	0^h32W	9:30:00-10:45:00	0-0	"	103aE	14x17	"	"	"	"	2+	fair	"	"	
3483	✓ Mrkos (1959 J)	15^h16	-6° 09	Dec 5		17:45:00-17:55:00	0-0	"	103aO	8x10	"	"	"	"	1	"	"	"	
✓3484	Nu Piscium	1^h39	+5° 14	Dec 29	0^h16W	7:30:00-7:50:00	0-0	"	103aO	14x17	"	"	"	"	4	good	"	RB	
✓3485	Σ313 CETI	2^h47	+8° 44	"	0^h22E	8:00:00-8:20:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
✓3486	7^m * CETI	3^h11	-0° 01	"	0^h16E	8:30:00-8:50:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
✓3487	7^m * PERSEI	3^h10	+42°.7	"	0^h15W	9:00:00-9:20:00	0-0	"	"	"	"	"	"	"	3-4	"	"	"	
✓3488	4 TAURI	3^h28	+11° 10	"	0^h32W	9:35:00-9:55:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
3489	PLEIADES (2 Exposures)	3^h43	+24°.0	"		10:10:00-10:30:00	0-0	"	"	"	"	"	"	"	"	"	"	"	For Mag. Sequence
✓3490	OE80 PERSEI	$4^h20.1$	+42°19	"	1^h05W	11:00:00-11:20:00	0-0	"	"	"	"	"	"	"	3	"	"	"	
1960- 3491	✓ Susp. Region	2^h00	+5° 04	JAN 1	0^h46E	6:45:00-7:00:00	0-0	"	103aO	8x10	"	"	"	"	3	fair	"	RB	
3492	✓ Susp. Region	1^h50	+4° 22	"	0^h06E	7:14:05-7:30:05	-5 -5	"	"	14x17	"	"	"	"	2	"	"	HLG	✓ Verified
3493	✓ Susp. Region	1^h10	+0 55	"	1^h06W	7:40:00-8:00:00	0 0	"	"	"	"	"	"	"	3	"	"	RB	
3494	✓ 1959k	$1^h38.5$	+3° 00	"	0^h56W	8:18:00-8:20:00	0 0	"	"	4x5	"	"	"	"	2-	good	"	HLG	
3495	✓ 1959k	"	"	"	1^h05W	8:28:00-8:29:00	0-0	"	"	"	"	"	"	"	"	"	"	"	

NEG #	REGION Guide or Object	RA	DEC	DATE 1960	H.A. END	Exposure - O.A.D.	WATCH ERROR	INSTR.	PLATE		Telescope POSITION	DEVELOPEMENT KIND	TIME	TEMP	SEEING STEAD	TRANS	WRITING	OBSV.	REMARKS
3496	☄ 1959k	$1^h38.5$	+3°00	JAN 1	1^h15W	8:35:00-8:38:00	0 0	13"	103aO	4x5	W	D-19	4^m	66-70	2-	good	N	HLG	
3497	"	"	"	"	1^h23W	8:45:00-8:47:00	0 0	"	"	"	"	"	"	"	"	"	"	"	
3498	4 TAURI	$3^h27.7$	+11° 10	"	0^h24W	9:15:00-9:35:00	0 0	"	"	14x17	"	"	"	"	2-3	"	"	RB	
3499	☄ 1959k	$1^h35.5$	+2° 23	JAN 2	0^h06E	7:09:00-7:11:00	0 0	"	"	4x5	"	"	"	"	3	"	"	HLG	Some moonlight
3500	"	"	"	"	0^h07W	7:19:00-7:23:00	0 0	"	"	"	"	"	"	"	"	"	"	"	
3501	"	"	"	"	0^h16W	7:30:00-7:33:00	0 0	"	"	"	"	"	"	"	"	"	"	"	5^d moon
3502	4 TAURI	$3^h27.7$	+11°10'	"	0^h28W	9:15:00-9:35:00	0 0	"	"	14x17	"	"	"	"	2-3	"	"	RB	
3503	7^m * PERSEI	$3^h10.3$	+42°.7	"	1^h21W	9:50:00-10:10:00	0 0	"	"	"	"	"	"	"	"	"	"	"	
3504	☄ 1959k	$1^h32.6$	+2°12	JAN 3	0^h28E	6:37:00-6:40:00	0-0	"	"	4x5	"	"	"	"	2-	"	"	HLG	Moonlight.
3505	☄ 1959k	"	"	"	0^h17E	6:48:00-6:52:00	0-0	"	"	"	"	"	"	"	"	"	"	"	"
3506	☄ 1959k	0^h55	-2°00	Jan 16	1^h13W	6:50:00-6:54:00	0-0	"	"	"	"	"	"	"	3	"	"	HLG	
3507	☄ 1959k	"	"	"		7:00:00-7:02:00	0-0	"	"	"	"	"	"	"	2-	"	"	"	
3508	☄ 1959k	0^h53	-2°20	"	2^h07W	7:35:00-7:55:00	0-0	"	"	"	"	"	"	"	"	"	"	RB	20m Exp for TAIL
3509	Nu Piscium	$1^h38.8$	+5°14	Jan 17	1^h10W	7:10:00-7:30:00	0-0	"	"	14x17	"	"	"	"	2-3	fair	"	"	
3510	Nu Piscium	"	"	Jan 19	1^h23W	7:15:00-7:35:00	0-0	"	"	"	"	"	"	"	3+	good	"	NT	
3511	Σ313 CETI	$2^h47.2$	+8°44	"	0^h55W	7:55:00-8:15:00	0-0	"	"	"	"	"	"	"	3-4	"	"	"	
3512	9^m * Tauri	$3^h48.5$	+1°35	"	0^h39W	8:40:00-9:00:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
[illegible]	OΣ80 PERSEI	$4^h20.1$	+42°19	"	0^h52W	9:25:00-9:45:00	0-0	"	"	"	"	"	"	"	"	"	"	NT, RB	
3514	Σ313 CETI	$2^h47.2$	+8°44	Jan 20	0^h34W	7:30:00-7:50:00	0-0	"	"	"	"	"	"	"	3	Fair	"	RB	
3515	7^m * CETI	$3^h10.8$	-0°01	"	0^h36W	8:00:00-8:20:00	0-0	"	"	"	"	"	"	"	2-3	"	"	"	
3516	4 TAURI	$3^h27.7$	+11°10'	"	0^h54W	8:30:00-8:55:00	0-0	"	"	"	"	"	"	"	"	"	"	"	LIGHT HAZE
3517	9^m * Tauri	$3^h48.5$	+1°35'	"	1^h09W	9:10:00-9:30:00	0-0	"	"	"	"	"	"	"	"	"	"	"	" "
3518	OΣ80 PERSEI	$4^h20.1$	+42°19	"	1^h07W	9:40:00-10:00:00	0-0	"	"	"	"	"	"	"	"	"	"	"	" "
3519	OΣ80 PERSEI	"	"	"	1^h37W	10:10:00-10:30:00	0-0	"	"	"	"	"	"	"	"	"	"	"	" "
3520	7^m * CETI	$3^h10.8$	-0°01'	JAN 21	0^h40W	8:00:00-8:20:00	0-0	"	"	"	"	"	"	"	3	good	"	"	
3521	9^m * Tauri	$3^h48.5$	+1°35	"	0^h37W	8:30:00-8:50:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
3522	44 ERIDANI	$4^h25.9$	+1°16'	"	0^h39W	9:00:00-9:20:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
3523	44 ERIDANI	"	"	"	1^h06W	9:27:00-9:47:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
3524	7^m * PERSEI	$3^h10.3$	+42°.7	"	2^h41W	9:56:00-10:16:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
3525	ORION-HD 37055	$5^h33.1$	-3°17'	"	0^h47W	10:30:00-10:45:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
3526	Σ313 CETI	$2^h47.2$	+8°44'	Jan 24	2^h33W	8:35:00-9:33:00	0-11	"	103aE	"	"	"	"	"	2-3		"	NT	+Exp 9:38-9:45
3527	OΣ80 PERSEI	$4^h20.1$	+42°19	"	2^h47W	10:20:00-11:20:00	0-0	"	"	"	"	"	"	"	3-4		"	"	
3528	☄ Suspect	$3^h42.3$	+14°04	Jan 25		7:50:00-8:00:00	0-0	"	103aO	[illegible]	"	"	"	"	3	Poor	"	RB	CLOUDS
3529	"	"	"	"		8:45:00-9:00:00	0-0	"	"	"	"	"	"	"	3	"	"	"	"
3530	"	3^h40	+17°00	Jan 26		9:53:30-9:57:00*	0-0	"	"	4x5	"	"	"	"	2-3	"	"	"	*Exp = 10:16:30-10:18:30

NEG #	REGION Guide or Object	RA	DEC	DATE 1960	H.A. END.	Exposure. O.A.D.	W.R.	INSTR.	PLATE	Telescope Position	DEVELOPEMENT Kind	Time	Temp	SEEING Stead	Trans	WRITING	OBSV.	REMARKS
✓ 3531	Nu Piscium	1h38.8	+5°14	Jan 27	2h34W	7:10:10-8:15:00	0-0	13"	103aE 14x17	W	D19	4 min	66-70	2-3	f. good	N	RB	
3532	☄ 1960A	3h40	+17°00'	"		8:30:00-8:50:00	0-0	"	103aO 4x5	"	"	"	"	"	"	"	"	
3533	☄ 1960A	"	"	"		9:00:00-9:10:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3534	☄ 1960A	"	"	"		9:16:00-9:21:00	0-0	"	" "	"	"	"	"	"	"	"	"	
✓ 3535	44 Eridani	4h25.9	+1°16'	"	2h58W	10:20:00-11:25:00	0-0	"	103aE 14x17	"	"	"	"	"	"	"	"	
3536	☄ 1959k	0h25	-5°15	Jan 29		7:35:00-8:05:00	0-0	"	103aO 4x5	"	"	"	"	1	fair	"	RB	Low Altitude
✓ 3537	44 Eridani	4h25.9	+1°16'	"	0h16W	8:15:00-8:35:00	0-0	"	103aO 14x17	"	"	"	"	"	"	"	NT	
✓ 3538	9m* Tauri	3h48.5	+1°35'	"	2h19W	9:00:00-10:00:00	0-0	"	103aE 14x17	"	"	"	"	1-2	"	"	"	
3538A	Region at —	4h40	+19°30	Jan 31	0h57W	9:13:00-9:23:00	0-0	"	103aO 4x5	"	"	"	"	3	"	"	HLG	
3539	" "	"	"	"	1h10W	9:31:00-9:36:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3540	" "	"	"	"	1h30W	9:45:00-9:55:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3541	☄ 1960a	3h41.0	+19°30	"	4h49W	12:05:00-12:15:00	0-0	"	" "	"	"	"	"	3+	good	"	RB	
3542	☄ 1960a	"	"	"	5h04W	12:20:00-12:30:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3543	☄ 1959k	0h00m	-8°20'	Feb 16		7:37:00-7:47:00	0-0	"	" "	E	"	"	"	2	fair	S	"	
3544	☄ 1960a Region	3h47	+24°	"		8:00:00-8:15:00	0-0	"	" "	W	"	"	"	"	good	N	"	Pleiades Region
3545	☄ 1959k	23h58	-8°30	Feb 17		7:18:00-7:33:00	0-0	"	" "	E	"	"	"	"	fair	S	"	
✓ 3546	7m* Ceti	3h10.8	-0°01'	"	2h56W	7:45:00-8:45:00	0-0	"	103aE 14x17	W	"	"	"	2	"	N	"	
✓ 3547	Iota Tauri	5h00.1	+21°31	"	1h57W	9:15:00-9:35:00	0-0	"	103aO 14x17	"	"	"	"	3	"	"	"	
✓ 3548	4 Tauri	3h27.7	+11°10'	Feb 20		8:25:00-9:30:00	0-0	"	103aE "	"	"	"	"	2	"	"	NT, RB	unusable. emulsion defects.
✓ 3549	93 Tauri	4h37.3	+12°06	Feb 21	1h15W	7:55:00-8:15:00	0-0	"	103aO "	"	"	"	"	2-3	good	"	RB	
✓ 3550	Σ630 Orionis	4h59.4	+1°32	"	1h18W	8:20:00-8:40:00	0-0	"	" "	"	"	"	"	"	"	"	"	
✓ 3551	93 Tauri	4h37.3	+12°06	Feb 22	1h09W	7:45:10-8:05:10	0-0	"	" "	"	"	"	"	3	"	"	"	
✓ 3552	Σ630 Orionis	4h59.4	+1°32	"	1h17W	8:15:00-8:35:00	0-0	"	" "	"	"	"	"	"	"	"	RB, NT	
✓ 3553	Iota Tauri	5h00.1	+21°31	"	1h41W	8:40:00-9:00:00	0-0	"	" "	"	"	"	"	"	"	"	"	
✓ 3554	GC 6182 Aurigae	5h01.4	+32°15	"	2h15W	9:05:00-9:25:00	0-0	"	" "	"	"	"	"	"	"	"	"	
✓ 3555	" "	"	"	"	3h25W	9:35:00-10:35:00	0-0	"	103aE "	"	"	"	"	"	"	"	"	
✓ 3556	4 Tauri	3h27.7	+11°10'	Feb 24		7:45:00-8:45:00	0-0	"	" "	"	"	"	"	"	"	"	RB	
✓ 3557	Σ630 Orionis	4h59.4	+1°32	Feb 25		7:47 — 8:17:00	-0	"	103aO "	"	"	"	"	"	"	"	"	NO WWV at START
✓ 3558	Σ630 Orionis	"	"	Mar 15		7:45:00-8:15:00	0-0	"	" "	"	"	"	"	3+	"	"	"	
✓ 3559	7m* Persei	3h10.3	+42°.7 (43)	Mar 16		7:50:00-8:50:00	0-0	"	103aE "	"	"	"	"	1-2	fair	"	"	
✓ 3560	93 Tauri	4h37.3	+12°06	Mar 17		7:50:00-8:50:00	0-0	"	" "	"	"	"	"	2-	good	"	"	
✓ 3561	Σ630 Orion	4h59.4	+1°32	Mar 19		8:05:00-9:05:00	0-0	"	" "	"	"	"	"	2-3	fair	"	NT	
✓ 3562	GC 6182 Aurigae	5h01.4	+32°15	Mar 21	2h56W	7:55:30-8:25:30	0-0	"	103aO "	"	"	"	"	3-4	good	"	RB	
✓ 3563	δ Geminorum	7h17.1	+22°04	"	1h15W	8:40:30-9:00:30	0-0	"	" "	"	"	"	"	"	"	"	"	
✓ 3564	6 Canis Minor	7h27.0	+12°07	"	1h36W	9:11:00-9:31:00	0-0	"	" "	"	"	"	"	"	"	"	"	

NEG #	OBJECT or Guide	POSITION RA	POSITION DEC	DATE 1960	H.A. END.	EXPOSURE O.A.D.	W. e.	INSTR.	PLATE	Telescope Position	DEVELOPEMENT KIND	DEVELOPEMENT TIME	DEVELOPEMENT TEMP	SEEING STEAD	SEEING TRANS	WRITING	OBSV.	REMARKS
✓ 3565	Iota Tauri	$5^h00.1$	+21°31	Mar 25		7:50:00-8:50:00	0-0	13"	103aE 14x17	W	D19	4 min	66-70	2-3	good	N	RB	
✓ 3566	δ Geminorum	$7^h17.1$	+22°04	Mar 29	1^h26 W	8:20:00-8:40:00	0-0	"	103aO "	"	"	"	"	"	"	"	"	
3567	⊄ 1959 k	22^h35^m	-8°37'	April 6	4^h55^m E	5:06:00 to 5:08:00 A.M.	" See Slow	"	4x5 103a O	"	"	"	"	1	Poor	"	H.G.	Clouds and thru strong morning Twilight.
3568	⊄ 1960b Wild	10^h31^m	+9°30'	" 13	0^h46^m E	8:29:00 to 8:43:00	" See Slow on Time West	"	cut from 8x10	"	"	"	68°	1, 2	good	"	"	cut to 4x5 size for morning
3569	"	"	"	wednesday "	0^h30^m E	8:49:00 to 9:03:00	"	"	8x10 103aO	"	"	"	"	"	"	"	"	
~~3570~~	~~δ Geminorum~~	~~$7^h17.1$~~	~~+22°04~~	~~April 15~~														
3570	⊄ 1959k	22^h18	+2°26	April 15		4:25:00 A.M.-4:35:00	0-0	"	103aO 8x10	W	"	"	"	"	"	"	H.G.	
3571	⊄ 1959k			April 16		4:45:00 A.M.-4:47:00	0-0	"	" 4x5	"	"	"	"	"	"	"	"	
✓ 3572	δ Geminorum	$7^h17.1$	+22°04	April 18		8:40:00-9:25:00	0-0	"	103aE 14x17	"	"	"	"	2	Poor	"	RB	STOPPED by thick haze
✓ 3573	7^m * Gemini	$7^h07.6$	+32°18	April 19		8:20:00-8:45:00	0-0	"	103aO "	"	"	"	"	2-3	Fair	"	RB, NT	
✓ 3574	6 Canis Minor	$7^h27.0$	+12°07	"		8:50:00-9:20:00	0-0	"	" "	"	"	"	"	"	"	"	"	
✓ 3575	85 Geminorum	$7^h52.7$	+20°01	"		9:25:00-9:50:00	0-0	"	" "	"	"	"	"	"	"	"	"	
✓ 3576	7^m * Gemini	$7^h07.6$	+32°18	April 20		8:20:00-9:00:00	0-0	"	" "	"	"	"	"	"	"	"	RB	
✓ 3577	85 Geminorum	$7^h52.7$	+20°01	"		9:10:00-9:35:00	0-0	"	" "	"	"	"	"	"	"	"	"	
✓ 3578	7^m * Gemini	$7^h07.6$	+32°18	April 22		9:20:00-9:42:00	0-0	"	" "	"	"	"	"	Poor	Poor	1-2	NT	frequent stops for clouds
✓ 3579	7^m * Gemini	"	"	April 24		8:25:00-9:05:00	0-0	"	" "	"	"	"	"	"	good	3	"	
✓ 3580	8^m * Gemini	7^h53	+31'50	"		9:25:00-9:55:00	0-0	"	" "	"	"	"	"	"	"	"	"	miscentered.
3581	⊄ 1959 K Burnham	21^h28^m	+44°	April 24	3^h33^m E	15:50:00-16:10:00	0-0	"	8x10 103aO	"	"	"	"	3+	good	"	H.G.	Guiding on ⊄
3582	"	"	"	"	3^h13^m E	16:20:00-16:30:00	0-0	"	"	"	"	"	"	"	"	"	"	"
3583	"	"	"	"	3^h09^m E	16:32:00-16:33:00	0-0	"	4x5 103a O	"	"	"	"	"	"	"	"	
✓ 3584	6 Canis Minor	$7^h27.0$	+12°07	April 25		8:30:00-9:15:00	0-0	"	103aO 14x17	"	"	"	"	"	fair	2-3	RB	
✓ 3585	9^m * Gemini	$7^h51.6$	+31°.1	"		9:25:00-10:05:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3586	⊄ 1959k	20^h25	+63°.5	April 26		13:30:00-13:45:00	0-0	"	103aO 8x10	"	"	"	"	"	"	"	"	
3587	⊄ 1959k	20^h25	+63°.5	"		14:35:00-15:00:00	0-0	"	" 14x17	"	"	"	"	"	"	"	"	
3588a b	⊄ 1959k	17^h48^m	+76°30'	April 28	3^h27^m E.	11:48:00-12:18:00	0-0	a = 13" b = 5" Cooke	14x17 103aO 8x10 " "	"	"	"	"	2	Fair to good	N	H.G.	Guiding on ⊄
3589a b	"	13^h22^m	+72°40'	April 30	0^h57^m W	11:39:00-12:09:00	0-0	"	"	"	"	"	"	2+	good	"	"	"
✓ 3590	δ Geminorum	$7^h17.1$	+22°04	May 14		8:25:00-9:35:00	0-0	13"	103aE 14x17	"	"	"	"	1-2	fair	"	NT	
✓ 3591	6 Canis Minor	7^h27	+12°07	May 15		8:25:00-9:25:00	0-0	"	" "	"	"	"	"	"	"	"	"	
✓ 3592	6 Canis Minor	7^h27	+12°07	May 16		8:40:00-9:25:00	0-0	"	103aO "	"	"	"	"	2+	"	"	RB	Plate very dark.
✓ 3593	9^m * Gemini	$7^h51.6$	+31°.2	May 17		8:50:00-9:20:00	0-0	"	103aO "	"	"	"	"	3	"	"	"	
✓ 3594	85 Geminorum	$7^h52.7$	+20°01	May 19		8:40:00-9:45:00	0-0	"	103aE "	"	"	"	"	2	"	"	"	
✓ 3595	9^m * Gemini	$7^h51.6$	+31°.2	May 20		9:00:00-9:50:00	0-0	"	" "	"	"	"	"	3	"	"	NT	Plate broken.
3596	⊄ Findlay Search	$21^h13.5^m$	-20°50'	May 21 Sunday A.M.	1^h58^m E	15:39:00-15:49:00	0-0	"	8x10 103aO	"	"	"	"	1-	Good	"	H.G	
3597	" "	"	"	"	1^h32^m E	15:59:00-16:09:00	0-0	"	"	"	"	"	"	1	"	"	"	Strong morning Twilight.
✓ 3598	7^m * Gemini	$7^h07.6$	+32°18	May 22		8:30:02-9:40:00	0-0	"	103aE 14x17	"	"	"	"	1-2	"	"	NT	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1960	H.A. END	EXPOSURE O.A.D.	ulc.	INSTR.	PLATE		TELESCOPE POSITION	DEVELOPEMENT KIND	DEVELOPEMENT TIME	DEVELOPEMENT TEMP	SEEING STEAD	SEEING TRANS	WRITING	OBSV	REMARKS
✓	3599	9m ✱ Gemini	7h51.6	+31°.2 07	May 24		8:55:00-10:25:00	0-0	13"	103aE	14x17	E	D19	4min	66-70	3	FAIR	S	RB	
✓	3600	85 Gemini	7h52.7	+20°01	May 25		8:40:00-9:50:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
✓	3601	Σ1852 Virgo	14h27.4	-4°01	June 16	0h25W	9:20:00-9:40:00	0-0	"	103aO	"	W	"	"	"	3+	f-gd	N	RB	
✓	3602	" "	"	"	"	0h55W	9:50:00-10:10:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
✓	3603	Σ1852 Virgo	"	"	June 19	0h27W	9:15:00-9:30:00	0-0	"	"	"	"	"	"	"	3-4	good	"	"	
✓	3604	" "	"	"	"	0h52W	9:40:00-9:55:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
✓	3605	" "	"	"	June 20	1h21W	9:15:00-10:20:00	0-0	"	103aE	"	"	"	"	"	3-	f good	"	"	DRIVE jumps- Double images
	3606	✱ Finlay Search	22h41	-15°00	"		13:45:00-14:20:00	0-0	"	103aO	8x10	"	"	"	"	2	fair	"	RB	OFFSET FOR MOTION COMET LOCATED
	3607	" "	"	"	"		14:30:00-15:10:00	"	"	"	"	"	"	"	"	2-3	good	"	"	
✓	3608	HD 187184 Aquilae	19h46	+3°18	Aug 18	0h38W	10:40:00-11:00:00	0-0	"	103aO	14x17	"	"	"	"	3+	"	"	RB	
✓	3609	" "	"	"	"	1h08W	11:10:00-11:30:00	0-0	"	"	"	"	"	"	"	3+	"	"	"	
✓	3610	" "	"	"	Sept 12	0h11W	8:40:00-8:55:00	0-0	"	"	"	"	"	"	"	2+	fair	"	"	
✓	3611	" "	"	"	"	3h06W	11:35:00-11:50:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
✓	3612	" "	"	"	Sept 14	1h19W	8:45:00-9:55:00	0-0	"	103aE	14x17	"	"	"	"	3	good	"	"	
✓	3613	GC 30345 Peg.	21h38	+4°48	"	0h28E	10:20:00-10:40:00	0-0	"	103aO	"	"	"	"	"	"	"	"	"	
✓	3614	" "	"	"	Sept 15	0h47E	9:20:00-9:40:00	0-0	"	"	"	"	"	"	"	2-3	"	"	"	
✓	3615	HD 187184 Aquilae	19h46	+3°18	Sept 20	1h45W	8:10:00-10:00:00	0-0	"	103aE	14x17	"	"	"	"	"	f. good	"	RB, NT	
✓	3616	GC 30345 Peg.	21h38	+4°48	Sept 21	1h09W	8:55:00-11:15:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
✓	3617	HD 21495 Persei	3h26.2	+40°26	Sept 27	1h57E	13:10:00-13:30:00	0-0	"	103aO	"	"	"	"	"	3	v. good	"	RB	
✓	3618	" "	"	"	"	1h26E	13:40:00-14:00:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
✓	3619	α Arietis	2h04.4	+23°14	Oct 18	0h16E	12:05:00-12:25:00	0-0	"	"	"	"	"	"	"	2	fair	"	"	Sky slightly hazy
✓	3620	" "	"	"	"	0h14W	12:35:00-12:55:00	0-0	"	"	"	"	"	"	"	2-	"	"	"	" " "
✓	3621	" "	"	"	Oct 19	0h48E	11:30:00-11:50:00	0-0	"	"	"	"	"	"	"	3-2	fair+	"	NT	
✓	3622	HD 21495 Persei	3h26.2	+40°26	"	1h07mW	12:05:00-15:05:00	0-0	"	103aE	"	"	"	"	"	2-3	"	"	NT, RB	
✓	3623	α Arietis	2h04.4	+23°14	Oct 20	0h47E	10:45:00-11:45:00	0-0	"	103aE	"	"	"	"	"	1	"	"	RB	
	3624	Malsch ✱ Suspect	2h01m	+7°55'	Oct 21 Friday	0h48mE	11:29:00-11:39:00	0-0	"	8x10" 103aO	"	"	"	"	"	4	good	"	H.G.	CUT TO 4x5
	3625	"	"	"	" Eve	0h25mE	11:52:00-12:02:00	0-0	"	8x10" 103aO	"	"	"	"	"	"	"	"	"	
	3626	"	"	"	Sat A.M.	0h35mW	12:52:00-13:12:00	0-0	"	14x17 103aO	"	"	"	"	"	"	"	"	"	
	3627	Fast Moving Object	1h57	+10°30	Oct 22	2h46E	9:33:00-9:34:00	0-0	"	4x5	103aO	"	"	"	"	"	FAIR	"	"	
	3628	" " "	"	"	"	2h35E	9:37:00-9:47:00	0-0	"	8x10	"	"	"	"	"	"	"	"	"	
	3629	" " "	"	"	"	2h24E	9:54:00-9:55:00	0-0	"	4x5	"	"	"	"	"	"	"	"	"	
	3630	" " "	"	"	"	1h44E	10:34:00-10:35:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
	3631	" " "	"	"	"	1h36E	10:42:00-10:43:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
	3632	" " "	"	"	"	1h27E	10:50:00-10:52:00	0-0	"	"	"	"	"	"	"	"	Good	"	"	
	3633	" " "	"	"	"	0h50E	11:28:00-11:29:00	0-0	"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1960	H.A. END	EXPOSURE - O.A.D.	We	INSTR.	PLATE	Telescope POSITION	DEVELOPEMENT KIND	DEVELOPEMENT TIME	DEVELOPEMENT TEMP	SEEING STEAD	SEEING TRANS	WRITING	OBSV.	REMARKS
3634	ε CASS.	1^h48^m	+64°44	Oct 22	0^h10 E	11:38:00-11:59:00	0-0	13"	103aO 14x17	W	D19	4^{min}	66-70	2-3	Good	N	HG	
3635	Fast Moving Object	2^h13	+10°38	Oct 24	2^h22 E	9:45:00-10:05:00	0-0	"	" "	"	"	"	"	"	"	"	"	Long Trail! 20m
3636	" " "	2^h10	+10°12	"	2^h13 E	10:10:00-10:12:00	0-0	"	" 4x5	"	"	"	"	3-	"	"	"	
3637	" " "	"	"	"	1^h54 E	10:30:00-10:31:00	0-0	"	" "	"	"	"	"	"	"	"	RB	
3638	" " "	"	"	"	1^h10 E	11:10:00-11:11:00	0-0	"	" "	"	"	"	"	"	"		HG	
3639	" " "	"	"	"	1^h05 E	11:18:00-11:20:00	0-0	"	" "	"	"	"	"	"	"	"	"	
✓3640	HD 34289 Aurigae	$5^h14.8$	+42°03	"	2^h14 E	12:55:00-13:15:00	0-0	"	" 14x17	"	"	"	"	3	"	"	RB	
✓3641	" " "	"	"	"	1^h29 E	13:30:00-13:50:00	0-0	"	" "	"	"	"	"	"	"	"	RB	
3642	Fast Moving Object	2^h10^m	+10°12	"	1^h50 W	14:10:00-14:12:00	0-0	"	" 4x5	"	"	"	"	3-	"	"	"	
3643	" " "	"	"	"	1^h59 W	14:20:00-14:21:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3644	" " "	"	"	"	2^h09 W	14:30:00-14:31:30	0-0	"	" "	"	"	"	"	"	"	"	"	
3645	" " "	2^h17^m	+10°20	Oct 25	2^h32 E	9:52:00-9:56:00	0-0	"	" "	"	"	"	"	3+	"	"	HLG	
3646	" " "	"	"	"	2^h23 E	10:04:00-10:05:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3647	" " "	"	"	"	2^h14 E	10:13:00-10:14:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3648	" " "	"	"	"	2^h06 E	10:20:00-10:22:00	0-0	"	" "	"	"	"	"	"	"	"	"	
✓3649	HD 34289 Aurigae	$5^h14.8$	+42°03	Oct 25	2^h02 E	16:15:00-17:25:00	0-0	"	103aE 14x17	"	"	"	"	3	"	"	NT	
3650	Fast Moving Object	2^h21	+10°05	Oct 26	2^h57 E	9:31:00-9:32:00	0-0	"	103aO 4x5	"	"	"	"	2+	"	"	HLG	
3651	" " "	"	"	"	2^h45 E	9:40:00-9:44:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3652	" " "	"	"	"	2^h37 E	9:50:00-9:51:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3653	η Piscium Malsch ψ	$1^h28.8$	+15°05	"	1^h15 E	10:10:00-10:20:00	0-0	"	" 8x10	"	"	"	"	3	fair	"	RB	Malsch ψ Suspect Region
3654	ψ Search	1^h36	+18°30	"	0^h47 E	10:40:00-10:55:00	0-0	"	" 4x5	"	"	"	"	"	"	"	"	
3655	"	"	"	"	0^h09 W	11:31:00-11:51:00	0-0	"	" "	"	"	"	"	"	Good	"	"	
3656	η Piscium Malsch ψ Sp	$1^h28.8$	+15°05	"	0^h52 W	12:05:00-12:25:00	0-0	"	" 8x10	"	"	"	"	"	faint	"	"	
3657	Fast Moving Object	$2^h21.8$	+10°05	"	0^h04 W	12:30:00-12:32:00	0-0	"	" 4x5	"	"	"	"	"	"	"	HLG	
3658	" " "	"	"	"	0^h14 W	12:37:00-12:41:00	0-0	"	" "	"	"	"	"	"		"	"	
3659	" " "	"	"	"	0^h20 W	12:45:00-12:47:00	0-0	"	" "	"	"	"	"	"		"	"	
3660	η Pisc-Malsch ψ Suspect	$1^h28.8$	+15°05	"	1^h47 W	13:00:00-13:20:00	0-0	"	" 14x17	"	"	"	"	"	Good	"	RB	
3661	" " "	"	"	"	2^h22 W	13:35:00-13:55:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3662	Fast Moving Object	$2^h21.8$	+10°05	"	2^h38 W	15:00:00-15:04:00	0-0	"	" 4x5	"	"	"	"	3-	"	"	"	
3663	" " "	"	"	"	2^h51 W	15:15:00-15:17:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3664	" " "	"	"	"	3^h01 W	15:25:00-15:27:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3665	" "	2^h27	+9°58	Oct 27	2^h09 E	10:17:00-10:21:00	0-0	"	" "	"	"	"	"	3	"	"	HLG	
3666	" "	"	"	"	2^h00 E	10:29:00-12:30:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3667	" "	"	"	"	1^h53 E	10:35:00-10:37:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3668	Fast Moving Object	2^h31	+10°00	Oct 28	0^h17 E	12:10:00-12:14:00	0-0	"	" "	"	"	"	"	2	"	"	"	

NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1960	H.A. END	EXPOSURE. O.A.D.	W. e.	INSTR.	PLATE	Telescope Position	DEVELOPEMENT KIND	DEVELOPEMENT TIME	DEVELOPEMENT TEMP	SEEING Stead	SEEING Trans	WRITING	OBSV	REMARKS
3669	Fast Moving Object	2^h31^m	+10°00′	Oct 28	0^h07 E	12:22:00-12:23:00	0-0	13″	103aO 4x5	W	D19	4 min	66-70	2	Good	N	HLG	
3670	" " "	"	"	"	0^h01 W	12:29:00-12:31:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3671	✓ Search	$1^h45.0$	+13°00	"	2^h39 W	13:55:00-14:20:00	0-0	"	" "	"	"	"	"	3+	"	"	RB	
3672	" "	"	"	"	3^h14 W	14:30:00-14:55:00	0-0	"	" "	"	"	"	"	3	"	"	"	
3673	Fast Moving Object	2^h42	+9° 58	Oct 30	0^h08 E	12:21:00-12:25:00	0-0	"	" "	"	"	"	"	2+	"	"	HLG	Moonlight
3674	" " "	"	"	"	0^h01 E	12:31:00-12:32:00	0-0	"	" "	"	"	"	"	"	"	"	"	"
3675	" " "	"	"	"	0^h07 W	12:38:00-12:40:00	0-0	"	" "	"	"	"	"	"	"	"	"	"
3676	" " "	2^h43	+9°20′	Oct 31	0^h01 E	11:29:00-11:33:00 ~~12:31:00-12:33:00~~	0-0	"	" "	"	"	"	"	2	"	"	"	
3677	" " "	"	"	"	0^h59 E	11:29:00-11:30:00	0-0	"	" "	"	"	"	"	"	"	"	"	"
3678	" " "	"	"	"	0^h50 E	11:38:00-11:40:00	0-0	"	" "	"	"	"	"	"	"	"	HLG	"
3679	" " "	2^h02^m	+8°55′	Nov 7	2^h28 E	9:50:00-9:54:00	0-0	"	" "	"	"	"	"	2	Fair	"	HLG	"
3680	" " "	3^h02^m	"	"	2^h15 E	10:05:00-10:07:00	0-0	"	" "	"	"	"	"	2	"	"	HLG	"
3681	" " "	"	"	"	2^h03 E	10:15:00-10:19:00	0-0	"	" "	"	"	"	"	2	"	"	HLG	"
✓3682	α Arietis	$2^h04.4$	+23°14	Nov 10	0^h03 W	10:00:00-11:15:00	0-0	"	103aE 14x17	"	"	"	"	3	Good	"	RB	
3683	Fast Moving Object	$3^h07.9$	+9°00′	"	0^h43 E	11:35:00-11:38:00	0-0	"	103aO 4x5	"	"	"	"	"	"	"	"	
3684	" " "	"	"	"	0^h22 E	11:55:00-11:59:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3685	" " "	"	"	"	0^h09 E	12:10:00-12:12:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3686	Fast Moving Object	$3^h12.9$	+9°00	Nov 13	0^h11 E	11:51:00-11:55:00	0-0	"	" "	"	"	"	"	2+	"	"	"	
3687	" " "	"	"	"	0^h01 E	12:02:00-12:05 –	*	"	" "	"	"	"	"	"	"	"	"	WWV faded-timing uncertain
3688	" " "	"	"	"	0^h11 W	12:15:00-12:17:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3689	" " "	"	"	"	0^h22 W	12:25:00-12:28:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3690	Fast Moving Object	$3^h17.3$	+8° 57′	Nov 16	0^h35 E	11:20:00-11:23:00	0-0	"	" "	"	"	"	"	3	fair	"	"	
3691	" " "	"	"	"	0^h21 E	11:35:00-11:37:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3692	" " "	"	"	"	0^h04 E	11:50:00-11:54:00	0-0	"	" "	"	"	"	"	"	good	"	"	
✓3693	18 Orionis	$5^h13.3$	+11°17	"	0^h32 E	12:05:00-13:20:00	0-0	"	103aE 14x17	"	"	"	"	3-2	"	"	NT	
3694	Fast Moving Object	3^h22	+9°00′	Nov 19	1^h48 E	10:00:00-10:04:00	0-0	"	103aO 4x5	"	"	"	"	2-	"	"	RB	
3695	" " "	"	"	"	1^h29 E	10:20:00-10:23:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3696	" " "	"	"	"	1^h08 E	10:40:00-10:44:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3697	" " "	3^h22	+8°50	Nov 20	1^h56 E	9:50:00-9:54:00	0-0	"	" "	"	"	"	"	3	"	"	HLG	
3698	" " "	"	"	"	0^h46 E	(10:01-10:05) (11:01- (10:46-10:50) 11:05)	0-0	"	" "	"	"	"	"	"	"	"	"	3 exposures on plate
3699	" " "	"	"	"	0^h35 E	11:11:00-11:15:00	0-0	"	" "	"	"	"	"	"	"	"	"	
✓3700	18 Orionis	$5^h13.3$	+11°17′	"	0^h24 E	12:55:00-13:15:00	0-0	"	" 14x17	"	"	"	"	"	"	"	RB	
✓3701	" "	"	"	"	0^h06 W	13:25:00-13:45:00	0-0	"	" "	"	"	"	"	"	"	"	"	
3702	Malsch ✓ Suspect	23^h02	+38°24	Nov 21	1^h32 W	8:33:00-8:57:00	0-0	"	" "	"	"	"	"	3+	"	"	HLG	
3703	" "	"	"	"	2^h08 W	9:09:00-9:33:00	0-0	"	" "	"	"	"	"	4	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1960	H.A. END	EXPOSURE O.A.D.	W.E.	INSTR	PLATE	Telescope Position	DEVELOPEMENT KIND	DEVELOPEMENT TIME	DEVELOPEMENT TEMP	SEEING STEAD	SEEING TRANS	WRITING	OBSV.	REMARKS
	3704	Fast Moving Obj 1960UA	3^h22	+8°50	Nov 21		9:45-10:10 / 9:50-10:15 / 10:35-10:40	0-0	13"	103aO 4x5	W	D19	4 min	66-70	3-2	Good	N	HLG	Multiple Exposure plate
	3705	" " "	"	"	"	0^h16 E	11:25:00-11:30:00	"	"	" "	"	"	"	"	2	"	"	"	
	3706	" " "	"	"	"		11:50-11:55 12:40-12:45 12:15-12:20 13:05-13:10	"	"	" "	"	"	"	"	2-	"	"	"	4 Exposures on plate
G87	3707	HD 54592 Gemini	$7^h07.6$	+32°18	"	2^h40 W	17:00:00-18:10:00	"	"	103aE 14x17	"	"	"	"	2-1	"	"	NT	
G88	3708	δ Geminorum	$7^h17.1$	+22°46	Nov 22	2^h32 W	16:52:62-18:07:04		"	" "	"	"	"	"	3	fair	"	"	
	3709	195908 m.p.	5^h35	+22°28	Nov 24	1^h10 E	12:07:00-12:37:00	0-0	"	103aO 8x10	"	"	"	"	"	good	"	HLG	Offset for motion
	3710	" "	"	"	"	0^h31 E	12:45:00-13:15:00	0-0	"	" "	"	"	"	"	"	"	"	"	" " "
G98	3711	Σ796 Aurigae	$5^h46.7$	+31°46	Nov 25	0^h40 E	12:55:00-13:15:00	0-0	"	" 14x17	"	"	"	"	2	"	"	NT	
G98	3712	" "	"	"	"	0^h04 E	13:30:00-13:50:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G99	3713	GC 7131 Orion	$5^h39.7$	+2°21	Dec 13	0^h40 E	11:35:00-11:55:00	0-0	"	" "	"	"	"	"	3	"	"	RB	
G99	3714	" "	"	"	"	0^h10 E	12:05:00-12:25:00	0-0	"	" "	"	"	"	"	2-3	"	"	"	
	3715	M37 Aurigae	5^h49	+32°	Dec 14	2^h25 E	9:45:00-10:05:00	0-0	"	103aO 8x10	"	"	"	"	3	"	"	"	
G100	3716	Pi 192 Tauri	$5^h40.3$	+23°11	"	1^h29 E	10:45:00-11:05:00	0-0	"	" 14x17	"	"	"	"	3-	"	"	"	
G100	3717	" "	"		"	0^h59 E	11:15:00-11:35:00	0-0	"	" "	"	"	"	"	3-	"	"	"	
G98	3718	Σ796 Aurigae	$5^h46.7$	+31°46	"	0^h52 W	12:20:00-13:30:00	0-0	"	103aE "	"	"	"	"	3	"	"	"	
G100	3719	Pi 192 Tauri	$5^h40.3$	+23°11	Dec 15	1^h04 E	11:05:00-11:25:00	0-0	"	103aO "	"	"	"	"	"	"	"	"	
G100	3720	" "	"	"	"	0^h34 E	11:35:00-11:55:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G99	3721	GC 7131 Orion	$5^h39.7$	+2°21	Dec 16		11:05:00-12:20:00	0-0	"	103aE 14x17	"	"	"	"	2-1	"	"	NT	
G100	3722	Pi 192 Tauri	$5^h40.3$	+23°11	"		13:00:00-14:15:00	0-0	"	" "	"	"	"	"	2-3	"	"	"	
	3723	☿ Suspect Region	5^h30	+28°10	Dec 19	2^h32 E	9:10:00-9:30:00	0-0	"	103aO 4x5	"	"	"	"	2	"	"	RB	
	3724	" "	"	"	"	2^h02 E	9:40:00-10:00:00	0-0	"	" "	"	"	"	"	"	"	"	"	
	3725	" "	5^h29	+28°20	Dec 20	2^h18 E	9:20:00-9:40:00	0-0	"	" "	"	"	"	"	1	"	"	"	
	3726	" "	"	"	"	1^h48 E	9:50:00-10:10:00	0-0	"	" "	"	"	"	"	1-2	"	"	"	
	3727	m.p. 1959 08 Region	5^h37^m	+21°44'	Dec. 21	1^h03^m E	10:40:00-11:00:00	0-0	"	103aO 8x10	"	"	"	"	1	Good	"	HLG	Driven in PA 103° at .43"/hr
	3728	" " "	"		"	0^h30^m E	11:11:00-11:31:00	0-0	"	"	"	"	"	"	1	"	"	"	"
	3729	6 Canis Minor	$7^h27.0$	+12°07	Dec 25	1^h45 W	14:10:00-15:25:00	0-0	"	103aE 14x17	"	"	"	"	2-1	f. good	"	NT	
	3730	HD 64326 Gemini	$7^h51.4$	+31°08	"	3^h10 W	15:55:00-17:10:00	0-0	"	" "	"	"	"	"	2	fair	"	"	
	3731	☿ Candy 1960n	22^h52	+69°50	Dec 28	1^h44 W	6:30:00-6:35:00	0-0	"	103aO 8x10	"	"	"	"	2-1	good	"	HLG	Bright moon. ☿ Not found
	3732	" "	"	"	"	1^h59 W	6:45:00-6:50:00	0-0	"	" "	"	"	"	"	2-	"	"	"	" " "
	3733	" "	"	"	"	2^h50 W	7:35:00-7:40:00	0-0	"	" 14x17	"	"	"	"	1	Poor	"	"	" " "
	3734	☿ Candy 1960n	21^h53	+67°35	Dec 29	5^h25 W	9:05:00-9:10:00	0-0	"	" 4x5	E	"	"	"	2		S	RB	" " ☿ Located.
	3735	" "	"	"	"	5^h45 W	9:25:00-9:30:00	0-0	"	" "	E	"	"	"	2		S	"	" " "
	3736	" "	22^h15	+63°42	Dec 30	2^h33 W	6:37:00-6:38:00	0-0	"	" "	W	"	"	"	1	Good	N	HLG	" "
	3737	" "	21^h59	+65°20	"	3^h17 W	7:05:00-7:06:00	0-0	"	" "	"	"	"	"	1	"	"	"	" "
	3738	" "	"	"	"		7:12:00-7:12:30	0-0	"	" "	"	"	"	"	1	"	"	"	" "

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1960	H.A. END	EXPOSURE O.A.D.	W.e.	INSTR.	PLATE	TELES. POSITION	DEVELOPEMENT KIND	DEVELOPEMENT TIME	DEVELOPEMENT TEMP	SEEING STEAD	SEEING TRANS	WRITING	OBSV	REMARKS
	3739	☄ Candy 1960n	21h59	+65°20	Dec 30	3h30 W	7:18:00-7:19:00	0-0	13"	103aO 4x5	W	D19	4 min	66-70	1	Good	N	HLG	Bright Moon
	3740	" "	22h03	+64°30	"	3h50 W	7:40:00-7:41:10	0-0	"	" "	"	"	"	"	1	"	"	"	"
	3741	" "	"	"	"	4h00 W	7:50:00-7:51:00	0-0	"	" "	"	"	"	"	1	"	"	"	"
	3742	☄ Candy 1960n	22h20	+62°05	Dec 31	3h32W	7:36:00-7:37:00	0-0	"	" "	E	"	"	"	3+	FAIR	S	RB	"
	3743	" "	"	"	"	3:40 W	7:44:00-7:45:00	0-0	"	" "	"	"	"	"	"	"	"	"	"
	3744	" "	"	"	"	3h47 W	7:50:00-7:52:00	0-0	"	" "	"	"	"	"	"	Good	"	"	"
1961	3745	☄ 1960n Candy	22h25	+59°00	Jan 1	3h45W	7:50:00-7:51:00	0-0	"	" "	E	"	"	"	3	Good	S	RB	Bright Moon
	3746	" "	"	"	"	3h52W	7:57:00-7:58:00	0-0	"	" "	"	"	"	"	"	"	"	"	" "
	3747	" "	22h31.5	+56°30	Jan 2	2h26W	6:36:00-6:37:00	0-0	"	" "	W	"	"	"	1+2	"	N	HLG	" "
	3748	" "	"	"	"	2h40W	6:50:00-6:51:00	0-0	"	" "	"	"	"	"	1, 2	"	"	"	
	3749	" "	22h41	+53°50	Jan 3		7:10:00-7:25:00	0-0	"	" "	E	"	"	"	2	"	S	RB	Guided on comet
	3750	" "	"	"	"		7:50:00-7:51:00	0-0	"	" "	"	"	"	"	"	"	"	"	
	3751	" "	22h46	+48°35	Jan 5		7:20:00-7:21:00	0-0	"	" "	"	"	"	"	"	"	"	"	
	3752	" "	"	"	"		7:26:00-7:27:00	0-0	"	" "	"	"	"	"	"	"	"	"	
	3753	" "	22h50	+46°22	Jan 6	3h03W	7:15:00-7:16:00	0-0	"	" "	W	"	"	"	"	"	N	HLG	
	3754	" "	"	"	"	3h13W	7:25:00-7:26:00	0-0	"	" "	"	"	"	"	"	"	"	"	
	3755	" "	22h57	+42°12	Jan 8	2h57W	7:07:00-7:08:00	0-0	"	" "	"	"	"	"	"	"	"	"	
	3756	" "	"	"	"	3h04W	7:15:00-7:16:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G101	3757	39 Aurigae	6h01.5	+42°59	Jan 8		10:00:00-10:20:00	0-0	"	" 14x17	"	"	"	"	4	"	"	NT	
G102	3758	GC 7285 Tauri	5h46.0	+11°58	"		10:40:00-11:00:00	0-0	"	" "	"	"	"	"	3-4	"	"	"	
	3759	" "	"	"	"		11:15:00-11:35:00	0-0	"	" "	"	"	"	"	"	fair	"	"	
	3760	☄ Encke	22h12	+1°50	Jan 9		7:25:00-7:55:00	0-0	"	" 4x5	"	"	"	"	2	"	"	RB	Guiding on Comet
G101	3761	39 Aurigae	6h01.5	+42°59	"	1h02 E	10:05:00-10:20:00	0-0	"	" 14x17	"	"	"	"	3	"	"	"	
G101	3762	" "	"	"	"	0h27 E	10:30:00-10:45:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G106	3763	Σ855 ORION	6h06.4	+2°31	"	0h06 E	11:00:00-11:20:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G106	3764	" "	"	"	"	0h29W	11:35:00-11:55:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G103	3765	HD 45375 Aurigae	6h25.2	+32°10	"	0h50W	12:15:00-12:35:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G101	3766	39 Aurigae	6h01.5	+42°59	Jan 11		10:10- 10:30	—	"	" "	"	"	"	"	2-3	Good	"	"	No WWV
G105	3767	73 ORIONIS	6h12.9	+12 34	"		10:50 11:10	—	"	" "	"	"	"	"	"	"	"	"	"
"	3768	" "	"	"	"		11:20 11:40	—	"	" "	"	"	"	"	"	"	"	"	"
G104	3769	ETA GEMINORUM	6h11.9	+22°31	"		11:55 12:15	—	"	" "	"	"	"	"	"	"	"	"	"
	3770	☄ 1960n Candy	23h05.7	+34°52	Jan 12	3h37W	7:40:00-7:41:30	0-0	"	" 4x5	"	"	"	"	2	"	"	HLG	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1961	H.A. END	EXPOSURE - O.A.D.	W.e.	INSTR.	PLATE	Telescope Position	DEVELOPEMENT KIND	DEVELOPEMENT Time	DEVELOPEMENT Temp	SEEING STEAD	SEEING TRANS	WRITING	OBSV	REMARKS
	3771	ψ 1960n CANDY	$23^h05.7$	+34°52	JAN 12	3^h47 W	7:49:00-7:50:02	0-0	13"	103aO 4x5	W	D19	4^{min}	66-70	2	Good	N	HLG	
G104	3772	36 GEMINORUM	$6^h48.6$	+21°49	"	1^h22 E	10:05:00-10:25:00	0-0	"	" 14x17	"	"	"	"	3-2	"	"	NT	
	3773	" "	"	"	"	0^h52 E	10:35:00-10:55:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G108	3774	18 MONOCEROTIS	$6^h45.3$	+2°28	"	0^h14 E	11:10:00-11:30:00	0-0	"	" "	"	"	"	"	2-3	"	"	"	
	3775	" "	"	"	"	0^h16 W	11:40:00-12:00:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G107	3776	HD 50948 AURIGAE	$6^h53.9$	+42°57	"	0^h55 W	12:30:00-12:50:00	0-0	"	" "	"	"	"	"	"	"	"	"	
	3777	" "	"	"	"	1^h25 W	13:00:00-13:20:00	0-0	"	" "	"	"	"	"	2	"	"	"	
G102	3778	GC 7285 TAURI	$5^h46.0$	+11°59	Jan 13		9:35:00-10:45:00	0-0	"	103aE "	"	"	"	"	"	FAIR	"	RB	
G110	3779	38 GEMINORUM	$6^h51.8$	+13°15	"	0^h17 E	11:10:00-11:30:00	0-0	"	103aO "	"	"	"	"	"	"	"	"	
G110	3780	" "	"	"	"	0^h13 W	11:40:00-12:00:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G106	3781	Σ855 ORION	$6^h06.4$	+2°31	JAN 14		10:52:00-12:02:00	0 0	"	103aE "	"	"	"	"	2-0	"	"	"	
	3782	DuToit & Search	13^h14^m	-1°10'	Jan 15	0^h40^m E	17:10:00-17:20:00	0 0	"	14x17 103a O	"	"	"	"	1-	Good	"	H-G.	Monday AM 5h10m to 5h20m
	3783	"	"	"	"	0^h17^m E	17:31:00-17:41:40	0-0	"	"	"	"	"	"	"	"	"	"	
G104	3784	η GEMINORUM	$6^h11.9$	+22°31	Jan 18		9:45:00-10:05:00	0-0	"	103aO 14x17	"	"	"	"	2	FAIR	"	RB	
G103	3785	HD 45375 AURIGAE	$6^h25.2$	+32°10	"		10:32:00-10:52:00	0-0	"	" "	"	"	"	"	2-	"	"	"	
G107	3786	HD 50948 AURIGAE	$6^h53.9$	+42°57	"		11:20:00-11:40:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G103	3787	HD 45375 AURIGAE	$6^h25.2$	+32°16	JAN 21	0^h58 W	11:25:00-11:45:00		"	" "	"	"	"	"	3+	Good	"	"	
G107	3788	HD 50948 AURIGAE	$6^h53.9$	+42°57	"		12:05:00-12:25:00		"	" "	"	"	"	"	3	"	"	"	
G91	3789	85 GEMINORUM	$7^h52.8$	+20°01	"	1^h28 W	12:45:00-13:45:00		"	103aE "	"	"	"	"	3-2	"	"	NT	
G105	3790	73 ORION	$6^h12.9$	+12°34	Feb 14	0^h13 E	7:48:00-8:48:00		"	" "	"	"	"	"	3+	"	"	RB	
G108	3791	18 MONOCEROS	$6^h45.3$	+2°28	"	0^h42 W	9:10:00-10:15:00		"	" "	"	"	"	"	"	"	"	"	CLOSED 9:30-9:35
	3792	DuToit & Search	14^h02	-9°04	"	0^h25 W	16:54:00-17:14:00		"	103aO "	"	"	"	"	3	"	"	HLG	
	3793	" "	14^h39	-14°20	"	0^h24 W	17:29:00-17:49:00		"	" "	"	"	"	"	"	"	"	"	
	3794	" "	15^h30	-20°00	"	0^h04 E	18:02:00-18:10:00		"	" "	"	"	"	"	"	"	"	"	
G109	3795	36 GEMINORUM	$6^h48.6$	+21°49	Feb 15	0^h24 E	8:05:00-9:10:00		"	103aE "	"	"	"	"	"	"	"	RB	
	3796	DuToit & Search	14^h02^m	-9°04'	Feb 20	0^h03^m E	16:02:00-16:22:00	0-0	"	14x17 103a O	"	"	"	"	1	good Fair	"	HG.	Tues AM.
	3797	" "	$14\ 48.5^m$	-15°48'	Feb 21	M.T.	16:38:00-17:08:00	"	"	"	"	"	"	"	2-	"	"	"	Wed. AM
	3798	" "	15 37	-23°40'	"	0^h07^m E	17:30:00-17:50:00	"	"	"	"	"	"	"	"	"	"	"	
	3799	GC 4994 TAURI	$4^h06.2$	+13°16	Mar 8.	2^h22 W	7:30:00-7:50:00	0-0	"	103aO 14x17	"	"	"	"	3-	FAIR	"	RB	
	3800	" " "	"	"	Mar 14	3^h07 W	7:45:00-8:10:00	0-0	"	" "	"	"	"	"	2	POOR	"	NT	
	3801	55 ORIONIS	5^h49	-7°38	April 3	2^h57 W	8:05:00-8:25:00	0-0	"	" "	"	"	"	"	3	Good	"	HLG	
	3802	7^m Corona Bor	16^h12^m	+38°04	"	6^h35 E	8:56:00-9:16:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G	3803	7 CANIS MINOR	$7^h29.5$	+2°01	April 8	1^h32 W	8:00:00-8:20:00	0-0	"	" "	"	"	"	"	"	fair	"	NT, RB	
G112	3804	" "	"	"	"	1^h57 W	8:25:00-8:45:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G116	3805	GC 13211 LYNX	$9^h32.0$	+39°51	"	0^h30 W	9:00:00-9:20:00	0-0	"	" "	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1961	H.A. END	EXPOSURE O.A.D.	W.E.	INSTR.	PLATE	Telescope Position	DEVELOPEMENT Kind	DEVELOPEMENT Time	DEVELOPEMENT Temp	SEEING Stead	SEEING TRANS	WRHUMG	OBSV.	REMARKS
G116	3806	GC 13221 Lynx	9h32.0	+39°51	April 8	0h55W	9:25:00-9:45:00	0-0	13"	103aO 14x17	W	D19	4 min	66-70	3	Good	N	RB, NT	
G107	3807	39 Aurigae	6h01.5	+42°59	April 9	3h54W	8:00:00-9:10:00	0-0	"	103aE 14x17	"	"	"	"	2-	fair	"	"	
G117	3808	+36°1989 Leo Minor	9h39.0	+35°42	"	0h52W	9:25:00-9:45:00	0-0	"	103aO 14x17	"	"	"	"	2+	"	"	"	
G117	3809	" "	"	"	"	1h17W	9:50:00-10:10:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G104	3810	Eta Geminorum	6h11.9	+22°31	April 11	4h02W	8:00:00-9:20:00	0-0	"	103aE 14x17	"	"	"	"	2-1	Good	"	NT, RB	
G118	3811	21 Leo Minor	10h04.5	+35°29	"	1h04W	9:55:00-10:15:00	0-0	"	103aO "	"	"	"	"	2	"	"	"	
G118	3812	" "	"	"	"	1h30W	10:20:00-10:40:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G120	3813	HD 98155 Leo	11h15.1	+25°19	"	0h54W	10:55:00-11:15:00	0-0	"	" "	"	"	"	"	3-2	"	"	"	
G120	3814	" "	"	"	"	1h24W	11:25:00-11:45:00	0-0	"	" "	"	"	"	"	2	"	"	"	
	3815	G99-44 μ STAR	5h53	-4°10	April 12	3h31W	8:06:00-8:26:00	0-0	"	" 4x5	"	"	"	"	"	"	"	HLG	
G107	3816	HD 50948 Aurigae	6h53.9	+42°57	"	4h19W	8:45:00-10:15:00	0-0	"	103aE 14x17	"	"	"	"	2-1	f-good	"	NT, RB	
G119	3817	43 Leo Minor	10h46.2	+29°41	"	1h07W	10:35:00-10:55:00	0-0	"	103aO "	"	"	"	"	2	fair	"	"	
G119	3818	" "	"	"	"	1h27W	11:05:00-11:25:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G103	3819	HD 45375 Aurigae	6h25.2	+32°10	April 13	4h08W	8:15:00-9:35:00	0-0	"	103aE "	"	"	"	"	2+	"	"	RB	
	3820	Praesepe (M44)	8h38	+19°48	April 14	1h08W	8:40:00-8:42:00	0-0	"	103aO 4x5	"	"	"	"	3	Good	"	HLG	
	3821	" "	"	"	"	1h32W	9:03:00-9:05:00	0-0	"	" "	"	"	"	"	"	"	"	"	
	3822	" "	"	"	"	2h00W	9:12:00-9:14:00	0-0	"	" 3¼x4¼	"	"	"	"	2	"	"	"	
	3823	" "	"	"	"	2h04W	9:36:00-9:38:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G112	3824	7 Canis Minor	7h29.5	+2°01	April 16	3h13W	8:00:00-9:30:00	0-0	"	103aE 14x17	"	"	"	"	1-2	f-good	"	NT	
	3825	Praesepe (M44)	8h37.0	+19°50	April 17	1h03W	8:17:00-8:18:00 8:24:00-8:25:00	0-0	"	103aO 3¼x4¼	"	"	"	"	3	Fair	"	HLG	
	3826	Praesepe "	"	"	"	1h30W	8:34:00-8:35:00 8:44:00-8:45:00	0-0	"	" "	"	"	"	"	"	"	"	"	
	3827	" "	"	"	"	1h27W	8:49:00-8:50:00	0-0	"	" "	"	"	"	"	"	"	"	"	
	3828	24 Coma Ber	12h32.6	+18°39	April 20	0h44E	10:10:00-10:15:00	0-0	"	" "	"	"	"	"	2-3	"	"	RB	Multiple exp. 2sec to 10sec
	3829	Σ1702 Canes Ven.	12h56.2	+38°33	"	0h28E	11:00:00-11:05:00	0-0	"	" "	"	"	"	"	"	"	"	"	" " "
	3830	OΣΣ126 Bootis	13h48.0	+21°31	"	0h59E	11:15:00-11:20:00	0-0	"	" "	"	"	"	"	2	"	"	"	" " "
G124	3831	Σ1852 Virgo	14h27.4	-4°01	"	0h31W	12:05:00-13:25:00	0-0	"	103aE 14x17	"	"	"	"	2+	"	"	"	
	3832	⊕ Satellite Suspect	15h41	-15°40	May 5	1h03E	11:55:00-12:11:00	0-0	"	103aO "	"	"	"	"	2	Gd-fair	"	HLG	OFFSET MOTION - LUNAR LIBRATION POINT
G116	3833	GC 13211 Lynx	9h32.0	+39°51	May 8	3h08W	8:40:00-10:00:00	0-0	"	103aE "	"	"	"	"	2	Good	"	RB	CLOSED 9:29-9:34
G117	3834	+36°1989 Leo Minor	9h39.0	+35°42	May 11	3h06W	8:35:00-9:55:00	0-0	"	" "	"	"	"	"	2-1	"	"	NT	
G123	3835	β Canes Venatici	12h31.4	+41°38	"	0h43W	10:05:00-10:25:00	0-0	"	103aO "	"	"	"	"	2+	"	"	RB	
G123	3836	" "	"	"	May 16	1h14W	10:15:00-10:35:00	0-0	"	" "	"	"	"	"	2	"	"	"	
G119	3837	43 Leo Minor	10h46.2	+29°41	May 17	4h00W	10:10:00-11:30:00	0-0	"	103aE 14x17	"	"	"	"	2+	fair	"	"	
G118	3838	21 Leo Minor	10h04.5	+35°29	June 3	4h29W	8:55:00-10:10:00	0-0	"	" "	"	"	"	"	3	Good	"	"	
G120	3839	HD 98155 Leo	11h15.1	+25°19	June 6	3h20W	9:00:00-10:00:00	0-0	"	" "	"	"	"	"	2+	"	"	"	
G122	3840	59 Ursa Major	11h35.7	+43°54	June 7	3h00W	9:35:00-9:55:00	0-0	"	103aO 14x17	"	"	"	"	2+	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1961	HA END	EXPOSURE O.A.D.	W.L.	INSTR.	PLATE	Telescope Position	DEVELOPEMENT Kind	DEVELOPEMENT Time	DEVELOPEMENT Temp	NRITING	SEEING Stead	SEEING Trans	OBSV	REMARKS
G122	3841	59 URSA MAJOR	$11^h35.7$	+43°54	June 12	3^h02 W	9:25:00-9:40:00	0-0	13"	103aO 14x17	W	D19	4^{min}	66-70	N	2	fair	RB	
G122	3842	" " "	"	"	"	3^h20 W	9:50:00-10:05:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G122	3843	" " "	"	"	June 14	3^h35 W	9:05:00-10:05:00	0-0	"	103aE "	"	"	"	"	"	"	Good	"	
G120	3844	HD 98155 Leo	$11^h15.1$	+25°19	June 15		9:20:00-9:40:00	0-0	"	" "	"	"	"	"	"	"	"	NT, RB	
G123	3845	β Cares Ven	$12^h31.4$	+41°38	"	4^h47 W	10:50:00-12:10:00	0-0	"	" "	"	"	"	"	"	"	"	"	
	3846	⊕ Wilson	5^h58^m	+44°50'	Aug 4 Fri/Sat	5^h02^m E	16:32:34-16:34:34	2x5 Slow	"	4x5 103aO	"	"	"	"	"	3	Poor +	HG.	Clouds + Bright moonlight, Fogged Pl. ⊕ 1½° S. of Guide Star.
	3847	"	"	"	"	4^h55^m E	16:37:10-16:38:14	"	"	"	"	"	"	"	"	"	Poor	"	
G125	3848	Σ2578 Cygni	$19^h43.8$	+35°58	Aug 7		11:15:00-11:40:00	0-0	"	103aO 14x17	"	"	"	"	"	"	Good	R.B	
	3849	⊕ Wilson	5^h45^m	+45°0'	Aug 7 Tues Am	4^h38^m E	16:28:00-16:30:00	our Time WWV	"	4x5 103aO	"	"	"	"	"	2	good	HG.	
	3850	"	"	"	"	4^h33^m E	16:33:00-16:35:00		"	"	"	"	"	"	"	"	"	"	
G125	3851	Σ2578 Cygni	$19^h43.8$	+35°58	Aug 10	0^h26 E	10:10:00-10:35:00	0-0	"	103aO 14x17	"	"	"	"	"	3	"	NT	
G125	3852	" "	"	"	"	1^h09 W	10:45:00-12:05:00	0-0	"	103aE 14x17	"	"	"	"	"	3-2	"	"	
	3853	D Libration Point	18^h03	-19°01	Aug 25		8:12:00-8:22:00	0-0	"	103aO "	"	"	"	"	"	2^+	"	RB	⊕ Satellite Search.
	3854	" "	"	"	"		8:26:00-8:35:00	0-0	"	" "	"	"	"	"	"	"	"	RB	" "
	3855	⊕ Humason	1^h02^m	+31°15'	Sept 5 Tues.-Wed	2^h37^m E	11:52:00-12:02:00	our Time	"	8x10 103aO	"	"	"	"	"	3	Good	HG	
	3856	"	"	"	"	2^h13^m E	12:13:00-12:17:00	"	"	"	"	"	"	"	"	3^+	"	"	⊕ Very Faint on this Exp cut to 4x5 size.
	3857	"	"	"	"	1^h52^m E	12:27:00-12:37:00	"	"	"	"	"	"	"	"	3^+	"	"	
G126	3858	13 PEGASI	$21^h47.8$	+17°03	Sept 12	0^h14 E	10:15:00-10:35:00	"	"	103aO 14x17	"	"	"	"	"	2^+	fair	NT	
G126	3859	" "	"	"	"	0^h11 W	10:40:00-11:00:00	"	"	" "	"	"	"	"	"	"	"	"	
G18	3860	Σ2878 Peg.	22^h12	+7°44	"	1^h12 W	11:15:00-12:25:00	"	"	103aE "	"	"	"	"	"	2^- -1	"	"	
G127	3861	HD 213143 Peg	$22^h26.7$	+21°08	Sept 13	0^h03 W	11:05:00-11:25:00	0-0	"	103aO "	"	"	"	"	"	2^+	"	RB	
G127	3862	" "	"	"	"	0^h33 W	11:35:00-11:55:00	"	"	" "	"	"	"	"	"	"	"	"	
G128	3863	60 Pegasi	$23^h09.4$	+26°35	"	0^h21 W	12:05:00-12:25:00	"	"	" "	"	"	"	"	"	"	"	"	
G128	3864	" "	"	"	"	0^h51 W	12:35:00-12:55:00	"	"	" "	"	"	"	"	"	"	"	"	
G126	3865	13 Pegasi	$21^h47.8$	+17°03	Sept 14	1^h08 W	10:40:00-11:50:00	"	"	103aE "	"	"	"	"	"	2^-	"	NT	
G129	3866	75 Pegasi	$23^h35.4$	+18°07	"	0^h29 E	12:00:10-12:10:10	"	"	103aO "	"	"	"	"	"	2^+ -1	f-poor	"	Stopped by clouds
G129	3867	" "	"	"	Sept 29	1^h41 E	9:30:00-9:50:00	"	"	" "	"	"	"	"	"	1-2	Good	"	
G129	3868	" "	"	"	"	1^h11 E	10:00:00-10:20:00	"	"	" "	"	"	"	"	"	2-1	fair+	"	
G128	3869	60 Pegasi	$23^h09.4$	+26°35	Oct 4	0^h21 E	9:10:00-10:25:00	"	"	103aE 14x17	"	"	"	"	"	3^+	"	RB	haze toward finish
G127	3870	HD 213143 Peg.	$22^h26.7$	+21°08	Oct 10	0^h26 E	7:55:00-9:10:00	"	"	" "	"	"	"	"	"	3^+	Good	"	
G129	3871	75 Pegasi	$23^h35.4$	+18°07	Oct 11	0^h55 E	8:30:00-9:45:00	"	"	" "	"	"	"	"	"	2^+	fair	"	Light haze after 9pm
G131	3872	HD 1607 Andr	$0^h17.9$	+22°12	Oct 12	1^h19 E	9:40:00-10:00:00	"	"	103aO "	"	"	"	"	"	1	Good	NT	
G131	3873	" "	"	"	"	0^h49 E	10:10:00-10:30:00	"	"	" "	"	"	"	"	"	"	"	"	NE wind coming up
G132	3874	GC1109 Andr	$0^h53.5$	+34°58	Oct 13	0^h56 E	10:30:00-10:55:00	"	"	" "	"	"	"	"	"	2	"	RB	
G132	3875	" "	"	"	"	0^h12 E	11:15:00-11:40:00	"	"	" "	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1961	HA END	EXPOSURE O.A.D.	W.e.	INSTR.	PLATE	Telescope POSITION	DEVELOPEMENT Kind	DEVELOPEMENT Time	DEVELOPEMENT Temp	WRITING	SEEING STEAD	SEEING TRANS	OBSV	REMARKS
	3876	ψ Seki 1961f	11h27.5	+7°50'	Oct 13		17:05:00-17:15:00	w. wv 0-0	13"	IIaO 14x17	W	D19	4m	66-70	N	1−	Good	HLG	
	3877	"	"	"	"	4h58mE	17:22:30-17:27:30	9 sec 3/00	"	"	"	"	"	"	"	1−	"	"	
	3878	"	11h23m	+13°55'	Oct 16	4h48mE	17:19:30-17:20:00	one time wev	"	4x5 103aO	"	"	"	"	"	3+	good	"	
	3879	"	"	"	"		17:29:00 to 17:30:00		"	"	"	"	"	"	"	"	"	"	
	3880	"	"	"	"	4h29mE	17:35:00-17:40:00	"	"	"	"	"	"	"	"	"	"	"	
	3881	"	11h20m	+13°39'	Oct 19 Friday AM	4h35mE	17:09:00-17:19:00	one time	"	"	"	"	"	"	"	3	good	"	
	3882	"	"	"	"		17:26:30-17:27:00	4 sec-fast	"	"	"	"	"	"	"	"	"	"	
	3883	"	"	"	"	4h24mE	17:32:00-17:32:30	4 sec-fast	"	"	"	"	"	"	"	"	"	"	
G131	3884	HD 1607 Andr.	0h17.9	+22°12	Nov 4		11:25:00-12:40:00	0-0	"	14x17 103aE	"	"	"	"	"	2+	"	NT	
G8	3885	GC 5317 Taurus	4h20.6	+20°52	"		12:50:00-1:50:00	0-0	"	" IIaO	"	"	"	"	"	3+	"	"	
G7	3886	GC 4994 Taurus	4h06.2	+13°16	Nov 9	0h44E	11:45:00-12:35:00	0-0	"	" "	"	"	"	"	"	3	"	NT, RB	
G8	3887	GC 5317 Taurus	4h20.6	+20°52	"	0h25W	13:05:00-13:55:00	0-0	"	" "	"	"	"	"	"	3+	"	"	
G8	3888	" "	"	"	"	1h45W	14:00:00-15:15:00	0-0	"	" 103aE	"	"	"	"	"	"	"	"	
	3889	ψ Seki 1961f	10h37.0	-7°15	"		15:35:00-15:55:00	0-0	"	8x10 103aO	"	"	"	"	"	"	"	"	
	3890	" "	"	"	"		16:40:00-16:55:00	0-0	"	" "	"	"	"	"	"	"	"	HLG	
	3891	" "	"	"	"	2h33E	17:05:00-17:15:00	0-0	"	" "	"	"	"	"	"	"	"	"	
	3892	" "	"	"	"		17:25:00-17:25:30	0-0	"	4x5 "	"	"	"	"	"	"	"	"	
	3893	" "	"	"	"	2h15E	17:30:00-17:30:30	0-0	"	" "	"	"	"	"	"	"	"	"	
G130	3894	HD 225260 Pegasi	0h02.3	+29°48	Nov 10	0h04W	8:55:00-9:15:00	0-0	"	14x17 "	"	"	"	"	"	"	"	RB	
	3895	" "	"	"	"	0h29W	9:20:00-9:40:00	0-0	"	" "	"	"	"	"	"	"	"	NT, RB	
	3896	" "	"	"	"	1h49W	9:45:00-11:00:00	0-0	"	" 103aE	"	"	"	"	"	"	"	"	
G8	3897	GC 5317 Taurus	4h20.6	+20°52	"	0h27E	12:10:00-13:00:00	0-0	"	" IIaO	"	"	"	"	"	"	"	"	
G133	3898	GC 2193 Andr	1h45.7	+37°42	Nov 11	1h48E	8:35:00-9:00:00	0-0	"	" 103aO	"	"	"	"	"	"	"	RB	
G133	3899	" " "	"	"	"	1h15E	9:10:00-9:35:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G134	3900	GC 3123 Andr.	2h33.4	+42°11	"	1h11E	10:00:00-10:25:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G134	3901	" " "	"	"	"	0h36E	10:35:00-11:00:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G8	3902	GC 5317 Taurus	4h20.6	+20°52	"	0h10E	12:25:00-13:15:00	0-0	"	" IIaO	"	"	"	"	"	"	"	NT	
	3903	GC 5317 Taurus	"	"	Nov 15	0h29E	12:15:00-12:35:00	0-0	"	" 103aO	"	"	"	"	"	"	"	RB	
G132	3904	GC 1109 Andr	0h53.5	+34°58	Nov 28	0h20E	7:01:00-8:31:00	0-0	"	" 103aE	"	"	"	"	"	"	"	"	
G8	3905	GC 5317 Taurus	4h20.6	+20°52	Nov 28	2h13E	9:15:00-10:05:00	0-0	"	" IIaO	"	"	"	"	"	3	"	HLG	
G85	3906	Iota Tauri	5h00.1	+21°31	"	1h33E	10:35:00-11:25:00	0-0	"	" "	"	"	"	"	"	2	fair	NT	
G133	3907	GC 2193 Andr	1h45.7	+37°42	Dec 4	1h25E	7:20:00-7:55:00	+1m +1m	"	" 103aO	"	"	"	"	"	"	good	RB, NT	
G133	3908	" "	"	"	"	0h39E	8:05:00-8:40:00	0-0	"	" "	"	"	"	"	"	1-2	"	"	
G8	3909	GC 5317 Taurus	4h20.6	+20°52	"	2h03E	9:00:00-9:50:00	0-0	"	" IIaO	"	"	"	"	"	1−	"	"	
0h14W	G7	3910	GC 4994 Taurus	4h06.2	+13°16	"	0h17W	11:05:00-11:55:00	0-0	"	" "	"	"	"	"	0-1+	"	"	

	NG No#	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1961	HA END	EXPOSURE O.A.D.	W.E.	INSTR.	PLATE		Telescope Position	DEVELOPEMENT KIND	DEVELOPEMENT Time	DEVELOPEMENT Temp	WRITING	SEEING STEAD	SEEING TRANS	OBSV	REMARKS
	3911	P.189 Pisces	0h45.8	+5°01	Dec 5	0h05W	7:25:00-8:25:00	0-0	13"	103aE	14x17	W	D19	4 min	66-70	N	3+-2	Good	NT, RB	
G134	3912	GC 3123 Andr	2h33.4	+42°11	"	0h00	8:35:00-10:05:00	0-0	"	"	"	"	"	"	"	"	3-2	"	"	
G7	3913	GC 4994 Taurus	4h06.2	+13°16	"	0h32E	10:12:00-11:02:00	0-0	"	IIaO	14x17	"	"	"	"	"	"	"	"	
G8	3914	GC 5317 Taurus	4h20.6	+20°52	Dec 26	2h02E	7:35:00-8:20:00	0-0	"	"	"	"	"	"	"	"	2	haze	RB	
G83	3915	93 Tauri	4h37.3	+12°06	Dec 27	0h57E	8:55:00-9:45:00	0-0	"	"	"	"	"	"	"	"	1	Good	HG	
G83	3916	93 Tauri	"	"	Dec 28	2h04E	7:40:00-8:30:00	0-0	"	"	"	"	"	"	"	"	2	Fair	RB, NT	
G85	3917	Iota Tauri	5h00.1	+21°31	"	1h27E	8:40:00-9:30:00	0-0	"	"	"	"	"	"	"	"	1-0	"	NT, RB	
G7	3918	GC 4994 Tauri	4h06.2	+13°16	"	1h32W	10:45:00-11:35:00	0-0	"	"	"	"	"	"	"	"	1-2	"	"	
G83	3919	93 Tauri	4h37.3	+12°06	Dec 29	2h00E	7:40:00-8:30:00	0-0	"	"	"	"	"	"	"	"	2-3	"	RB	
G83	3920	" "	"	"	"	1h08E	8:32:00-9:22:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
G85	3921	Iota Tauri	5h00.1	+21°31	Dec 30	1h29E	8:30:00-9:20:00	0-0	"	"	"	"	"	"	"	"	2	"	"	
1962 G85	3922	Iota Tauri	5h00.1	+21°31	Jan 2	1h32E	8:15:00-9:05:00	0-0	"	"	"	"	"	"	"	"	2	Good	NT, RB	
G83	3923	93 Tauri	4h37.3	+12°06	"	1h56W	11:20:00-12:10:00	0-0	"	"	"	"	"	"	"	"	2-3	"	"	
	3924	GC 2193 Andr	1h45.7	+37°42	Jan 3	2h16W	7:35:00-9:35:00	0-0	"	103aE	14x17	"	"	"	"	"	"	"	RB, NT	
	3925	Harrington-Abell II	5h44.5	+1°10'	"	0h57E	10:07:00-10:22:00	0-0	"	103aO	8x10	"	"	"	"	"	1	"	HLG	
	3926	" "	"	"	"	0h35E	10:30:00-10:45:00	0-0	"	"	"	"	"	"	"	"	1	"	"	
	3927	" "	"	"	"	0h12E	10:53:00-11:08:00	0-0	"	"	"	"	"	"	"	"	1	"	"	
	3928	Ranger III Region	14h04	-18°30	Jan 26	4h03E	14:01:00-14:03:00	0-0	"	"	14x17	"	"	"	"	"	2	Moon	RB, HG	
	3929	" "	"	"	"	3h59E	14:05:00-14:07:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
	3930	" "	"	"	"	3h05E	14:59:00-15:01:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
	3931	1962c (Seki-Lines)	8h00.1	-38°40	Feb 5		9:51:00-9:55:00	0-0	"	103aO	4x5	"	"	"	"	"	3	Fair	RB	
	3932	" "	"	"			10:35:00-10:40:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
G111	3933	HD 64309 Lynx	7h51.7	+42°06	Feb 22	1h48E	8:00:00-8:20:00	0-0	"	"	14x17	"	"	"	"	"	4	Good	NT	
G111	3934	" "	"	"	"	1h23E	8:25:00-8:45:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
	3935	Seki-Lines	4h25m	-34°45	Feb 27		7:40:00-8:00:00	0-0	"	"	4x5	"	"	"	"	"	2	"	RB	
	3936	" "	"	"	"		8:10:00-8:11:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
G111	3937	HD 64309 Lynx	7h51.7	+42°06	"	1h10E	8:20:00-8:40:00	0-0	"	"	14x17	"	"	"	"	"	3-2	"	NT, RB	
G115	3938	HD 75372 Lynx	8h47.7	+41°08	"	1h37E	8:50:00-9:10:00	0-0	"	"	"	"	"	"	"	"	3	"	"	
G115	3939	" " "	"	"	"	0h49E	9:20:00-9:40:00	0-0	"	"	"	"	"	"	"	"	3-2	"	"	
G114	3940	HD 76320 Hydra	8h52.8	-2°33	"	2h40E	9:50:00-10:10:00	0-0	"	"	"	"	"	"	"	"	3	"	"	
G113	3941	GC 11179 Hydra	8h10.8	-1°01	"	1h28E	10:20:00-10:40:00	0-0	"	"	"	"	"	"	"	"	2+	"	"	
G113	3942	" " "	"	"	"	0h51W	10:45:00-11:05:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
G7	3943	GC 4994 Taurus	4h06.2	+13°16	Feb 28	2h38W	7:30:00-8:40:00	0-0	"	103aE	"	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1962	H.A. END	EXPOSURE O.A.D.	W.e.	INSTR.	PLATE		Telescope Position	DEVELOPEMENT Kind	DEVELOPEMENT Time	DEVELOPEMENT Temp	WRITING	SEEING STEAD	SEEING TRANS	OBSV	REMARKS
G111	3944	HD 64309 Lynx	7h51.7	+42°06	Feb 28	1h30E	9:05:00-10:15:00	+5-0	13"	103aE	14x17	W	D19	4 min	66-70	N	4-3	Good	NT,RB	
G114	3945	HD 76320 Hydra	8h52.8	-2°33	"	0h02E	10:25:00-10:45:00	0-0	"	103aO	"	"	"	"	"	"	2-3	"	"	
G110	3946	38 Geminorum	6h51.8	+13°15	Mar 25	2h04W	8:00:00-9:10:00	0-0	"	103aE	"	"	"	"	"	"	"	"	"	
G114	3947	HD 76320 Hydra	8h52.8	-2°33	"	0h33W	9:20:00-9:40:00	0-0	"	103aO	"	"	"	"	"	"	"	"	RB,NT	
G114	3948	" "	"	"	"	1h03W	9:50:00-10:10:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
G113	3949	GC 11179 Hydra	8h10.8	-1°01	Mar 26	0h02E	8:00:00-8:20:00	0-0	"	"	"	"	"	"	"	"	3-2	"	"	
G113	3950	" "	"	"	"	0h27W	8:30:00-8:50:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
G114	3951	HD 76320 Hydra	8h528	-2°33	"	1h02W	8:55:00-10:05:00	0-0	"	103aE	"	"	"	"	"	"	3	"	"	
G115	3952	HD 75372 Lynx	8h47.7	+41°08	"	2h27W	10:15:00-11:25:00	0-0	"	"	"	"	"	"	"	"	3	"	"	
	3953	☿ Seki-Lines 1962c	2h05	+20°00	Apr 7		7:55:00-8:05:00	0-0	5"	103aO	8x10	E	"	"	"	"	2	*	RB	TWILIGHT + CLOUDS
	3954	" "			Apr 11		8:07:00-8:08:00	0-0	13"	"	4x5	"	"	"	"	"	1	"	NG	
	3955a	" "			"		8:13:20-8:27:20	0-0	"	"	14x17	"	"	"	"	"	1	"	"	
	3955b	" "			"		8:13:00-8:27:08	0-0	5"	"	8x10	"	"	"	"	"	1	"	"	
	3956	" "	3h47	+25°26	Apr 17		8:27:00-8:35:00	0-0	13"	"	"	"	"	"	"	"	1	fair		☿ + PLEIADES
G121	3957	HD 104076 Leo	11h56	+24 54	Apr 30		8:25:10-8:45:10	0-0	"	"	14x17	"	"	"	"	"	3	Good	RB,NT	
G121	3958	" "	"	"	"		9:00:00-10:20:00	0-0	"	"	"	"	"	"	"	"	2+	"	"	
G135	3959	20 Bootis	14h17	+16 32	"		10:55:00-11:15:00	0-0	"	"	"	"	"	"	"	"	2-	"	"	
G135	3960	"	"	"	"		11:20:00-11:40:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
	3961	☿ Honda 1962d	1h38	+53 43	May 1	9h04W	8:25:00-8:30:00	0-0	"	"	"	"	"	"	"	"	2	fair	HLG	
G135	3962	20 Bootis	14h17	+16 32	May 29		9:00:00-10:15:00	0-0	"	103aE	14x17	"	"	"	"	"	3+	"	RB	
G121	3963	HD 104076 Leo	11 56.4	+24 54	May 31		9:00:00-10:15:00	0-0	"	"	"	"	"	"	"	"	3	Good	"	
G136	3964	HD 133163 Bootis	15h00	+13 40	June 4	0h52E	9:25:00-9:45:00	0-0	"	103aO	"	"	"	"	"	"	3	fair	"	
G136	3965	" "	"	"	"	0h22E	9:55:00-10:15:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
G136	3966	" "	"	"	June 23	1h59W	10:04:00-11:19:00		"	103aE	"	"	"	"	"	"	3+	Good	NT	NO WWV, WATCH 2½m SLOW
	3967	Ross 867 + 868	17h17.9	+26°32	June 25		11:30:00-11:45:00		"	103aO	4x5	"	"	"	"	"	"	"	RB	
G142	3968	31 Aquilae	19h22.6	+11°50	July 31	0h52E	10:00:00-10:20:00	+2m+2m	"	103aO	14x17	"	"	"	"	"	2-3	"	"	NO WWV-WATCH 2m SLOW
G142	3969	" "	"	"	"	0h27E	10:25:00-10:45:00	"	"	"	"	"	"	"	"	"	3	"	"	" " "
G144	3970	δ Delphini	20h41.1	+14°54	"	0h25E	11:45:00-12:05:00	"	"	"	"	"	"	"	"	"	3	v good	"	" " " "
G144	3971	" "	"	"	"	0h00	12:10:00-12:30:00	"	"	"	"	"	"	"	"	"	3	"	"	" " "
G137	3972	Nu Serpentis	15h45.0	+14°16	Aug 3	1h47W	8:50:00-9:10:00	0-0	"	"	"	"	"	"	"	"	2	"	RB	
G137	3973	" "	"	"	"	2h12W	9:15:00-9:35:00	"	"	"	"	"	"	"	"	"	2+	"	"	
G139	3974	HD 156147 Ophiuchi	17h13.2	+9°17	"	1h19W	9:50:00-10:10:00	"	"	"	"	"	"	"	"	"	2+	"	"	
G139	3975	" " "	"	"	"	1h44W	10:15:00-10:35:00	"	"	"	"	"	"	"	"	"	2+	"	"	
G141	3976	HD 172522 Ophiuchi	18h38.0	+8°49	"	1h06W	11:02:00-11:22:00	"	"	"	"	"	"	"	"	"	2+	"	"	
G141	3977	" " "	"	"	"	1h29W	11:25:00-11:45:00	"	"	"	"	"	"	"	"	"	2+	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1962	H.A. END	EXPOSURE O.A.D.	w.e.	INSTR.	PLATE	Telescope Position	DEVELOPEMENT Kind	DEVELOPEMENT Time	DEVELOPEMENT Temp	WRITING	SEEING Stead	SEEING Trans	OBSV	REMARKS
G138	3978	29 Herculis	16h30.3m	+11° 36'	Aug 4	1h05 W	8:50:00-9:10:00	0-0	13"	103aO 14x17	W	D19	4 min	66-70	N	2	good	NT, RB	
G138	3979	" "	"	"	"	1h30 W	9:15:00-9:35:00	"	"	" "	"	"	"	"	"	"	"	"	
G140	3980	HD 163507 Ophi	17h53.8	+7° 57	"	0h38 W	9:45:00-10:05:00	"	"	" "	"	"	"	"	"	"	"	"	
G140	3981	" " "	"	"	"	1h23 W	10:36:00-10:50:00	"	"	" "	"	"	"	"	"	"	"	"	
G140	3982	" " "	"	"	Aug 22	0h13 W	8:20:00-8:40:00	"	"	" "	"	"	"	"	"	3	"	RB	
G143	3983	HD 186962 Aquila	19h58.5	+13° 14	"	0h38 W	8:55:00-9:15:00	"	"	" "	"	"	"	"	"	"	"	"	
G143	3984	" " "	"	"	"	0h36 E	9:25:00-9:45:00	"	"	" "	"	"	"	"	"	"	"	"	
G137	3985	Nu Serpentis	15h45.0	+14° 16	Aug 24	3h39 W	8:21:00-9:41:00	"	"	103aE "	"	"	"	"	"	4-2	"	NT	
G141	3986	HD 172522 Ophi	18h38.0	+8° 49	"	2h17 W	9:58:00-11:13:00	"	"	" "	"	"	"	"	"	3	"	"	
G138	3987	29 Herculis	16h30.3	+11° 36	Aug 25	2h39 W	8:10:00-9:20:00	"	"	" "	"	"	"	"	"	2-	fair	RB	
G144	3988	δ Delphini	20h41.1	+14° 54	Aug 27	1h15 W	10:45:00-12:00:00		"	" "	"	"	"	"	"	2-3	good	"	
G140	3989	HD 163507 Ophi	17h53.8	+7° 57	Aug 28	2h18 W	8:43:00-10:13:00	"	"	" "	"	"	"	"	"	3	"	NT	
G139	3990	HD 156147 Ophi	17h13.2	+9° 17	Aug 29	2h44 W	8:10:00-9:50:00	"	"	" "	"	"	"	"	"	3+	fair	RB	
G142	3991	31 Aquilae	19h22.6	+11° 50	Aug 30	1h34 W	8:50:00-10:50:00	"	"	" "	"	"	"	"	"	3	"	NT	
G143	3992	HD 189692 Aquilae	19h58.5	+13° 14	Sept 1	0h40 E	8:15:00-9:50:00	"	"	" "	"	"	"	"	"	3	Good	RB	
G142	3993	31 Aquilae	19h22.6	+11° 50	Sept 29	1h44 W	7:30:00-9:00:00	"	"	" "	"	"	"	"	"	2	"	"	
G145	3994	HD 203631 Peg	21 20.8	+16° 17	Oct 3	0h42 W	9:20 - 9:40	+2m	"	103aO "	"	"	"	"	"	2	"	"	
G145	3995	" " "	"	"	"	1h13 W	9:50 - 10:10	+2m	"	" "	"	"	"	"	"	2	"	"	
G145	3996	" " "	"	"	Oct 21	0h05 E	7:20 - 7:40	+4m	"	" "	"	"	"	"	"	2-	"	"	
G145	3997	" " "	"	"	"	0h25 W	7:50 - 8:10	+4m	"	" "	"	"	"	"	"	2-	"	"	
G145	3998	" " "	"	"	Oct 22	1h16 W	7:30:00-9:00:00		"	103aE "	"	"	"	"	"	4-3	"	NT, RB	
	3999	SuperNova NGC 1073	2h41.2	+1° 10'	Nov 27	0h46 E	9:30:00-9:55:00	0-0	"	103aO 4x5	"	"	"	"	"	3+	"	RB	
	4000	P/Kulin, 1939 III. Search for.	3h10½m	+11° 10'	Dec. 29 Sat. Eve	1h44m W	10:28:13-10:48:13	13s fast	"	14x17 103aO	"	"	"	"	"	3-	Good	H.G.	Search for P/Kulin & Hasegawa Ephemeris
	4001	"	"	"	"	2h15m W	11:00:13-11:20:13	"	"	"	"	"	"	"	"	"	"	"	"
	4002	"	"	"	Dec. 30	0h34m W	9:04:02-9:24:02	2 sec fast	"	"	"	"	"	"	"	4	Good	"	"
1963	4003	Nova Lyrae 1963	18h13m	+41° 50'	Feb 13		17:17 - 17:32		"	4x5 103aO	"	"	"	"	"	3+	fair	RB	
	4004	Comet IKEYA 1963a	2h09	-15° 30	Feb 26		8:25 - 8:40		"	14x17 103aO	E	"	"	"	"	3	"	"	
	4005	" " "	1h58	+3° 25	Mar 13		7:46:00-8:11:00	0-0	"	" "	"	"	"	"	"	2	v. good	"	
	4006	" " "	1h57	+4 00	Mar 14		7:51:00-8:11:00	"	5"	8x10 "	"	"	"	"	"	1	fair	"	
	4007	" " "	1h47	+7	Mar 19		8:00 - 8:23		13"	14x17 "	"	"	"	"	"	2	Good	"	
G13	4008	GC 11179	8h10.8	-1° 01	"	0h59 W	8:35:00-9:55:00		"	" 103aE	W	"	"	"	"	3	"	"	
G146	4009	HD 90903 U. Maj	10h27.5	+41° 44	"	0h44 W	11:30:00-11:50:00		"	" 103aO	"	"	"	"	"	2	"	NT, RB	
G146	4010	" " "	"	"	"	1h24 W	12:11:00-12:31:00		"	" "	"	"	"	"	"	2-3	"	"	
G147	4011	Nu Ursa Majoris	11h15.8	+33° 22	Apr 15	0h17 W	10:05 - 10:25		"	" "	"	"	"	"		3	fair	RB	
G147	4012	" " "	"	"	"	0h47 W	10:35 - 10:55		"	" "	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1963	H.A. END	EXPOSURE O.A.D.	W.e.	INSTR.	PLATE		Telescope Position	DEVELOPEMENT KIND	DEVELOPEMENT Time	DEVELOPEMENT Temp	WRITING	SEEING TRANS	SEEING STEAD	OBSV	REMARKS
G146	4013	HD 90903 U. MAJ	$10^h27.5$	+41°44	Apr 22	0^h54W	8:30-9:45	+2m	13"	103aE	14x17	W	D19	4 min	66-70	N	Good	3	RB	
G148	4014	HD 105388 Coma	$12^h05.6$	+31°20	"	0^h01W	10:12-10:32	0	"	103aO	"	"	"	"	"	"	"	"	"	
G148	4015	" " "	"	"	"	0^h35W	10:45:00-11:05:00	0-0	"	"	"	"	"	"	"	"	"	"	"	
G147	4016	Nu URSA MAJORIS	$11^h15.8$	+33 22	May 15	3^h35W	10:30:00-11:45:00		"	103aE	"	"	"	"	"	"	"	2	"	
G149	4017	39 Coma Ber	$13^h03.9$	+21°25	May 16	0^h34E	9:00:00-9:20:00		"	103aO	"	"	"	"	"	"	"	2-3	"	
G149	4018	" " "	"	"	"	0^h04E	9:30:00-9:50:00		"	"	"	"	"	"	"	"	"	3	"	
G150	4019	OΣΣ126 Bootes	$13^h48.0$	+21°31	"	0^h08E	10:10:00-10:30:00		"	"	"	"	"	"	"	"	"	"	"	
G150	4020	" "	"	"	"	0^h23W	10:41:00-11:01:00		"	"	"	"	"	"	"	"	"	"	"	
G148	4021	HD105388 Coma	$12^h05.6$	+31°20	May 24	2^h30W	9:24:00-10:54:00		"	103aE	"	"	"	"	"	"	"	"	NT, RB	
G149	4022	39 Coma Ber	$13^h03.9$	+21°25	June 11	2^h26W	9:10:00-10:40:00	0-0	"	"	"	"	"	"	"	"	"	3-2	NT	
G150	4023	OΣΣ126, Bootes	$13^h48.0$	+21°31	June 12	2^h03W	9:25:00-10:55:00	+2m	"	"	"	"	"	"	"	"	"	3	RB	
G151	4024	HD 134359 Libra	$15^h06.9$	-7° 41	June 18	0^h02E	9:20:00-9:45:00	0-0	"	103aO	"	"	"	"	"	"	"	3-2	NT	
	4025	HD 135793	$15^h14.5$	-7° 40	"	0^h28W	10:00:00-10:25:00	0-0	"	"	"	"	"	"	"	"	"	3	"	
G152	4026	Σ1962 Libra	$15^h36.0$	-8°38'	"	0^h52W	10:55:00-11:10:00	"	"	"	"	"	"	"	"	"	"	3+	"	
G152	4027	" "	"	"	"	1^h17W	11:20:00-11:35:00	"	"	"	"	"	"	"	"	"	"	3-2	"	
G151	4028	HD 134359, Libra	$15^h06.9$	-7° 41	June 19	0^h47W	10:00:00-10:30:00	"	"	"	"	"	"	"	"	"	"	2+	"	
G153	4029	Ψ Scorpii	$16^h09.3$	-9°56	"	0^h10W	10:40:00-10:55:00	"	"	"	"	"	"	"	"	"	"	2	"	
G153	4030	" "	"	"	"	0^h34W	11:05:00-11:20:00	-30s	"	"	"	"	"	"	"	"	"	"	"	
	4031	Alcock W Suspect	$23^h41.8$	+21°48	June 19		15:17:00-15:25:00	0-0	"	103aO	8x10	"	"	"	"	"	"	3	NG	
	4032	" "	"	"	"		15:32:00-15:40:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4033	" "	"	"	"	2^h33E	15:42:00-15:45:00	"	"	"	4x5	"	"	"	"	"	"	"	"	
G151	4034	HD134359, Libra	$15^h06.9$	-7°41	June 20		9:15:00-11:15:00	"	"	103aE	14x17	"	"	"	"	"	"	2+	RB	
G152	4035	Σ1962, LIBRA	$15^h35.9$	-8°38	June 24		10:11:00-11:15:00		"	"	"	"	"	"	"	"	"	2	"	
	4036	Temple W Temple Swift Region	4^h47	+31°22	Aug 19		16:49:00-16:51:00	-3m54s		103aO	4x5	"	"	"	"	"	fair	1,2	HG	
	4037	" " "	"	"	"		16:54:00-16:56:00	"		"	"	"	"	"	"	"	"	"	"	
G154	4038	HD163512, SERP.	$17^h54.3$	-13°39	Aug 20	1^h24W	9:35:15-9:50:15	0-0	"	103aO	14x17	"	"	"	"	"	Good	3-2	NT	
G155	4039	Gamma Scuti	$18^h26.4$	-14°36	"	1^h17W	10:00:00-10:15:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4040	→	4^h33	+32°38	"	2^h48E	16:10:30-16:20:30	"	"	"	"	"	"	"	"	"	Good	3	HG	COMPETELY FOGGED. PLATE DESTROYED
	4041	Temple Temple Swift Region	4^h47	+31°22	"		16:28:00-16:33:00	"	"	"	4x5	"	"	"	"	"	"	"	"	
	4042	" " "	"	"	"	2^h38E	16:38:00-16:43:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4043	" " "	"	"	"		16:46:00-16:52:00	"	"	"	8x10	"	"	"	"	"	"	"	"	
G154	4044	HD163512, Serp.	$17^h54.3$	-13°39	Aug 23	0^h35W	8:30-8:34; 8:39-8:50	"	"	"	14x17	"	"	"	"	"	fair	2+	RB	
G155	4045	Gamma Scuti	$18^h26.4$	-14°36	"	0^h44W	9:15:00-9:30:00	"	"	"	"	"	"	"	"	"	"	2+	"	
G154	4046	HD163512 Serp	$17^h54.3$	-13°39	Sept 11		8:25:00-9:35:00	"	"	103aE	14x17	"	"	"	"	"	"	2	NT	
G155	4047	Gamma Scuti	$18^h26.4$	-14°36	Sept 12		8:15:00-9:15:00	"	"	"	"	"	"	"	"	"	Good	2+	RB	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1963	H.A. END	EXPOSURE O.A.D.	w.e.	INST	PLATE	Telescope Position	DEVELOPEMENT Kind	DEVELOPEMENT Time	DEVELOPEMENT Temp	WRITING	SEEING TRANS	SEEING STEAD	OBSV	REMARKS
	4048	W PEREYRA	9^h28	$-6°18'$	Sept 18	5^h11 E	16:56:00-17:00:00	0-0	13"	103aO 8x10	W	D19	4 min	66-70	N	Poor	1	HLG	Broken in holder
	4049	"	"	"	"	5^h07 E	17:02:00-17:04:00	"	"	" 4x5	"	"	"	"	"	"	"	"	Morning twilight
	4050	"	9^h50	$-8°$	Sept 20	5^h02 E	17:08:00-17:12:00	"	"	" 8x10	"	"	"	"	"			"	" " -fogged
	4051	"	9^h31	$-12°$	Sept 29		4:50:00-5:00:00	"	"	" "	"	"	"	"	"	fair	1-2	NT	
	4052	"	"	"	"		5:05:00-5:15:00	"	"	" "	"	"	"	"	"	"	"	"	
G156	4053	Σ2935 AQUARIUS	$22^h40.4$	$-8°34$	Oct 11	0^h47 E	8:45:00-9:00-00	"	"	103aO 14x17	"	"	"	"	"	Good	3+	RB	
G156	4054	" "	"	"	"	0^h22 E	9:10:00-9:25:00	"	"	" "	"	"	"	"	"	"	"	"	
G157	4055	GC 32489 Aquarius	23^h18	$-4°11$	Nov 11	0^h18 E	7:45:30-8:00:30	"	"	" "	"	"	"	"	"	V. Good	2+	"	
G157	4056	" "	"	"	"	0^h07 W	8:10:00-8:25:00	"	"	" "	"	"	"	"	"	"	"	"	
G156	4057	Σ2935 Aquarius	22^h40	$-8°34$	Nov 14	0^h57 W	7:30:00-8:30:00	"	"	103aE 14x17	"	"	"	"	"	Good	4-3	NT	Bright sky.
G158	4058	GC 283 CETUS	0^h12	$-9°51$	Nov 18	0^h12 W	8:45:00-9:00:00		"	103aO "	"	"	"	"	"	fair	2-3	RB	Slight haze
G158	4059	" "	"	"	"	0^h42 W	9:15:00-9:30:00		"	" "	"	"	"	"	"	"	"	"	
	4060	M.P. #624 HEKTOR	5^h55	$+45°$	"	4^h08 E	10:05:00-10:25:00		"	" 4x5	"	"	"	"	"	Good	3-4	"	Guide-β Aurigae
	4061	" "	"	"	"	2^h32 E	11:40:00-12:00:00		"	" "	"	"	"	"	"	"	"	"	" "
G157	4062	GC 32489 Aquarius	23^h18	$-4°11$	Nov 19	1^h39 W	8:20:00-9:30:00		"	103aE 14x17	"	"	"	"	"	Hazy	4-3	NT	
	4063	M.P. #624 Hektor	5^h55	$+45°$	"	4^h33 E	9:45:00-10:04 —		"	103aO 4x5	"	"	"	"	"	"	"	RB,NT	Guide-β Aurigae
G158	4064	GC 283, CETUS	0^h12	$-9°51$	Dec 17		8:30:00-9:30:00	0-0	"	103aE 14x17	"	"	"	"	"	Good	3-2-	NT	
1964 G159	4065	GC 2548, CETUS	2^h05	$-0°51$	Jan 8	0^h39 W	7:45:00-8:00:00	"	"	103aO 14x17	"	"	"	"	"	"	2	"	
G159	4066	" "	"	"	"	0^h59 W	8:05:00-8:20:00	"	"	" "	"	"	"	"	"	"	1	"	
G160	4067	BD-11°758 Erid	3^h52	$-11°17$	"	0^h12 W	9:05:00-9:20:00	0-0	"	" "	"	"	"	"	"	"	1-2	"	
G160	4068	" "	"		"	0^h32 W	9:25:00-9:40:00	"	"	" "	"	"	"	"	"	"	"	"	
G159	4069	GC 2548 CETUS	2^h05	$-0°51$	Jan 9	0^h43 W	7:35:00-8:00:00	"	"	" "	"	"	"	"	"	"	3-4	RB	
G159	4070	" "	"	"	Jan 15	0^h57 W	7:25:00-7:50:00	"	"	" "	"	"	"	"	"	Fair	2	"	
G160	4071	BD-11°758 Erid	3^h52	$-11°17'$	"	0^h00	8:20:00-8:40:00		"	" "	"	"	"	"	"	"	"	"	
G160	4072	" "	"	"	"	0^h30 W	8:50:00-9:10:00		"	" "	"	"	"	"	"	Good	2-3	"	
	4074	Moon Ranger 6 Impact			Feb 1		14:24:00 to 14:31:00		"	8x10 103Ao						Good	-4	HG	d.l. Sunday AM Feb 2 2^h24^m to 2^h31^m AM
G159	4073	GC 2548 CETUS	2^h05	$-0°51$	JAN 16	1^h56 W	7:15:00-8:45:00		"	14x17 103aE	"	"	"	"	"	f-good	3+	NT	
G160	4075	BD-11°758 Erid.	3^h52	$-11°17$	Feb 4	1^h18 W	7:20:00-8:40:00		"	" "	"	"	"	"	"	"	2	RB	
G161	4076	33 Hydrae	9^h32	$-5°41$	Feb 9	0^h46 E	11:35:00-11:55:00	0-0	"	" 103aO	"	"	"	"	"	Good	3+	NT	
G161	4077	" "	"	"	"	0^h21 E	12:00:00-12:20:00	"	"	" "	"	"	"	"	"	"	"	"	
G162	4078	GC 14044 Sextans	$10^h11.3$	$-4°58$	Mar 10	0^h12 E	10:50:00-11:10:00	"	"	" "	"	"	"	"	"	"	4-4+	"	
G162	4079	" "	"	"	"	0^h13 W	11:15:00-11:35:00	"	"	" "	"	"	"	"	"	"	"	"	
G163	4080	61 Leonis	$10^h59.3$	$-2°13$	"	0^h15 W	12:05:00-12:25:00	"	"	" "	"	"	"	"	"	"	"	"	
G163	4081	" "	"	"	"	0^h40 W	12:30:00-12:50:00	"	"	" "	"	"	"	"	"	fair	2-3	NT	
G153	4082	Psi Scorpii	$16^h09.3$	$-9°56$	Mar 20	0^h20 W	16:00:00-17:00:00	"	"	" 103aE	"	"	"	"	"				

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1964	H.A. END	EXPOSURE O.A.D.	W.E.	INSTR.	PLATE	Telescope Position	DEVELOPEMENT Kind	DEVELOPEMENT Time	DEVELOPEMENT Temp	WRITING	SEEING TRANS	SEEING STEAD	OBSV	REMARKS
G161	4083	33 Hydrae	$9^h32.0$	-5°41	Apr 8	0^h41 W	8:10:00-9:30:00	0-0	13"	103aE 14x17	W	D19	4 min	66-70	N	Good	2-3	RB	
G162	4084	GC 14044 Sextans	10 11.4	-4 58	Apr 11		8:25:00-9:45:00		"	" "	"	"	"	"	"	"	3+	"	
	4085	M36 + M38	5^h31	+34 41	Apr 13		8:30 - 8:50		"	103aO 8x10	"	"	"	"	"	fair	3	"	
	4086	M81 Region	9^h51	+69 18	"		10:07- 10:27		"	" "	"	"	"	"	"	"	"	"	
G163	4087	61 LEONIS	$10^h59.3$	-2° 13	Apr 14		10:16:00-11:36:00		"	103aE 14x17	"	"	"	"	"	Good	4	"	
G164	4088	HD112800 C. Ven.	$12^h56.6$	+34°49	May 8	0^h11 E	9:45:00-10:05:00	0-0	"	103aO 14x17	"	"	"	"	"	"	3+	RB	
G164	4089	" "	"	"	"	0^h34W	10:30:00-10:50:00	"	"	" "	"	"	"	"	"	"		"	
G165	4090	GC18721 C. Ven	$13^h48.9$	+35°01	May 10	1^h15E	9:25:00-9:45:00	"	"	" "	"	"	"	"	"	"	3	"	
G165	4091	" "	"	"	"	0^h45E	9:55:00-10:15:00	"	"	" "	"	"	"	"	"	"	"	"	
	4092	Coma Berenices	12^h22	+26°	May 29		9:38:00-10:10:00		5" Cooke	" 8x10	"	"	"	"	"	"	"	"	
G165	4093	GC 18721 C. Ven.	$13^h48.9$	+35 01	June 1		10:20:00-11:40:00		13"	103aE 14x17	"	"	"	"	"	"	"	"	
G164	4094	HD 112800 C. Ven	$12^h56.6$	+34°49	June 9	2^h17W	9:06:00-10:26:00		"	" "	"	"	"	"	"	"	"	"	
G166	4095	GC 19608, Bootes	14 30.1	+26° 54	"	1^h33 W	10:55:00-11:15:00		"	103aO "	"	"	"	"	"	"	3+	NT	
G167	4096	Σ1932 Corona Bor	$15^h16.2$	+27° 01	"	0^h57W	11:25:00-11:45:00		"	" "	"	"	"	"	"	"	"	"	
G169	4097	GC 22452 Herc.	$16^h38.9$	+24°57	"	1^h14W	12:45:00-13:05:00		"	" "	"	"	"	"	"	"	"	"	
G169	4098	" " "	"	"	"	1^h34W	13:10:00-13:25:00		"	" "	"	"	"	"	"	"	"	"	Exp. Stopped by Clouds.
G166	4099	GC 19608 Bootes	$14^h30.1$	+26°54	June 10		9:30:00-9:50:00		"	" "	"	"	"	"	"	"	3-	RB	
G167	4100	Σ1932 Cor. Bor.	$15^h16.2$	+27°01	"		10:00:00-10:20:00		"	" "	"	"	"	"	"	"	2+	"	
G168	4101	ε Cor. Bor.	$15^h55.5$	+27°01	"		10:35:00-10:55:00		"	" "	"	"	"	"	"	"	"	"	
G168	4102	" "	"	"	"		11:05:00-11:25:00		"	" "	"	"	"	"	"	"	"	"	
	4103	✓ GERBER	$2^h25.1$	+13°56	"		15:35:00-15:45:00		"	" 4x5	"	"	"	"	"	"	"	"	
	4104	✓ Tomita Gerber Honda 1964c	9^h07	+28°10	July 4		9:10:00-9:30:00	0-0	"	" "	E	"	"	"	"	"	2	RB	
	4105	✓ " " "	9^h14	+27°20	July 5		9:15:00-9:35:00	"	"	" 8x10	"	"	"	"	"	"	"	"	
	4106	" " "	9^h21	+26 40	July 6		8:58:30-8:59:00		"	" 4x5	"	"	"	"				HG	
	4107	" " "	"	"	"		9:04:00-9:05:00		"	" "	"	"	"	"				"	
	4108	" " "	"	"	"		9:15:00-9:35:00		"	" 14x17	"	"	"	"	"	Good	2	RB	
	4109	✓ Everhart	15^h16^m	-9°20	Aug 7	2^h35W	9:05:00-9:10:00	"	"	" (cut to 5x4) 8x10	W	"	"	"	"	Poor	3	HG	
	4110	" 1964h	"	"	"	2^h52W	9:21:00-9:26:00	"	"	" "	"	"	"	"	"	Cloudy	"	"	cut To 4x5
	4111	"	"	"	"	3^h16 W	9:40:00-9:50:00	"	"	" 14x17	"	"	"	"	"	fair-	3	"	
G166	4112	GC19608 Bootes	$14^h30.1$	+26°54	Aug 27	4^h29W	8:15:00-9:15:00	"	"	103aE 14x17	"	"	"	"	"	Good	2	NT	Stopped by clouds.
G166	4113	" "	"	"	Aug 29	5^h07W	8:15:00-9:45:00	"	"	" "	"	"	"	"	"	"	4	RB	
G167	4114	Σ1932 Corona Bor	$15^h16.2$	+27°01	Aug 30	4^h20W	8:05:00-9:25:00	"	"	" "	"	"	"	"	"	"	3+-4	NT	
G168	4115	ε Corona Bor	$15^h55.5$	+27°01	Sept 1	4^h04W	8:20:00-9:40:00	"	"	" "	"	"	"	"	"	"	2+	RB	
G169	4116	GC 22452 Herc	$16^h38.9$	+24°57	Sept 2		8:10:00-9:40:00	"	"	" "	"	"	"	"	"	"	4-2	NT	
G170	4117	GC 23441 Herc	17 18.6	+21°34	Sept 3	1^h33W	8:05:00-8:25:00	"	"	" "	"	"	"	"	"	"	2+	RB	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1964	H.A. END	EXPOSURE O.A.D.	W.e.	INSTR.	PLATE		Telescope Position	DEVELOPEMENT Kind	DEVELOPEMENT Time	DEVELOPEMENT Temp	WRITING	SEEING Trans	SEEING Stead	OBSV	REMARKS
G170	4118	GC 23441 Herc	17h18.6	+21°34	Sept 3	1h59W	8:31:00-8:51:00	0-0	13"	103aO	14x17	W	D19	4 min	66-70	N	Good	2+	RB	
G170	4119	" " "	"	"	Sept 28	3h46W	7:20:00-8:50:00	"	"	103aE	"	"	"	"	"	"	"	3	NT	
G171	4120	GC 33352, Andr.	23h59.2	+42°05	Oct 6	0h17E	10:45:00-11:05:00	"	"	103aO	"	"	"	"	"	"	"	2+	"	
G171	4121	" "	"	"	"	0h08W	11:10:00-11:30:00	"	"	"	"	"	"	"	"	"	"	"	"	
G172	4122	GC 1257, Andr	1h00.1	+47°06	"	0h08E	11:55:00-12:15:00	"	"	"	"	"	"	"	"	"	"	3	"	
G172	4123	" "	"	"	"	0h17W	12:20:00-12:40:00	"	"	"	"	"	"	"	"	"	"	3+	"	
G171	4124	GC33352 Andr.	23h59.2	+42°05	Nov 30	0h47W	7:13:00-8:33:00		"	103aE	"	"	"	"	"	"	"	3	RB, NT	
G172	4125	GC 1257 Andr	1h00.1	+47°06	"	1h43W	9:00:00-10:30:00		"	"	"	"	"	"	"	"	"	"	"	
G174	4126	HD 19090 Perseus	3h02.7	+51°22	Dec 4	1h33W	11:35:00-11:55:00	"	"	103aO	"	"	"	"	"	"	"	3-4	NT	
G174	4127	" "	"	"	"	1h53W	12:00:00-12:15:00	"	"	"	"	"	"	"	"	"	"	4+	"	Stopped by strong hzze.
G173	4128	BD+48°588 Pers.	1h59.2	+49°03	Dec 7	0h07W	9:15:00-9:35:00	"	"	"	"	"	"	"	"	"	" +	1-2	"	
G173	4129	" "	"	"	"	0h32W	9:40:00-10:00:00	"	"	"	"	"	"	"	"	"	"	2-1	"	
G175	4130	HD 26113, Cam	4h06.8	+53°01	"	0h15W	11:20:00-11:40:00	"	"	"	"	"	"	"	"	"	"	"	"	
G175	4131	" "	"	"	"	0h45W	11:50:00-12:10:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4132	✗ Suspect Region	3h55m	+57°19	Dec 9	2h01E	8:45:00-9:05:00	"	"	"	4x5	"	"	"	"	"	"	"	RB	
	4133	" "	"	"	"	1h31E	9:15:00-9:35:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4134	Object Wild Region	2h04.3	+23°14	"	0h50E	9:45:00-10:05:00	"	"	"	14x17	"	"	"	"	"	"	"	NT	Guide- Alpha Arietis
	4135	" " "	"	"	"	0h25E	10:10:00-10:30:00	"	"	"	"	"	"	"	"	"	"	"	"	" "
	4136	✗ Suspect Region	3h55	+57°19	"	0h19W	11:05:00-11:25:00	"	"	"	8x10	"	"	"	"	"	"	"	RB	" BD+57°760
	4137	" "	"	"	"	0h49W	11:35:00-11:55:00	"	"	"	8x10	"	"	"	"	"	"	"	"	" "
G174	4138	HD 19090 Perseus	3h02.7	+51°22	"	2h11W	12:05:00-12:25:00	"	"	"	14x17	"	"	"	"	"	"	"	NT	
	4139	✗ Suspect Region	3h55	+57°19	Dec 10		11:45:00-12:05:00	"	"	"	8x10	"	"	"	"	"	v Good	2-3	RB	
	4140	" "	"	"	"		12:20:00-12:40:00	"	"	"	"	"	"	"	"	"	"	"	"	
1965	4141	Asteroid Region	3h25.9	+58°42	Jan 10		12:55:00-13:15:00	"	"	"	14x17	"	"	"	"	"	fair	2	RB, NT	
	4142	" "	"	"	"		13:20:00-13:40:00	"	"	"	"	"	"	"	"	"	"	"	"	
G173	4143	BD+48:588 Perseus	1h59.2	+49°03	Jan 25	2h45W	7:30:00-8:50:00	"	"	103aE	"	"	"	"	"	"	"	2-3	"	
G175	4144	BD+52°787 Camel.	4h10.1	+53°01	"	2h14W	9:00:00-10:30:00	"	"	"	"	"	"	"	"	"	"	3	"	
G174	4145	HD 19090 Pers.	3h02.7	+51°22	Jan 26	1h10W	7:25:00-8:45:00	"	"	"	"	"	"	"	"	"	good	1	RB	
G175	4146	BD+52°787 Camel	4h10.1	+53°01	"	0h58W	8:50:00-9:10:00	"	"	103aO	"	"	"	"	"	"	fair+	1	NT, RB	
	4147	Omicron Ceti	2h16.8	-3°12	Jan 27		8:20:00-8:30:00	"	"	"	8x10	"	"	"	"	"	good	1-2	RB	
	4148	HYADES	4h25.8	+15°46	Jan 28		8:20:00-8:50:00	"	5" Cooke	"	"	"	"	"	"	"	fair	2	"	
G175	4149	BD+52°787 Camel	4h10.1	+53°01	"		9:15:00-9:35:00	"	13 inch	"	14x17	"	"	"	"	"	"	2-3	"	
	4150	Asteroid Region	3h35.8	+56°13	Jan 30		8:25:00-8:45:00	"	"	"	8x10	"	"	"	"	"	Good	3	"	
	4151	" "	"	"	"		8:55:00-9:15:00	"	"	"	"	"	"	"	"	"	"	"	"	
G176	4152	Σ1542 U. Maj.	11h25.2	+44°50	Mar 29	0h38m W	11:40:00-12:00:00	"	"	"	14x17	"	"	"	"	"	fair	2-3	NT	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1965	H.A. END	EXPOSURE O.A.D.	w.e.	INSTR.	PLATE	Telescope Position	DEVELOPEMENT Kind	DEVELOPEMENT Time	DEVELOPEMENT Temp	WRITING	SEEING TRANS	SEEING Stead	OBSV.	REMARKS
G176	4153	Σ1542 U. MAJ.	$11^h25.2$	+44°50	Mar 29	1^h03^m W	12:05:00-12:25:00	0-0	13 inch	103aO 14x17	W	D19	4 min	66-70	N	FAIR	3	NT	
	4154	Andrews Object Field	$6^h55.7$	+26°08	Mar 31		8:05:00-8:15:00 8:25:00-8:35:00	0-0	"	" "	"	"	"	"	"	Good	3-4	RB	Guide = 39 Geminorum
	4155	" " "	"	"	"		8:45:00-8:55:00 9:05:00-9:15:00	"	"	" "	"	"	"	"	"	"	"	"	" " "
	4156	" " "	"	"	Apr 5		11:43-11:53; 12:02-12:12; 12:17-12:24		"	" "	"	"	"	"	"	fair	2+	NT	" " "
G176	4157	Σ1542, U. MAJ.	$11^h25.2$	+44°50	Apr 23	0^h41 W	9:00:00-10:25:00	0-0	"	103aE "	"	"	"	"	"	Good	2-3	RB	
G177	4158	GC 18112, C. Ven.	$13^h21.0$	+47°16	"	0^h21 W	11:40:00-12:00:00	0-0	"	103aO "	"	"	"	"	"	fair+	2-1	NT	
G177	4159	" "	"	"	"	0^h36 W	12:05:00-12:25:00	0-0	"	" "	"	"	"	"	"	"	"	"	
	4160	μ STAR G175-34	$4^h27.0$	+58°53	Apr 26	5^h38 W	8:10:00-8:11:00	0-0	"	" 4x5	E	"	"	"	S	"	2	HG	
G177	4161	GC 18112, C. Ven.	$13^h20.9$	+47°16	May 18	0^h33 W	9:04:00-10:34:00	—	"	103aE 14x17	W	"	"	"	N	Good	3	RB	
G178	4162	Gamma Bootis	$14^h30.1$	+38°32	May 27	0^h15 E	10:00 -10:20	±30s	"	103aO "	"	"	"	"	"	fair	2	"	
G178	4163	" "	"	"	"	0^h10 W	10:25 -10:45	"	"	" "	"	"	"	"	"	"	2-	"	
G179	4164	GC 20690, Bootes	$15^h20.8$	+39°46	June 17	0^h28 E	9:15 - 9:35	+1m	"	" "	"	"	"	"	"	Good	3	RB	
G179	4165	" " "	"	"	"	0^h03 E	9:40 - 10:00	+1m	"	" "	"	"	"	"	"	"	"	"	
G178	4166	Gamma Bootis	$14^h30.1$	+38°32	June 18	1^h52 W	9:00:00-11:00:00	0-0	"	103aE "	"	"	"	"	"	fair	3-4	NT, RB	
	4167	GC 20134, Bootes	$14^h55.5$	+19°11'	June 19	0^h01 W	9:10:00-9:30:00	0-0	"	103aO 14x17	"	"	"	"	"	Good	"	NT	
	4168	" "	"	"	"	0^h26 W	9:35:00-9:55:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G180	4169	GC 21833, Cor Bor	$16^h11.4$	+38°12	"	0^h00 E	10:25:00-10:45:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G180	4170	" "	"	"	"	0^h25 W	10:50:00-11:10:00	0-0	"	" "	"	"	"	"	"	"	4+	"	
G179	4171	GC 20690 Bootes	$15^h20.8$	+39°46	June 24	1^h30 W	9:05:00-11:05:00	0-0	"	103aE "	"	"	"	"	"	"	3	RB	
	4172	IOTA SERPENTIS	$15^h39.3$	+19°50	June 25	0^h20 E	9:00:00-9:20:00	0-0	"	103aO "	"	"	"	"	"	"	"	NT	
	4173	" "	"	"	"	0^h05 W	9:25:00-9:45:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G180	4174	GC 21833, Cor Bor	$16^h11.4$	+38°12	"	1^h29 W	9:50:00-11:50:00	0-0	"	103aE "	"	"	"	"	"	"	3-4	"	
	4175	16 Herculis	$16^h13.3$	+18°56	June 28	0^h13 W	10:05:00-10:25:00	0-0	"	103aO "	"	"	"	"	"	"	2-3	NT-RB	
	4176	" "	"	"	"	0^h38 W	10:30:00-10:50:00	0-0	"	" "	"	"	"	"	"	"	3	"	
G181	4177	GC 23037, Hercules	$17^h02.1$	+34°52	"	0^h39 W	11:20:00-11:40:00	0-0	"	" "	"	"	"	"	"	"	"	RB, NT	
G181	4178	" "	"	"	"	1^h05 W	11:45:00-12:05:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G181	4179	" "	"	"	July 1	1^h12 W	10:00:00-12:00:00	0-0	"	103aE "	"	"	"	"	"	"	"	"	
	4180	GC 22690, Hercules	16 48.9	+15°53	July 2		10:20:00-10:40:00	0-0	"	103aO "	"	"	"	"	"	good	2+-3	NT	
	4181	" "	"	"	"		11:10:00-11:30:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G182	4182	GC 24116, Hercules	17 43.8	+31 31	"		11:35:00-13:35:00	0-0	"	103aE "	"	"	"	"	"	"	"	N, RB	
G182	4183	" "	"	"	July 31	0^h38 W	9:50:00-10:10:00	0-0	"	103aO "	"	"	"	"	"	fair	3	NT	
G182	4184	" "	"	"	"	1^h03 W	10:15:00-10:35:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G183	4185	101 Herculis	$18^h06.7$	+20°02	Aug 1	2^h09 W	10:15:00-12:05:00	0-0	"	103aE "	"	"	"	"	"	good	1-3	"	
G183	4186	" "	"	"	Aug 24	1^h24 W	9:25:00-9:45:00	0-0	"	103aO "	"	"	"	"	"	"	3	RB	
G183	4187	" "	"	"	"	1^h49 W	9:50:00-10:10:00	0-0	"	" "	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1965	H.A. END.	EXPOSURE C.A.D.	W.e.	INSTR.	PLATE	Telescope Position	DEVELOPEMENT Kind	DEVELOPEMENT Time	DEVELOPEMENT Temp	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
G184	4188	HD 173156, Hercules	$18^h41.0$	+21°30′	Aug 25	0^h53 W	8:50:00-9:10:00	0-0	13″	103aO 14x17	W	D19	4 min	66-70	N	Good	3	RB	
G184	4189	" "	"	"	"	1^h18 W	9:15:00-9:35:00	"	"	" "	"	"	"	"	"	"	"	"	
G185	4190	α Vulpeculae	$19^h26.6$	+24°34	Aug 29	0^h26 E	8:35:00-8:55:00	"	"	" "	"	"	"	"	"	"	"	"	
G185	4191	" "	"	"	"	0^h01 E	9:00:00-9:20:00	"	"	" "	"	"	"	"	"	"	"	"	
G184	4192	HD173156, Hercules	$18^h41.0$	+21°30′	Sept 16	2^h46 W	8:10:00-10:10:00		"	103aE "	"	"	"	"	"	"	"	"	
G185	4193	α Vulpeculae	$19^h26.6$	+24°34	Sept 20	2^h27 W	8:00:00-10:21:00	"	"	" "	"	"	"	"	"	fair	3-1	"	Closed from 8:33-8:54
G189	4194	HD213596, Peg.	$22^h29.8$	+33°07	"	0^h38 W	11:15:00-11:35:00	"	"	103aO "	"	"	"	"	"	"	3-2	NT	
G189	4195	" "	"	"	"	1^h03 W	11:40:00-12:00:00	"	"	" "	"	"	"	"	"	"	3	"	
G190	4196	12 Andromedae	$23^h18.5$	+37°55	"	2^h40 W	12:25:00-14:25:00	"	"	103aE "	"	"	"	"	"	Good	3-4	"	
	4197	☿ Ikeya-Seki 1965f	$8^h56.0$	-9°16′	"	4^h35 E	16:42.5-16:47:00	"	"	103aO "	"	"	"	"	"	Poor	2-	NT, RB	Low altitude, haze
	4198	" "	"	"	"	4^h31 E	16:50:00-16:51:00	"	"	" 4x5	"	"	"	"	"	"	"	"	
	4199	" "	"	"	"	4^h20 E	17:00:00-17:02:00	"	"	" "	"	"	"	"	"	"	"	"	
G186	4200	GC 28140, Vulp	$20^h13.1$	+25°26	Sept 21	0^h22 E	7:55:00-8:15:00	"	"	" 14x17	"	"	"	"	"	Good	2-3	RB	
G186	4201	" " "	"	"	"	0^h03 W	8:20:00-8:40:00	"	"	" "	"	"	"	"	"	"	"	"	
G187	4202	HD 200843, Vulp	$21^h03.0$	+26°33	"	0^h08 W	9:10:00-9:35:00	"	"	" "	"	"	"	"	"	"	"	"	Closed from 9:25-9:30 Power failure
G187	4203	" " "	"	"	"	0^h34 W	9:40:00-10:00:00	"	"	" "	"	"	"	"	"	"	"	"	
G186	4204	GC 28140, Vulp	$20^h13.1$	+25°26	Sept 22	0^h07 W	7:20:00-9:20:00	"	"	103aE "	"	"	"	"	"	"	3-2	NT	
G187	4205	HD200843 Vulp	$21^h03.0$	+26°33	"	2^h28 W	9:50:00-11:50:00	"	"	" "	"	"	"	"	"	"	3+	"	
	4206	☿ Alcock 1965h	17^h00	+34°10′	Sept 27	4^h32 W	9:30:00-9:32:00	"	"	103aO 4x5	"	"	"	"	"	"	"	RB	
	4207	" "	"	"	"	4^h50 W	9:40:00-9:50:00	"	"	" "	"	"	"	"	"	"	"	"	
G188	4208	15 Pegasi	$21^h50.3$	+28°34′	Sept 29	1^h18 W	9:10:00-11:10:00	"	"	103aE 14x17	"	"	"	"	"	fair	2-3	NT	
G188	4209	" "	"	"	Oct 19	0^h11 W	8:15:00-8:35:00		"	103aO "	"	"	"	"	"	Good	3+	RB	
G188	4210	" "	"	"	"	0^h36 W	8:40:00-9:00:00		"	" "	"	"	"	"	"	"	"	"	
	4211	☿ Ikeya-Seki	12^h13^m	-17°10	Oct 26		17:29:00-17:34:00		5″ Cooke	" 8x10	"	"	"	"	"	"	2	HG	Morning Twilight
	4212	" "	"	"	"		17:37:00-17:38:00		"	" "	"	"	"	"	"	"	"	"	" "
	4213	a " "	12^h06^m	-15°55′	Oct 27		a 17:33:20-17:39:20	Correct Time	13″	103aO 14x17		"	"	"	"	Good	2	HG	" "
		b					b 17:33:25-17:39:25		5″ Cooke	103aO 8x10	"								
	4214	" "	12 55	-15 55	"		17:43:20-17:44:20	"	5″ Cooke	"	"	"	"	"	"	"	"	"	" "
	4215	" "	12^h30	-16°40′	Oct 28		17:20:00-17:30:00		13″	103aO 14x17	"	"	"	"	"	fair	1-2	RB	" "
	4216	" "	12^h14	-16°29	"		17:33:00-17:35:00		5″ Cooke	103aO 8x10	"	"	"	"	"	Good	2	"	" "
	4217	a " "	12^h27	-17°20	Oct 29				13″ 5″ Cooke	" 14x17 8x10	"	"	"	"	"	"	"	HG	" "
	4218	" "	11^h53	-18°30	"				5″ Cooke	" 8x10	"	"	"	"	"	"	"	"	" "
	4219	" "	11^h53	-16°58	Oct 30		17:15:00-17:20:00		"	" "	"	"	"	"	"	"	"	RB	" "
	4220	" "	"	"	"		17:25:00-17:30:00		"	" "	"	"	"	"	"	"	"	"	
	4221	" "	11^h55	-16°55	Oct 31		17:19:00-17:26:00		"	" "	"	"	"	"	"	"	"	HG	
	4222	" "	"	-16°52	"		17:29:00-17:39:00		"	" "	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1965	H.A. END	EXPOSURE O.A.D.	W.C.	INSTR.	PLATE	Telescope Position	DEVELOPEMENT Kind	DEVELOPEMENT Time	DEVELOPEMENT Temp	WRITING	SEEING Trans	SEEING Stead.	OBSV.	REMARKS
	4223	Comet Ikeya-Seki	12^h18^m	-18°40	Oct 31	4^h14^mE	17:43:00-17:43:30	0-0	13"	103aO 4x5	W	D19	4 min	66-70	N	Good	1	HG.	Guide on ⊕ head.
	4224	" " "	11^h35	-17°58	Nov 1		17:15:30-17:25:00	"	5"	" 8x10	"	"	"	"	"	Fair	2-	RB	
	4225	" " "	$12^h12.5$	-19°20	"		17:35:30-17:45:00	"	"	" "	"	"	"	"	"	Good	2-	"	
	4226	" " "	11^h29	-20°30	Nov 3		17:10:00-17:20:00	"	"	" "	"	"	"	"	"	"	1-2	"	
	4227	" " "	"	"	"		17:25:00-17:35:00	"	"	" "	"	"	"	"	"	"	"	"	
G190	4228	12 Andromedae	$23^h18.5$	+37°55	Nov 19	0^h11^mW	7:40:00-8:00:00	"	13"	103aO 14x17	"	"	"	"	"	"	3	RB	
G190	4229	" "	"	"	"	0^h26W	8:05:00-8:25:00	"	"	" "	"	"	"	"	"	"	"	"	
G189	4230	HD 213596. Peg.	$22^h29.8$	+33°07	Nov 26		7:25:00-9:25:00	"	"	103aE "	"	"	"	"	"	"	3-4	RB, NT	dark- fogged?
1966 G189	4231	HD 213596, Peg	$22^h29.8$	+33°07	Jan 12	5^h23W	6:51:00-8:51:00	0-0	13"	103aE 14x17	W	D19	4 min	66-70	N	Good	0-1	NT, RB	
G191	4232	GC 6383 Auriga	$5^h10.7$	+53°09	Jan 22 Jan 23	0^h05E	9:35 - 9:50 9:11 - 9:21		"	103aO "	"	"	"	"	"	—	3+	RB	interrupted by clouds
G191	4233	" "	"	"	Jan 23	0^h24W	9:30:00-9:50:00	"	"	" "	"	"	"	"	"	Good	"	"	
G191	4234	" "	"	"	Jan 24	2^h29W	10:20:00-11:50:00	"	"	103aE "	"	"	"	"	"	"	3+ to 1	NT	
G192	4235	45 Aurigae	$6^h17.7$	+53°29	Jan 25	0^h04E	10:00:00-10:20:00	"	"	103aO "	"	"	"	"	"	"	3+	"	
G192	4236	" "	"	"	"	0^h21W	10:25:20-10:45:20	"	"	" "	"	"	"	"	"	"	2-1	"	
G192	4237	" "	"	"	"	2^h06W	11:10:30-12:30:30	"	"	103aE "	"	"	"	"	"	"	3+ 1	"	
G193	4238	HD 57129, Lynx	$7^h18.7$	+52°56	March 14	1^h42W	9:46:00-10:06:00	"	"	103aO "	"	"	"	"	"	fair	4-4+	NT	
G195	4239	θ Ursa Majoris	$9^h29.5$	+51°54	"	1^h06W	11:20:00-11:40:00	"	"	" "	"	"	"	"	"	good	"	"	
G195	4240	" "	"	"	"	1^h31W	11:45:00-12:05:00	"	"	" "	"	"	"	"	"	"	4-4-	"	
G193	4241	HD 57129, Lynx	$7^h18.7$	+52°56	Mar 16		8:35:00-8:55:00	"	"	" "	"	"	"	"	"	"	3+	RB	
G193	4242	" "	"	"	Mar 20	1^h07W	7:40:00-8:10:00	"	"	103aE "	"	"	"	"	"	"	4	NT	
G194	4243	GC 11665, Lynx	$8^h28.8$	+53°17	Apr 8	0^h42W	8:10:00-8:30:00	"	"	103aO "	"	"	"	"	"	"	3-	RB	
G194	4244	" "	"	"	"	1^h07W	8:35:00-8:55:00	"	"	" "	"	"	"	"	"	"	"	"	
G194	4245	" "	"	"	Apr 11	2^h24W	8:25:00-9:55:00	"	"	103aE "	"	"	"	"	"	"	3	"	
G195	4246	θ Ursa Majoris	$9^h29.5$	+51°54	Apr 13	1^h07W	8:05:00-9:35:00	"	"	" "	"	"	"	"	"	fair	1-2	NT	
G196	4247	GC 14625 U Maj	$10^h36.0$	+53°56	"	0^h55W	10:10:00-10:30:00	"	"	103aO 14x17	"	"	"	"	"	"	2-3	"	
G196	4248	" "	"	"	"	1^h20W	10:35:00-10:55:00	"	"	" "	"	"	"	"	"	"	3-2	"	
	4249	Sirius	$6^h43.0$	-16°39	April 15		8:15:00-8:25:00	"	"	103aO 8x10	"	"	"	"	"	Good	2	RB	
	4250	NGC 2264	$6^h38.2$	+9°57	"		8:37:00-8:47:00	"	"	" "	"	"	"	"	"	"	2+	"	
G197	4251	GC 16052 U. Maj	$11^h39.0$	+55°27	May 11	1^h17W	9:45:00-10:05:00	"	"	" 14x17	"	"	"	"	"	cloudy	4	"	closed 9:49-9:53, additional exposure given 10:12-10:15
G196	4252	GC 14625 U. Maj	$10^h36.0$	+53°56	May 13	2^h33W	8:40:00-10:10:00	"	"	103aE "	"	"	"	"	"	good	3	"	drive jumped? DOUBLE IMAGES
G197	4253	GC 16052 U. Maj.	$11^h39.0$	+55°27	May 14	0^h19W	8:35:00-8:55:00	"	"	103aO "	"	"	"	"	"	"	4	NT	
G197	4254	" "	"	"	"	0^h44W	9:00:00-9:20:00	"	"	" "	"	"	"	"	"	"	4	"	
G199	4255	ε Ursa Majoris	$12^h51.8$	+56°14	"	0^h21W	9:50:00-10:10:00	"	"	" "	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1966	H.A. END	EXPOSURE O.A.D.	w.e.	INSTR.	PLATE	Telescope Position	DEVELOPEMENT Kind	DEVELOPEMENT Time	DEVELOPEMENT Temp	WRITING	SEEING TRANS	SEEING STEAD	OBSV	REMARKS
G199	4256	E URSA MAJORIS	$12^h51.8$	+56° 14	May 14	0^h46 W	10:15:00-10:35:00	0-0	13"	103aO 14x17	N	D19	4min	66-70	N	Good	4	NT	
G197	4257	GC 16052, U. MAJ	$11^h39.0$	+55° 27	May 15	1^h28 W	8:30:00-10:00:00	0-0	"	103aE "	"	"	"	"	"	"	3-3+	"	
G198	4258	GC 16912, C. Ven.	$12^h21.9$	+43° 22	"	1^h11 W	10:06:00-10:26:00	0-0	"	103aO "	"	"	"	"	"	"	3	RB	
G198	4259	" "	"	"	"	1^h35 W	10:30:00-10:50:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G196	4260	GC 14625 U. Maj	$10^h36.0$	+53° 56	May 16	2^h30 W	8:35:00-10:05:00	0-0	"	103aE "	"	"	"	"	"	"	"	"	
	4261	GC 11473, Lynx	$8^h21.9$	+35° 10	May 17	4^h05 W	8:52:00-9:12:00	0-0	"	103aO "	"	"	"	"	"	fair	2	NT	THIN GLASS
	4262	GC 12054, Cane	$9^h00.2$	+33° 05	"	3^h55 W	9:20:00-9:40:00	0-0	"	" "	"	"	"	"	"	"	"	"	" "
G198	4263	GC 16912, C. Ven.	$12^h22.0$	+43° 22	"	2^h53 W	10:00:00-12:00:00	0-0	"	103aE "	"	"	"	"	"	f-gd	2-4	"	
G199	4264	E URSA MAJORIS	$12^h51.8$	+56° 14	June 11	2^h47 W	8:45:30-10:45:30	0-0	"	" "	"	"	"	"	"	"	2-3	"	
	4265	GC 18664, C. Ven	$13^h46.5$	+28° 08	July 6	1^h56 W	8:50:00-9:10:00	0-0	"	103aO "	"	"	"	"	"	Good	3-4	"	
G200	4266	GC 19297, Bootes	$14^h16.0$	+48° 14	July 6	1^h51 W	9:15:00-9:35:00	0-0	"	103aO "	"	"	"	"	"	f-good	3-4	RB, NT	
G200	4267	" "	"	"	"	2^h16 W	9:40:00-10:00:00	0-0	"	" "	"	"	"	"	"	"	4	"	
G201	4268	GC 20380 "	$15^h06.7$	+50° 15	"	1^h50 W	10:05:00-10:25:00	0-0	"	" "	"	"	"	"	"	Good-	3+-4	"	
G201	4269	" "	"	"	"	2^h15 W	10:30:00-10:50:00	0-0	"	" "	"	"	"	"	"	fair+	4	"	
G200	4270	GC 19297 "	$14^h16.0$	+48° 14	July 11	3^h36 W	9:00:00-11:00:00	0-0	"	103aE "	"	"	"	"	"	"	3-4	NT	
G203	4271	GC 22954, Herc.	$16^h59.0$	+45° 51	"	1^h23 W	11:10:00-11:30:00	0-0	"	103aO "	"	"	"	"	"	good	3+	RB, NT	
G203	4272	" "	"	"	"	1^h48 W	11:35:00-11:55:00	0-0	"	" "	"	"	"	"	"	"	3	"	
G204	4273	+42° 2923, Herc	$17^h47.4$	+42° 24	"	1^h35 W	12:10:00-12:30:00	0-0	"	" "	"	"	"	"	"	"	3-2	"	
G204	4274	" "	"	"	"	2^h00 W	12:35:00-12:55:00	0-0	"	" "	"	"	"	"	"	"	3	"	
G201	4275	GC 20380, Bootes	$15^h06.7$	+50° 15	July 13	2^h58 W	9:05:00-11:05:00	0-0	"	103aE "	"	"	"	"	"	"	3+	RB	
G202	4276	HD 145145, Herc.	$16^h05.7$	+49° 13	"	2^h29 W	11:15:00-11:35:00	0-0	"	103aO "	"	"	"	"	"	"	2	NT, RB	
G202	4277	" "	"	"	"	2^h54 W	11:40:00-12:00:00	0-0	"	" "	"	"	"	"	"	"	2	"	
G205	4278	GC 25464, Lyra	$18^h35.2$	+43° 11	"	1^h21 W	12:36:00-12:56:00	0-0	"	" "	"	"	"	"	"	"	3	NT	
G205	4279	" "	"	"	"	1^h49 W	13:00:00-13:20:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G201	4280	GC 20380, Bootes	$15^h06.5$	+50° 15	July 14	3^h02 W	9:05:00-11:05:00	0-0	"	103aE "	"	"	"	"	"	fair	3-2	"	
G202	4281	HD 145145, Herc.	$16^h05.7$	+49° 13	July 20	3^h07 W	9:45:00-11:45:00	0-0	"	" "	E	"	"	"	5	Poor	3+	NT, RB	Thick haze last 45 min
G206	4282	BD+31° 3272, Lyra	$18^h25.9$	+31° 10	Aug 5	0^h05 W	9:20:00-9:40:00	0-0	"	103aO "	W	"	"	"	N	"	4	NT	haze-clouds at end.
G206	4283	" "	"	"	Aug 8	0^h19 E	9:00:00-9:25:00	0-0	"	" "	"	"	"	"	"	Good	3	RB	
G202	4284	HD 145145, Herc	$16^h05.7$	+49° 13	Aug 9	5^h02 W	10:03:00-12:20:00	0-0	"	103aE "	E	"	"	"	S	fair	2-3	NT	CLOSED FROM 11:17-11:22 and 11:30-11:37. CLOUDS
G203	4285	GC 22954, Herc	$16^h59.0$	+45° 51	Aug 10	2^h59 W	9:00:00-11:00:00	0-0	"	" "	"	"	"	"	"	Good	3+	RB	
	4286	ψ KILSTON	$17^h54.5$	+19° 57	Aug 11	1^h05 W	10:06:00-10:09:00	0-0	"	103aO 4x5	W	"	"	"	N	"	3	HLG	
	4287	"	"	"	"	1^h11 W	10:12:00-10:13:02	0-0	"	" "	"	"	"	"	"	"	"	"	
	4288	"	"	"	Aug 12	1^h42 W	10:38:00-10:39:00	0-0	"	" "	"	"	"	"	"	"	4	"	
	4289	"	"	"	"	1^h49 W	10:45:00-10:46:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G204	4290	BD+42° 2923, Herc	$17^h47.4$	+42° 24	Sept 5	3^h16 W	8:30:00-10:30:00	0-0	"	103aE 14x17	E	"	"	"	S	fair	2-3	RB	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1966	H.A. END	EXPOSURE O.A.D.	W.e.	INSTR.	PLATE		Telescope Position	DEVELOPMENT Kind	DEVELOPMENT Time	DEVELOPMENT Temp	WRITING	SEEING TRANS	SEEING Stead	OBSV.	REMARKS
G203	4291	GC 22954, Herc	16h59.0	+45°51	Sept 6,7	4h51 W	8:00:00–8:20:00	0-0	13"	103aE	14x17	E	D19	4 min	66-70	5	fair	2-3	NT	
G205	4292	GC 25464, Lyra	18h35.2	+43°11	Sept 8/10	1h42 W	8:10:00–10:10:00 8:35:00–9:30:00	"	"	"	"	"	"	"	"	"	#@/ XX	3+	RB	Sept 8 exp. stopped by clouds. cont. Sept 10th
	4293	λ Herculis	17h28.7	+26°09	Sept 15	1h53 W	8:25:00–9:25:00 7:55:00–8:10:00	"	"	103aO	"	"	"	"	"	"	Good	2-3+	NT	Thin glass
	4294	GC 24009 Herc.	17h39.7	+15°58	"	3h22 W	9:00:00–9:10:00 9:20:00–9:35:00 9:40:00–9:50:00	"	"	"	"	"	"	"	"	"	"	"	"	" "
G206	4295	BD+31°3272, Lyra	18h25.9	+31°10	"	3h27 W	10:20:00–10:40:00	"	"	"	"	"	"	"	"	"	"	2	"	
G203	4296	GC 22954. Herc	16h59.0	+45°51	Sept 16	4h12 W	7:55:00–9:55:00	"	"	103aE	"	"	"	"	"	N	Fair	3+	"	
G207	4297	HD179708 Lyra	19h10.4	+32°16	Oct 6	1h49 W	8:05:00–8:25:00	"	"	103aO	"	W	"	"	"	"	Good	2	"	
G207	4298	HD179708 Lyra	"	"	Oct 9	2h16 W	8:20:00–8:40:00	"	"	"	"	"	"	"	"	"	"	2-3	RB	
G210	4299	47 Cygni	20h32.0	+35 05	"	1h45 W	9:10:00–9:30:00	"	"	"	"	"	"	"	"	"	"	2-4	NT	
G216	4300	GC 32071, Andr	22h58.3	+45°06	"	2h05 W	10:16:00–12:16:00	"	"	103aE	"	"	"	"	"	"	gd-fair	4-3	"	
G206	4301	BD+31°3272, Lyra	18h25.9	+31°10	Oct 10,11	2h48 W	6:50–8:24 6:50–7:40	"	"	"	"	"	"	"	"	"	good	2-3	RB	
G206	4302	" " "	"	"	Oct 12	2h07 W	7:15:00–7:35:00	"	"	103aO	"	"	"	"	"	"	"	3	"	
G208	4303	RR LYRAE	19h23.9	+42°41	"	1h39 W	7:45:00–8:05:00	"	"	"	"	"	"	"	"	"	"	3	"	
G208	4304	" "	"	"	"	2h19 W	8:25:00–8:45:00	"	"	"	"	"	"	"	"	"	"	"	"	
G210	4305	47 Cygni	20h31.9	+35°05	"	1h41 W	8:55:00–9:15:00	"	"	"	"	"	"	"	"	"	"	"	"	
G212	4306	GC 29763, Cygnus	21h14.4	+44°02	"	1h29 W	9:25:00–9:45:00	"	"	"	"	"	"	"	"	"	"	"	"	
G212	4307	" " "	"	"	"	1h59 W	9:55:00–10:15:00	"	"	"	"	"	"	"	"	"	"	2	"	
G215	4308	GC 30919, Lacerta	22h04.0	+44°46	"	3h40 W	10:45:00–12:45:00	"	"	103aE	"	"	"	"	"	"	fair	2-1	NT	
G205	4309	GC 25464, Lyra	18h35.2	+43°11	Oct 13	3h37 W	7:00:00–9:10:00	"	"	"	"	"	"	"	"	"	Good	2	RB	
G207	4310	HD179708 Lyra	19h10.4	+32°10	"	2h56 W	7:00:00–9:00:00	"	"	"	"	"	"	"	"	"	fair-gd	2-3	NT	
G215	4311	GC 30919, Lacerta	22h04.0	+44°46	Oct 14	0h42 W	9:20:00–9:40:00	"	"	103aO	"	"	"	"	"	"	"	"	"	
G215	4312	" "	"	"	"	1h07 W	9:45:00–10:05:00	"	"	"	"	"	"	"	"	"	"	"	"	
G216	4313	GC 32071, Andr	22h58.3	+45°06	"	0h48 W	10:20:00–10:40:00	"	"	"	"	"	"	"	"	"	"	"	"	
G216	4314	" "	"	"	"	1h13 W	10:45:00–11:05:00	"	"	"	"	"	"	"	"	"	good	3+	"	
G208	4315	RR Lyrae	19h23.9	+42°41	Oct 17	3h01 W	7:06:00–9:07:00	"	"	103aE	"	"	"	"	"	"	"	2	RB	
G210	4316	47 Cygni	20h31.9	+35°05	"	2h21 W	9:15:00–9:35:00	"	"	103aO	"	"	"	"	"	"	"	2-	"	
G212	4317	GC 29763, Cygnus	21h14.4	+44°02	"	2h04 W	9:40:00–10:00:00	"	"	"	"	"	"	"	"	"	"	2-3	"	
G209	4318	HD193610, Cygnus	20h17.7	+42°50	Oct 18	2h34 W	7:30:00–9:30:00	"	"	103aE	"	"	"	"	"	"	"	2	NT	
G211	4319	BD+34°4317, Cygnus	21h08.7	+35°03	"	2h08 W	9:40:00–10:05:00	"	"	103aO	"	"	"	"	"	"	"	2	"	
G213	4320	GC 30310, Cygnus	21h36.9	+36°09	"	2h05 W	10:10:00–10:30:00	"	"	"	"	"	"	"	"	"	"	"	"	
G214	4321	GC 30831, Lacerta	22h00.1	+36°44	"	2h25 W	10:42:00–11:03:00	"	"	"	"	"	"	"	"	"	fair+	3	HLG	
	4322	W Rudnicki Region	2h31	-1° 08	Oct 20	0h25 E	12:25:00–12:35:00	"	"	103aO	4x5	"	"	"	"	"	good-	"	"	
	4323	" "	"	"	"	0h17 E	12:42:00–12:44:00	"	"	"	"	"	"	"	"	"	fair	"	"	
	4324	" "	2h30	+1° 00	"	0h05 E	12:54:00–12:56:00	"	"	"	"	"	"	"	"					
G209	4325	HD 193610, Cyg.	20h17.7	+42°50	Nov 3	1h27 W	7:00:00–7:20:00				14x17									

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1966	H.A. END	EXPOSURE O.A.D.	W.e.	INSTR.	PLATE	Telescope Position	DEVELOPMENT Kind	DEVELOPMENT Time	DEVELOPMENT Temp	WRITING	SEEING Trans	SEEING Stead	OBSV.	REMARKS
G209	4326	HD 193610, Cyg.	20h17.7	+42°50'	Nov 3	1h52W	7:25:00-7:45:00	0-0	13"	103aO 14x17	W	D19	4 min	66-70	N	good	3	RB, NT	
G210	4327	47 Cygni	20h31.9	+35°05	Nov 5	3h11W	7:10:00-9:10:00	0-0	"	103aE "	"	"	"	"	"	fair	2+	RB	
G211	4328	BD+34°4317, Cyg	21h08.7	+35°03	Nov 6	0h45W	6:55:00-7:15:00	"	"	103aO 8x10	"	"	"	"	"	good	3+	NT	
G213	4329	GC 30310, Cyg.	21h36.9	+36°09	"	0h50W	7:30:00-7:50:00	"	"	" "	"	"	"	"	"	"	"	"	
G214	4330	GC 30831, Lac	22h00.1	+36°44	"	1h02W	8:05:00-8:25:00	"	"	" "	"	"	"	"	"	"	"	"	
G217	4331	BD+53°3267, Cass	23h57.0	+54°25	"	1h39W	9:00:00-11:24:00	"	"	103aE 14x17	"	"	"	"	"	fair-fog	3-2	"	CLOSED- 9:52-10:02; 10:20-10:25; 10:49-10:54
G211	4332	BD+34°4317, Cyg.	21h08.7	+35°03	Nov 9	2h45W	7:00:00-9:05:00	"	"	" "	"	"	"	"	"	fair-poor	3	RB	increasing haze last hour
G212	4333	GC 29763, Cyg.	21h14.4	+44°02	Nov 10	2h13W	6:35:00-8:35:00	"	"	" "	"	"	"	"	"	good	3	"	
G218	4334	HD 5177, Cass	0h51.5	+56°03	"	0h52W	8:50:00-10:50:00	"	"	" "	"	"	"	"	"	"	4	NT	
G214	4335	GC 30831, Lac	22h00.1	+36°45	Nov 11	3h01W	8:05:00-10:05:00	"	"	" "	"	"	"	"	"	"	3-	RB	
G213	4336	GC 30310, Cyg.	21h36.9	+36°09	Nov 13	2h07W	6:40:00-8:40:00	"	"	" "	"	"	"	"	"	"	3+	"	
G219	4337	HD 9389, Cass	1h30.5	+56°33	Nov 14	1h55W	10:22:00-12:17:00	"	"	" "	"	"	"	"	"		4-3	NT	increasing haze last 20 min. Exp stopped.
LEONIDS	4338	43 Leo. Min.	10h46.2	+29°41	Nov 16		15:05:00-15:30:00	"	"	103aO 14x17	"	"	"	"	"	Poor	3	NT	Light haze.
"	4339	Procyon	7h36.7	+5°21	"		15:42:00-16:07:00	"	"	" "	"	"	"	"	"	"	"	NT, RB	" "
"	4340	"	"	"	"		16:12:00-16:37:00	"	"	" "	"	"	"	"	"	"	"	"	medium haze
"	4341	"	"	"	"		16:43:00-17:08:00	"	"	" "	"	"	"	"	"	fair	"	"	
"	4342	"	"	"	"		17:40:00-18:05:00	"	"	" "	"	"	"	"	"	Poor	"	"	STEADILY INCREASING haze
G220	4343	8 PERSEI	2h14.4	+57 40	Dec 12-13	0h21 E	8:05:00-8:55:00 7:35:00-8:45:00	"	"	103aE "	"	"	"	"	"	gd-Poor	1-2 4-3	NT	
"	4344	"	"	"	Dec 14	0h03 E	8:45:00-9:05:00	"	"	103aO "	"	"	"	"	"	fair	2-	RB	
"	4345	"	"	"	"	0h22 W	9:10:00-9:30:00	"	"	" "	"	"	"	"	"	"	"	RB	
	4346	Rocket Cloud		+35°	Dec 15	7h00m W	6:47 -6:52 P.M		"	103aO 14x17	"	"	"		"	Good		HG	Phg Rocket Burst Cloud From Nevada
1967 G217	4347	BD+3267 Cass.	23h57.0	+54°25	JAN 10	3h25W	7:20:00-7:40:00	"	"	103aO 14x17	"	"	"	"	"	"	1-2	NT	
"	4348	" "	"	"	"	3h00W	7:45:00-8:05:00	"	"	" "	"	"	"	"	"	"	"	"	
G219	4349	HD 9389 Cass	1h30.5	+56°33	"	2h13W	8:30:00-8:50:00	"	"	" "	"	"	"	"	"	"	2-1	"	
"	4350	" "	"	"	"	2h50W	9:07:00-9:27:00	"	"	" "	"	"	"	"	"	"	1-2	"	
G218	4351	HD 5177, Cass	0h51.6	+56°03	JAN 11	1h30m	7:05:00-7:25:00	"	"	" "	"	"	"	"	"	fair	3	RB	Slight haze
"	4352	" "	"	"	"	1h55W	7:30:00-7:50:00	"	"	" "	"	"	"	"	"	"	"	"	haze
G221	4353	HD 20523, Cass	3h17.9	+71°06	JAN 13	2h22	8:35:00-10:35:00	"	"	103aE "	"	"	"	"	"	good	2	NT	
	4354	RV Lyncis	6h54.5m	+51°04'	Jan 29	2h15m E	8:22:00-8:32:00	"	"	103aO, 4x5	"	"	"	"	"	Fair	4	HG	
	4355	"	"	"	"	1h58 E	8:40:00-8:50:00	"	"	"	"	"	"	"	"	"	4	"	
	4356	"	"	"	"	1h27 E	9:20:00-9:30:00	"	"	"	"	"	"	"	"	clouds	4	"	clouds
	4357	"	"	"	"	1h00 E	9:37:00-9:47:00	"	"	"	"	"	"	"	"	Clouds	4	"	
	4358	"	"	"	"	0h38 E	9:55:00-10:10:00	"	"	"	"	"	"	"	"		4	"	
	4359	"	"	"	"	0h14 E	10:15:00-10:22 10:28:00-10:33	"	"	"	"	"	"	"	"	Poor	4	"	Interrupted Exp for Clouds

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1967	H.A. END	EXPOSURE O.A.D.	W.E.	INSTR.	PLATE	Telescope Position	DEVELOPMENT Kind	DEVELOPMENT Time	DEVELOPMENT Temp	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
G221	4360	HD 20523, Cass.	3h17.9	+71°06	Feb 2	0h41m W	7:15:00-7:35:00	0-0	13"	103aO 14x17	W	D19	4 min	66-70	N	Good	2	RB	
G221	4361	"	"	"	"	1h06 W	7:40:00-8:00:00	"	"	" "	"	"	"	"	"	"	"	"	
G220	4362	8 PERSEI	2h14.4	+57°40	Feb 3	1h43 W	7:10:00-7:30:00	"	"	" "	"	"	"	"	"	"	2+	"	
G222	4363	BD+82°143, Cam	5h22.9	+82°22	"	0h55 E	7:40:00-8:00:00	"	"	" "	"	"	"	"	"	"	"	"	
G222	4364	" " "	"	"	"	0h23 E	8:12:00-8:32:00	"	"	" "	"	"	"	"	"	"	2-3	RB, NT	
G222	4365	" " "	"	"	"	1h52 W	8:37:00-10:37:00	"	"	103aE "	"	"	"	"	"	"	"	NT, RB	
	4366	RV Lyncis	6h54.5m	+51°04'	Feb 6 Monday	2h08m E	7h57:00-8:07:00	0-0	"	103a 0, 4x5	"	"	"	"	"	Good	3+	H.G.	
	4367	"	"	"		0h57 E	9:10:00-9:20:00	"	"	"	"	"	"	"	"	"	"	"	
	4368	MP 1931 TS	8h24m	+18°00'	Eve	2h03m E	9:28:00-9:43:00	" WWV	"	103a 0, 8x10	"	"	"	"	"	"	2	"	
	4369	"	"	"	"	0h51m E	10:40:00-10:55:00		"	"	"	"	"	"	"	"	"	"	
	4370	RV Lyncis	6h54.5	+51°04	"	1h01m W	11:05:00-11:15:00		"	103, a0, 4x5	"	"	"	"	"	"	2	"	
	4371	Seki 1967 B	18h47m	+25°00'	Feb 8 Wednesday AM	4h14m E	5:40:00-5:45:00 A.M. M.S.T.	WWV on Time	"	8x10 103a 0	"	"	"	"	"	Good	2	"	
	4372	"	"	"	"	4 02 E	5:55:00-6:02:00	"	"	4x5 103a 0	"	"	"	"	"	"	"	"	cut + Measured for Acc. Position.
	4373	"	"	"	"	3 54 E	6:05:00-6:10:00	"	"	8x10 103a 0 cut to 4x5	"	"	"	"	"	"	"	"	
	4374	"	20h30m	+27°30'	Feb. 17 Friday AM	5h46m E	5:25:00-5:26:00	"	"	4x5 103a 0	"	"	"	"	"	Good	2	"	
	4375	"	"	"	"	5h26 E	5:45:00-5:46:00	"	"	"	"	"	"	"	"	"	"	"	
	4376	RV Lyncis	6h54.5	+51°04'	Feb 28 Tues. PM	0h35m E	8:05:00-8:15:00	"	"	"	"	"	"	"	"	Good	3	"	
	4377	Wild Region	5h07m	+37°40'	" PM	1h29m W	8:29:00-8:30:00	"	"	"	"	"	"	"	"	"	"	"	
	4378	" "	"	"	"	1 38 W	8:39:00-8:40:00	"	"	"	"	"	"	"	"	"	"	"	
	4379	RV Lyncis	6h54.5m	+51°04'	"	0 26 W	9:05:00-9:15:00	"	"	"	"	"	"	"	"	"	"	"	
	4380	"	"	"	"	1 28 W	10:05:00-10:15:00	"	"	"	"	"	"	"	"	"	"	"	
	4381	"	"	"	"	2 29 W	11:05:00-11:15:00	"	"	"	"	"	"	"	"	Good	4	"	
	4382	"	6h54.5m	+51°04'	Mar 7 Tues. Eve	0h15m E	8:00:00-8:10:00	"	"	"	"	"	"	"	"	"	3	"	Minimum!
	4383	"	"	"	"	1 48 W	10:00:00-10:10:00	"	"	"	"	"	"	"	"	Fair	3	"	
	4384	"	"	"	Mar. 14 Tuesday	0h02m W	7:45:00-7:55:00	"	"	"	"	"	"	"	"	Fair	"	"	
	4385	"	"	"	"	0 21 W	8:05:00-8:15:00	"	"	"	"	"	"	"	"	Better	"	"	
	4386	"	"	"	"	0 42 W	8:25:00-8:35:00	"	"	"	"	"	"	"	"	"	"	"	
	4387	"	"	"	"	1 03 W	8:45:00-8:55:00	"	"	"	"	"	"	"	"		"	"	
	4388	"	"	"	"	1 23 W	9:05:00-9:15:00	"	"	"	"	"	"	"	"	Good	"	"	
	4389	"	"	"	"	1 43 W	9:25:00-9:35:00	"	"	"	"	"	"	"	"	"	"	"	
	4390	"	"	"	"	2 02 W	9:45:00-9:55:00	"	"	"	"	"	"	"	"	"	"	"	
	4391	"	"	"	"	2 22 W	10:05:00-10:15:00	"	"	"	"	"	"	"	"	"	"	"	
	4392	"	"	"	"	2 42 W	10:25:00-10:35:00	"	"	"	"	"	"	"	"	"	"	"	
	4393	"	"	"	"	3 03 W	10:45:00-10:55:00	"	"	"	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1967	H.A. END	EXPOSURE O.A.D.	W.E.	INSTR.	PLATE	Telescope Position	DEVELOPMENT Kind	DEVELOPMENT Time	DEVELOPMENT Temp	WRITING	SEEING TRANS	SEEING STEAD	OBSV	REMARKS
	4394	17 Comae Ber.	$12^h26.4$	+26°11	May 1	1^h10 E	8:50:00-9:10:00	0-0	13"	103aO 14x17	W	D19	4 min	66-70	N	Good	4	NT	
	4395	" "	"	"	"	0^h45 E	9:15:00-9:35:00	"	"	" "	"	"	"	"	"	"	4-3	"	
G223	4396	GC 19031, U. MAJ.	$14^h03.6$	+56°46	"	1^h36 E	10:00:00-10:20:00	"	"	" "	"	"	"	"	"	"	3	"	
	4397	Star Field near Mars	13^h15	-6°12	"	0^h26 E	10:35:00-10:39:00	"	"	" 8x10	"	"	"	"	"	"	4	HG	For Naval obs.
	4398	" " " "	"	"	"	0^h15 E	10:47:00-10:50:00	"	"	" "	"	"	"	"	"	"	"	"	
	4399	" " " "	"	"	"	0^h07 E	10:57:00-10:59:00	"	"	" "	"	"	"	"	"	"	"	"	
G223	4400	GC 19031, U. MAJ	$14^h03.6$	+56°46	"	0^h31 E	11:05:00-11:25:00	"	"	" 14x17	"	"	"	"	"	"	4-3	NT	
G224	4401	BD+58°1547 Draco	$15^h01.9$	+58°23	"	0^h45 E	11:50:00-12:10:00	"	"	" "	"	"	"	"	"	"	4	"	
G224	4402	" "	"	"	"	0^h11 E	12:20:00-12:40:00	"	"	" "	"	"	"	"	"	"	"	"	
	4403	Star Field near Mars	13^h31^m	-7°28	May 2	0^h48^m E	10:25:00-10:29:00	"	"	" 8x10	"	"	"	"	"	Good	2	HG	For Loan to Naval Obs.
	4404	"	"	"	"	0 39 E	10:36:00-10:38:00	"	"	"	"	"	"	"	"	"	"	"	
	4405	"	13^h12^m	-5°55'	"	0^h05 E	10:50:00-10:54:00	"	"	"	"	"	"	"	"	"	"	"	
	4406	"	"	"	"	0^h03^m W	11:00:03-11:02:02	"	"	"	"	"	"	"	"	"	"	"	
G223	4407	GC 19031 U. Maj	$14^h03.6$	+56°46	June 6	1^h14 W	8:45:00-10:45:00	"	"	103aE 14x17	"	"	"	"	"	"	3+	RB	
	4408	41 Coma Ber.	$13^h04.8$	+27°54	June 7	1^h12 W	9:20:00-9:40:00	"	"	103aO "	"	"	"	"	"	"	3-4	NT	
	4409	" "	"	"	"	1^h37 W	9:45:00-10:05:00	"	"	" "	"	"	"	"	"	"	"	"	
G225	4410	BD+61°1551, Draco	$15^h58.1$	+60°59	"	1^h14 W	10:35:00-12:35:00	"	"	103aE "	"	"	"	"	"	"	"	"	
G224	4411	BD+58°1547, Draco	$15^h01.9$	+58°22	June 8	0^h29 W	8:50:00-10:50:00	"	"	" "	"	"	"	"	"	"	3+	RB	
G225	4412	BD+61°1551 Draco	$15^h58.1$	+60°59	"	0^h03 W	11:00:00-11:20:00	"	"	103aO "	"	"	"	"	"	"	3	NT	
G225	4413	" " "	"	"	"	0^h28 W	11:25:00-11:45:00	"	"	" "	"	"	"	"	"	"	"	NT	
G226	4414	GC 22938, Draco	$16^h58.4$	+56°46'	"	0^h05 W	12:02:00-12:22:00	"	"	" "	"	"	"	"	"	"	"	"	
G226	4415	" "	"	"	"	0^h28 W	12:25:00-12:45:00	"	"	" "	"	"	"	"	"	"	"	"	
	4416	Tempel	18^h27	-2°36	"	2^h03 W	15:45:00-15:50:00	"	"	" 8x10	"	"	"	"	"	"	4	HLG	
	4417	" "	"	"	"	2^h19 W	16:01:02-16:06:02	"	"	" "	"	"	"	"	"	"	"	"	
G227	4418	GC 24604, Draco	$18^h01.8$	+58°37	Aug 24	0^h32 W	8:30:00-8:50:00	"	"	" 14x17	"	"	"	"	"	"	2-3	NT	
G227	4419	" "	"	"	"	0^h57 W	8:55:00-9:15:00	"	"	" "	"	"	"	"	"	"	"	"	
G229	4420	49 Draconis	$18^h59.7$	+55°35	"	0^h29 W	9:25:00-9:45:00	"	"	" "	"	"	"	"	"	"	"	RB	
G229	4421	" "	"	"	Aug 25	0^h41 E	8:11:00-8:31:00	"	"	" "	"	"	"	"	"	"	"	"	
G226	4422	GC 22938, Draco	$16^h58.4$	+56°46	Sept 8	4^h46 W	8:30:00-11:00:00	"	"	103aE "	"	"	"	"	"	"	"	1½ hrs	Clouds from 9:10-- 9:40
	4423	Temple I Search	$0^h04.2^m$	-17°34'	Sept 11		12:42:00-12:52:20	+20 min end	72" Refl.	" "	"	"	"	"	Good	Good	1	O. Franz	Test new 14x17 double slide for Refl.
G230	4424	BD+54°2273, Cyg.	$20^h00.2$	+54°35	Sept 27	2^h58 W	8:55:00-11:00:00	0-0	13"	" "	"	"	"	"	N	"	2-3	NT	
G233	4425	GC 31854, Lac.	$22^h47.7$	+55°38	"	1^h02 W	11:31:00-11:51:00	"	"	103aO "	"	"	"	"	"	"	2+	"	
G233	4426	" "	"	"	"	1^h26 W	11:55:00-12:15:00	"	"	" "	"	"	"	"	"	"	2-3	"	
G227	4427	GC 24604, Drac.	$18^h01.8$	+58°37	"	3^h15 W	7:10:00-9:15:00	"	"	103aE "	"	"	"	"	"	"	3-	RB	
G231	4428	GC 29338, Cyg.	$20^h58.4$	+55°01	Sept 28	1^h14 W	9:50:00-10:10:00	"	"	103aO "	"	"	"	"	"	"	3	NT	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1967	H.A. END	EXPOSURE O.A.D.	W.e.	INSTR.	PLATE		Telescope Position	DEVELOPMENT Kind	DEVELOPMENT Time	DEVELOPMENT Temp	WRITING	SEEING TRANS	SEEING STEAD	OBSV	REMARKS
G231	4429	GC 29338	$20^h58.4$	+55°01	Sept 28	1^h39 W	10:15:00–10:35:00	0-0	13"	103aO	14x17	W	D19	4 min	66-70	N	Good	3	NT	
G232	4430	Σ 2840, Cepheus	$21^h50.3$	+55 33	"	1^h22 W	10:50:00–11:10:00	"	"	"	"	"	"	"	"	"	"	3-4	"	
G232	4431	" "	$21^h50.3$	+55 33	"	2^h12 W	11:38:00–11:58:00	"	"	"	"	"	"	"	"	"	"	"	"	
G228	4432	HD 166408, Draco	$18^h06.6$	+50°53	Sept 29	2^h44 W	7:10:00–7:35:00 7:50:00–8:10:00	"	"	103aE	"	"	"	"	"	"	Fair	3-	RB	STOPPED BY CLOUDS; COMPLETED Oct 4 – 7:10–8:25
G233	4433	GC 31854, Lacerta	$22^h47.7$	+55°38	Oct 4	0^h53 W	9:15:00–11:15:00	"	"	"	"	"	"	"	"	"	Good	3	NT	
	4434	GC 644, And	$0^h30.0$	+38°34	"	0^h07 W	11:51:00–12:11:00	"	"	103aO	"	"	"	"	"	"	"	"	"	
	4435	" "	"	"	"	0^h31 W	12:15:00–12:35:00	"	"	"	"	"	"	"	"	"	"	"	"	
G228	4436	HD166408, Draco	$18^h06.6$	+50°53	Oct 5	2^h08 W	7:25:00–7:45:00	"	"	"	"	"	"	"	"	"	fair	3	RB	
G228	4437	" "	"	"	"		7:50:00–8:00:00	"	"	"	"	"	"	"	"	"	"	"	"	
G228	4438	" "	"	"	Oct 22	3^h10 W	7:20:00–7:40:00	"	"	"	"	"	"	"	"	"	"	2-1	NT	
G228	4439	" "	"	"	"	3^h35 W	7:45:00–8:05:00	"	"	"	"	"	"	"	"	"	"	"	"	
G230	4440	BD+54°2273, Cyg.	20^h00	+54°54	Oct 23	1^h25 W	7:25:00–7:45:00	"	"	"	"	"	"	"	"	"	"	3+	RB	
G230	4441	" "	"	"	"	1^h50 W	7:50:00–8:10:00	"	"	"	"	"	"	"	"	"	Good	3+	"	
	4442	G221-10, 11	$3^h24.6^m$	+73°52'	Oct. 26		16:40 –16:55		72" Refl.	103aO	4x5	E	"	"	"	"	Fair-	3	HG.	
	4443	G212-B1	21^h08^m	+42°45'	Oct. 27		9:38 –9:53		"	"	"	"	"	"	"	"	Fair-	4	"	
G20	4444	HD161605, Oph.	$17^h43.9$	−2°51	Oct 27		6:55:00–7:15:00	0-0	13"	103aO	14x17	W	"	"	"	"	Fair	2	RB	
G144	4445	Delta Delphini	$20^h41.1$	+14°54	"		8:25:00–8:45:00	"	"	"	"	"	"	"	"	"	Good	3-	"	
	4446	GC 26705, Cygnus	$19^h19.2$	+50°15	Oct 31	2^h09 W	6:56:00–7:16:00	"	"	"	"	"	"	"	"	"	"	1-2	NT	
	4447	GC 27446, Draco	$19^h47.4$	+61°17	"	2^h08 W	7:23:00–7:43:00	"	"	"	"	"	"	"	"	"	"	1-2	"	
	4448	43 Cygni	$20^h25.3$	+49°13	"	2^h03 W	7:56:00–8:16:00	"	"	"	"	"	"	"	"	"	"	1-2	"	
G232	4449	Σ2840, Cepheus	$21^h50.3$	+55°33	"	2^h32 W	9:50:00–10:10:00	"	"	"	"	"	"	"	"	"	"	2	"	
G229	4450	49 Draconis	$18^h59.8$	+55°35	Nov 1	4^h01 W	6:45:00–8:45:00	"	"	103aE	"	"	"	"	"	"	"	3	RB	
G231	4451	GC 29338, Cygnus	$20^h58.4$	+55°01	Nov 3		7:10:00–9:10:00	"	"	"	"	"	"	"	"	"	"	"	"	
G232	4452	Σ2840, Cygnus	$21^h50.3$	+55°33	Nov 6		7:22:00–9:22:00	"	"	"	"	"	"	"	"	"	FAIR	3-2	NT	
	4453		$23^h58.5$	−32°50'	Nov. 7	1^h57^m W	10:49:06–11:09:06		"	14x17	103aO	"	"	"	"	"	Good	3+	HG	
μ	4454		1^h00^m	−31°40'	"	1^h13^m W	11:16:00–11:36:00		"	"		"	"	"	"	"	"	2-3	"	
	4455	G226-67 or 227-11, 12	$17^h39.8$	+56°42'	Nov. 20	6^h03^m W	7:51 –8:09		72" Refl	4x5	103aO	E	"	"	"	"	Fair	3	"	Exp. Terminated when guide star lost in thin cloud.
	4456	BD+53°3267	23^h57	+54°25	Dec 1	0^h00			13"	4x5	IIIaE	W	"	"	"	"	Gd-fair	1-2	NT	
1968	4457	ORBITER V FIELD	$10^h19.1$	+15°14	Jan 17		14:50:00–14:51:00	+1 sec	"	8x10	103aO	"	"	"	"	"	Good	1-2	NT, RB	
	4458	" "	"	"	"		15:00:00–15:01:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4459	" "	"	"	"		15:10:00–15:11:30	"	"	"	"	"	"	"	"	"	"	"	"	
	4460	" "	"	"	"		15:20:00–15:21:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4461	" "	"	"	"		15:30:00–15:31:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4462	" "	"	"	"		15:40:00–15:41:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4463	" "	"	"	"		15:50:00–15:51:00	"	"	"	"	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1968	H.A. END	EXPOSURE O.A.D.	W.e.	INSTR.	PLATE	TELESCOPE POSITION	DEVELOPMENT Kind	DEVELOPMENT Time	DEVELOPMENT Temp	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
	4464	ORBITER V	10h19.1	+15°14	JAN 17		16:05:00-16:06:00	+1 sec	13"	8x10 103aO	W	D19	4 min	66-70	N	Good	1-2	NT, RB	
G234	4465	HD68481, U. MAJ.	8h 11.9	+63°53	Mar 24	0h02W	8:10:00- 8:30:00	+5 sec 00	"	14x17 "	"	"	"	"	"	"	3+	RB	
G234	4466	" "	"	"	"	0h27W	8:35:00- 8:55:00	00	"	" "	"	"	"	"	"	fair	"	"	increasing haze.
G235	4467	23 URSAE MAJ.	9h27.6	+63°17	Mar 25	1h 20 E	8:00:00-8:20:00	00	"	" "	"	"	"	"	"	Good	3	"	
G235	4468	" " "	"	"	"	0h55 E	8:25:00- 8:45:00	+1m +1m	"	" "	"	"	"	"	"	"	"	"	
G235	4469	" " "	"	"	Mar 26	0h24W	7:59:00-9:59:00	0-0	"	" 103aE	"	"	"	"	"	FAIR	4- 4+	NT	
G234	4470	HD68481, U. MAJ.	8h11.9	+63°53	Mar 27	1h 29W	7:45:00-9:45:00	0-0	"	" "	"	"	"	"	"	Good	3	RB	
	4471	GC 12726 U. Maj	9h10.9	+73 09	Apr 23	2h22W	7:50:15-9:50:15	0-0	"	" "	"	"	"	"	"	fair+	4-3	NT	
	4472	HD92915 U. Maj	10 42.0	+65 19	Apr 26		8:05:00-10:05:00	0-0	"	" "	"	"	"	"	"	Good	3	RB	
	4473	Σ1516, DRACO	11h12.1	+73°45	May 16	2h42W	8:40:40-10:40:40	0-0	"	" "	"	"	"	"	"	f-gd	2-1	NT	
G236	4474	HD92915 U. Maj	10h42.0	+65°18	May 21	2h16W	9:05:00-9:25:00	0-0	"	" 103aO	"	"	"	"	"	Good	3-	RB	
G237	4475	HD104860, DRACO	12h02.0	+66°37	"	1h57W	10:05:00-10:25:00	0-0	"	" "	"	"	"	"	"	"	3-	"	
G237	4476	" "	"	"	"	2h22W	10:30:00-10:50:00	0-0	"	" "	"	"	"	"	"	"	3-	"	
G236	4477	HD92915, U. MAJ.	10h42.0	+65° 19	May 22	3h32W	8:37:00-10:37:00	0-0	"	" "	"	"	"	"	"	"	3	NT	
G236	4478	" "	"	"	May 23	2h04W	8:45:00-9:05:00	0-0	"	" "	"	"	"	"	"	"	3	RB	
G237	4479	HD104860 DRACO	12h02.0	+66°37	"	1h 14W	9:15:00-9:35:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G238	4480	HD116855 DRACO	13h23.0	+66°25	"	0h44W	10:07:00-10:27:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G238	4481	" "	"	"	"	1h08W	10:31:00-10:51:00	0-0	"	" "	"	"	"	"	"	"	"	"	
G237	4482	HD 104860 DRACO	12h02.0	+66°37	May 27	2h35W	8:40:00-10:40:00	0-0	"	" 103aE	"	"	"	"	"	"	3+	NT	
G238	4483	HD 116855 DRACO	13h23.0	+66°25	May 29	1h26W	8:45:00-10:45:00	0-0	"	" "	"	"	"	"	"	"	"	RB	
	4484	BD+76°486	13h24.4	+76°15	May 30	1h59W	9:15:00-11:15:00	0-0	"	" "	"	"	"	"	"	"	4-3	NT	
	4485	G227-11 + 12	17h39.8	+56°43	"	0h46E	11:45:00-12:45:00	0-0	"	4x5 IaE	"	"	"	"	"	"	4	"	
	4486	NU SERPENTIS	17h18.0	-12°48	"	0h06W	12:55:00-1:15:00	0-0	"	14x17 103aO	"	"	"	"	"	"	2+	"	
	4487	Icarus	14h24.4m	+52°36'	June 14 Friday	0h20mE	9:00:00-9:01:00	WWW	"	4x5 103aO	"	"	5 min	68°	"	Good	3	HG	Icarus on plates
	4488	"	"	"	"	0h11mE	9:10:00-9:10:30	"	"	"	"	"	"	"	"	"	"	"	"
	4489	"	"	"	"	0h04E	9:15:00-9:16:00	"	"	"	"	"	"	"	"	"	"	"	"
	4490	"	"	"	"	0h04mW	9:20:00-9:25:00	"	"	"	"	"	"	"	"	"	"	"	"
	4491	"	14h46.0	+32°20	June 15	0h32E	9:00:00-9:05:00	"	"	"	"	"			"	"	2	"	
	4492	"	"	"	"	0h27E	9:10:00-9:10:30	"	"	"	"	"			"	"	"	"	
	4493	"	"	"	"	0h21E	9:15:00-9:16:00	"	"	"	"	"			"	"	"	"	
	4494	"	14h52.0	+17°00	June 16		9:00:00-9:05:00	"	"	"	"	"			"			"	
	4495	"	"	"	"			"	"	"	"	"			"			"	
	4496	"	"	"	"		9:15:00-9:16:00	"	"	"	"	"			"			"	
G136	4497	"	15h00.3	+13°40	"	0h10W	9:25:00-9:55:00	"	"	14x17 103aO	"	"			"	fair	3	NT	Center = HD 133163
G239	4498	HD129499 U. MIN.	14h38.7	+66°34	"	1h08W	10:11:00-10:31:00	"	"	" "	"	"			"	fair+	3	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1968	H.A. END	EXPOSURE O.A.D.	W.e.	INSTR.	PLATE	Telescope POSITION	DEVELOPMENT Kind	DEVELOPMENT Time	DEVELOPMENT TEMP	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
G239	4499	HD 129499, U. Min.	14h38.7	+66°34	June 16	1h32 W	10:35:00-10:55:00	0-0	13"	103aO 14x17	W	D19	4 min	66-70	N	fair+	3	NT	
G240	4500	20 Draconis	16h56.2	+65°07	"	0h19 W	11:40:00-12:00:00	"	"	" "	"	"	"	"	"	Good	3+	"	
G240	4501	" "	"	"	"	0h44 W	12:05:06-12:25:00	"	"	" "	"	"	"	"	"	"	3	"	
	4502	GC 20521, Serpens	15h13.4	+6° 39	June 17	0h04 E	9:30-9:35; 9:45-9:50	"	"	" 8x10	"	"	"	"	"	FAIR	3	"	FOR COMET SUSPECT
	4503	Comet Whitaker Thomas	15h17.2	+10°02	"	0h05 W	10:00:00-10:03:00	"	"	" 4x5	"	"	"	"	"	"	"	"	
	4504	" "	"	"	"	0h10 W	10:07:00-10:08:00	"	"	" "	"	"	"	"	"	"	"	"	
	4505	" "	"	"	"		10:15:00-10:16:00	"	"	" "	"	"	"	"	"			"	(?) BLANK PLATE.
	4506	" "	15h20.0	+12°45	June 18	0h40 E	9:15:00-9:17:00	"	"	" "	"	"	"	"	"	fair	4	"	Guide = 7 Serpentis
	4507	" "			"	0h32 E	9:23:00-9:25:00	"	"		"	"	"	"	"	"	"	"	
G239	4508	HD 129499 U. Minor	14h38.7	+66°34	"	2h30 W	9:45:00-11:45:00	"	"	103aE 14x17	"	"	"	"	"	fair	3	RB	SLIGHT HAZE
	4509	Whitaker-Thomas	15h18.2	+15°00	June 19	0h14 E	9:35:00-9:37:00	"	"	103aO 4x5	"	"	"	"	"	Good	"	"	Guide = BD+15° 2846
	4510	" "	"	"	"	0h06 W	9:55:00-9:57:00	"	"	" "	"	"	"	"	"	"	"	"	" " "
	4511	" "	15h19.2	+17°10	June 20	0h31 E	9:15:00-9:17:00	"	"	" "	"	"	"	"	"	fair+	3	NT	Guide = BD+17° 2854
	4512	" "	"	"	"	0h21 E	9:25:00-9:27:00	"	"	" "	"	"	"	"	"	"	"	"	" " "
	4513	GC 20087, U. Min.	14h53.6	+82°43	"	2h15 W	9:37:00-11:37:00	"	"	103aE 14x17	"	"	"	"	"	"	2	"	
	4514	Whitaker-Thomas	15h19.5	+18°37	June 21	0h12 W	9:55:00-9:57:00	"	"	103aO 4x5	"	"	"	"	N	good	2-	"	HD 136711 guide *
	4515	" "	"	"	"	0h22 W	10:05:00-10:07:00	"	"	" "	"	"	"	"	"	"	"	"	" "
	4516	" "	15h23.6	+19°39	June 22	1h46 W	11:25:00-11:27:00	"	"	" "	"	"	"	"	"	"	2+	"	GC 20745 "
	4517	" "	"	"	"	1h53 W	11:32:00-11:34:00	"	"	" "	"	"	"	"	"	"	"	"	" "
	4518	" "	15h21.8	+22°28	June 23	0h24 E	9:14:00-9:16:00	"	"	" "	"	"	"	"	"	"	3+	"	BD+22° 2833 "
	4519	" "	"	"	"	0h14 E	9:24:00-9:26:00	"	"	" "	"	"	"	"	"	"	3+	"	" " "
	4520	Whitaker-Thomas G167 region	15h16.2	+27°01	"	0h18 W	9:31:00-9:51:00	"	"	103aO 14x17	"	"	"	"	"	"	"	"	Σ1932, C. Bor. "
	4521	Whitaker-Thomas	15h22.5	+23°27	June 24	0h32 E	9:02:00-9:04:00	"	"	103aO 4x5	"	"	"	"	"	~~fair~~	3	"	BD+23° 2808 "
	4522	" "	"	"	"	0h24 E	9:10:00-9:12:00	"	"	" "	"	"	"	"	"	"	"	"	" " " "
	4523	" "	15h26.2	+26°41	June 26	0h05 E	9:25:00-9:27:00	"	"	" "	"	"	"	"	"	fair+	3+	"	HD 137983 "
	4524	" "	"	"	"	0h06 W	9:35:00-9:37:00	"	"	" "	"	"	"	"	"	"	"	"	" "
	4525	Red plate	15h54.0	+71°26	"	1h51 W	9:50:10-11:50:10	"	"	103aE 14x17	"	"	"	"	"	"	"	"	BD+71° 754, U. Minor
	4526	Whitaker-Thomas	15 24.4	+28°18	June 28	0h35 W	9:55:00-9:57:00	"	"	103aO 4x5	"	"	"	"	"	good	2-1	"	focus poor BD+28° 2432, C. Bor.
	4527	" "	"	"	"	0h45 W	10:05:00-10:07:00	"	"	" "	"	"	"	"	"	"	"	"	" " "
	4528	" "	15 26.8	+30 48	July 1	0h40 W	9:50:00-9:52:00	"	"	" "	"	"	"	"	"	fair	2	"	BD+31° 2739, C. Bor.
	4529	" "	"	"	"	0h53 W	10:00:00-10:05:00	"	"	" "	"	"	"	"	"	"	"	"	" " "
	4530	" "	15h36.3	+36°24	July 12	0h36 W	9:20:00-9:23:00	"	"	" "	"	"	"	"	"	Good	3+	"	
	4531	" "	"	"	"	0h45 W	9:29:00-9:32:00	"	"	" "	"	"	"	"	"	"	"	"	
	4532	" "	15h38.6	+37° 11	July 16	0h58 W	9:20:00-9:23:00	"	"	103aD "	"	"	"	"	"	fair+	3+	NT	GC 21087
	4533	" "	"	"	"	1h06 W	9:28:00-9:31:00	"	"	" "	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1968	H.A. END	EXPOSURE O.A.D.	w.e.	INSTR.	PLATE		TELESCOPE Position	DEVELOPMENT Kind	DEVELOPMENT Time	DEVELOPMENT Temp	WRITING	SEEING Trans	SEEING Stead	OBSV.	REMARKS
G240	4534	20 DRACONIS	$16^h56.2$	+65°87	July 16	1^h55 W	9:37:00–11:37:00	0-0	13-inch	103aE	14x17	N	D19	4 min	66-70	N	FAIR+	3-2	NT	
	4535	W Whitaker-Thomas	$16^h06.3$	+40°46	Aug 12	3^h04 W	9:50:12–9:55:12 10:05:00–10:10:00	"	"	103aO	8x10	"	"	"	"	"	"	2	"	
	4536	" "	"	"	Aug 13	2^h30 W	8:42–--- 9:29		"	"	"	"	"	"	"	"	"	"	"	NUMEROUS INTERRUPTIONS for CLOUDS — SEE RECORD BOOK
G180	4537	" "	$16^h11.4$	+38°12	Aug 14	1^h41 W	8:25:00–8:45:00	0-0	"	"	14x17	"	"	"	"	"	Good	3-4	"	
	4538	G241/GC 32307 Ceph	$23^h10.0$	+64°27	Oct. 13	0^h50 W	10:32-10:46/10:49-10:55	WWV	"	"	"	"	"	"	"	"	good & haze	4	"	clear clouds at 10:46 and 10:55 not able to trail plate
	4539	G241/GC 32307, Ceph	"	"	Oct 15		8:50:00–9:15:00	0-0	"	"	"	"	"	"	"	"	Good	2-1	RB	
	4540	G241/GC 32307, Ceph	"	"	"		9:20:00–9:45:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4541	G241/GC 32307 Ceph	"	"	Oct 17		8:50:00–9:15:00	"	"	"	"	"	"	"	"	"	"	3	"	
	4542	G241/GC 32307 Ceph	"	"	"		9:20:00–9:45:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4543	8 mag star/S. Gal Pole	$0^h20.0$	~~-30°00~~ -33°00	Oct. 17	0^h06 E	10:35:00–10:55:00	WWV	13 inch	103aO	14x17	N	D19	4min	68°	N	good	3	HLG	Oct. 17
	4544	6 mag star/S. Gal Pole	$1^h00.0$	-31°40	Oct. 17	0^h02 E	11:20:00–11:40:20	"	"	"	"	"	"	"	"	"	"	"	"	Oct. 17
	4545	G241/GC 32307 Ceph.	$23^h10.0$	+64°27	Oct. 18	0^h46 E	7:52:00–9:22:00	"	"	I aE	"	"	"	"	"	"	Fair	3	NT	Oct. 18
	4546	8 mag star/S. Gal Pole	$0^h20.0$	-33°00	Oct. 21	MT.	10:30:00–10:45:00	WWV	13 inch	103aO	14x17	N	D19	4min	68°	N	good	3+	HLG	
	4547	7 mag star/S. Gal Pole	$0^h12.0$	-21°20	Oct. 21	0^h46 W	11:03:00–11:23:00	WWV	"	"	"	"	"	"	"	"	"	3	"	
	4548	8 mag star/S. Gal Pole	$0^h57.0$	-20°15	Oct. 21	0^h35 W	11:40:00–12:00:00	"	"	"	"	"	"	"	"	"	"	3+	"	
	4549	G242/GC 33120 Ceph.	$23^h49.9$	+75°16	Oct. 22	1^h20 W	11:05:00–11:30:00	"	"	"	"	"	"	"	"	"	good	3-2	NT	
	4550	G242/GC 33120 Ceph.	"	"	"	1^h45 W	11:35:00–11:55:00	"	"	"	"	"	"	"	"	"	good	2	"	
	4551	G244/ε 163 Cass	$1^h47.6$	+64°36	"	0^h32 W	12:15:00–12:40:00	"	"	"	"	"	"	"	"	"	good	3-4	"	
	4552	G245/49 cass	$2^h00.7$	+75°53	"	1^h14 W	13:10:00–13:35:00	"	"	"	"	"	"	"	"	"	good	2-3	"	
	4553	G74 / 14 Tri	$2^h29.0$	+35°56	"	1^h15 W	13:42:00–14:03:00	"	"	"	"	"	"	"	"	"	good	3-4	"	
	4554	G242/GC 33120 Ceph.	$23^h49.9$	+75°16	Oct. 23	0^h19 W	10:00:00–10:25:00	"	"	"	"	"	"	"	"	"	fair	2+	RB	
	4555	G244/ε 163 Cass	$1^h47.6$	+64°36	"	0^h58 E	10:40:00–11:05:00	"	"	"	"	"	"	"	"	"	fair	2+	"	
	4556	G244/ε 163 Cass	"	"	"	0^h32 W	12:10:00–12:35:00	"	"	"	"	"	"	"	"	"	good	2	"	
	4557	G245/49 Cass	$2^h00.7$	+75°53	"	0^h55 W	12:45:00–13:10:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4558	7m STAR	$0^h16.2$	-21°55	Oct. 25	0^h36 W	10:40:00–11:00:00	"	"	"	"	"	"	"	"	"	"	4	H.L.G	
	4559	6m STAR	$0^h53.5$	-20°50	"	0^h42 W	11:25:00–11:45:00	"	"	"	"	"	"	"	"	"	"	3	"	
	4560	G245/49 Cass	$2^h00.7$	+75°53	Oct 27	2^h00 W	12:12:00–13:45:00	"	"	103aE	"	"	"	"	"	"	"	3+	NT	
	4561	G242/GC 33120, Ceph	$23^h49.9$	+75°16	Nov 17	0^h17 W	7:15:00–8:45:00	"	"	IaE	"	"	"	"	"	"	"	3-1	RB	increasing turbulence.
	4562	G243/HD 2619, Cass.	$0^h27.6$	+65°00	"	0^h15 W	8:55:00–9:20:00	"	"	103aO	"	"	"	"	"	"	"	2-1	NT	
	4563	G243/HD 2619, Cass	"	"	Nov 18	0^h46 E	6:45:00–8:15:00	"	"	IaE	"	"	"	"	"	"	FAIR	4	"	
	4564	S. GAL Pole Region	$0^h15.7$	-21°57	"	0^h25 W	8:55:00–9:15:00	"	"	103aO	"	"	"	"	"	"	Good	"	HLG	
	4565	" " "	1^h00	-31°37	"	0^h21 W	9:36:00–9:56:00	"	"	"	"	"	"	"	"	"	"	3-	"	
	4566	G246/Σ349, Cass	$3^h06.6$	+63°36	"	0^h15 E	12:00:00–12:25:00	"	"	"	"	"	"	"	"	"	"	4	NT	
	4567	" " "			"	0^h15 W	12:30:00–12:55:00	"	"	"	"	"	"	"	"	"	"	"	"	
G247	4568	GC 5510, Lam.	$4^h28.6$	+64°04	"	0^h34 W	13:10:00–13:35:00	"	"	"	"	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC	DATE 1968-9	H.A. END	EXPOSURE O.A.D.	W.e.	INSTR.	PLATE		Telescope Position	DEVELOPMENT Kind	DEVELOPMENT Time	DEVELOPMENT Temp	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
G247	4569	GC 5510, Cam.	$4^h28.6$	+64°04	Nov. 18	1^h04 W	13:40:00-14:05:00	0-0	13"	103aO	14x17	W	D19	4 min	66-70	N	Good	4	NT	
G243	4570	HD 2619, Cass.	$0^h27.6$	+65°00	Nov. 19	0^h07 W	8:40:00-9:05:00	"	"	"	"	"	"	"	"	"	"	2+....1	RB	
	4571	S. Gal. Pole Region	$0^h21.0$	-33°12	Nov 20	0^h08 W	8:40:00-8:55:00	"	"	"	"	"	"	"	"	"	"	2-3	"	
G243	4572	G243/HD2619, Cass	$0^h27.6$	+65°00	"	0^h32 W	9:00:00-9:25:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4573	σ Sculptoris	$1^h00.0$	-31°49	"	0^h34 W	9:40:00-10:00:00	"	"	"	"	"	"	"	"	"	"	2	"	
G246	4574	G246/Σ349, Cass	$3^h06.6$	+63°36	"	0^h08 W	10:10:00-11:40:00	"	"	IaE	"	"	"	"	"	"	fair+	3	NT	
G247	4575	G247/HD5510, Cam.	$4^h28.6$	+64°04	"	0^h38 W	12:01:00-13:31:00	"	"	"	"	"	"	"	"	"	"	"	"	
G243	4576	G243/HD2619, Cass.	$0^h27.6$	+65°00	Nov 22		9:25:00-9:50:00	"	"	103aO	"	"	"	"	"	"	Good	4	RB	
X	4577	S.Gal Pole Region	$0^h21.0$	-33°00	Dec 18	0^h58 W	7:35:00-7:52:00	"	"	"	"	"	"	"	"	"	"	3+	HLG	
X	4578	" " "	$0^h56.0$	-20°48	"	"	8:10:00-8:30:00	"	"	"	"	"	"	"	"	"	"	"	"	
G244	4579	Σ163, Cass	$1^h47.6$	+64°36	"		8:45:00-10:15:00	"	"	IaE	"	"	"	"	"	"	"	2-3	NT	
G248	4580	GC 5774, Cam	$4^h42.1$	+75°51	"		10:52:00-11:12:00	"	"	103aO	"	"	"	"	"	"	"	"	"	
G248	4581	" " "	"	"	"		11:17:00-11:37:00	"	"	"	"	"	"	"	"	"	"	"	"	
	4582	Apollo 8 Field																		
	4583	"																		
	4584	"																		
	4585	"																		
	4586	← Thomas, 1968J	5^h22^m	+81°42'	Dec 21		10:05:00-10:15:00	"	"	4x5 103aO		"	"	"	"	"	"	"	RB + HLG.	
	4587	" "	"	"	"		10:25:00-10:35:00	"	"	"		"	"	"	"	"	"	"	"	
μTr.	4588	So. Gal. Pole	0^h56^m	-20°48'	Dec. 22 Sunday	0^h44^m W	7:41:06-8:01:06	"	"	103aO	14x17	"	"	"	"	"	"	"	HLG.	
	4589	← Thomas, 1968J	$5^h22.4^m$	+81°42'	"	3^h05^m E	8:35:00-8:45:00	"	"	4x5 103aO		"	"	"	"	"	"	"	"	
	4590	" "	"	"	"	2 46 E	8:55:00-9:05:00	"	"	"		"	"	"	"	"	"	"	"	
	4591	" "	"	"	"	2 14 E	9:12:00-9:40:00	"	"	"		"	"	"	"	"	"	"	"	No Guiding.
Pr.	4592	S.Gal. Pole — Red.	1^h00^m	-31°49'	Dec 23		7:55:00-9:10:00	"	"	14x17 IIIaE with Red Filter		"	"	"	"	~~Fair~~	Fair-	3-	R.B.	Sky Fog - Dark
	4593	← Thomas, 1968J	5^h22^m	-81°42'	Dec 23		10:15:00-10:25:00	wwV	"	4x5 103aO		"	"	"	"	N	Good	3	"	
	4594	"	"	"	"		10:35:00-10:45:00	"	"	"		"	"	"	"	"	"	"	"	
1969					1969															1969
μTr	4595	σ Sculpt. S.Gal Pole	1^h00^m	-31°40'	Jan 6 Monday	1^h08 W	7:09:00-7:30:00	wwV	13"	14x17 103aO		W	D19	4^m	66-80	N	Fair+	2	HLG.	
	4596	North Polar Seq.	2^h57^m	+90°	"	2^h00 E	8:00:00-8:20:00	"	"	4x5 103aO		"	"	"	"	"	Good?	3	"	
	4597	← Thomas, 1968J	4^h42^m	+81°18'	"	0^h59 E	8:55:00-9:05:00	"	"	"		"	"	"	"	"	"	3	"	Bright Moonlight
	4598	"	"	"	"	0 40 E	9:15:00-9:25:00	"	"	"		"	"	"	"	"	"	3	"	"
	4599	"	4^h27^m	+80°47'	Jan 17 Friday	1^h43^m E	7:15:00-7:25:00	"	"	"		"	"	"	"	"	Good	3	"	
	4600	"	"	"	"	1^h27^m E	7:30:00-7:40:00	"	"	"		"	"	"	"	"	"	"	"	
	4601	G39 - 27,28	4^h33^m	+27°04'	Feb 7 Friday	0^h06 W	7:37:06-7:57:06	wwV	"	4x5 103aO		"	"	5^m	"	"	"	3+	"	Shift Center 3 min W. Trail 6 min.
	4602	A Region at	4^h03^m	+78°04	"	1^h22 W	8:26:00-8:41:00	"	"	"		"	"	4^m	"	"	"	3	"	

	Neg #	Object or Guide	Position R.A.	Position Dec.	Date 1969	H.A. End	Exposure O.A.D	W.e.	Instr.	Plate	Telescope Position	Development Kind	Development Time	Development Temp	Writing	Seeing Trans	Seeing Stead	Obsv.	Remarks
	4603	A region at	4^h03^m	+78°04'	Feb. 7 Friday	1^h50^m W	8:50:00-9:10:00	WWV	13"	4x5, 103aO	W	D19	4	68	N	Good	3^+	HG.	
	4604	"	$5^h02.3^m$	-3°04"	"	1^h22^m W	9:25:00-9:40:00	"	"	"	"	"	"	"	"	"	3	"	
	4605	"	"	"	"	1^h43^m W	9:45:00-10:00:00	"	"	"	"	"	"	"	"	"	"	"	
	4606	"	4^h03^m	+78°04	Feb 8	0^h35^m W	7:36:00-7:51:00	"	"	"	"	"	"	"	"	Good	3	"	
	4607	"	$5^h02.3^m$	-3°04	Sat. "	MT	8:05:00-8:15:00	"	"	"	"	"	"	"	"	"	"	"	
G248	Pr. 4608	GC 5774 Cam	$4^h42.1^m$	+75°51	Feb 10	0^h46^m W	7:15:00-8:30:00	"	"	14x17, IaE	"	"	"	"	"	"	"	R.B.	
	4609	← Thomas	$4^h50.2^m$	+77°40'	monday "	1^h10^m W	8:50:00-9:05:00	"	"	4x5, 103aO	"	"	"	"	"	Good	3^+	HG	
G249	4610	G249/+64°554 Cam	$5^h50.8$	+64°19	"	0^h42 W	9:15:00-9:35:00	"	"	103aO 14x17	"	"	"	"	"	"	4	NT	
G249	4611	" "	"	"	"	1^h07 W	9:40:00-10:00:00	"	"	" "	"	"	"	"	"	"	"	"	
G250	4612	G250/GC9198, Cam	$6^h57.2$	+63°45	"	0^h38 W	10:07:00-10:37:00	"	"	" "	"	"	"	"	"	"	3+	"	
G250	4613	" "	"	"	"	1^h01 W	10:40:00-11:00:00	"	"	" "	"	"	"	"	"	"	3	"	
G249	4614	G249/+64°554 Cam	$5^h50.8$	+64°19	Feb 11		7:35:00-8:50:00	"	"	IaE 14x17	"	"	"	"	"	fair+	3	RB	Some haze at end.
	4615	← Thomas	5^h00^m	+76°52'	Feb 16	0^h34^m W	8:00:00-8:15:00	"	"	4x5 103aO	"	"	5	"	"	Good	2^-	HG	
	4616	← Perrine-Mrkos	5^h55^m	-1°50'	Sunday "	0^h08^m W	8:30:00-8:45:00	"	"	"	"	"	"	"	"	"	2^+	"	
G251	4617	GC 9201 Cam	$6^h57.4$	+75°18	Feb 16	1^h40 W	10:56:00-11:16:00	"	"	103aO 14x17	"	"	"	"	"	"	3-2	NT	
G251	4618	" "	"	"	"	2^h04 W	11:20:00-11:40:00	"	"	" "	"	"	"	"	"	"	"	"	
	4619	SN Suspect M82	$10^h00.9$	+70°28	"	0^h19 W	12:48:00-12:58:00	"	"	" 8x10	"	"	"	"	"	"	3	"	
	4620	" " "	"	"	"	0^h36 W	13:05:00-13:15:00	"	"	" "	"	"	"	"	"	"	"	"	
	4621	← Thomas 1968J	5^h38^m	+74°00'	Mar. 5	0^h37^m W	7:35:00-7:50:00	"	"	4x5, 103aO	"	D19	4	68	"	Good	2^+	HLG	J. Edson, Visitor.
	4622	Perrine-Mrkos ←	6^h20^m	-0°30'	wed. "	0^h23^m W	8:01:00-8:16:00	"	"	"	"	"	"	"	"	"	"	"	" "
	4623	← Thomas 1968S	$6^h01.5$	+72°30	MAR 14	1^h27	8:10:00-8:25:00	"	"	"	"	"	"	"	"	FAIR+	2	"	
	4624	G87-28+29	7^h06	+37°46	"		8:43:00-9:03:00	"	"	"	"	"	"	"	"	Good	2	"	
G251	4625	G251/GC 9201, Cam	$6^h57.4$	+75°18	"	2^h46 W	9:25:00-10:40:00	"	"	IaE 14x17	"	"	"	"	"	"	2	RB	
G250	4626	G250/GC 9198, Cam	$6^h57.2$	+63°45	Mar 15	1^h25 W	8:00:10-9:15:10	"	"	" "	"	"	"	"	"	"	2-1	NT	
G252	4627	G252/GC 12726, UM	$9^h10.2$	+73°09	"	0^h08 W	9:50:00-10:10:00	"	"	103aO "	"	"	"	"	"	"	3	"	
G252	4628	" "	"	"	"	0^h33 W	10:15:00-10:35:00	"	"	" "	"	"	"	"	"	"	2-1	"	
	4629	← Thomas 1968J	$6^h01.5$	+72°30	Mar 16	1^h32 W	8:03:00-8:23:00	"	"	" 4x5	"	"	"	"	"	"	3^+	HLG	
G253	4630	G253/GC13174 Draco	$9^h30.1$	+81°33	Mar 17	0^h51 W	9:50:00-11:05:00	"	"	IaE 14x17	"	"	"	"	"	Good	2^+	RB	
G253	4631	" "	"	"	"	1^h16 W	11:10:00-11:30:00	"	"	103aO "	"	"	"	"	"	"	"	"	
G253	4632	" "	"	"	"	1^h46 W	11:40:00-12:00:00	"	"	" "	"	"	"	"	"	"	"	"	
Broken in many pieces - thrown away	~~4633~~	~~G201-46,47~~	~~15^h16^m~~	~~+45°45'~~	~~Mar. 23~~	~~1^h15^m W~~	~~16:32:00-16:52:00~~	~~"~~	~~"~~	~~4x5 103aO~~	~~"~~	~~"~~	~~5~~	~~"~~	~~"~~	~~Good~~	~~2^-~~	~~HG.~~	~~Set E 2½ min, Trail with clock stopped 5 min.~~
	4634	← Thomas 1968J	7^h04^m	+67°28'	April 7	2^h5^m W	8:22:00-8:42:00	"	"	" old	"	"	4	"	"	Good-	3	"	
	4635	"	"	"	"	2^h42^m W	8:50:00-9:10:00	"	"	" new	"	"	"	"	"	"	"	"	
	4636	"	8^h03^m	+61°12'	May 3	3^h09^m W	8:38:00-8:53:00	"	"	"	"	"	5	66	"	Good	3	"	
	4637	"	"	"	Saturday "	3^h37^m W	9:00:00-9:20:00	"	"	"	"	"	"	"	"	"	"	"	

	Neg #	Object or Guide	Position R.A.	Position Dec.	Date 1969	H.A. End	Exposure O.A.D.	w.e.	Instr.	Plate	Telescope Position	Development Kind	Development Time	Development Temp	Mixing	Seeing Trans	Seeing Stead	Obsv.	Remarks
G255	4638	OΣ267, U.Minor	13h24.4	+76°15'	May 15	0h20 E	9:35:00-9:56:00	0-0	13"	103aO 14x17	W	D19	4m.	66-70	N	Good	3+	NT	
G255	4639	" "	"	"	"	0h05 W	10:00:15-10:21:15	0-0	"	" "	"	"	"	"	"	"	"	"	
G256	4640	GC20087, U.Min.	14h53.6	+82°43	"	0h34E	10:50:00-11:11:00	"	"	" "	"	"	"	"	"	"	3+-4	"	
G256	4641	" "	"	"	"	0h07 E	11:17:00-11:38:00	"	"	" "	"	"	"	"	"	"	4-3+	"	
G254	4642	Σ1516, Draco	11h12.0	+73°45	May 16	1h00 W	8:40:00-9:00:00	"	"	" "	"	"	"	"	"	"	2+	RB	
G254	4643	" "	"	"	"	1h30W	9:10:00-9:30:00	"	"	" "	"	"	"	"	"	"	"	"	
	4644	← Thomas 1968J	9h02m	+54°30'	June 1	5h23m W	9:55:05-10:10:05	"	"	" 8x10	"	"	"	"	"	Good	3-	HG	Bright Moonlight no comet visible
	4645	"	9h08m	+53°17'	June 5	5h03 W	9:20:00-9:40:00	"	"	" 4x5	"	"	5min	"	"	"	4	"	← on plate
	4646	"	"	"	"	5h33m W	9:50:00-10:10:00	"	"	" "	"	"	"	"	"	"	4	"	"
	4647	"	10h04m	+45°10'	July 4	6h05m W	9:12:03-9:42:10	"	"	" "	E	"	8min	"	5	Good	1+	"	Darkroom Times not off.
	4648	"	"	"	"	6h41m W	9:50:00-10:20:00	"	"	" "	"	"	"	"	"	"	2-	"	
G257	4649	BD+71°753, U.Min.	15h52	+71°30	July 7	0h15m W	9:10:00-9:30:00	"	"	103aO 14x17	W	"	4min	68°	N	good	3-4	N	
G257	4650	" " "	"	"	"	0h40W	9:35:00-9:55:00	"	"	" "	"	"	"	"	"	"	"	"	
G258	4651	ω Draconis	17h37	+68°47	"	0h00m	10:38:00-11:00:00	"	"	" "	"	"	"	"	"	"	"	"	
G258	4652	"	"	"	"	0h27m W	11:05:00-11:27:00	"	"	" "	"	"	"	"	"	"	"	"	
G258	4653	"	"	"	July 15	1h18m W	10:30:00-11:50:00	"	"	IaE 14x17	"	"	"	"	"	"	3+-2	"	sudden jump in Dec. c/Weight going th. motor
	4654	©1969 Kohoutek	19h21.5m	+28°20'	Aug. 5 Tuesday	0h07m W	10:50:00-11:00:00	"	"	4x5 103aO	"	"	5min	"	"	Good	4	HG	
	4655	" Region	"	"	"	0h16m W	11:06:00-11:08:00	"	"	"	"	"	"	"	"	"	"	"	
G259	4656	41 Draconis	18h03.9	+80°00	Aug 15	0h34W	9:05:00-9:27:00	"	"	103aO 14x17	"	"	4MIN	"	"	"	3	RB	
G259	4657	" "	"	"	"	1h17W	9:45:00-10:10:00	"	"	" "	"	"	"	"	"	"	"	"	
G259	4658	41 Draconis	"	"	Sept. 10	3h19W	9:05:00-10:30:00	"	"	IaE "	"	"	"	"	"	"	2+	RB	
G262	4659	4 Cephei	20h42.6	+66°28	Oct 6	0h33W	8:15:00-8:40:00	"	"	103aO "	"	"	"	"	"	"	1+	NT	
G262	4660	" "	"	"	"	1h03W	8:45:00-9:10:00	"	"	" "	"	"	"	"	"	"	1	"	
G261	4661	κ Cephei	20h10.6	+77°34	Oct 7	1h04W	8:10:30-8:35:00	"	"	" "	"	"	"	"	"	"	2-1	RB	
G261	4662	"	"	"	"	1h34W	8:40:00-9:05:00	"	"	" "	"	"	"	"	"	"	"	"	
G260	4663	δ Draconis	19h12.5	+67°34	Oct 9		7:25:00-7:50:00	"	"	" "	"	"	"	"	"	"	2	"	
G260	4664	"	"	"	"		7:55:00-8:20:00	"	"	" "	"	"	"	"	"	"	"	"	
G260	4665	"	"	"	Oct 12	2h31W	7:10:00-8:40:00	"	"	IaE "	"	"	"	"	"	"	3-2	NT	
G264	4666	ξ Cephei	22h02.4	+64°23	"	0h36W	9:10:00-9:35:00	"	"	103aO "	"	"	"	"	"	"	"	"	
G264	4667	"	"	"	"	1h06W	9:40:00-10:05:00	"	"	" "	"	"	"	"	"	"	"	"	
G261	4668	κ Cephei	20h10.6	+77°34	Oct 13	1h48W	7:25:00-8:55:00	"	"	IaE "	"	"	"	"	"	"	2-2+	"	
G264	4669	ξ Cephei	22h02.4	+64°23	"	1h52W	9:20:00-10:50:00	"	"	" "	"	"	"	"	"	"	2+...4	"	
G262	4670	4 Cephei	20h42.6	+66°29	Nov 3	2h18W	7:05:00-8:35:00	"	"	" "	"	"	"	"	"	"	3	RB	
G263	4671	16 Cephei	21h56.5	+72°58	Nov 4	0h04W	7:05:00-7:30:00	"	"	IO3aO "	"	"	"	"	"	"	3-2	NT	
G263	4672	"	"	"	"	0h34W	7:35:00-8:00:00	"	"	" "	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION RA	POSITION DEC	DATE 1969	H.A. END	EXPOSURE O.A.D.	W.e.	INSTR.	PLATE	Telescope POSITION	DEVELOPMENT KIND	DEVELOPMENT Time	DEVELOPMENT Temp	WRITING	SEEING TRANS	SEEING Stead	OBSV.	REMARKS.
G265	4673	2 Ursae Minoris	$1^h01.5$	+85°59	Nov. 4	0^h36 E	9:30:00–9:55:00	0-0	13"	103aO 14x17	W	D19	4 min	66-70	N	Good	3-2	NT	
G265	4674	" "	"	"	"	0^h06 E	10:00:00–10:25:00	"	"	" "	"	"	"	"	"	"	2^+-3	"	
G263	4675	16 Cephei	$21^h58.5$	+72°57	Nov 5		7:11:00–8:41:00	"	"	IaE "	"	"	"	"	"	Gd-fair	3-	RB	
	4676																		
G8 Tr	4677	G8	4^h21^m	+21°00'	1970 Jan 3	0^h36^mW	10:10:00–10:30:00	WWV	"	103aO 14x17	"	"	"	"	"	Good⁻	3⁻	HG	Trailed
	4678	⇐ Faye, 1969A	$5^h13.5^m$	+5°45'	Sat. Eve	0^h07^mW	10:45:00–10:55:00	"	"	103aO 4x5	"	"	"	"	"	"	"	"	
	4679	"	"	"	"	0^h22^mW	11:05:00–11:10:00	"	"	"	"	"	"	"	"	"	"	"	
Pr.	4680	G8	4^h21^m	+21°00'	Jan 4	1^h39^mW	10:00:00–11:30:00	"	"	IaE 14x17	"	"	"	"	"	Good⁻	4^+	"	Red Filter
	4681	⇐ Faye, 1969A	$5^h13.5^m$	+5°45'	"	1^h01^mW	11:41:00–11:45:00	"	"	103aO 4x5	"	"	5 min	"	"	"	"	"	
Tr	4682	G8	4^h21^m	+21°00'	Jan 5 Monday	0^h32^mW	10:00:00–10:20:00	"	"	103aO 14x17	"	"	4 min	"	"	Good⁻	1,2	"	
	4683	⇐ Faye. 1969A	$5^h13.5^m$	+5°45'	"	0^h05^mE	10:31:00–10:35:00	"	"	103aO 4x5	"	"	5 min	"	"	"	"	"	
	4684	⇐ Daido 1970a	18^h58^m	+6°10'	Feb 1	4^h15E	18:14:00–18:20:00	"	"	103aO 14x17	"	"	"	"	"	Good	1,2	"	Monday, Feb 2, 6:14 to 6:20 M.S.T. AM no comet on plate
	4685	" "	19^h20^m	+0°22'	Feb 2 Tues AM	4 53 E	17:58:00–18:02:00	"	"	" 8x10	"	"	5 min	"	"	"	1,2	"	no comet
	4686	" " not on plate	"	"	"	4 45 E	18:10:00–18:11:00	"	"	" 4x5	"	"	"	"	"	"	1,1	"	no comet on plate
	4687	" "	$19^h54.5^m$	-3°12'	Feb 5	5^h06^mE	18:10:00–18:13:00	"	"	cut to 4x5 " 8x10	"	"	"	"	"	Poor Twilight	1	"	Haze + Clouds near horizon
	4688	⇐ Bennett (1969i)	$22^h04.1$	+2 12	Mar. 26	5^h12^mE	5:00:00–5:05:00 AM. M.S.T.		"	14x17 103aO	"	"	4 min	"	"		1	NT	
	4689	" "	22^h12^m	+9°00'	Mar. 28 Sat. AM	5^h25^mE	4:50:00–4:55:00 AM, MST.	WWV	"	"	"	"	"	"	"	Good	2	HG	
	4690	" "	"	"	"	5^h15^mE	5:04:00–5:04:30	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
	4691	" "	"	"	"	5^h08^mE	5:10:30–5:11:00	"	"	"	"	"	"	"	"	"	"	"	
	4692	" "	22^h25^m	+23°20'	April 2 Thurs	5^h08^mE	4:55:00–5:00:00	"	"	14x17 103aO	"	"	"	"	"	Good	2	"	
	4693	" "	"	"	"	5 05 E	5:04:30–5:05:00 AM. MST.	"	"	4x5 103aO	"	"	"	"	"	"	"	"	30 sec Exp.
	4694	" "	"	"	"	5 01 E	5:10:00–5:10:20	"	"	"	"	"	"	"	"	"	"	"	20 sec Exp.
	4695	" "	22^h43^m	+35°00'	April 7 Tuesday Am	5^h10^mE	4:53:00–5:00:00	"		14x17 103aO	"	"	"	"	"	Good	2,1	"	
	4696	" "	"	"	"	5 06 E	5:04:00–5:04:30	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
	4697	" "	"	"	"	5:02 E	5:10:00–5:10:20	"	"	"	"	"	"	"	"	"	"	"	
So. Gal. pole	4698	GOD -33°95 HO 224 143	$0^h21.5$	-32°38	23 Oct.	0^h54 E	9:25:00–9:45:00	0 (WWV)	"	14x17 103aO	"	"	"	"	"	"	3	N	correct guide would be GOD -33°121
" " "	4699	SOD -21°6498	$23^h53.0$	-21°14	23 oct	0^h00	9:56:00–10:11:00	"	"	" "	"	"	"	"	"	"	2-3	N	
" " "	4700	σ Sculptoris	$1^h00.1$	-31°49	23 Oct.	0^h43 E	10:15:00–10:35:00	"	"	" "	"	"	"	"	"	"	2	N	Dr. on: open 5m close 10m; Dr. off: " 5m " 20m
last plate at old site	4701	Polar Trail Plate	(Polaris) $1^h48.8$	+89°02	26 Oct	–	Dr. on: 8:35–9:25 Dr. off: 9:25–10:45	0 (WWV)	"	" "	"	"	"	"	"	"	2-1	N	
	4702	" " "	Near: $7^h35.2$	+88°45	6 Nov.	0^h40 W	Dr. on: 4:53–5:45 Dr. off: 5:45–5:58	-4^m15^s	"	8x10 103aO	"	"	"	"	"	below pole	3	N	Dr. on: open 5m close 10m; Dr. off: open all thru.
	4703	" " "	Near: 0^h36	+89°36	10 Nov.	1^h02 W	Dr. on: 9:55–11:55:15 Dr. off: 11:55:15–12:00	0 (WWV)	"	" "	"	"	"	"	"	below pole	3	N	Dr. on: open 15s close 14m45s; Dr. off: open all thru.
	4704	" " "	Near: 22^h52	+88°42	16 Nov.	1^h01 W	Dr. on: 6:30–8:31 Dr. off: 8:31–8:40	-3^m00^s	"	" "	"	"	"	"	"	"	3	N	Dr. on: open 1m close 14m; Dr. off: open all thru.
H.A. above pole	4705	" " "	Near 16^h55	+89°10	16-17 Nov.	1^h17 W	Dr. on: 11:51–2:50:15 Dr. off: 2:50:15–2:55	-3^m00^s	"	" "	"	"	"	"	"	"	3	N	Dr. on: open 15s close 14m45s; Dr. off: open all thru.
" " "	4706	" " "	15^h00	+89 15	17-18 Nov.	0^h56 W	Dr. on: 9:31–12:30:15 Dr. off: 12:30:15–12:35	0 (WWV)	"	" "	"	"	"	"	"	"	3	N	Dr. on: open 15s close 14m45s; Dr. off: open all thru.

880
655
1.15

FIRST PLATES, BEGIN HERE OF 13" TELESCOPE AT ANDERSON MESA Site.

Telescope Moved From Flagstaff, Mars Hill to Anderson Mesa

	NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1971+ 1970	H.A. END	EXPOSURE O.A.D.	WR	INSTR.	PLATE	TELESCOPE POSITION	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WARNING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
X μTr.	4707	S. Gal. Pole	$0^h22.5^m$	-33°00'	Nov. 19	0^h39^m W	9:08:00-9:28:00	WWV	13"	14x17 103aO	W	D19	4^{min}	68°	N	Good	4	HG	
μTr.	4708	σ Sculptoris	1^h00^m	-31 49	"	0 25W	9:50:00-10:10:00	"	"	" "	"	"	"	"	"	"	"	"	
	4709	N. Pole			Nov 22		7:30:00-10:40:00	"	"	8x10 103aO	"	"	"	"		Poor	3	NT	
X	4710	S. Gal. Pole	$0^h22.5$	-33°06	Dec 23	0^h54 W	7:20:00-7:35:00	"	"	14x17 "	"	"	"	"	N	Good	3+	RB	
	4711	" " "	"	"	"	1^h14 W	7:40:00-7:55:00	"	"	" "	"	"	"	"	"	"	3+	"	
	4712	Sigma Sculpt.	1^h00	-31°49	"	1^h07 W	8:10:00-8:25:00	"	"	" "	"	"	"	"	"	"	"	"	
	4713	" "	"	"	"	1^h27 W	8:30:00-8:45:00	"	"	" "	"	"	"	"	"	"	"	"	
	4714	S. Gal. Pole	$0^h22.5$	-33°00	Dec 28	1^h39 W	6:55:00-8:00:00	"	"	" IaE	"	"	"	"	"	"	3	RB	
	4715	Sigma Sculpt	1^h00	-31°49	"	2^h17 W	8:10:00-9:15:00	"	"	" "	"	"	"	"	"	"	"	"	
	4716	S. Gal. Pole	$0^h15.5$	-22°10	Dec 29	0^h35 W	6:30:00-6:45:00	"	"	" 103aO	"	"	"	"	"	V. Good	3-4	NT	
X	4717	" "	"	"	"	0^h55 W	6:50:00-7:05:00	"	"	" "	"	"	"	"	"	"	3	"	
X	4718	" "	"	"	"	1^h26 W	7:21:00-7:36:00	"	"	" "	"	"	"	"	"	"	"	"	
	4719	S. Gal. Pole	$0^h53.6$	-21°00	"	1^h19 W	7:52:00-8:07:00	"	"	" "	"	"	"	"	"	"	"	"	
	4720	" " "	"	"	"	1^h38 W	8:11:00-8:26:00	"	"	" "	"	"	"	"	"	"	"	"	
		1971								**1971**								**1971**	
					1971														
	4721	So. Gal. Pole	$0^h15.5^m$	-22°10'	Jan. 18	3^h07^m W	6:47:00-8:00:00	WWV	13"	14x17 IaE	W	D19	4^{min}	68°	N	V. Good	4,5	HG.	
	4722	So. Gal. Pole	$0^h53.6$	-21°00	Jan 19	2^h40 W	6:53:00-8:05:00 P.M. MST.	"	"	" "	"	"	"	"	"	Good	3-4	R.B.	
	4723	So. Gal. Pole	$0^h15.5$	-22°10	Jan 20	2^h32 W	6:55:00-7:15:00	"	"	" 103aO	"	"	"	"	"	"	4	NT	
	4724	" " "	$0^h53.6$	-21°00	"	2^h19 W	7:25:00-7:40:00	"	"	" "	"	"	"	"	"	"	"	"	
	4725	" " "	$0^h04.8$	-25°38	Jan 22	3^h36 W	6:55:00-8:00:00	"	"	" IaE	"	"	"	"	"	"	3+	RB	
	4726	Toba ← 1971 A Reg	$21^h25.5^m$	+21°30'	Mar 16 Tues AM	5^h22^m E	4:53:00-4:58:00	AM. MST	13"	8x10 103aO	"	D19	4^{min}	68	"	Good	3	HG	
	4727	"	"	"	"	5^h07 E	5:10:00-5:15:00	"	"	"	"	"	"	"	"	"	"	"	
	4728	Toba ← Region	21^h44^m	+18°40'	"	5^h10^m E	5:26:00-5:31:00	"	"	"	"	"	"	"	"	"	"	"	
	4729	"	21^h40^m	+21°24'	Mar 18 Thurs AM	5^h27 E	4:56:00-5:02:00	"	"	"	"	D19	4^{min}	68	"	Good	1	"	
	4730	"	"	"	"	5:08 E	5:14:00-5:20:00	"	"	"	"	"	"	"	"	"	"	"	
	4731	Toba ←	$21^h53.5$	+16 35	Tues. AM MAR. 30	4^h57 E	4:50:00-4:53:00		"	4x 5 103aO	"	"	"	"	N	"	2	"	
	4732	"	" " "	" "	" "	4^h52 E	5:05:00-5:07:00		"	" "	"	"	"	"	"	"	"	"	
	4733	← Toba	22^h09^m	+6° 40'	Friday AM April 23	4^h05^m E	4:29:00-4:31:00	AM. MST	"	" "	"	D19	4^{min}	68	"	"	"	"	
	4734	"	"	"	"	3^h53^m E	4:40:00-4:41:00	" "	"	" "	"	"	"	"	"	"	"	"	
	4735	Hoag Minor Planet	9^h11^m	+18°00'	May 13	3^h37^m W	9:40:00-9:50:00	P.M.	"	" "	"	"	"	"	"	Good-	3+	"	Meas + Sent Pos. to Harvard
	4736	" "	"	"	"	3 56 W	10:00:00-10:10:00	"	"	14x17 103aO	"	"	"	"	"	"	"	"	
	4737	80 Cancri	$9^h09.1$	+18°15	May 14	2^h48 W	8:50:00-8:55:00	WWV	"	"	"	"	"	"	"	"	3-4	RB	
	4738	" "	"	"	"	3^h01 W	9:05:00-9:08:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1971	H.A. END	EXPOSURE O.A.D.	WL	INSTR	PLATE	TELESCOPE POSITION	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WETTING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
	4739	80 Cancri	$9^h09.1$	+18°15	May 14	3^h14 W	9:16:00-9:21:00	WWV	13"	4x5 103aO	W	D19	4 min	70°	N	Good	3-4	RB	
	4740	Asteroid 1971 FB	12^h10	+12°25	"	0^h47 W	9:45:00-9:55:00	"	"	8x10 "	"	"	"	"	"	"	"	"	
	4741	" "	"	"	"	1^h12 W	10:10:00-10:20:00	"	"	" "	"	"	"	"	"	"	"	"	
	4742	Toba ←	22^h21^m	-21°00'	May 23 Sunday AM	2^h38^m E	4:11:00-4:12:00 AM, MST.	WWV	13"	4x5 103aO	W	D19	4 min	68°	#6.	Fair	2	#6	
	4743	"	"	"	"	2^h31^m E	4:17:00-4:18:00		"	"	"	"	"	"	"	"	2	"	Morning Twilight fog
G270	4744	21 Ceti G270	$0^h51.8$	-9°01	Sept 20	0^h34 E	12:25:00-12:46:00	WWV	"	14x17 103aO	"	"	"	"	"	Good	3-2	NT	
"	4745	" "	"	"	"	0^h50 W	12:55:00-2:10:00	"	"	" IaE	"	"	"	"	"	"	3	"	
"	4746	" "	"	"	"	1^h15 W	2:15:00-2:35:00	"	"	" 103aO	"	"	"	"	"	"	3-4	"	
	4747	MP. #610 Valeska	0^h30^m	-0°45'	Oct. 10/11 Sun. eve	1^h13^m E	9:59:05-10:29:05	WWV	"	8x8 103aO	"	D19	5 min	68°	N	Good-	4,3	#6	Drive 0.17 mm in PA 285°
	4748	"	"	"	"	0^h17^m E	10:55:00-11:25:00	"	"	"	"	"	"	"	"	Fair To Poor	"	"	" 0.180 mm in PA 280
	4749	Fast Moving M.P. Kohoutek	2^h01	+9°50'	Oct. 29/30	1^h46 W	13:28:00-13:42:00	"	"	"	"	"	4 min	"	7	Good	3	"	Drive 0.023 mm in 222°
	4750	"	"	"	"	2^h17 W	14:02:00-14:16:00	"	"	"	"	"	"	"	"	"	"	"	Bright Moonlight
	4751	"	"	"	"	2 51 W	14:39:00-14:49:00	"	"	"	"	"	"	"	N	"	"	"	
	4752	#1168 Brandia	1^h38^m	+11°00'	Nov. 9/10	MT	10:39:00-10:59:00	"	"	"	"	"	"	"		Fair+	3-	"	Drive .108 mm in PA 213°
	4753	"	"	"	"	1^h00^m W	11:34:10-11:54:10		"	"	"	"	"	"		"	"	"	Driv. .109 mm in PA 213
	4754	Kahautek Obj	0^h47^m	-12°00	Nov. 19/20	3^h49 W	13:00:08-13:10:08	"	"	"	"	"	"	"	"	Good	3	"	Drive 0.325 mm in PA 224°
	4755	"	"	"	"	4 13 W	13:24:00-13:34:00	"	"	"	"	"	"	"	"	"	"	"	" 0.311 mm " " "
	4756	GC 1834, Cetus	$1^h28.5$	-5°13	Dec 20	0^h11 W	6:55:00-8:10:00	"	"	14x17 IaE	"	"	"	"	"	"	4	"	
G271	4757	" "	"	"		0^h36 W	8:15:00-8:35:00	"	"	" 103aO	"	"	"	"	"	"	"	"	
G271	4758	" "	"	"		1^h01 W	8:40:00-9:00:00	"	"	" "	"	"	"	"	"	"	"	"	
G271	4759	Orion Nebula	$5^h35.5$	-5°50'	Dec 20-21	1^h16^m E	10:41:00-10:51:00	"	"	8x8 103aO	"	D19	5 min	68	N	Good	3+	#6	PA-ρ drive Unit.
					1972														
1972	4760	GC 716 Cetus	$0^h33.5$	-15°15	Jan 6	1^h28 W	7:05:00-7:25:00	WWV	13"	14x17 103aO	W	D19	4 min	70	N	Good	3+	NT	Trail
	4761	" "	"	"	"	1^h53 W	7:30:08-7:50:08	"	"	" "	"	"	"	"	"	"	"	"	No Trail
	4762	GC 1605 Cetus	$1^h17.5$	-16°04	"	1^h52 W	8:13:20-8:33:20	"	"	" "	"	"	"	"	"	"	"	"	Trail
	4763	" "	"	"	"	2^h16 W	8:37:00-8:57:00	"	"	" "	"	"	"	"	"	"	"	"	No Trail
	4764	m.p. #169 Zelia	8^h04^m	+27°27'	Feb. 3	1^h18 E	10:01:00-10:21:00	"	"	8x8 "	"	"	"	"	"	Good then Haze+Cl.	3	#6	Driven at 0.544 Pa 270° /hr
	4765	"	"	"	"	0 50 E	10:35:00-10:50:00	"	"	"	"	"	"	"	"	"	3	"	
✓	4766	Search For Tanner	22^h50^m	-7°15'	Feb 5 Sat eve	5^h13^m W	7:17:00-7:32:30	"	"	14x17	E	"	"	"	S	Cloud Bank West	1	"	
	4767	"	23^h44^m	-8°40'	"	5^h00^m W	7:57:00-8:12:00	"	"	"	E	"	"	"	S	"	1	"	
✓	4768	Focus Plate	6^h43^m	-0°50'	Feb 10	0^h50 W	10:20-10:44	"	"	3¼x4¼	W	"	"	"	N	Good	3	"	10 focus settings 1 mm apart, in ½ turn focus wheel
	4769	#440 Theodora	10^h25^m	+7°18'	Mar 7	1^h08 E	10:03:00-10:43:00	"	"	8x8 103aO	"	D19	5 min	67	"	Good	3		Driven in PA and ρ .0049 mm/min.
	4770	"	"	"	"	0 23 E	10:58:00-11:28:00	"	"	"	"	"	"	"	"	"	"		

13"

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1972	H.A END	EXPOSURE O.A.D	W.e.	INSTR	PLATE	TELESCOPE POSITION	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	RESULTS	SEEING TRANS	SEEING STEDO	OBSER.	REMARKS
4771	Temple Region	12h 15m	+15°09'	Mar 7/8	1h 43m E	11:44:00-11:59:00	WWV	13"	4x5 103aO	W	D19	5min	68	N	Good	3	HGiclos	
4772	" Gerhel's	"	"	"	1h 21m E	12:06:00-12:20:00	"	"	"	"	"	"	"	"	"	"	"	Drive 0.0116 mm/min in 339.6 PA
4773	2 m.p's (Marsden)	11h 26m	+3°50'	Mar 18/19 Sat-Sun	1h 23m E	10:25:00-10:45:00	"	"	8x8 103aO	"	"	"	"	"	Good	3	"	
4774	"	"	"	"	0h 59m E	11:00:00-11:10:00	"	"	8x10 "	"	"	"	"	"	"	"	"	Drive 0.0166 mm/min PA 339.6
4775	" Gerhel's	"	"	"	0h 30m E	11:19:00-11:39:00	"	"	8x8 "	"	"	"	"	"	"	"	"	Drive 0.00333 mm/min in PA 293.6
4776	~~Comet Suspect Palomar~~	12h 03.5m	-2°30'	"	0h 18m E	12:05:05-12:25:05	"	"	8x8 "	"	"	"	"	"	Good	3	"	
4777	Gerhel's	"	"	"	0h 02m W	12:37:00-12:47:00	"	"	4x5 "	"	"	"	"	"	"	"	"	Drive 0.0044 mm/min in PA 293.6
4778	"	"	"	"	0h 32m W	12:56:00-1:16:00	"	"	8x8 "	"	"	"	"	"	Good	3	"	Moonlight
4779	Gerhel's #1 m.p.	11h 35m	+5°00'	Mar 20/21 Mon-Tues	1h 16m E	10:37:05-10:53:05	"	"	"	"	"	"	"	"	"	"	"	"
4780	"	"	"	"	0h 50m E	11:05:00-11:20:00	"	"	"	"	"	"	"	"	"	"	"	"
4781	Gerhel's	12h 01m	-2°30'	"	0h 43 E	11:38:00-11:53:00	"	"	"	"	"	"	"	"	"	"	"	"
4782	"	"	"	"	0h 10m E	12:05:00-12:25:00	"	"	"	"	"	"	"	"	"	3+	RB	Sent to Harlan Smith - McDonald Eclipse '73 Region
4783	GC 8634 Gem.	6h 34.8	+23°39	Apr 3	2h 01 W	8:08:00-8:12:00	"	"	14x17 "	"	"	4 min	"	"	"	"	"	
4784	" "	"	"	"	2h 07 W	8:16:00-8:18:00	"	"	"	"	"	"	"	"	"	"	"	
4785	" "	"	"	"	2h 31 W	8:25:00-8:42:00	"	"	" IaE	"	"	"	"	"	Good	3	HGiclos	dimen .006 mm/mm PA 345°
4786	1972 FA Gehrel #1 m.p.	11h 17m	+11°20'	Apr 17/18 Tuesday	0h 06m E	10:18:10-10:39:10	"	"	8x8 103aO	"	"	5min	68	"	"	"	"	"
4787	1972 FA Gehrel #1 m.p.	"	"	"	0h 27 W	10:52:00-11:12:00	"	"	"	"	"	"	"	"	"	"	"	dimen .0027 mm/mm PA 292.7°
4788	Gehrel's	11h 42m	0°00'	"	0h 52 W	11:38:00-11:58:00	"	"	"	"	"	"	"	"	"	"	"	" "
4789	Gehrel	"	"	"	1h 34m W	12:10:00-12:40:00	"	"	"	"	"	"	"	"	"	"	"	Via Phone from Marsden
4790	Fujikama & Suspect	21h 20m	+30°30'	May 12/13 Sat AM	2h 52m E	3:30:00-3:35:00 AM MST	"	"	8x10 103aO	"	"	4min	"	"	Good	2	"	
4791	"	"	"	"	2h 22 E	3:48:00-4:03:00	"	"	14x17 103aO	"	"	"	"	"	"	"	"	
4792	"	"	"	"	2h 13m E	3:06:00-3:11:00	"	"	8x10 103aO	"	"	"	"	"	Good	1	"	Low in west.
4793	Bradfield Region	7h 46.5m	-17°30'	May 15/16	3h 54 W	8:32:00-8:34:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
4794	"	"	"	"	4:04 W	8:40:00-8:44:00	"	"	"	"	"	"	"	"	Good	"	"	
4795	Sandage	15h 26.3	+21°28'	June 16/17	0h 54 E	9:14:00-9:22:00	"	"	8x10 103aO	"	"	"	"	"	"	"	"	
4796	"	"	"	"	0h 38m E	9:33:00-9:37:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
4797	"	"	"	"	0h 22m E	9:44:00-9:51:00	"	"	8x10 "	"	"	"	"	"	"	"	"	
4798	"	"	"	"	1h 32m W	11:23:00-11:43:00	"	"	" "	"	"	"	"	"	Good to Fair	"	"	
4799	Sandage	15h 22m	+22°37'	June 18/19	1h 28 W	11:23:00-11:30:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
4800	"	"	"	"	1h 40 W	11:36:00-11:42:00	"	"	"	"	"	"	"	"	Good	3	HG MLK	
4801	"	15h 12.3	+24°	July 10/11	0h 43m W	9:06:00-9:10:00	"	"	4x5 103aO	"	"	5min	"	"	"	"	"	
4802	"	"	"	"	1h 19m W	9:29:00-9:46:00	"	"	"	"	"	"	"	"	"	"	"	
4803	"	"	"	"	1h 36m W	9:55:00-10:01:00	"	"	"	"	"	"	"	"	"	2	NT	
4804	Huchra Obj.	2h 29.0	+35°56	July 21/22	3h 04 E	4:11:00-4:12:00	"	"	14x17 103aO	"	"	"	"	"	"	"	"	
4805	" "	"	"	"	2h 55 E	4:13:00-4:18:00 4:20:00-4:26:00 4:26:00-4:27:00	"	"	" "	"	"	"	"	"	"	"	"	

	NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1972	H.A. END	EXPOSURE MST ~~G.A.D~~	W.e.	INST.	PLATE	TELESCOPE POSITION	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	EVENINGS	SEEING TRANS.	SEEING STEAD.	OBSV.	REMARKS
	4806	Sandage ⊕	15h 10m	+24° 30'	July 27/28	1h 44m W	8:55:00 - 9:00:00	WWV	13"	4X5 103aO	W	D19	5min	68	N	Good	3	HG MLK	
	4807	"	"	"	"	2h 03m W	9:05:00 - 9:20:00	"	"	"	"	"	"	"	"	"	"	"	
	4808	"	"	"	"	2h 16m W	9:27:00 - 9:32:00	"	"	"	"	"	"	"	N	"	"	"	
Tempel?	4809	Temple (1) ⊕ Req.	14h 39m	-19° 24'	Aug. 10/11	4h 03m W	9:23:00 - 9:44:00	"	"	8X8 103aO	E	"	"	"	S	Good	3	"	
	4810	MP Search	21h 18m	-19° 00'	"	1h 28m E	10:28:00 - 10:51:00	"	"	"	W	"	"	"	N	Fair -	3	"	
	4811	"	"	"	Aug 13/14	0h 21m E	11:36:00 - 11:56:00	"	"	"	"	"	"	"	"	Good	3	"	
	4812		00h 22m	+1° 38'	" 14/15	1h 07m W	4:00:18 - 4:20:18	"	"	8X10 103aO	"	"			"	Good	3	"	
	4813	⊕ Sandage	15h 25m	+24° 12'	Sept. 7	3h 28m W	8:06:00 - 8:12:00	"	"	4X5 103aO	W	D19	5min	"	N	Good	3+	HG	
	4814	"	"	"	"	3h 37m W	8:20:00 - 8:32:00	"	"	"	"	"	"	"	"	"	"	"	
	4815		19h 18m	+00° 15'	"	0h 11m W	8:49:00 - 8:50:00	"	"	"	"	"	"	"	"	"	"	"	
	4816		19h 44m	+46° 30'	"	0h 06m E	9:03:00 - 9:04:00	"	"	"	"	"	"	"	"	"	"	"	
	4817		"	"	"	0h 08m W	9:12:00 - 9:13:00	"	"	"	"	"	"	"	"	"	"	"	
	4818		0h 09m	+67° 20'	"	4h 05m E	9:23:00 - 9:24:00	"	"	"	"	"	"	"	"	"	"	"	
	4819	⊕ Sandage	16h 30m	+24° 10'	Sept 11/12	3h 18m W	8:44:00 - 8:54:00	"	"	"	"	"	"	"	"	Good	3	"	
	4820	Klemola Object	23h 24m	-5° 00'	Sept 14/15	0h 48m E	11:15:00 - 11:30:00	"	"	"	"	"	"	"	"	Good	3	"	Driven 0.343mm in PA 29°.5
	4821	"	23 35	-5 08	"	0 31 E	11:48:00 - 11:58:00	"	"	8X8 103aO	"	"	"	"	"	"	"	"	
	4822	⊕ Sandage	15h 38'	+23° 40'	Oct. 1 Sunday Eve	4h 22m W	7:36:00 - 7:46:00	"	"	"	"	"	"	"	"	"	"		
	4823	"	"	"	"	4h 45m W	7:54:00 - 8:10:00	"	"	4X5 103aO	"	"	"	"	"	Good Fair to good	3+	"	
	4824	Aquila S.A.	19h 00m	+5° 00'	"	2h 41m W	9:06:00 - 9:26:00	"	"	"	"	"	"	"	"	"	"	"	Driven in PA, 0° 0.08mm Gain step #3, ab 000
	4825	"	"	"	"	3h 00 W	9:36:00 - 9:46:00	"	"	8X8	"	"	"	"	"	Good	"	"	
	4826	1972 RA, Klemola Obj	0h 47m	-18° 02'	"	1h 43 E	10:36:00 - 10:51:00	"	"	4X5	"	"	"	"	"	"	"	"	Drive 33°.2 SE, 0.43mm Gain step #9, ab 200
	4827	"	"	"	"	1h 25m E	11:03:00 - 11:09:00	"	"	8X8	"	"	"	"	"	"	"	"	
	4828	"	"	"	"	0h 54m E	11:24:00 - 11:39:00	"	"	8X10	"	"	"	"	"	"	"	"	Drive 33°.2 SE, 0.44mm Gain step #9, ab 200
	4829	Gehrels #2, #3 Obj	23h 38.7m	-12° 00'	Oct. 8/9 Sun Eve	0h 49m W	11:11:00 - 11:46:00	"	"	8X8	"	"	"	"	"	Good	3	"	Driven Step # 8, ab 600 0.65mm during exp SW 7.7 from Due South.
	4830	"	"	"	"	1h 39 W	12:01:00 - 12:36:00	"	"	"	"	"	"	"	"	to Fair at end	"	"	
	4831	Aquila S.A.	19h 00m	+5° 00'	Nov. 2/3 Hours.	4h 34m W	8:40:00 - 9:00:00	"	"	"	"	"	"	"	"	Good	2	"	Drive in PA +ρ = 1m/day Step # 4 at 300 ohms, 0°
	4832	Search for MPs	2h 41m	+15° 08	"	2h 43m E	9:26:00 - 9:46:00	"	"	8X8	"	"	"	"	"	"	3	"	Drive SW, 10° from Due South at Gain # 8, 200 ohms, 0.27mm
	4833	"	"	"	"	2h 04 E	9:58:00 - 10:18:00	"	"	"	"	"	"	"	"	"	"	"	"
	4834	1972RA Klemola Obj	3h 19m	-28° 20'	"	2h 15m E	10:35:00 - 10:45:00	"	"	"	"	"	"	"	"	"	"	"	
	4835	"	"	"	"	1h 53m E	10:58:00 - 11:08:00	"	"	4X5	"	"	"	"	"	"	"	"	
	4836	⊕ Kojima	8h 16m	-20° 00'	Nov 5/6 Monday	0h 37m E	4:55:00 - 5:05:00	"	"	"	"	"	"	"	"	Good	2	"	
	4837	⊕ Kojima	"	"	"	0h 18m E	5:15:00 - 5:25:00	"	"	4X5	"	"	"	"	"	"	"	"	
	4838	⊕ Graham Suspect	19h 10.3	+32° 10'	Nov 9	2h 39 W	6:55:00 - 6:59:00	"	"	8X10	"	"	"	"	"	"	3-4	RB	No Comet found.
	4839	" "	"	"	"	2h 56 W	7:12:00 - 7:16:00	"	"	"	"	"	"	"	"	"	"	"	
	4840	" "	18h 52.0	+36° 54	"	3h 33 W	7:30:00 - 7:34:00	"	"	"	"	"	"	"	"	"	"	"	

1972 1973

	Neg #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1972	H.A. END	EXPOSURE ~~G.A.D.~~ MST-AM-PM	W.E.	Inst.	PLATE	TELESCOPE POSITION	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD.	OBSV.	REMARKS
	4841	W Graham Suspect	18h52.0	+36°54	Nov 9	3h47 W	7:44:00-7:48:00	WWV	13"	8x10 103aO	W	D19	4 min	70°	N	Good	3	R.B.	
	4842	Kojima E	8h09m	-20°25'	Nov. 9/10	0h17m E	4:58:00-5:02:00 AM MST	WWV	"	4x5, 103aO	W	D19	5 min	68°F	N	Good	3	H Giclas	
	4843	"	"		"	0h05m E	5:10:00-5:14:00	"	"	" "	"	"	"	"	"	"	"	"	
G272	4844	Tau Ceti	1h41.7	-16°12	Nov 29	0h42 E	8:30:00-8:50:00	"	"	14x17 103aO	"	"	4 min	"	"	"	3-	NT	
"	4845	" "	"	"	"	0h43 W	9:00:00-10:15:00	"	"	" IaE	"	"	"	"	"	"	2-1	"	
"	4846	" "	"	"	"	1h09 W	10:21:00-10:41:00	"	"	" 103aO	"	"	"	"	"	"	1	"	
	4847	Lines W Susp.	1h19.7	+3°15'	"	1h51 W	10:56:10-11:01:10	"	"	8x10 "	"	"	"	"	"	"	1-2	"	No Comet found
	4848	" "	"	"	"	2h12 W	11:16:10-11:21:10	"	"	" "	"	"	"	"	"	"	"	"	" " "
G272	4849	Tau Ceti	1h41.7	-16°12	Dec 3		8:00:00-9:15:00	"	"	14x17 IaE	"	"	"	"	"	"	2	RB	
"	4850	" "	"	"	"		9:28:00-9:48:00	"	"	" 103aO	"	"	"	"	"	"	"	"	
	4851	Kojima E	6h ~~25~~m	-24°00'	Dec 3/4	0h02m E	2:33:00-2:35:00		"	4x5 103aO	"	"	"	"	"	Good-	3	HLG	
	4852	Kojima E	6h 59m	"	"	0h18m W	2:45:00-2:50:00		"	" "	"	"	"	"	"	"	"	HLG	
	4853	Wild F.M. Obj	1h55m	+51°00'	Dec. 14/15	2h19m W	11:03:00-11:08:00	"	"	" "	"	"	5 min	"	"	Good	2+	"	
	4854	"	"	"	"	2h33m W	11:17:00-11:22:00	"	"	" "	"	"	4½ min	"	"	"	"	"	
	4855	"	"	"	"	2h45m W	11:29:00-11:34:00	"	"	" "	"	"	"	"	"	"	"	"	
1973					1973														
	4856	m.p. #2 Pallas	14h48m	0°00'	Jan 23 Tues AM	2h07m E	4:59:00-5:01:00 AM MST	"	"	4x5 103aO	"	"	4½ m	"	"	Good	2-	#6	
	4857	"	"	"	"	1h21m E	5:44:00-5:46:00	"	"	"	"	"	"	"	"	"	"	"	
	4858	Kojima E 1972d	2h25.0m	+3°10'	Feb. 25/26 Sunday Eve	3h46m W	8:12:00-8:16:00 PM MST WWV	"	"	"	"	"	"	"	"	Good- Fair	2-	"	
	4859	"	"	"	"	3h58m W	8:26:00-8:30:00	"	"	"	"	"	"	"	"	"	"	"	
	4860	Heck-Sausa E 1973a	10h52m	+39°00'	"	4h13m W	8:41:00-8:45:00	"	"	"	"	"	"	"	"	Good-	"	"	
	4861	"	"	"	"	3h58m W	8:58:00-9:02:00	"	"	"	"	"	"	"	"	"	"	"	
	4862	"	10h30m	+42°00'	Mar. 3/4 Sat. Eve	1h39m E	10:24:00-10:34:00	"	"	"	"	"	5 min	"	"	Good	2	"	
	4863	"	"	"	"	1h16m E	10:47:00-10:57:00	"	"	"	"	"	"	"	"	"	"	"	
	4864	E Kohoutek 1973e	10h55m	+26°38'	"	1h19m E	11:09:00-11:19:00	"	"	"	"	"	"	"	"	"	"	"	
	4865	"	"	"	"	1h00m E	11:28:00-11:38:00	"	"	"	"	"	"	"	"	"	"	"	
	4866	E Kohoutek 1973e	8h40m	+48°25'	Mar 25/26	0h23m E	8:20:00-8:28-	"	"	8x8 103aO	"	"	"	"	"	Good	3+	"	Drive NW 0.38mm 63° N to W, #8, 960
	4867		"	"	"	0h04m W	8:40:00-9:00:00	"	"	8x8 "	"	"	"	"	"	"	"	"	"
	4868	"	"	"	"	0h25m W	9:11:00-9:21:00	"	"	8x10 "	"	"	"	"	"	"	"	"	"
	4869	"	"	"	"	0h55m W	9:32:00-9:52:00	"	"	8x8 "	"	"	"	"	"	"	"	"	"
	4870	Wild Obj	10h07m	+20°40'	"	0h18m W	10:22:00-10:42:00	"	"	" "	"	"	"	"	"	Good	"	"	Drive 0.28mm 45° SW. #7, 200
	4871	"	"	"	"	1h07m W	10:55:00-11:25:00	"	"	" "	"	"	"	"	"	"	"	"	"
	4872	Kohoutek E 1973e	7h26m	+55°20'	Apr. 8/9	2h19m W	9:01:00-9:05:00	"	"	4x5 103aO	"	"	"	"	"	Good	3	"	drive in PA, p N/W
	4873		"	"	"	2h47m W	9:27:00-9:37:00	"	"	8x8 "	"	"	"	"	"	"	"	"	#9 ~~960~~. 550

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	1973 DATE	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST.	PLATE		TELESCOPE POSITION	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
4874	Kohoutek & 1973 e	7h26m	+55°20'	Apr. 8/9 Sunday Eve	3h04m W	9:47:00-9:51:00	WWV	13"	4x5	103aO	W	D19	5min	68°	N	Good	3	HG.	
4875	Kohoutek & 1973 F	8h06.5m	+6°40'	"	2h44m W	10:05:00-10:11:00	"	"	"		"	"	"	"	"	"	"	"	
4876	"	"	"	"	2h58m W	10:17:00-10:23:00	"	"	"		"	"	"	"	"	"	"	"	
4877	" 1973f	8h05m	+7°30'	Apr. 22/23 Sunday am	2h10m W	8:29:00-8:41:00	"	"	4x5	103aO	"	"	"	"	"	Good	2	"	
4878	"	"	"	"	2h29m W	8:48:00-9:00:00	"	"	"		"	"	"	"	"	"	"	"	
4879	Wild Object	9h54m	+12°10'	"	1h13m W	9:13:00-9:33:00	"	"	"		"	"	"	"	"	"	"	"	
4880	"	"	"	"	1h40m W	9:40:00-10:00:00	"	"	"		"	"	"	"	"	"	"	"	
4881	Special Klemola Obj. See Marsden Letter	13h22.5m	+37°52'	"	1h23m E	10:14:00-10:26:00	"	"	8x10	103aO	"	"	"	"	"	"	3	"	
4882	"	"	"	"	0h46m E	10:45:00-11:00:00	"	"	8x8	"	"	"	"	"	"	"	"	"	drive in PA + dist #8, at 830 sec.
4883	"	"	"	"	0h18 E	11:14:00-11:29:00	"	"	"	"	"	"	"	"	"	"	"	"	" 48° NW
4884	"	"	"	"	0h01m W	11:40:00-11:50:00	"	"	"	"	"	"	"	"	"	"	"	"	drive in PA + D #7, at 800 sec.
4885	"	"	"	"	0h20m W	11:56:00-12:08:00	"	"	8x10	"	"	"	"	"	"	"	"	"	
4886	"	13h48.8m	+35°05'	Apr. 28/29 Sat-Sun	0h10m W	11:31:00-12:01:00	"	"	14x17		"	"	"	"	"	Good	3	"	
4887	"	13h31m	+34°00'	"	1h17m W	12:20:00-12:50:00	"	"	8x10		"	"	"	"	"	"	"	"	
4888	Search for Huchra Comet 1973h	14h16m	+27°00	May 10/11	0h14m E	11:12:00-11:16:00	"	"	4x5	103aO	"	"	"	"	"	Good	3	"	
4889	"	"	"	"	0h02m E	11:24:00-11:28:00	"	"	"		"	"	"	"	"	"	"	"	
4890	"	14h01m	+22°48'	May 22/23	0h36m E	9:47:00-9:52:00	"	"	"		"	"	"	"	"	Good	3	"	
4891	"	"	"	"	0h22m E	10:00:00-10:06:00	"	"	"		"	"	"	"	"	"	"	"	
4892	"	13h59m	+21°40'	May 24/25	0h03 W	10:00:00-10:21:00	"	"	8x8	103aO	"	"	"	"	"	Good	3	"	drive in PA 69.8° #7, 500 ohms SW
4893	"	"	"	"	0h35m W	10:34:00-10:54:00	"	"	"		"	"	"	"	"	"	"	"	"
4894	HUCHRA (1973h)	13h47.8	+10°30'	June 18	0h37m W	8:55:00-9:05:00	"		4x5	103aO	"	"	"	"	"	Good	3	"	
4895	Tuttle-Giacobini Kresak	11h29m	+20°50	"	3h35m W	9:16:00-9:47:00	"		8x8	103aO	"	"	"	"	"	"	"	"	
4896	"	"	"	"	4h20m W	9:58:00-10:30:00	"		8x8	"	"	"	"	"	"	"	"	"	
4897	Huchra (1973h)	13h47.8	+10°30'	"	2h21m W	10:40:00-10:50:00	"		4x5	"	"	"	"	"	"	"	"	"	
4898	"	13h47m	+8°40'	June 23/24	2h29m W	9:58:00-10:38:00			8x8	"	"	D19	5min	68°	N	Good	3	"	Step #8, 900 OHMS
4899	"	"	"	"	3h22m W	10:50:00-11:31:00			"	"	"	"	"	"	"	"	"	"	
4900	Tuttle-Giacobini Kresak	12h30.0m	+16°17'	July 3.2	3h40m W	9:35:00-9:55:00			"	"	"	"	"	"	"	"	"	"	Step #8, 910 OHMS
4901	"	"	"	"	4h15m W	10:10:00-10:30:00			"	"	"	"	"	"	"	"	"	"	"
4902	& CLARK (1973i)	21h11m	-36°20'	July 6.	0h48m W	3:23:00-3:33:00			4x5	"	"	"	"	"	"	Poor	2	"	
4903	"	"	"	"	1h10m W	3:43:00-3:53:00			"	"	"	"	"	"	"	"	"	"	
4904	M.P. 914 Palisana	22h05m	+25°23'	"	0h29m W	4:02:00-4:07:00			"	"	"	"	"	"	"	"	"	"	
4905	& CLARK (1973i)	21h13m	-37°00'	July 8/9	0h56m W	3:17:00-3:29:00			"	"	"	"	"	"	"	Good	2	"	
4906	Sandage & 1973K	1h50m	+22°00'	"	3h17m W	3:41:00-3:55:00			"	"	"	"	"	"	"	Good	"	"	
4907	Clark & (1973i)	21h13m	-37°00'	July 9/10	0h51m W	2:54:00-3:20:00			4x5	"	"	"	"	"	"	"	"	"	
4908	Sandage & (1973K)	1h50m	+22°00'	"	3h21m W	3:31:00-3:47:00			8x10	"	"	"	"	"	"	"	3	"	

	NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	1973 DATE	H.A. END	EXPOSURE MST-AM-PM	W.E	INST.	PLATE	TELE. POSITION	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
	4909	Mike's & Suspect	22h54m	+36°20'	July 20/21	0h04m E	3:19:00-3:24:00 AM	W.W.V.	13"	8x10 103aO	W	D19	5min	68°	N	Good	2	H.Giles	M.P found
	4910	"	"	"	"	0h11m W	3:33:00-3:38:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
	4911	& Tuttle-Gia.-Kresak	13h48m	+8°40'	" 21/22	3h07m W	8:55:00-9:25:00	"	"	" "	"	"	"	"	"	Good	3	"	drive in P.A. & step # 8, 840 ohms
	4912	"	"	"	"	3h38m W	9:36:00-9:56:00	"	"	" "	"	"	"	"	"	"	"	"	"
	4913	GC 25106, Herc.	18h21.1	+14°40	July 25	0h54 W	11:07:00-11:27:00	"	"	14x17 103aO	"	"	4 min	"	"	Good	3	NT	
	4914	"	"	"	"	1h17 W	11:29:00-11:50:00	"	"	" "	"	"	"	"	"	"	3	"	
	4915	GC 26163, Aquila.	18h59.5	+12°28	"	1h24 E	12:15:00-12:35:00	"	"	" "	"	"	"	"	"	"	3-4	"	
	4916	"	"	"	"	1h00 E	12:39:00-12:59:00	"	"	" "	"	"	"	"	"	"	3-4	"	
G273	4917	ω' Aquarii	23h37.2	-14°30	"	1h19 E	2:10:00-2:30:00	"	"	" "	"	"	"	"	"	"	3	"	
G273	4918	"	"	"	"	0h57 E	2:32:00-2:52:00	"	"	" "	"	"	"	"	"	"	3-1	"	moist air front arrived at mid exposure; seeing → 1
	4919	Helin Object	20h26m	-7°35'	Aug 31 Sept 1	0h34m E	9:24:00-9:40:00	"	"	8x8 103aO	"	"	5min	"	"	Fair	3	H.Giles	Drive Step # 7 200 ohms to 90° 18° West of Due South
	4920	"	"	"	"	0h08m E	9:51:00-10:05:00	"	"	"	"	"	"	"	"	"	"	"	"
	4921	Search for m.p.	22h31.5m	+2°	"	1h30m E	10:31:00-10:51:00	"	"	"	"	"	"	"	"	"	"	"	Drive Step # 9, 200 ohms 45° S.W. to 180°
	4922	"	"	"	"	0h58m E	11:02:00-11:22:00	"	"	"	"	"	"	"	"	"	"	"	
	4923	Tuttle-Giacobini-Kresak (1973b)	16h53m	-10°00'	Sept 17/18	2h39m W	7:54:00-8:14:00	"	"	8x8 103aO	"	D19	5min	68°	"	Good	3+	"	Drive SE #8 at 100 ohms PA 16.3° to 180°
	4924	"	"	"	"	2h57m W	8:19:00-8:31:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
	4925	"	"	"	"	3h21m W	8:35:00-8:55:00	"	"	8x8 103aO	"	"	"	"	"	"	"	"	Drive SE #8 at 100 ohms PA 16.3° to 180°
	4926	Search for m.p..	23h45m	+0°10'	"	2h51m E	9:17:00-9:37:00	"	"	"	"	"	"	"	"	"	"	"	Drive NW #9 -200 ohms PA 16.3°
	4927	"	"	"	"	2h14m E	9:49:00-10:07:00	"	"	"	"	"	"	"	"	"	"	"	" "
	4928	Tuttle-Gia.-Kesak	16h53m	-10°00'	Sept 18/19	3h27m W	8:00:00-9:00:00	"	"	"	"	"	"	"	"	Good	3+	"	Drive #8-100 PA 16.3° SE to 180°
	4929	Search for m.p.	22h16.5m	+8°08'	"	1h15m E	9:20:00-9:40:00	"	"	"	"	"	"	"	"	"	"	"	Drive #9-100 PA 16.3 SE to 180
	4930	"	"	"	"	0h43m E	10:00:00-10:20:00	"	"	"	"	"	"	"	"	"	"	"	"
	4931	Kohoutek 1973f	10h33.5m	-1°25'	Oct. 2/3	5h12m E	4:55:00-5:05:00	"	"	8x8 103aO	"	"	"	"	"	Good	2-	"	Drive 22.6 SE, #7 @ 200 ohms
	4932	"	"	"	"	5h04m E	5:11:00-5:13:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
	4933		10h42m	+2°10'	Oct 7/8	4h57m E	4:47:00-5:07:00	"	"	8x8 "	"	"	"	"	"	Fair	2	"	Drive PA and Dist.
	4934		"		"	4h49 E	5:13:00-5:15:00	"	"	4x5 "	"	"	"	"	"	"	"	"	Clouds
	4935	Kohoutek 1973f	10h56m	-4°20'	Oct 16/17	4h48m E	5:00:00-5:04:00	"	"	8x8 "	"	"	4min	"	"	Good	3	"	drive PA 24.3 SW #7 @ 850 Bright Moonlight
	4936	"	"	"	"	4h36m E	5:09:00-5:11:00	"	"	4x5 "	"	"	"	"	"	"	"	"	" "
	4937	mp 1767 Lampland	4h02.4m	+12°00'	Oct 20/21	0h12m W	2:07:00-2:47:00	"	"	8x8 "	"	"	4min	"	"	Good	4	"	Drive 39.8 SW #1 @ 000
	4938	"	"	"	"	1h12m W	3:07:00-3:47:00	"	"	" "	"	"	"	"	"	"	"	"	Moonlight
	4939	Kohoutek & 1973f	11h09m	-5°00'	"	4h28m E	5:11:00-5:13:00	"	"	4x5 "	"	"	5min	"	"	"	2	"	
	4940	"	"	"	"	4h20m E	5:21:00-5:22:00	"	"	" "	"	"	"	"	"	"	"	"	
G273	4941	ω' Agr. G273	23h37.2	-14°30	Oct 22/23	0h22m W	9:06:00-10:20:00	"	"	14x17 IaE	"	"	"	65°	N'cal	Good	3-2	NT	
G273	4942	"	"	"	"	0h48m W	10:25:00-10:46:00	"	"	14x17 103aO	"	"	"	"	"	"	"	"	
	4943	mp 1767 Lampland	4h02.4m	+12°00'	Oct 22/23	1h26m E	12:18:00-1:00:00 ~~11:18:00-12:00:00~~	"	"	8x8 103aO	"	"	5min	"	"	Good	3	H.Giles	Drive 39.8 SW #1 @ 000

	NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	1973 DATE	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST.	PLATE	TELE. POSITION	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
G273	4944	w' Agr. G273	23h 37.2	-14°30	Oct 28/29	0h 01m W	8:20:00-9:35:00	WWV	13"	14X17 IaE	W	D19	4 min	65°	Neal	good	4-3-2	N	
G273	4945	" "	"	"	"	0h 26m W	9:40:00-10:00:00	"	"	14X17 103aO	"	"	"	"	"	"	3-4	"	
	4946	CO -19° 6376, Agr.	22h 55.5	-18°40	Oct 30/31	0h 47m W	9:10:10-9:32:10	0	"	14X17 103aO	"	"	4 min	65°	"	"	2	"	
G275	4947	CO -27° 16339, Sel.	23h 28.2	-27°34	"	0h 47m W	9:43:00-10:05:00	0	"	" "	"	"	"	"	"	"	2	"	
	4948	Gehrels 1973N	1h 20m	+10°00'	Oct 30/31	1h 04m W	12:06:00-12:17:00	"	"	4X5 103aO	"	"	5 min	"	"	Good	2	H. Giles	
	4949	"	"	"	"	1h 34m W	12:31:00-12:47:00	"	"	8X8 "	"	"	"	"	"	"	"	"	Drive P.A. 40.3 SW #2 @ 400
	4950	"	"	"	"	2h 04m W	1:01:00-1:17:00	"	"	" "	"	"	"	"	"	"	"	"	"
	4951	m.p. 1767 Lampland	4h 06m	+13°05'	"	0h 14m W	1:42:00-2:12:00	"	"	14X17 103aO	"	"	"	"	"	"	"	"	
	4952	Gehrels 1973N	1h 20m	+10°00'	Oct 31/Nov 1	3h 25m W	2:23:00-2:33:00	"	"	4X5 103aO	"				"	Good	2,3	"	
	4953	"	"	"	" Thurs AM	3h 45m W	2:42:00-2:52:00	"	"	"	"				"	"	"	"	
	4954	m.p. 1767 Lampland	4h 06m	+13°05	"	1h 47m W	3:10:00-3:41:00	"	"	14X17 103aO	"				"	"	"	"	
	4955	m.p. 1515	4h 35.5m	+24°18'	"	1h 57m W	4:06:00-4:20:00	"	"	8X10 "	"				"	"	"	"	
	4956	"	"	"	"	2h 25m W	4:35:00-4:49:00	"	"	"	"				"	"	"	"	
	4957	Kohoutek 1973f	11h 35m	-8°05'	"	4h 00m E	5:04:00-5:24:00	"	"	8X8 103aO	"				"	"	"	"	Drive PA 24.4 SE #8 @ 200
	4958	"	"	"	"	3h 52m E	5:29:00-5:31:00	"	"	4X5 "	"				"	"	"	"	
	4959	"	"	"	"	3h 45m E	5:37:00-5:39:00	"	"	"	"				"	"	"	"	
	4960	Gehrels 1973N	1h 19m	+9°18'	Nov 4/5	4h 34m W	3:15:00-3:25:00	"	"	"	"				"	Good	3,4	"	
	4961	"	"	"	" Monday AM	4h 58m W	3:35:00-3:45:00	"	"	"	"				"	"	"	"	
	4962	m.p. 1515	4h 35.5m	+24°18'	"	2h 09m W	4:01:00-4:17:00	"	"	8X10 103aO	"				"	"	"	"	
	4963	"	"	"	"	2h 38m W	4:27:00-4:43:00	"	"	"	"				"	"	"	"	
	4964	Kohoutek 1973f	11h 46m	-9°30'	"	3h 49m	5:02:00-5:28:00	"	"	8X8 103aO	"				"	"	3	"	Drive in P.A. 23.8 SE #8 @ 550
	4965	"	"	"	"	3h 43m E	5:33:00-5:34:00	"	"	4X5 "	"				"	"	"	"	
	4966	"	"	"	"	3h 34m E	5:41:00-5:42:00	"	"	" "	"				"	"	"	"	
	4967	"	11h 55m	-11°50'	Nov 8/9	4h 15m E	4:50:00-4:56:00	"	"	8X10 "	"				"	Good To Fair	2+	"	Bright moonlight
	4968	"	12h 00m	-10°40'	Friday AM	4h 06 E	5:10:00-5:11:00	"	"	4X5 "	"				"	"	"	"	"
	4969	"	"	"	"	3 56 E	5:19:00-5:20:00	"	"	" "	"				"	"	"	"	"
	4970	"	"	"	"	3 36 E	5:30:00-5:40:00	"	"	14X17 "	"				"	"	"	"	"
	4971	"	13h 15m	-18°20'	Nov 26/27	3h 38 E	5:13:00-5:38:00	"	"	8X8 "	"				"	Good	1,-	"	drive in PA 20.7 #9 @ 160 elms.
	4972	"	"	"	Tues. AM	3h 32m E	5:43:00-5:44:00	"	"	4X5 "	"				"	"	"	"	
	4973	"	"	"	"	3h 28m E	5:52:00-5:53:00	"	"	" "	"				"	"	"	"	
	4974	"	14h 22m	-23°00'	Dec 7		5:24:00-5:46:00	"	"	8X8 "	"				"	Good	3	"	Drive PA 14° SE #9 @ 440
	4975	"	"	"	Fri AM	3h 54m E	5:55:00-5:56:00	"	"	4X5 "	"				"	"	"	"	
	4976	"	"	"	"	3h 44m E	6:04:00-6:04:30	"	"	" "	"				"	"	"	"	
	4977	"	14h 39	-24°00'	Dec 9	4h 10m E	5:36:00-5:46:00	"	"	8X8 "	"				"	Good	1,2	"	too much Moonlight
	4978	"	14 39	-23°50'	Sun AM	4h 01m E	5:56:00-5:57:20	"	"	14X5 "	"				"	"	"	"	shutter stuck +20 sec
	4979	"	"	"	"	3h 55m E	6:04:00-6:04:30	"	"	" "	"				"	"	"	"	

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	1974 DATE	H.A. END	EXPOSURE MST.-AM-PM	W.E.	INST.	PLATE	Tele. Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
4980	Kohoutek 1973f	21h34m	-10°00'	Jan 10/11 Thurs. Eve	4h00m W	6:39:00-6:39:30	PM WWW	13"	4x5 103aO	E	D19	5m	67°	S	Poor	2	HGicles	
4981a	"	21h39m	-9°30'	"	4h28m W	6h58m-7:06	WWW	"	8x8 "	"	"	"	"	"	Poor	"	"	Drive in PA 18° #9, 730°6
4981b	"	21h34m	-10°00'	"	"	7:00-7:08	"	5" Cooke	8x10 "	"	"	"	"	"	Poor	"	"	
4982	"	"	"	"	5h05m W	7:34-7:44	"	13"	14x17 "	"	"	"	"	"	Poor	"	"	
4983	"	21h45m	-9°15'	Jan 11/12	4h08m W	6:56:00-6:56:30	"	13"	4x5 "	"	"	"	"	"	Fair	2-	"	
4984a	"	"	"	"	4 36	7:08-7:23 P.M. M.S.T.	"	13" and 5" Cooke	14x17 "	"	"	"	"	"	Poor to Fair	1	"	
b									8x10 "									
4985	"	21h30m	-10°20'	"		7:43-7:53	"	13"	8x8 "	"	"	"	"	"	Poor	"	"	drive PA+P Cloudy, Very Poor
4986	"	22h08m	-7°18'	Jan 13/14 Sun Eve	3h36m W	6:39:00-6:39:30	"	"	4x5 "	"	"	"	"	"	Fair	2	"	
4987a	"	"	"	"	4h08m W	6:52:-7:12	"	13"	14x17 "	"	"	"	"	"	Good	"	"	
b								5" Cooke	8x10 "									Red / red filter.
Pr. 4988a	"	"	"	"	5 02 W	7:27-8:07	"	"	14x17 IaE	"	"	"	"	"	"	"	"	
b									8x10 103aO									
4989	"	22h20m	-6°15'	Jan 14/15	3h52m W	7:04:00-7:04:30	"	13"	4x5 103aO	"	"	"	"	"	Fair+	3	"	
4990	"	"	"	"	4h32m W	7:22 to 7:43	"	"	8x8 "	"	"	"	"	"	Good	"	"	drive in PA+P.
4991a	"	"	"	"	4h56m W	7:52 to 8:08	"	13"	14x17 "	"	"	"	"	"	"	"	"	
b								5" Cooke	8x10 "									
4992	"	22h30m	-5°20'	Jan 15/16	3h26m W	6:44:00-6:44:36	"	13"	4x5 103aO	"	"	"	"	"	Good	3	"	
4993	"	"	"	"	3h38m W	6:56:00-6:56:20	"	"	"	"	"	"	"	"	"	"	"	
4994	"	"	"	"	4 05 W	7:11:00-7:13:00	"	"	"	"	"	"	"	"	"	"	"	Mackey Visitor.
4995a	"	"	"	"	4 41 W	7:30 to 8:00	"	13"	14x17 "	"	"	"	"	"	"	"	"	Drive in PA and P. PA 19.8° #9@700
b								5" Cooke	8x10 "									
4996	"	22h36m	-4°00'	"	5 07 W	8:13 to 8:25	"	13"	8x8 "	"	"	"	"	"	"	"	"	
4997	"	22h41m	-4°20'	Jan 16/17	3h29 W	6:54:00 to 6:54:30	"	13"	4x5 "	"	"	"	"	"	Fair	2+	"	
4998a	"	"	"	"	4h22 W	7:17:00 to 7:47:00	"	13"	14x17 "	"	"	"	"	"	"	"	"	Cromer Visitor
b								5" Cooke	8x10 "									
4999a	"	23h00	-1°24	Jan 19/20	4h19 W	7:24:00-7:49:00	"	13"	14x17 "	"	"	"	"	S	Poor	2	R.B.	much haze.
b					4h23 W	7:28:00-7:53:00		5" Cooke	8x10									
5000	"	23h33m	±0°	Jan 21/22 Mon Eve	3h19m W	7:16:00-7:16:30	"	13"	4x5 "	"	"	"	"	"	Good	2	HGicles	
5001	"	23h41m	+1°00'		3h50m W	7:34:00-7:54:00	"	"	8x8 "	"	"	"	"	"	"	"	"	Drive in PA 20° #9@552
5002a	"	23h33m	±0°	"	4h36m W	8:03:00-8:33:00	"	13"	14x17 "	"	"	"	"	"	"	"	"	
b								Cooke	8x10 "									
5003	"	23h43m	+1°18'	Jan 22/23	3h10m W	7:13:00-7:13:30	"	13"	4x5 "	"	"	"	"	"	Good-	2	"	
5004a	"	"	"	"	3h52m W	7:24:00-7:54:00	"	"	14x17 "	"	"	"	"	"	"	"	"	
b								5" Cooke	8x10									
5005	"	23h52m	+2°05'	Jan 23/24	3h13m W	7:21:00-7:21:30	"	13"	4x5 "	"	"	"	"	"	Good	0	"	Very poor steadiness NE wind.
5006a	"	"	"	"	3h52m W	7:31:00-8:00:00	"	"	14x17 "	"	"	"	"	"	"	"	"	
b								5" Cooke	8x10 "									
5007	"	00h01m	+3°	Jan 24/25	3h18m W	7:30:00-7:30:30	"	13"	4x5	"	"	"	"	S	Good	3	"	
5008a	"	"	"	"	3h53m W	7:36:00-8:06:00	"	13"	14x17 "	"	"	"	"	"	"	"	"	
b								5" Cooke	8x10 "									
Pr. 5009a	"	"	"	"	5h07m W	8:21:00-9:21:00	"	"	14x17 IaE	"	"	"	"	"	"	"	"	Pred filter.
b									8x10 103aO									
5010	RV Lyncis	6h52m	+51°20'	"	1h07 E	9:53:00-9:58:00	"	13"	4x5 103aO	W	"	"	"	N	"	"	"	
5011a	Kohoutek (1973f)	0h08.5	+3°40	Jan 25/26	3h35 W	7:20:00-7:50:00	"	13"	14x17	E	"	"	"	S	"	3	R.B.	
b								5" Cooke	8x10 "									
5012	"	0h24m	+5°00'	Jan 27/28	4h14m W	8:39:00-8:39:30	"	13"	4x5 "	"	"	"	"	"	Good	3	HGicles	
5013	"	"	"	"	4h24m W	8:45:00-8:55:00	"	"	14x17 "	"	"	"	"	"	"	"	"	Moonlight.

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	1974 DATE	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST	PLATE	tele Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
5014	RV Lyncis	6h 55m	+51° 20'	Jan 27/28	1h 45m E	9:10:00 - 9:13:00 PM	W W V	13"	4X5 103aO	W	D19	5min	66°	N	Good	3	HGdes	
5015	⇐ Kohoutek 1973f	1h 24m	+10°	Feb. 5/6	3h 16m W	8:06:00 - 8:06:30	"	"	"	E	"	"	"	S	Good	1	"	Bright Moonlight Plate Fogged.
5016	"	1h 23m	+10° 30'	"	3h 42m W	8:24:00 - 8:32:00	"	"	8X8 "	"	"	"	"	N	"	"	"	
5017	RV Lyncis	6h 57m	+51° 20'	"	1h 32m E	8:46:00 - 8:50:00	"	"	4X5 "	W	"	"	"	"	Good	3+	"	Drive in PA 16:8 #9@80
5018	⇐ Kohoutek 1973f	1h 50m	+11° 50'	Feb 10/11	2h 59m W	7:55:00 - 7:55:30	"	"	4X5 "	"	"	"	"	"	"	"	"	
5019	"	1h 53m	+12° 00'	" Sunrise	3h 38m W	8:07:30 - 8:37:30	"	"	8X8 "	"	"	"	"	"	"	"	"	
5020	RV Lyncis	6h 54m	+51° 00'	"	1h 00m E	8:55:00 - 9:00:00	"	"	4X5 "	"	"	"	"	"	"	"	"	
5021	SA #71	3h 14m	+15° 20'	"	3h 10m W	9:16:00 - 9:31:00	"	"	14X17 "	"	"	"	"	S	good	3	N	Low Altitude
5022	CD -28° 541, Sc	1 41.1	-27° 50'	Feb 14/15	3h 36m W	7:25:00 - 7:45:00	"	"	14X17 "	E	"	"	"	N	"	3+	N	
5023	CD -20 1026, Lep	5 02.8	-19 34	Feb 14/15	0h 46m W	8:15:15 - 8:36:15	"	"	14X17 "	W	"	"	"	"	"	"	N	
5024	"	"	"	Feb 14/15	1h 15m W	8:45:00 - 9:05:00	"	"	14X17 "	"	"	"	"	S	Fair	1	HGdes	
5025	⇐ Bradfield 1974b	1h 42m	-11° 00'	Mar 14/15	5h 11m W	7:50:00 - 7:53:00	"	"	4X5 103aO	E	"	"	"	"	Good	2	"	no comet, Exp too short
5026	Kohoutek ⇐ Region	3h 32m	+18°	Thunderhead "	2h 41m W	8:08:00 - 8:12:00	"	"	"	"	"	"	"	N	Fair	3+	"	
5027	⇐ Lovas Region	12h 44.5m	+0° 30'	Mar 25/26	2h 48m E	9:58:00 - 10:14:00	"	"	8X10 103aO	W	"	"	"	"	"	"	"	
5028	"	"	"	"	2h 23 E	10:24:00 - 10:40:00	"	"	8X10 "	"	"	"	"	S	Good	3+	"	
5029	⇐ Bradfield	2h 13m	+17° 40'	Mar 26/27	5h 30m W	7:55:00 - 7:55:30	"	"	4X5 "	E	"	"	"	"	"	"	"	
5030	" (1974 b)	"	"	"	5h 38m W	8:02:00 - 8:02:40	"	"	" "	"	"	"	"	"	"	"	"	
5031	"	"	"	"	5 47 W	8:10:00 - 8:13:00	"	"	8X10 "	"	"	"	"	"	"	"	"	
5032	⇐ Kohoutek Region	3h 57m	+18° 50'	"	4h 27m W	8:27:00 - 8:37:00	"	"	4X5 "	"	"	"	"	"	"	"	"	
5033	RV Lyncis	6h 53m	+51° 20'	"	1h 46m W	8:46:00 - 8:51:00	"	"	" "	"	"	"	"	N	Poor	3	"	
5034	Lovas ⇐	12h 32m	-00° 12'	Apr. 8/9	2h 36m E	9:02:10 - 9:18:10	"	"	" "	W	"	"	"	S	Good	3-	"	
5035	Bradfield ⇐ 1974b	2h 29m	+55° 10'	" 11/12	6h 49m W	8:27:00 - 8:27:30	"	"	" "	E	"	"	"	"	"	"	"	Drive Due North #9@400
5036	"	"	"	"	6h 59m W	8:37:00 - 8:37:20	"	"	" "	"	"	"	"	"	"	"	"	
5037	"	2h 23m	+57° 20'	"	7h 30m W	8:52:00 - 9:02:00	"	"	8X8 "	"	"	"	"	N	"	"	"	
5038	Lovas ⇐	12h 32m	+0° 10'	"	2h 07 E	9:15:00 - 9:35:00	"	"	4X5 "	W	"	"	"	S	Good	3	"	
5039	Bradfield ⇐ 1974b	2h 32m	+66° 28'	Apr. 18/19	7h 08m W	8:22:00 - 8:22:30	"	"	" "	E	S	"	"	N	"	"	"	
5040	Lovas	12h 21m	±0°	"	2h 12m E	8:37:00 - 8:57:00	"	"	" "	W	N	"	"	"	Good	3	"	
5041	Bradfield ⇐ 1974 b	10h 00m	+89° 20'	May 14/15	3h 08m W	9:53:00 - 10:09:00	"	"	" "	"	"	"	"	"	"	"	"	
5042	Lovas ⇐	12h 12m	-0° 50'	"	1h 31m W	10:24:00 - 10:44:00	"	"	" "	"	"	"	"	"	Good	4	"	
5043	"	12h 03	-2° 15'	June 8/9	2h 53m W	9:48:00 - 10:18:00	"	"	" "	"	"	"	"	"	"	"	"	Drive #8@100 PA 0 50 W
5044	Helin Object Reg	14h 44m	-4° 18'	Sunrise "	0h 35 W	10:30:00 - 10:40:00	"	"	~~8X8~~ 4X5	"	"	"	"	"	"	"	"	" " "
5045	" 1974KA	"	"	"	0h 45 W	10:50:00 - 11:00:00	"	"	4X5 "	"	"	"	"	"	"	"	"	
5046	⇐ Bradfield 1974 B	14h 31.5m	+74° 45'	"	1h 30m W	11:16:00 - 11:24:00	"	"	4X5 "	"	"	"	"	"	Good	3-	"	Drive #7@500 PA 0 20
5047	Helin Obj Field	14h 46m	-5 40	June 11/12	1h 27 W	11:13:00 - 11:23:00	"	"	" "	"	"	"	"	"	"	"	"	"
5048	" 1974KA	"	"	"	1h 49 W	11:35:00 - 11:45:00	"	"	" "	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1974	H.A. END	EXPOSURE MST-AM-PM	W.E	INST	PLATE	TELE. POSITION	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
5049	Astrom Test	17h44m	+5°30'	June 11/12		5 Exposures between 12:05 to 12:33	WWV	13"	14x17 103aO	W	D19	5m	68	N	Good	3	H Giles	2m Exp center + corners
5050	North of Lovas	12h03m	+2° 15'	June 18/19	2h57m W	9:12:00-9:42:00	"	"	4x5 "	"	"	"	"	"	Good	3	"	
5051	Helin Obj 1974 KA	14h42m	-8°50'	"	0h49m W	10:03:00-10:15:00	"	"	8x8 cut 4x5's 103aO	"	"	"	"	"	"	"	"	drive SW 16° for dup S #7 @ 260 ohms 1.11 / minute.
5052	"	"	"	"	1h N m W	10:28:00-10:40:00	"	"	" "	"	"	"	"	"	"	"	"	
5053	Astrom. Test	17h44	+5°30'	"	1h07m E	4 mm each corner + center	"	"	made 14x17 cut 4x5's	"	"	"	"	"	"	"	"	See exposures on jacket
5054	Helin Obj 1974 KA	14h40m	-17°21'	July 9/10	1h39m W	9:00:00-9:40:00	"	"	made 8x8 cut to 4x5	"	"	"	"	"	Good	3	"	
5055	"	"	"	"	2h33m W	9:52:00-10:32:00	"	"	" 103aO	"	"	"	"	"	"	"	"	
5056	Kowal Object	1h40m	+47°30'	July 23/24	2h11m E	3:39:04-3:52:04	"	"	103aO 8x8	"	"	"	"	"	Good	3	"	Drive 45° NE #9 @ 866
5057	"	"	"	"	1h47 E	4:03:00-4:16:00	"	"	"	"	"	"	"	"	"	"	"	"
5058	"	"	"	"	1h42m E	4:20:00-4:22:00	"	"	8x10 "	"	"	"	"	"	"	"	"	
5059	Cesco & Region	16h26	-35°20'	Aug 9/10	1h06m E	8:34:00-8:50:00	"	"	14x17 103aO	"	"	"	"	"	Good	3+	"	
5060	"	"	"	"	1h28m E	8:56:00-9:12:00	"	"	"	"	"	"	"	"	"	"	"	
5061	← Bradfield 1974 B	15h34m	+45°35'	Aug 9/10	2h47m W	9:27:00-9:40:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	drive #7 @ 100; PA 64° SE
5062	"	"	"	"	3h29m W	9:56:00-10:20:00	"	"	8x8 "	"	"	"	"	"	"	"	"	3-one min Exp.
5063	Scale Plate	19h55m	00°00'	"	0h12m E 0 10 E 0 08 E	11:00:00-11:01:00 11:02:00-11:03:00, 11:04:00-11:05:00			14x17 103aO	"	"	"	"	"	"	"	"	
5064	G273	23 37.2	-14°30	Aug 25/26	0h33m W	13 2:50:00-3:20:00	WWV	13"	14x17 IIaE	"	"	4min	"	"	"	3±1	N. Thomas	
5065	"	"	"	"	1h03 W	2:30:00-2:50:00	"	"	14x17 103aO	"	"	"	"	"	"	"	"	
5066	G274	1h41.1	-27°50	"	0h17 E	3:15:00-3:35:00	"	"	"	"	"	"	"	"	"	"	"	
5067	"	"	"	"	0h09 W	3:40:00-4:00:00	"	"	"	"	"	"	"	"	"	"	"	
5068	Scale Plate	20h04.5	+35°50'	Sept. 8/9		4 Corners and Center 1min Exp each	"	"	14x17 cut to 5-4x5's	"	"	5min	"	"	Good	3+	H Giles	SW 9:04; NW 9:12 & 9:19; SE 9:28; NE 9:36
5069	← Bradfield 1974 B	16h10.5	+35°00'	"	4h44m W	9:50:00-10:15:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
5070	" "	"	"	Sept 13/14	4h37m W	8:48:00-8:56:00 9:20:00-9:46:00	"	"	8x10 "	"	"	5min	"	"	Fair to Poor	3	"	Too as found Interrupted by clouds exposure as taken
5071	Helin Obj. 1952 RH	21h05m	+4°55'	"	0h09m W	10:05:00-10:15:00	"	"	cut to 4x5	"	"	"	"	"	Fair	3	"	
5072	G274	1 41.1	-27°10	Sept 23/4	0h44m W	1:10:00-2:40:00	"	"	IaE 14x17	"	"	4 min	"	"	Good+	4	N. Thomas	
5073	"	"	"	"	1h15m W	2:51:00-3:11:00	"	"	103aO "	"	"	"	"	"	"	4	"	
5074	Lepus Region	5 18.6	-21 10	"	1h34m E	3:40:00-4:00:00	"	"	103aO "	"	"	"	"	"	"	4	"	
5075	"	"	"	"	1h09m E	4:05:00-4:25:00	"	"	103aO "	"	"	"	"	"	"	4	"	
5076	G7 TAURUS	4h06.2	+13°16	Sep 27/8	0h04 W	15:50:00-16:10:00	"	"	" "	"	"	"	"	"	"	3-2	RB	
5077	"	"	"	"	0h28 W	16:14:00-16:34:00	"	"	" "	"	"	"	"	"	"	"	"	
5078	"	"	"	"	0h59 W	16:45:00-17:05:00	"	"	" "	"	"	"	"	"	"	"	"	
5079	G274	1h41.1	-27°50	Oct 15/16	0h40 W	11:55:00-1:10:00	"	"	IaE 14x17	"	"	"	"	"	Good	2-3	N	
5080	"	"	"	"	1h05 W	1:15:00-1:35:00	"	"	103aO "	"	"	"	"	"	"	"	"	
5081	C. Major Region	7 14	-22 06	"	3h02m E	2:40:00-3:00:00	"	"	103aO "	"	"	"	"	"	"	2	"	
5081	" "	"	"	"	2h 32 E	3:10:00-3:30:00	"	"	103aO "	"	"	"	"	"	"	"	"	
5083	Helin obj #1	24h20m	+9°55'	Oct 24/25	1h33m E	9:00:00-9:05:00		"	103aO 8x8	"	"	"	"	"	Fair+	3	HLG	

1974 1975

	NEG. #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1974-75	H.A. END	EXPOSURE MST-AM-PM	W.E	INST.	PLATE	TELESCOPE POSITION	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD.	OBSV.	REMARKS
	5084	Helin obj. #1	24h20m	+9°55'	Oct 24/25	1h19m E	9:15:00-9:20:00	WWW	13"	103aO	W	D19	5	68°	N	Fair+	3	HLG	
	5085	" " #2	1h01.5m	+22°95'	"	1h36m E	9:39:00-9:43:00	"	"	"	"	"	"	"	"	"	"	HLG	
	5086	" " #2	"	"	"	1h22m E	9:53:00-9:57:00	"	"	"	"	"	"	"	"	"	"	HLG	
	5087	& Bennett, Kalio, Lewis?	11h22m	-37°00'	Nov. 17/18	2h05 E	5:52:00-6:00:00 AM MST	"	"	4x5 103aO	"	"	"	"	"	Good	2-	"	Drive in P.A. 4° #8 @ 180.
	5088	"	"	"	"	2h00 E	6:04:00-6:05:00	"	"	8x10 "	"	"	"	"	"	"	"	"	
G274	5089	CO-28° 541	1 41.1	-27°50	Dec 9/10	1h06 W	8:45:00-10:00:00	"	"	14x17 IaE	W	D19	4	68°	N	Good	4	N. Thomas	
	5090	"	"	"	"	1h36 W	10:10:00-10:30:00	"	"	" 103aO	W	"	"	"	"	"	"	"	
1974	5091	GC 8444, (.10s)	6 28.1	-31 08	"	0h50 E	12:30:15-12:50:15	"	"	" "	"	"	"	"	"	"	"	"	
	5092	"	"	"	"	0h20 E	1:00:00-1:20:00	"	"	" "	"	"	"	"	"	"	"	"	
1975	5093	Scale Plate	2h28m	+35°30'	Jan. 4/5	1h05m W	9:10:00-9:10:30	"	"	4x5 103aO	W	D19	5min	68°	N	Good	2	H.Giclas	
	5094	"	"	"	"	1h18m W	9:19:00-9:20:00	"	"	"	"	"	"	"	"	"	"	"	
	5095	Eros	7h58m	+44°30'	"	3h48m E	9:39:00-9:40:00	"	"	"	"	"	"	"	"	"	"	"	
	5096	"	"	"	"	3 37 E	9:50:00-9:51:00	"	"	"	"	"	"	"	"	"	"	"	
	5097	" Region	"	"	"	2:58 E	10:16:10-10:31:10	"	"	8x8 103aO	"	"	"	"	"	"	"	"	Drive P.A. 60° #9 in 500 secs
	5098	" "	"	"	"	2:31 E	10:42:00-10:57:00	"	"	"	"	"	"	"	"	"	2+	"	
	5099	"	"	"	"	2:22 E	11:05:00-11:06:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
	5100	"	"	"	"	2:14 E	11:13:00-11:14:00	"	"	"	"	"	"	"	"	Good	2+	"	Triple Exp in corner + center L Right, L Left ¢
	5101	SA #122	6h14m	-15°32'	Jan 12/13		8:08:00-8:28:00 8:52 to 9:12; 9:25 to 9:45	"	"	14x17 103aO	"	"	"	"	"	"	"	"	
	5102	Eros	7h52m	+37°26	"	2:46 E	10:06:00-10:06:30	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
	5103	RV Lyncis	6h58m	+51°10'	"	1h19m E	10:31:00-10:39:00	"	"	"	"	"	"	"	"	"	"	"	
	5104	K Gem.	7h42m	+24°10'	"	1h53 E	10:51:00-10:51:30	"	"	"	"	"	"	"	"	"	"	"	
	5105	"	"	"	"	1 46 E	10:59:00-10:59:30	"	"	"	"	"	"	"	"	"	"	"	
	5106	Not Eros	6h51m	+37°20'	"	0h38m E	11:15:00-11:15:30	"	"	"	"	"	"	"	"	Good	4	"	Drive in PA 21° @ #2, 300
	5107	Schwassmann Wach I MP 804 also on plate	23h21.5m	+2°18'	Jan 14/15	3h32m W	7:23:00-7:43:08	"	"	8x8 103aO	"	"	"	"	"	"	"	"	" "
	5108	"	"	"	"	4 05 W	7:50:30-8:18:30	"	"	"	"	"	"	"	"	"	"	"	All on one 14x17 plate for calib. 1, Upper Right; 2, Center; 3, Upper Left.
	5109	SA # 122	5h56m	-9°38	"	1h10 E	8:50:00-9:10:00	"	"	14x17 103aO	"	"	4min	"	"	"	"	"	
	5110	"	6h14m	-15°12'	"	1h32 E	9:19:00-9:39:00	"	"	"	"	"	"	"	"	"	"	"	
	5111	RV Lyncis	6h49m	+51°	"	1h19 E	9:47:00-10:07:00	"	"	4x5 103aO	"	"	5min	"	"	"	"	"	
	5112	Eros	7h50m	+35°00'	"	1h18m E	10:23:00-10:31:00	"	"	"	"	"	"	"	"	"	"	"	
	5113	"	"	"	"	1h57m E	10:47:00-10:47:32	"	"	"	"	"	"	"	"	"	"	"	
	5114	Eros Region #5102	7h52.5m	+37°20'	"	1h48 E	10:56:00-10:56:30	"	"	"	"	"	"	"	"	"	"	"	Drive NW 28°, #7, 250
	5115	MP 1090 Sumida	8h08m	+4°20'	Feb 2/3	1h40m E	11:05:00-11:05:30	"	"	"	"	"	"	"	"	Good	3-	"	"
	5116	" "	"	"	"	2h51m E	8:38:00-8:58:00	"	"	8x8 103aO	"	"	5min	"	"	"	"	"	Drive 7° from due N. Step #6, 900 secs
	5117	" "	8h00m	+10°40'	Feb 18/19	2h04m E	9:21:00-9:42:00	"	"	"	"	"	"	"	"	Good	4	"	"
	5118	" "	"	"	"	2h03 E	8:17:00-8:35:00	"	"	4x5	"	"	4min	"	"	"	"	"	
	5119	" "				1h25 E	8:54:00-9:12:00	"	"	"	"	"	"	"	"				

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1975	H. A. END	EXPOSURE MST- AM-PM	W. E.	INST.	PLATE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
5120	#1767 Lampland	8h26m	+7°00'	Feb 18/19	1h03 E	9:40:00-10:00:00	WWV	13"	8x8 4x5 103aO	W	D19	5m	68°	N	Good	4	H Giclas	Step #2 drive at zero 18° NW
5121	"	"	"	"	0h30m E	10:12:00-10:32:00	"	"	"	"	"	"	"	"	"	"	"	"
5122	1949 OA	9h19m	+45°50'	"	0h47m E	10:57:00-11:09:00	"	"	"	"	"	4m	"	"	"	"	"	Drive 22° from due N in NW Step #8, 785 ohms.
5123	"	"	"	"	0h22m E	11:22:00-11:34:00	"	"	"	"	"	"	"	"	"	"	"	"
5124	A Region, No ⊕	2h33m	+15°00'	Mar 2/3	4h39m W	8:52:00-9:00:00	"	"	4x5 103aO	"	"	4min	"	"	Good	3	"	
5125	⊕ 1975a Boethin	3h04m	+22°55'	"	4h29m W	9:13:00-9:23:00	"	"	"	"	"	"	"	"	"	"	"	
5126	m.p. 1767 Lampland	8h20.2m	+8°15'	"	0h02m E	9:41:00-10:12:00	"	"	14x17 103aO	"	"	"	"	"	"	"	"	
5127	" "	"	"	"	0h42m W	10:22:00-10:53:00	"	"	"	"	"	"	"	"	"	"	"	
5128	RV Lyncis	6h55m	+51°10'	"	2h27m W	11:04:00-11:12:00	"	"	4x5 103aO	"	"	"	"	"	Fair	2	"	Haze + clouds.
5129	"	"	"	Mar 3/4		9:22:00-9:34:00	"	"	"	"	"	5min	"	"	Good	4	"	
5130	⊕ 1975b Kohoutek	3h02m	+19°00'	Mar 4/5	4h38m W	9:23:00-9:31:00	"	"	cut to 4x5 8x10 103aO	"	"	"	"	"	"	"	"	
5131	⊕ 1975a Boethin	3h15m	+23°48'	"	4h58m W	9:44:00-9:54:00	"	"	cut to 4x5	"	"	"	"	"	"	"	"	
5132	R.V. Lyncis ~~m.p. 1767 Lampland~~	6h55m	+50°50'	"	1h37m W	10:05:00-10:13:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
5133	~~RV Lyncis~~ m.p. 1767 Lampland	8h20m	+8°30	"	0h57m W	10:29:00-10:59:00	"	"	14x17 "	"	"	"	"	"	Good	3	"	No ⊕ found
5134	⊕ Suspect ✓	17h57.5m	-4°00'	Apr 19/20	0h15m W	4:35:00-4:50:00	"	"	"	"	"	"	"	"	Good	3	"	
5135	RV Lyncis	6h56m	+51°12'	Apr 29/30	3h49m W	8:39:00-8:45:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
5136	a Region in Sky	6h51m	+28°18'	"	4h19m W	8:59:00-9:11:00	"	"	"	"	"	"	"	"	"	"	"	
5137	⊕ 1975a	6h36.5m	+28°18'	"	4h55m W	9:22:00-9:32:00	"	"	"	"	"	"	"	"	"	"	"	
5138	"	"	"	"	5h13m W	9:40:00-9:50:00	"	"	"	"	"	"	"	"	"	"	"	
5139	RV Lyncis	6h56m	+51°12'	"	5h31m W	10:00:16-10:06:16	"	"	"	"	"	"	"	"	Good	3	"	
5140	"	"	"	May 3/4	4h48 W	9:17:00-9:24:00	"	"	"	"	"	"	"	"	Good	3	"	Test at different RA speeds - see Sp. Notes
5141	Drive Test	13h59m	+1°28'	May 31/June 1		10:01 end 10:33	"	"	"	"	"	"	"	"	Good	3+	"	
5142	⊕ 1975 H	20h28.5m	+25°08'	July 15/16	1h29m W	2:44:00-2:44:30	"	"	4x5 103aO	"	"	"	"	"	"	"	"	Drive NW #9, 840 ohms in 42° P.A.
5143	"	"	"	"	1h31m W	2:54:00-2:55:00	"	"	"	"	"	"	"	"	"	"	"	
5144	"	"	"	"	2h10m W	3:14:00-3:34:00	"	"	8x8 "	"	"	"	"	"	Good-	3-	"	
5145	"	20h02m	+33°04'	July 17/18	0h03m E	12:46:00-12:47:00	"	"	4x5 "	"	"	"	"	"	"	"	"	Drive NW #9, 947 ohms in 42° P.A.
5146	"	"	"	"	0h07m W	12:57:00-12:58:00	"	"	" "	"	"	"	"	"	"	"	"	
5147	"	"	"	"	0h45m W	1:15:00-1:35:00	"	"	8x8 "	"	"	"	"	"	Fair+	2	"	
5148	"	14h53m	+58°18'	July 28/29	3h21m W	10:20:00-10:21:00	"	"	4x5 "	"	"	"	"	"	"	"	"	2° tail in PA 108°
5149	"	"	"	"	3h53m W	10:35:00-10:50:00	"	"	8x8 "	"	"	"	"	"	"	"	"	Drive in PA 135° S of due West #9 at 717 ohms
5150	"	"	"	"	3 57 W	10:54:00-10:55:00	"	"	4x5 "	"	"	"	"	"	Good	3		
5151	"	14h06m	+56°50'	July 30/31	4h27m W	10:29:00-10:30:00	"	"	4x5 "	"	"	"	"	"	"	"		Tail 5° long. drive #9 600 ohms in 21° SW
5152	"	"	"	"	4h50m W	10:38:00-10:53:00	"	"	8x "	"	"	"	"	"	Good	2		
5153	"	13h50m	+55°50'	July 31/Aug 1	3h06m W	9:17:00-9:17:30	"	"	4x5 "	"	"	"	"	"	Fair+	"		drive
5154	"	13h31m	+55°48'	"	4h27m W	9:35:00-9:53:00	"	"	8x8 "	"	"	"	"	"				

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	1975 DATE	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST.	PLATE	teles. Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
5155	⊕ 1975h	13h 50m	+55°50'	July 31/Aug 1	4h 16m W	10:00:00-10:00:30	WWV	13"	4x5 103a O	W	D19	5min	68°	N	Good	2	HGiles	
5156	⊕ 1975h	12h 49m	+50°49'	AUG 5/6	4h 48m W	9:10:00-9:10:30	"	"	" "	"	"	"	"	"	Fair	3	"	
5157	"	13h 05m	+50°50'	"	5h 18m W	9:26:00-9:56:00	"	"	8x8 "	"	"	"	"	"	"	"	"	
5158	"	11h 51.5	+43°25'	Aug 15/16	6h 44m W	8:29:00-8:29:30	"	"	4x5 "	E	"	"	"	"	Good	2+	"	Herb Wade in Dome ~~See Spec~~ Note corr. of date: Friday/Sat.
5159	"	"	"	Aug 15/16		8:38:00-8:38:30	"	"	"	"	"	"	"	"	"	"	"	Aug 15/16 Drive #8 @ 783° 42° SW
5160	"	12h 04m	+43 22	"	6h 02m W	8:55:00-9:00:00	"	"	8x8 "	"	"	"	"	"	"	"	"	See Special Notes
5161	α, δ Drive Calib.	19h 35m	-1°20'	"	0h 12m E	9:42; + 9:52	"	"	4x5 "	W	"	"	"	"	"	"	"	Clock Speed 489 first exp.
5162	"	"	"	"	0h 32m W	9:54 + 10:04 10:25-10:35	"	"	"	"	"	"	"	"	"	"	"	" " 529 2 " " .
5163	⊕ 1975 H	11h 20.0m	+38°30'	Aug. 24/25		10:35-10:48 8:44:00-8:44:30	"	"	"	"	"	"	"	"	Good	3	"	⊕ just behind Trees, No Comp Stars
5164	Drive Calib 507	9h 26m	+0°08'	"	0h 20m E	9:03:00-9:03:10	"	"	4x5 "	E	"	"	"	"	"	"	"	Clock Set 507
5165	⊕ 1975 H	11h 15m	+36°50'	Aug 25/26	6h 40m W	9:23:00-9:23:10 8:09:00-8:09:30	"	"	" "	W	"	"	"	"	Good	2	"	
5166	"	"	"	"	6h 45m W	8:14:00-8:14:30	"	"	4x5 "	E	"	"	"	"	"	"	"	
5167	"	11h 18m	+37°22'	"	7h 00m W	8:24:30-8:34:30	"	"	" "	"	"	"	"	"	"	"	"	Drive #8 @ 785 chns in RA. 50' SW
5168	Drive @ 505	19h 27m	+0 08'	"	0h 30m E	9:51:00-10:01:10	"	"	8x8 "	E	"	"	"	"	"	"	"	505 Clock Set.
5169	⊕ 1975H	11h 00m	+33°00'	Aug 30/31	7h 20m W	10:11:00-10:11:10 8:00:30-8:01:00	"	"	4x5 "	W	"	"	"	"	Good	2	"	Comet in Trees in Twilight
5170	RA Calib at 511	19h 21.2m	+0°08'	"	~~[illegible]~~	8:29 + 15 sec then	"	"	"	E	"	"	"	"	"	"	"	clock rate 511
5171	" 500	"	"	"	0h 49m E	8:39 + 15 sec then 8:54 + 10 sec then	"	"	"	W	"	"	"	"	"	"	"	" " 500
5172	Nova Cygni	21h 10m	+47°50'	"	1h 47m E	9:04 + 10 sec 9:19:00-9:19:30	"	"	"	"	"	"	"	"	"	"	"	
5173	"	21h 14m	+44°00'	"	1h 18m E	9:33:00-9:53:00	"	"	"	"	"	"	"	"	"	"	"	
5174	"	"	"	Sept 10/11	0h 01m E	10:19:00-10:19:30	"	"	14x17 103aO	"	"	"	"	"	Fair	2	"	
5175	⊕ 1975h	10h 29m	+11°15'	Sept. 18/19	6h 00m E	5:09:00-5:09:30 AM MST	"	"	4x5 "	"	"	4min	"	"	Good	2	"	Morning Twilight Strong
5176	"	"	"	"	5h 50m E	5:20:00-5:20:30	"	"	"	"	"	"	"	"	"	"	"	"
5177	Nova Cygni	21h 14m	+44°00'	Sept 26/27	0h 03m W	9:06:00-9:26:00	"	"	14x17 103aO	W	"	5min	"	"	Good	3	"	
5178	"	21h 10m	+47°30'	"	0h 20m W	9:38:00-9:38:30	"	"	4x5 "	"	"	"	"	"	"	"	"	
5179	Calibration in δ	21h 10m	+0°10'	"	~~0h 47m~~ W	~~10:09~~ 9:54 + 10m 10:04	"	"	"	"	"	"	"	"	"	"	"	
5180	"	21h 31m	00°0'	Sept 27/28	0h 26m E	8:24:00 +10s; +10m	"	"	"	"	"	"	"	"	Good	2	"	
5181	"	"	"	"	0h 23m W	9:01:00 +10s; +10m 9:17:00 +10; 9:50:00 +10	"	"	"	"	"	"	"	"	"	"	"	
5182	44 Piscium opp.	0h 23m	+1°40'	"	1h 51m E	10:17:00-10:37:00	"	"	14x17 103aO	"	"	"	"	"	Good	2+	"	
5183	Calib in δ	21h 33m	+0°40'	Sept 29/30	0h 24m W	9:32: +10s - 9:42: +10s	"	"	4x5 "	"	"	"	"	"	"	"	"	
5184	#44 Pisc. opp.	0h 23m	+1°40'	"	1h 43m E	9:43 +10s - 9:53: +10s 10:17:00-11:37:00	"	"	14x17 103aO	"	"	"	"	"	Good	3-	N. Thomas	no trail
G275 5185	CD-27°16339, Sd	23h 28.2	-27 34	Oct 1/2	0h 33m E	10:21:00-10:41:00	"	"	14x17 103aO	"	"	4min	"	"	"	"	"	
5186	"	"	"	"	0h 52m W	10:50:00-12:05:00	"	"	14x17 IaE	"	"	"	"	"	"	4-4+	"	v. good seeing
5187	"	"	"	Oct 2/3	1h 10m E	9:40:00-10:00:00	"	"	14x17 103aO	"	"	"	"	"	"	4+	"	" "
5188	[illegible]	[illegible]	[illegible]	"	0h 10m W	10:05:00-11:20:00	"	"	14x17 IaE	"	"	"	"	"	"	3	"	Trailed
G158 5189	GC 283, Cat	8h 12.4	-9°51'	"	0h 11m W	11:45:00-12:05:00	"	"	14x17 103aO	"	"	"	"	"	"			

	NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	1975 DATE	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST.	PLATE	tele. Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
G158	5190	GC 283, Cet	0h 12.4	-9° 51'	Oct 2/3	0h 36m W	12:10:00 - 12:30:00	WNW	13"	14x17 103aO	W	D19	4 min	68°	N	Good	4-5	N. Thomas	Trailed (about 1/3 Time Excellent Seeing)
	5191	G233	22h 48m	+15° 40'	Oct 3/4 Fri-Sat	1h 18m W	12:07:00 - 12:27:00	"	"	" "	"	"	5 min	"	"	Good	3	H. Giclas	
	5192	44 Piscium m. opposite	0h 23m	+1° 40'		1h 03m W	12:46:00 - 1:06:00	"	"	" "	"	"	"	"	"	"	"	"	
	5193	⊕ 1975 H	10h 27m	-4° 12'	"	4h 49m E	5:00:00 - 5:12:00	"	"	cut to 4x5 8x8 103aO	"	"	"	"	"	"	"	"	Follow ⊕ motion.
	5194	"	"	"	"	4h 41m E	5:19:00 - 5:21:00	"	"	4x5 "	"	"	4 min	"	"	Good	2,3	"	
	5195	Johnson Obj. Suspect	6h 16m	+12° 45'	Oct. 6/7 Tuesday AM	1h 38m E	Time uncertain 3:54:00 - 4:07:??	"	"	8x8 103aO	"	"	5 min	"	"	"	"	"	Drive #9 @ 518 PA 35°
	5196	" "	6h 13m	+12° 34'	"	1h 06m E	4:19:00 - 4:35:00	"	"	14x17 103aO	"	"	"	"	"	"	"	"	
	5197	75J Object ⊕	8h 10m	-1° 00'	"	2h 41m E	4:44:00 - 4:58:00	"	"	"	"	"	"	"	"	"	"	"	
	5198	75K object ⊕	11h 25m	+45° 0'	"	5h 39m E	5:02:06 - 5:15:06	"	"	"	"	"	"	"	"	"	"	"	
	5199	GC 283, Cet	0h 12.4	-9° 51'	Oct 9/10	0h 35m E	10:30:00 - 10:50:00	"	"	"	"	"	"	"	"	Good	2,3	"	
	5200	44 Piscium	0h 23m	+1° 40'	"	0 24 E	10:57:00 - 11:17:00	"	"	"	"	"	"	"	"	"	"	"	
	5201	GC 283, Cet	0 12.4	-9° 51	"	0 14 W	11:23:00 - 11:43:09	"	"	"	"	"	"	"	"	"	"	"	
	5202	"	"	"	Oct. 10/11	0h 03 E	11:01:15 - 11:22:00	"	"	"	"	"	"	"	"	Good	2,3	"	
	5203	44 Piscium	0h 23m	+1° 40'	"	0h 12m W	11:28:00 - 11:48:00	"	"	"	"	"	"	"	"	"	"	"	
	5204	⊕ 1975 J	8h 25m	+1° 00'	Oct 11/12 Sat night	3h 31m E	3:56:00 - 4:04:00	"	"	4x5 103aO	"	"	"	"	"	Good	2,1	"	cut from 8x10
	5205	⊕ 1975 K	11h 17m	+43° 00'	sun!! moon.	5h 55m E	4:29:00 - 4:31:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
	5206	"	"	"	"	5h 45m E	4:40:00 - 4:41:00	"	"	" "	"	"	"	"	"	"	"	"	Drive #8 @ 780, PA 173.5°
	5207	⊕ 1975 H	10h 30m	-13° 10'	"	4h 28m E	5:01:00 - 5:11:00	"	"	8x8 "	"	"	"	"	"	"	"	"	
	5208	"	"	"	"	4h 20m E	5:17:00 - 5:19:00	"	"	4x5 "	"	"	"	"	"	Good	3	"	
	5209	⊕ 1975 J	8h 32m	-3° 50'	Oct 15/16 Thurs AM	5h 17m E	3:58:00 - 4:08:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
	5210	⊕ 1975 K	11h 25.5m	+42° 00'	"	5 39 E	4:38:00 - 4:39:00	"	"	"	"	"	"	"	"	"	"	"	
	5211	"	"	"	"	5 33 E	4:45:00 - 4:46:00	"	"	"	"	"	"	"	"	"	"	"	
	5212	⊕ 1975 H	10h 32.5m	-17° 00'	"	4 22 E	5:01:00 - 5:02:00	"	"	"	"	"	"	"	"	Good	3	"	
	5213	⊕ 1975 J	8h 35.5m	-13° 50'	Oct 27/28	2h 18m E	4:22:00 - 4:24:00	"	"	8x10 103aO	"	"	"	"	"	"	"	"	
	5214	"	"	"	"	2h 08 E	4:32:00 - 4:33:00	"	"	4x5 "	"	"	"	"	"	"	"	"	Drive #9,1000 PA 37° SE
	5215	⊕ 1975 K	13h 05m	+20° 10'	"	6h 01m E	5:05:00 - 5:10:00	"	"	8x8 "	"	"	"	"	"	"	"	"	
	5216	"	13h 04m	+19° 45'	"	5h 52m E	5:18:00 - 5:19:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
	5217	"	"	"	"	5 43 E	5:27:00 - 5:28:00	"	"	" "	"	"	"	"	"	"	"	"	
G275	5218	CD -27° 16339	23 28.2	-27° 34	Nov 4/5	0h 30m W	9:09:53 - 9:29:53	"	"	14x17 103aO	"	D19	4 min	68°	N	Good	4-4+	N. Thomas	Trailed
	5219	"	"	"	"	1 56m W	9:40:25 - 10:55:25	"	"	14x17 IaE	"	"	"	"	"	"	3+-4-	"	red filter
	5220	w' Aqr.	23 37.2	-14° 30	Nov 5/6	1h 17 E	7:38:00 - 7:48:00	"	"	8x10 103aO	"	"	"	"	"	"	3-4	"	Pallas-Vesta conjunction
G275	5221	CD -27° 16339, 21.	23 28.2	-27° 34	"	0h 24 W	8:05:00 - 9:20:00	"	"	14x17 IaE	"	"	"	"	"	"	4-3-2	"	seeing 1/3 of each ‖ Red Filter
	5222	w' Aqr.	23 37.2	-14° 30	"	0h 35 W	9:30:00 - 9:40:00	"	"	8x10 103aO	"	"	"	"	"	"	3-2	"	Pallas-Vesta conjunction
Tr.	5223	#14 Tauri	3h 41m	+19° 30'	Nov 13/14	4h 05m W	4:24:00 - 4:44:00	"	"	14x17 103aO	"	"	5 min	"	"	Good	3	H. Giclas	

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1975-76	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST.	PLATE	TELE. POSITION	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
5224	← 1975 J	8h42m	-32°30'	Nov. 13/14	0h29E	5:05:00-5:10:00	WWV	13"	CUT TO 4X5 103aO	W	D19	5min	68°	N	Good	3	1K Circles	
5225	← 1975 P	11h16m	-40°20'	"	2h27mE	5:48:00-5:53:00	"	"	" "	"	"	"	"	"	"	"	"	
5226	← 1975 N	20h33m	-38°00'	Dec 5/6	2h32mW	6:33:00-6:37:00	PM, MST	"	4X5 103aO	E	"	"	"	S	Good	2	"	U.T. Dec. 6.065972
5227	"	"	"	"	2h43mW	~~7:00:00-7:00~~ 6:44:00-6:48:00	"	"	"	"	"	"	"	S	"	"	"	U.T Dec 6.073611
5228	Nova Cygni	21h10m	+47°40'	"	2h57mW	7:06:00-7:07:00	A.M., MST.	"	"	W	"	"	"	N	"	3	"	
5229	← 1975Q Sato	12h19m	+11°30'	Dec 9/10	1h44mE	5:43:00-5:53:00	"	"	14X17 103aO	"	"	"	"	"	Good	4	"	
5230	A region near ↑	"	"	"	1h23mE	6:07:00-6:13:00	"	"	8X10 "	"	"	"	"	"	"	"	"	Comet off S. edge of plate
5231	← 1975Q Sato	12h20m	+00°10'	Dec 11/12	1h49E	5:34:00-5:38:00	AM, MST WWV	"	4X5 103aO	"	"	"	"	"	Good	3	"	
5232	"	"	"	"	1h40E	5:46:00-5:48:00	"	"	"	"	"	"	"	"	"	"	"	
				1976														
5233	Kowal Object Reg	21h26m	+58°40'	Jan 3/4	4h34mW	7:28:00-7:38:00	WWV	"	Cut to 4X5 103aO	"	"	"	"	"	Good	3	"	Drive SW 1.8° from ⊙, 4.3/min g time originally 8x8°
5234	" "	"	"	"	4h59mW	7:52:00-8:02:00	"	"	"	"	"	"	"	"	"	"	"	Drive
5235	Helin Obj Region	6h35m	+22°40'	Jan 8/9		12:55:00-1:15:00	"	"		"	"	"	"	"	Good	2	"	
5236	"	"	"	"		1:27:00-1:29:00	"	"		"	"	"	"	"	"	"	"	
5237	"	"	"	"				"	8X10 103aO	"	"	"	"	"	"	"	"	Plate BROKEN & Discarded!
5238	" "	6h32'	+24°00'	Jan 10/11	0h57mE	10:30:00-10:45:00	"	"	CUT TO 4X5 103aO	"	"	"	"	"	Good	2+	"	Drive 0.0544min in 330° #9 at 650 ⊡
5239	" "	"	"	"	0h23mE	11:05:00-11:20:00	"	"	8X8	"	"	"	"	"	"	"	"	OBJECT BEHIND Trail
5240	" "	5h26.5m	+43°10'	Jan 19/20	1h48mE	8:00:00-8:15:00	"	"	cut to 4X5 103aO	"	"	"	"	"	Good	2	"	Drive in PA 228°, 0.472/min
5241	" "	"	"	"	1h21E	8:27:00-8:42:00	"	"	cut to 4X5 "	"	"	"	"	"	"	"	"	cut 4X5 "
5242	1975YA Kowal Obj	21h05m	+48°50'	Jan 20/21	6h30mW	7:48:00-8:08:00	"	"	103aO	E	"	"	"	"	Good	3	"	Drive PA 195° 0.0059/min g time
5243	"	"	"	"	7h07mW	8:24:00-8:44:00	"	"	"	"	"	"	"	"	"	"	"	"
5244	Helin Object 1976AA	5h18m	+45°10'	"	0h35mE	9:08:00-9:14:00	"	"	"	W	"	"	"	"	"	"	"	Drive PA. 228°, 0.472/min cut to 4X5 "
5245	"	"	"	"	0h19mE	9:25:00-9:31:00	"	"	"	"	"	"	"	"	Good	3	"	Drive 3°/day #9 at 722
5246	SA #71	3h14.4m	+15°20'	Jan 27/28	1h47mW	8:55:00-9:05:00	"	"	8X8 103aO	"	"	"	"	"	"	"	"	Drive 5.51/min g time PA 328° #9 at 545
5247	1976AA Helin	4h18.5m	+55°30'	"	1h11mW	9:22:00-9:34:00	"	"	cut to 4"x5"	"	"	"	"	"	"	"	"	"
5248	" "	"	"	"	1h37mW	9:48:00-10:00:00	"	"	cut to 4"x5"	"	"	"	"	"	Fair	3	"	
5249	mp. 197 Field	0h44m	-2°10'	Jan 30/31	4h08mW	8:15:00-8:45:00	"	"	103aO	"	"	"	"	"	"	"	"	Couldn't find - too faint
5250	1976AA Helin Reg	3h46m	+58°10'	"	1h35mW	9:02:00-9:12:00	"	"	4X5 103aO	"	"	"	"	"	Good	3	"	
5251	mp. 197 Field	0h44m	-2°15	Feb 2/3	3h35mW	7:40:00-8:00:00	"	"	"	"	"	"	"	"	"	"	"	Could not find - too faint
5252	1976AA Helin	3h36.5m	+59°	"	1h13mW	8:20:00-8:30:00	"	"	"	"	"	"	"	"	Fair+	2	"	Comet not visible ~ Not Found Fainter than 11.2 mag
5253	← 1976a Bradfield	2h07m	-31°50'	Feb 20/21	3h00mW	7:32:00-7:34:00	"	"	4X5 103aO	"	"	"	"	"	"	"	"	Comet just visible ~11 mag
5254	" "	"	"	"	3h11mW	7:42:00-7:46:00	"	"	"	"	"	"	"	"	Good	2	"	← found: Measured
5255	" "	2h20.8m	-29°40'	Feb 24/25	3h00mW	7:23:00-7:33:00	"	"	cut to 4X5 103aO	"	"	"	"	"	Poor	1	"	Clouds, heavy Photored.
5256	← 1975m West	21h45m	+7°00'	Mar 5/6	5h09mE	5:50:00-5:51:00	"	13"	4X5 103aO	"	"	"	"	"	Good	2	"	
Pr. 5257a	" "	21 26	+12°00	" 7/8	4h58mE	a 5:36:00-5:46:00	"	13" 5" Apo	14X17 103aE	"	"	"	"	"				
5257b						b 5:43:00-5:46:00			8X10 103aO									

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	1976 DATE	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST.	PLATE	TELE. Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
5258 a b	West 1975N	21h15m	+13°10'	Mar 8/9	5h03m E	a 5:15:00-5:30:00 b 5:14:00-5:29:00	WWV	13" 5" Cooke	103aO 14x17 103aO 8x10	W	D19	5m	68°	N	Fair	2	H Giclas	Red Plexiglass Filter.
Pr 5259	"	"	"	"	4h48m E	5:35:00-5:45:00	"	13"	IaE 14x17	"	"	"	"	"	"	"	"	OFF Center due To Finder
5260	"	21h30m	+8°30'	"	4h53m E	5:50:00-5:50:30	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
5261 a b	"	21h10m	+13°40'	Mar 9/10	4h58m E	5:08:00-5:28:00	"	13" 5" Cooke	14x17 IaE 8x10 103aO	"	"	"	"	"	Good	2+	"	
5262	"	"	"	"	4h44m E	5:08:20-5:25:00	"	13"	14x17 103aO	"	"	"	"	"	"	"	"	
5263	"	21h25m	+8°48'	"	4 51 E	5:34:00-5:43:00	"	"	4x5 "	"	"	4m	"	"	"	"	"	
5264 a b	"	21h03m	+14°40'	Mar 12/13	4h44m E	5:50:00-5:50:30	"	13" 5" Cooke	14x17 IaE 8x10 103aO	"	"	5	"	"	Good	2	"	
5265	"	"	"	"	4h24m E	a 4:58:00-5:28:00 b 5:02:00-5:22:00	"	13"	14x17 "	"	"	"	"	"	"	"	"	
5266	"	21h19m	+10°00'	"	4h39m E	5:33:00-5:41:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
5267 a b	"	20h59	+15°00	Mar 13/14	4h17 E	5:45:00-5:45:30	"	5" 13" Cooke	14x17 103aO 8x10 103aO	"	"	"	"	"	Fair	3	RB.	Sky hazy at start.
5268 a b	"	20h59m	+15°10'	Mar 14/15	4h40m E	5:25:00-5:40:00	"	13" 5" Cooke	14x17 " 8x10 "	"	"	"	"	"	Good	2	H Giclas	Bright Moonlight
5269	"	21h13m	+10°28'	"	4h41m E	4:56:00-5:16:00	"	13"	4x5 "	"	"	"	"	"	"	"	"	"
5270	"	21h13m	"	"	4h28m E	5:00:00-5:08:00	"	13"	8x10 "	"	"	"	"	"	"	"	"	"
5271	"	21h04m	+10°40'	Mar 19/20	4h27m E	5:29:00-5:29:30	"	"	4x5 "	"	"	"	"	"	Good	1	"	"
5272 a b	"	"	"	"	4h08m E	5:38:00-5:43:00	"	13" 5" Cooke	8x10 "	"	"	"	"	"	"	"	"	"
5273	"	21h01m	+12°00'	Mar 21/22	4h03m E	5:31:00-5:34:00	"	13"	4x5 "	"	"	"	"	"	Good	2	"	"
5274	"	"	"	"	3h57m E	5:27:00-5:27:30	"	"	" "	"	"	"	"	"	"	"	"	"
5275	"	20h46m	+14°00'	Mar 28/29	3h26 E	5:33:00-5:33:30	"	"	8x8 "	"	"	"	"	"	Poor!	1	"	Drive #6, 250, PA 300° cloudy.
5276	"	20h47	+14°00	Mar 29/30	3h33 E	5:16:00-5:21:00	"	"	8x8 "	"	"	"	"	"	Good	1	"	"
5277	"	20h51m	+13°28'	"	3h29m E	5:00:00-5:12:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
5278	"	"	"	"	3h23m E	5:20:00-5:20:20	"	"	" "	"	"	"	"	"	"	"	"	
5279 a b	"	20h40m	+14°50'	Apr 7/8	3h12m E	5:26:00-5:26:10	"	13" 5" Cooke	8x10 103aO	"	"	"	"	"	Good	2	"	
5280	"	"	"	"	3h03m E	5:01:00-5:01:30	"	13"	4x5 103aO	"	"	"	"	"	"	"	"	Exp: 5:01:00-5:01:30
5281	"	"	"	"	2h54m E	5:08:00-5:08:20	"	"	"	"	"	"	"	"	"	"	"	" 5:08:00-5:08:10
5282	"	"	"	"	2h50 E	5:13:00-5:13:20	"	"	"	"	"	"	"	"	"	"	"	
5283	"	20h38m	+15°05'	Apr 9/10	2 08 E	4:49:00-4:49:20	"	"	"	"	"	"	"	"	Good	2	"	
5284	"	"	"	"	2 51 E	5:01:00-5:01:10	"	"	"	"	"	"	"	"	"	"	"	
5285	"	"	"	"	2 46 E	5:06:00-5:06:30	"	"	"	"	"	"	"	"	"	"	"	
5286	"	20h16m	+17°20'	Apr 25/26	1h52m E	4:30:00-4:36:00	"	"	"	"	"	"	"	"	Good	1	"	
5287	"	"	"	"	1h43m E	4:43:00-4:45:00	"	"	"	"	"	"	"	"	"	"	"	
5288	"	"	"	"	1h38m E	4:49:00-4:50:00	"	"	"	"	"	"	"	"	"	"	"	
5289	SAO 153844 Pallas	8h04m	-13°31'	Apr. 27/28	2h28m W	8:36:00-8:38:00	"	"	8x10 103aO	"	"	"	"	"	Good	2	"	Pallas Occ Star Oct 76
5290	"	"	"	"	2h40m W	8:48:00-8:49:00	"	"	"	"	"	"	"	"	"	"	"	"