NEG. NO.	REGION Guide Star	R.A.	DEC.	DATE 1976	H.A. END	EXPOSURE MST.-AM-PM	W.E.
5291	SAO 153844 Pallas	8h04m	-13°31'	Apr. 27/28	2h48mW	7:57:00 - 7:58:00	WWV
5292	RV Lyncis	6h54m	+51°00	"	5h28mW	10:18:00 - 10:28:00	"
5293	SAO 153844, Pallas Ec	8h04m	-13°31'	Apr 30/May 1	2h35mW	8:29:00 - 8:30:00	"
5294	"	"	"	"	3h03W	8:58:00 - 9:00:00	"
5295	"	"	"	"	3h14mW	9:07:00 - 9:09:00	"
5296	RV Lyncis	6h54m	+51°00'	"	4h28mW	9:18:00 - 9:28:00	"
5297	West 1975N	19h49m	+18°08'	May 9/10	1h05mE	3:59:00 - 4:01:00	"
5298	"	"	"	"	0h53mE	4:08:00 - 4:12:00	"
5299	"	"	"	"	0h47mE	4:18:00 - 4:19:00	"
5300	SAO 153844	7h58m	-12°12'	May 10/11	4h05mW	9:16:30 - 9:17:00	"
5301	"	"	"	"	4 10W	9:21:00 - 9:21:30	"
5302	Harlan-Klemola Reg.	13h18m	+44°18'	"	0h41mE	9:46:00 - 9:50:00	"
5303	"	"	"	"	0h33E	9:55:00 - 9:59:00	"
5304	"	13h10m	+43°00'	May 16/17	0h25mE	9:21:00 - 9:36:00	"
5305	"	"	"	"	0h01mE	9:45:00 - 10:00:00	"
5306	"	13h09m	41°32'	May 22/23	0h31E	9:52:00 - 10:06:00	"
5307	"	"	"	"	0h09mE	10:14:00 - 10:28:00	"
5308	SA 57	13 06	+39 36'	"	0h20mW	10:38:00 - 10:52:00	"
5309	Harlan 1976g	13 08	+39 17	May 31/June 1	0h17W	9:02:00 - 9:17:00	"
5310	"	"	+39 17	"	0h40mW	9:25:00 - 9:40:00	"
5311	Suspect Region	12h29m	+14°45'	June 1/2	2h15mW	10:16:00 - 10:31:00	"
5312	"	"	"	"	2h40mW	10:41:00 - 10:56:00	"
5313	Nova Suspect Reg.	15h42.6m	+37°18'	[illegible]	0h17mE	11:08:00 - 11:12:00	"
5314	SA-57	13h06m	+29°38'	"	2h32mW	11:22:00 - 11:26:00	"
5315	West 1975N	18h41.5	+16°40'	June 6/7	1h44mW	3:47:00 - 3:51:00	"
5316	"	"	"	"	1h57W	3:58:00 - 4:04:00	"
5317	"	18h22.5m	+14°50'	June 15/16	2h20mE	10:51:00 - 10:56:00	"
Tr. 5318	G164 Region	12h57m	+34°40'	" 17/18	1h41mW	9:00:00 - 9:21:00	"
5319	West 1975N	18h06.8m	+13°24'	June 22/23	2h04mE	10:20:00 - 10:28:00	"

INST.	PLATE	tele. Position	DEVELOPMENT KIND	TIME	TEMP.	WRITING	SEEING TRANS.	STEAD	OBSV.	REMARKS
13"	8x10 103a O	W	D19	5min	68°	N	Good	2	H.Giclas	Pallas Occ. Star Oct '76
"	4x5 103a O	"	"	"	"	"	"	"	"	
12½"	11x17 "	"	"	"	"	"	Good	3	"	
5" Cook	8x10 "	"	"	"	"	"	"	"	"	
5" Cook	8x10 103a O	"	"	"	"	"	"	"	"	
5" Coude	" "	"	"	"	"	"	"	"	"	
13"	4x5 103a O	"	"	"	"	"	"	"	"	
"	4x5 103a O	"	"	"	"	"	Good	3	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	14x17 103a O	E	"	"	"	"	Good	1	"	
"	"	"	"	"	"	"	"	"	"	
"	4x5 103a O	W	"	"	"	"	"	2	"	
"	"	"	"	"	"	"	"	"	"	
"	4x5 103a O	"	"	"	"	"	Good	3	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	Good	3	"	
"	"	"	"	"	"	"	"	"	"	
"	8x10 103a O	"	"	"	"	"	Good	3	"	No ⊂ found
"	8x10 103a O	"	"	"	"	"	"	"	"	No ⊂ found
"	4x5 103a O	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	Good	3	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	Good	2	"	
"	14x17 103a O	"	"	4min	"	"	Good	3	"	
"	4x5 103a O	"	"	5min	"	"	Good	3	"	

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
5320	32489 Aquarius	23h26m8	-3° 48'	Aug 6/7	1h27m W	3:59:00 - 4:19:00	WWV	13"	14x17 103aO	W	D19	4m	68	N	Good	3+	HGicks	To match #98 and 101
5321	West 1975 N	17h15m	+0° 50'	Aug 18/19	2h11m W	10:46:00 - 11:06:00	"	"	4x5 "	"	"	5m	"	"	Good	4	"	See Time correction refer Marsden letter. 9-21-76
5322	D'Arrest 1976e	22h25m	-22° 10'	"	2h46m E	10:17:00 - 10:19:00	"	"	" "	"	"	"	"	"	"	"	"	
5323	West 1975 N	17h14m	-0° 50'	Aug 26/27	2h01m W	9:01:00 - 9:23:00	"	"	" "	"	"	"	"	"	Good	4	"	
5324	SA Aquila	19h00m	+4° 50'	"	0h53m W	9:41:00 - 10:01:00	"	"	8x8 cut to 2x2	"	"	"	"	"	"	"	"	Drive to simulate m.p #3 at 500 lines E.W.
5325	"	"	"	"	1h28m W	10:16:00 - 10:36:00	"	"	4x5 "	"	"	"	"	"	"	"	"	Drive Dec #8 at zero ~ 28.2 to 28.1
5326	D'Arrest	23h17m	-32° 05'	"	2h36m E	10:46:00 - 10:47:00	"	"	" "	"	"	"	"	"	"	"	"	
5327	44 Piscium	00h23m	+1° 45'	Oct 14/15	1h34m E	9:25:00 - 9:45:00	"	"	14x17 "	"	"	"	"	"	Good	3	"	
5328	"	"	"	" 16/17	0h23m W	11:13:00 - 11:33:00	"	"	" "	"	"	"	"	"	Good	3	"	
5329	Helin Obj Suspect	00h05m	± 0°	Oct 26/27	0h15 E	9:48:00 - 9:58:00	"	"	" "	"	"	"	"	"	Good	3	"	Windy. Out of focus
5330	1976 UA	"	"	"	0h16m W	10:18:00 - 10:28:00	"	"	" "	"	"	"	"	"	"	"	"	
5331	"	00h13m	-3° 00'	Oct 28/29	0h20m W	10:14:00 - 10:34:00	"	"	cut to 4x5 "	"	"	"	"	"	Good	3	"	Drive #8 at 3000 lines ~33.1 to 32.8 PA 34° from Due S to E.
5332	"	"	"	"	0h55 W	10:47:00 - 11:07:00	"	"	Cut to 4x5 "	"	"	"	"	"	"	"	"	
5333	"	"	"	Oct 30/31	3h22m W	1:02:00 - 1:26:00	AM, MST	"	" "	"	"	"	"	"	Good	3	"	Drive #8 at zero
5334	m.p. 197 Arete	7h21m	+25° 00'	Nov. 2/3	0h44m W	5:10:00 - 5:44:00	AM, MST	"	8x10 "	"	"	"	"	"	Good	3	"	
5335	" "	"	"	" 3/4	0h49m W	5:10:00 - 5:44:00	"	"	" "	"	"	"	"	"	Good	3-	"	
5336	m.p. 1604	6h40m	+31° 50'	Nov 18/19	3h52m E	10:54:00 - 11:26:00	"	"	cut to 4x5	"	"	"	"	"	Good	4	"	
5337	" 197 Arete	7 21	+24 34	"	4h04m E	11:44:00 - 11:54:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
5338	Helin Obj 1976 UB	4h17m	+20° 00'	Nov 19/20	1h08m E	11:36:00 - 11:42:00	"	"		"	"	"	"	"	Good	3	"	Not found
5339	" "	"	"	"	0h47m E	11:54:00 - 12:04:00	"	"		"	"	"	"	"	"	"	"	Drive PA 112° SE #9 at 1000 ~350:3 to 348:3 Not found
5340	" "	"	"	"	0h24m E	12:17:00 - 12:27:00	"	"		"	"	"	"	"	"	"	"	"
5341	m.p. 1604	6h40m	+31° 45'	"	2h04m E	12:39:00 - 1:10:00	"	"		"	"	"	"	"	"	"	"	
5342	" 197 Arete	7h22m	+24 35	"	2h23m E	1:21:00 - 1:32:06	"	"		"	"	"	"	"	"	"	"	
5343	1976 WA	2h32m	-25° 30'	Dec 20/21	0h13m W	8:57:00 - 9:17:00	"	"	8x8	"	"	"	"	"	Good	3+	"	Drive NE #7 @ 300 ~21.7 to 21.4 PA 62.7
5344	"	"	"	"	0 43W	9:31:00 - 9:51:00	"	"	8x8	"	"	"	"	"	"	"	"	"
5345	m.p. 1604	06h16m	+31° 25'	"	2h45m E	10:05:00 - 10:19:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
5346	"	"	"	"	2 04E	10:26:00 - 10:40:00	"	"	"	"	"	"	"	"	"	"	"	
5347	m.p. 197 Arete	7h03m	+26° 32'	"	2h35m E	10:49:00 - 10:59:00	"	"	"	"	"	"	"	"	"	"	"	
5348	"	"	"	"	2h18m E	11:06:00 - 11:16:00	"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1976-77	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
5349	1976 WA	2^h32^m	$-25°30'$	Dec 21/22	1^h22^mW	9:59:00-10:19:00	WWV	13"	8X8 103aO	W	D19	5min	68	North	Good	3	H.Gicks	
5350	m.p. 1604	6^h16^m	$+31°25'$	"	1^h55E	10:34:00-10:48:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
5351	A region	7^h03^m	$+16°20'$	"	2^h20^mE	10:58:00-11:08:00	"	"	"	"	"	"	"	"	"	"	"	
5352	m.p. 197 Arete	7^h03^m	$+26°22'$	"	1^h57^mE	11:22:00-11:32:00	"	"	"	"	"	"	"	"	"	"	"	
5353	m.p. 1604	5^h55^m	$+31°00'$	Jan 11/12	1^h34^mE	9:13:00-9:25:00	"	"	4x5 103aO	W	D19	5min	68°	N	Good	4	"	
5354	"	"	"	"	1^h16^mE	9:32:00-9:44:00	"	"	"	"	"	"	"	"	"	"	"	
5355	m.p. 197 Arete	6^h40^m	$+28°00'$	"	1^h41^mE	9:53:00-10:03:00	"	"	"	"	"	"	"	"	"	"	"	
5356	"	"	"	"	1^h25^mE	10:10:00-10:20:00	"	"	"	"	"	"	"	"	"	"	"	
5357	SAO 158687-Uranus	$14^h35.5^m$	$-14°44.4$	Feb 2/3	0^h16^mE	5:55:00-5:55:30	" AM, MST	"	"	"	"	"	"	"	Good	2+	"	
5358	"	"	"	"	0 06E	6:05:00-6:05:20	"	"	"	"	"	"	"	"	"	"	"	
5359	"	"	"	"	M.T.	6:12:00-6:12:10	"	"	"	"	"	"	"	"	"	"	"	
5360	197 Arete	$6^h19.2$	$+28°32'$	Feb. 11/12	0^h35^mE	8:36:00-8:46:00	"	"	"	"	"	"	"	"	Good	2	"	
5361	"	"	"	"	0^h10^mE	9:01:00-9:12:00	"	"	"	"	"	"	"	"	"	"	"	
5362	RV Lyncis	6^h53^m	$+52°00'$	"	0^h25^mE	9:23:00-9:31:00	"	"	"	"	"	"	"	"	"	"	"	
5363	"	"	"	"	0^h10^mE	9:38:00-9:46:00	"	"	"	"	"	"	"	"	"	"	"	
5364	197 Arete	6^h17^m	$+28°28'$	Feb 14/15	0^h01^mW	8:59:00-9:09:00	"	"	"	"	"	"	"	"	Good	3	"	
5365	"	"	"	"	0^h17^mW	9:16:00-9:26:00	"	"	"	"	"	"	"	"	"	"	"	
5366	RV Lyncis	6^h52^m	$+51°00'$	"	0^h03^mE	9:35:00-9:40:00	"	"	"	"	"	"	"	"	"	"	"	
5367	"	"		"	0^h07^mW	9:46:00-9:51:00	"	"	"	"	"	"	"	"	"	"	"	
5368	197 Arete	6^h22^m	$+28°40'$	Mar 11/12	2^h41^mW	10:05:00-10:20:00	"	"	"	"	"	"	"	"	Good	3	"	
5369	RV Lyncis	6^h51^m	$+52°$	"	2^h34W	10:35:00-10:40:00	"	"	"	"	"	"	"	"	"	"	"	
5370	~~m.p. 1976YB Search~~ 197 Arete	6^h21^m	$+28°50'$	Mar 14/15	0^h52^mW	7:57:00-8:12:00	"	"	"	"	"	"	"	"	Good	4	"	
5371	RV. Lyncis	6^h54^m	$+51°00'$	"	0^h36^mW	8:26:00-8:31:00	"	"	"	"	"	"	"	"	"	"	"	
5372	m.p. 1976YB Search	7^h52^m	$+59°00'$	"	0^h24^mW	9:01:04-9:16:04	"	"	8X8 103aO	"	"	"	"	"	"	"	"	drive SE 14° Step 7 @ 350 thru ~ 22.0
5373	"	"	"	"	0^h54^mW	9:32:00-9:47:00	"	"	"	"	"	"	"	"	"	"	"	NOT FOUND!
5374	RV Lyncis	6^h54^m	$+51°00'$	" ~	2^h20^mW	10:05:00-10:11:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
5375	"	"	"	Mar 22/23	0^h55^mW	8:14:00-8:19:00	"	"	"	"	"	"	"	"	Good	3	"	
5376	"	"	"	"	1^h07^mW	8:25:10-8:30:10	"	"	"	"	"	"	"	"	"	"	"	

1977 1977 1977 1977

		Position		DATE	H.A.	EXPOSURE			DEVELOPMENT				SEEING			
NEG#	OBJ. OR GUIDE	R.A.	DEC	1976	END	MST - AM - PM	W.E.	INST.	PLATE	tele. Posit.	KIND	TIME	TEMP	WRITING	TRANS	STEAD	OBSV.	REMARKS
5377	RV Lyncis	$6^h 52^m$	+51°	Mar 22/23	$1^h 19^m$ W	8:36:00 - 8:41:10	WWV	13"	4X5 103aO	W	D19	5m	68°	N	Good	3	HGides	
5378	197 Arete	$6^h 24^m$	+27°40'	"	$2^h 26^m$ W	8:57:00 - 9:18:00	"	"	CUT TO 4x5	"	"	"	"	"	"	"	"	
5379	RV Lyncis	$6^h 57^m$	+51°	Mar 30/31	$1^h 15^m$ W	8:03:00 - 8:07:00	"	"	4X5 103aO	"	"	3½	"	"	Poor!	3	"	Moon light + Clouds
5380	"	"	"	"	$1^h 26^m$ W	8:19:00 - 8:23:00	"	"	"	"	"	"	"	"	Poor	"	"	"
5381	"	"	"	"	$1^h 48^m$ W	8:36:00 - 8:40:00	"	"	"	"	"	"	"	"	Poor	"	"	"
5382	"	"	"	"	2h00 W	8:45:00 - 8:49:00	"	"	"	"	"	"	"	"	Fair	"	"	"
5383	"	"	"	"	2h11 W	8:58:00 - 9:02:00	"	"	"	"	"	"	"	"	Poor	"	"	"
5384	"	"	"	"	2h31 W	9:10:00 - 9:13:30	"	"	"	"	"	"	"	"	"	"	"	"
5385	"	"	"	"	2h47 W	9:31:00 - 9:34:00	"	"	"	"	"	"	"	"	"	"	"	"
5386	"	"	"	"	3h07 W	9:54:00 - 9:58:00	"	"	"	"	"	"	"	"	Fair	"	"	"
5387	"	"	"	"	3h46 W	10:28:30 - 10:32:30	"	"	"	"	"	"	"	"	Poor	"	"	"
5388	"	"	"	"	3h58 W	? 2½ min ? - 10:47:00	"	"	"	"	"	"	"	"	Fair	"	"	" Shutter open by mistake!
5389	"	"	"	"	4h08 W	10:56:00 - 10:39:00	"	"	"	"	"	"	"	"	Poor	"	"	"
5390	"	"	"	"	4h24 W	11:11:00 - 11:15:06	"	"	"	"	"	"	"	"	"	"	"	"
5391	"	"	"	"	$4^h 50^m$ W	11:38:00 - 11:41:06	"	"	"	"	"	"	"	"	"	"	"	"
5392	Uranus Field	$14^h 33^m$	-14°40'	Apr. 3/4		2:07:00 - 2:08:00	"	"	"	"	"	"	"	"	Good	2	"	Full Moon
5393	"	$14^h 28^m$	-14°10'	"	$0^h 07^m$ W	2:16:00 - 2:16:40	"	"	"	"	"	5 min	"	"	"	"	"	"
5394	RV Lyncis	$6^h 54^m$	+51°00'	Apr. 7/8	$1^h 50^m$ W	8:06:00 - 8:10:00	"	"	"	"	"	"	"	"	Good	2	"	
5395	"	"	"	"	2h06 W	8:18:00 - 8:26:00	"	"	"	"	"	"	"	"	"	"	"	4 image sequence 1st, 2x Exposure
					2:30 W	8:46:00 - 8:50:00												
5396	"	"	"	"	2:43 W	8:59:00 - 9:03:00	"	"	"	"	"	"	"	"	"	"	"	"
					3:03 W	9:18:00 - 9:22:00												
5397	"	"	"	"	3:13 W	9:28:00 - 9:32:00	"	"	"	"	"	"	"	"	"	"	"	
5398	"	"	"	"	3:22 W	9:38:00 - 9:42:00	"	"	"	"	"	"	"	"	"	"	"	Two Exposures
					3:30 W	9:46:00 - 9:50:00												
5399	"	"	"	"	3:42 W	9:58:00 - 10:02:00	"	"	"	"	"	"	"	"	"	"	"	"
					3:50 W	10:06:00 - 10:10:00												
5400	"	"	"	"	4:02 W	10:18:00 - 10:22:00	"	"	"	"	"	"	"	"	"	"	"	"
					4:12 W	10:28:00 - 10:32:00												
5401	"	"	"	"	4:30 W	10:46:00 - 10:50:00	"	"	"	"	"	"	"	"	"	"	"	"
					4:42 W	10:58:00 - 11:02:00												
5402	"	"	"	"	4:58 W	11:13:00 - 11:17:00	"	"	"	"	"	"	"	"	"	"	"	Two Exposure
5403	"	"	"	"	5:13 W	11:28:00 - 11:32:00	"	"	"	"	"	"	"	"	"	"	"	
					5:27 W	11:43:00 - 11:47:00												
5404	"	"	"	Apr. 13/14	$2^h 00^m$ W	7:52:00 - 7:56:00	"	"	"	"	"	"	"	"	"	"	"	Two Exposure
5405	"	"	"	"	2:14 W	8:05:00 - 8:09:00	"	"	"	"	"	"	"	"	"	"	"	4 exposures on plate begin + end recorded by
					2:44 W	8:35:00 - 8:40:00												

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1977	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
5406	RV Lyncis	6h54m	+51°00'	Apr. 13/14	3:00 W	8:52:00 - 8:56:00	WWV	13"	HX5 103a O	W	D19	5m	68°	N	Good	3	H Giclas	H exposures on plate (begin + end listed here)
5407	"	"	"	"	3:32 W	9:24:00 - 9:28:00		"	"	"	"	"	"	"	"	"	"	"
5408	Helin Suspect m.p.	12h57m	+35°00'	Apr 18/19	3:45 W 4:15 W	9:37:00 - 9:41:00 10:07:00 - 10:11:00	"	"	14X17 103a O	"	"	"	"	"	Poor to Fair	"	"	
5409	Helin ∈	12h29m	-8°30'	"	1h05m E	10:15:00 - 10:35:00	"	"	4X5 103a O	"	"	"	"	"	Fair+	"	"	Drive SW 35° @ #9, 2 sec dec ~ 55.5
5410	Helin ∈	"	"	"	0h01 E	10:56:00 - 11:11:00	"	"	4X5 "	"	"	"	"	"	"	"	"	"
5411	Helin m.p. Suspect	12h57m	+35°00'	"	0h26m W	11:23:00 - 11:38:00	"	"	14X17 103a O	"	"	"	"	"	"	"	"	
5412	∈ 1977e Helin	12h14.5m	-10°50'	Apr. 21/22	0h39m W	11:58:00 - 12:18:00	"	"	4X5 "	"	"	"	"	"	Good	3	"	Drive SW 35° @ 9, 11.2 thru ~ 58.8
5413	"	"	"	"	0h34m W	11:05:00 - 11:20:00	"	"	4X5 "	"	"	"	"	"	"	"	"	"
5414	1977 HA Helin, m.p.	13h12m	+34°50'	"	1h00m W	11:30:00 - 11:45:00	"	"	4X5 "	"	"	"	"	"	"	"	"	Drive SE 40°, #7, 400 dec ~ 22.2
5415	1977 HA "	"	"	"	0h40m W	12:03:00 - 12:23:00	"	"	4X5 "	"	"	"	"	"	"	"	"	"
5416	"	13h19m	+34°30'	Apr 24/25	1h12m W	12:35:00 - 12:55:00	"	"	4X5 "	"	"	"	"	"	Good	3	"	Drive SE 27° #6 @ 800 ~ 18.5 to 18.1
5417	"	"	"	"	1h06m W	12:05:00 - 12:45:00	"	"	4X5 "	"	"	"	"	"	"	"	"	"
5418	1977 HB Kowal m.p.	13h53m	-13°38'	Apr. 25/26	2h00m W	12:57:00 - 1:37:00	"	"	4X5 "	"	"	"	"	"	Poor	3	"	Drive SW, 14° #9 @ 20 to ~ 54.2
5419	" "	"	"	"	0h13m W	12:10:00 - 12:20:00	"	"	4X5 "	"	"	"	"	"	Fair	"	"	
5420	" "	"	"	"	0h53m W	12:51:00 - 1:01:00	"	"	4X5 "	"	"	"	"	"	"	"	"	"
5421	" "	13h39m	-14°18'	Apr. 28/29	1h10m W	1:07:00 - 1:18:00	"	"	4X5 "	"	"	"	"	"	Good	3	"	Bright Moonlight
5422	" "	"	"	"	0h25m E	11:13:00 - 11:17:00	"	"	"	"	"	"	"	"	"	"	"	"
5423	" "	"	"	"	0h17m E	11:23:00 - 11:25:00	"	"	"	"	"	"	"	"	"	"	"	"
5424	∈ 1977e Helin	11h15m	-20°40'	May 4/5	0h08m E	11:31:00 - 11:33:00	"	"	"	"	"	"	"	"	Good	3	"	Drive 35° SW ~ 36.6
5425	∈ 1977 E Helin	11h15m	"	"	0h04 E	8:30:00 - 8:50:00	"	"	cut to 4X5	"	"	"	"	"	"	"	"	"
5426	Trans. Venus m.p. Search	7h51m	+30°50'	May 17/18	0h26m W	9:01:00 - 9:21:00	"	"	8X8 103a O	"	"	"	"	"	Good	2	"	
5427	"	"	"	"	4h24m W	8:42:00 - 9:02:00	"	"	14X17 103a O	"	"	"	"	"	"	"	"	
5428	1977 H.B. Kowal m.p.	13h00m	-16°50'	"	4h54m W	9:13:00 - 9:34:00	"	"	"	"	"	"	"	"	"	3	"	Drive SW 22.2° #3 @ 800 ~ 9.8, 9.7
5429	" "	"	"	"	0h34m W	9:53:00 - 10:23:00	"	"	"	"	"	"	"	"	"	"	"	BROKEN THROUGH OUT
5430	1960 UA, Giclas dif	18h05m	-16°00'	June 10/11	1h15m W	10:34:00 - 11:04:00	"	"	"	"	"	"	"	"	Good	4+	"	Drive SW 20° Step #5 @ 100 ~ 12.3 to 12.1
5431	"	"	"	"	0h20m E	11:58:00 - 12:58:00	"	"	8X8 "	"	"	"	"	"	"	"	"	"
5432	m.p. 1767 Lampland	19h26m	-7°07'	"	0h56m W	1:14:00 - 2:14:00	"	"	8X8 "	"	"	"	"	"	"	"	"	
5433	"	"	"	June 12/13	0h12m W	2:30:00 - 2:50:00	"	"	14X17 103a O	"	"	"	"	"	Good	4	"	
5434	"	"	"	June 14/15	0h19m W	2:30:00 - 2:50:00	"	"	"	"	"	"	"	"	Good	3	"	

NEG. #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1977	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 (Blinked & Not found)
5435	& Encke Search	3h 21m	+24°50'	June 14/15	6h 37m E	3:39:00 - 3:45:00	WWV	13"	8x8 103aO	W	D19	5m	68°	N	Good	1		Low in East, caught by morning Twilight
5436	"	3h 42m	+26°00'	June 19/20	6h 37m E	3:31:00 - 3:41:00	"	"	"	"	"	"	"	"	Good	2	"	Drive 14° NE #8@600 ~ 39.6 6.3
5437	"	4h 04m	+27°40'	June 26/27	6h 25m E	3:33:00 - 3:48:00	"	"	"	"	"	"	"	"	Fair	1	"	Drive NE 11° #8@825 ~ 45.3
5438	Pallas Region	10h 58.5	+12°16'	July 5/6	4h 27m W	8:57:00 - 8:59:00	"	"	4x5 103aO	"	"	"	"	"	Good	2	"	
5439	"	"	"	"	4h 36m W	9:07:00 - 9:08:00	"	"	"	"	"	"	"	"	"	"	"	
5440	"	"	"	"	4h 43m W	9:15:00 - 9:16:00	"	"	"	"	"	"	"	"	"	"	"	
5441	"	"	"	"	4h 51m W	9:23:00 - 9:25:00	"	"	"	"	"	"	"	"	"	"	"	
5442	"	10h 57m	+11°50'	July 6/7	4h 54m W	9:21:00 - 9:22:00	"	"	"	"	"	"	"	"	Poor	2	"	
5443	"	"	"	"	5h 02m W	9:30:00 - 9:31:00	"	"	"	"	"	"	"	"	"	"	"	
5444	"	"	"	"	5:22 W	9:47:00 - 9:49:00	"	"	"	"	"	"	"	"	"	"	"	
5445	1960 UA	17h 32m	-13°35'	July 7/8	0h 55 W	10:33:00 - 11:53:00	"	"	"	"	"	"	"	"	Good	2	"	drive NW 11° #6@800 ~ 18.2
5446	"	"	"	July 9/10	0h 04 W	10:15:00 - 10:55:00	"	"	"	"	"	"	"	"	Good	2	"	"
5447	mp 1767 Lampland	19h 08m	-7°00'	"	0h 44 E	11:12:00 - 11:42:00	"	"	cut to 4x5	"	"	"	"	"	"	"	"	Drive SW 13° #3@500 ~ 9.2
5448	& Encke	6h 11m	+29°00'	July 18/19	6h 39m E	4:12:08 - 4:15:08	Correct	"	103aD 4x5	"	"	"	"	"	Good	2	"	
5449	"	6h 18m	+29°30'	" 19/20	6h 52m E	3:59:00 - 4:05:00	WWV	"	4x5 103aO	"	"	"	"	"	Good ±	2	"	drive 3° SE #9@230 ~ 66.0
5450	"	7h 42m	+25°30'	July 31/Aug 1	7h 06 E	4:30:00 - 4:32:00	"	"	8x8 "	"	"	"	"	"	Good	2	"	drive 17° SE #9@182 & Behind Trees, No ⊕
5451	SAO 085009	17h 17.6	+25°30'	Aug 4/5	0h 49 W	9:42:00 - 9:43:00	"	"	4x5 103aO	"	"	"	"	"	Good	3	"	For Pallas Occ.
5452	"	"	"	"	1 01 W	9:51:00 - 9:55:00	"	"	"	"	"	"	"	"	"	"	"	
5453	"	"	"	"	1 10 W	10:02:00 - 10:04:00	"	"	"	"	"	"	"	"	"	"	"	
5454	"	"	"	"	1 17 W	10:10:00 - 10:11:00	"	"	"	"	"	"	"	"	Poor	"	"	clouds
5455	# 1767 Lampland	18h 50.1m	-7°58'	Aug 7/8	0h 22m W	10:06:00 - 10:36:00	"	"	8x10	"	"	"	"	"	Good	4	"	
5456	G22 Region	19h 05m	+0°36'	Sept 3/4	0h 32m W	8:53:00 - 9:15:00	"	"	14x17 103aO	"	"	"	"	"	Good to Fair	3	"	
5457	"	"	"	Sept 5/6	0 30 W	8:46:00 - 9:06:00	"	"	"	"	"	"	"	"	Good	"	"	
5458	mp # 1741 Giclas	23h 33m	-7°12'	"	3h 10m E	9:29:00 - 9:54:00 Clouds last 5 min	"	"	8x8 "	"	"	"	"	"	Good to Poor	"	"	Drive 20° SW #3 at 650 ~ 9.4 cut off by clouds
5459	Kohler &	15h 28m	+28°40'	Sept 6/7	3h 06m W	7:54:00 - 8:00:00	"	"	8x10 cut to 4x5 "O"	"	"	"	"	"	Good	2	"	
5460	"	"	"	"	3h 30m W	8:16:00 - 8:24:00	"	"	8x10 103aO	"	"	"	"	"	Fair to Poor	"	"	Last 4 min thin clouds
5461	mp 1741 Giclas	23h 33m	-7°12'	Sept 7/8	1h 05m E	11:31:00 - 11:51:00	"	"	8x8 "	"	"	"	"	"	Good	3	"	Drive 20° SW #3@650 ~ 9.4
5462	& Chernych	00h 15m	-4°00'	"	1h 11m E	12:07:00 - 12:27:00	"	"							"	"	"	

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1977	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
5463	ε 1977M Kohler	15h31m	+27°55'	Sept 8/9	3h41mW	8:23:00-8:30:00	WWV	13"	4X5 103aO	VV	D19	5m	68	N	Good	3	H.Giclas	
5464	"	"	"	"	3h57mW	8:38:00-8:45:00	"	"	"	"	"	"	"	"	"	"	"	
5465	"	15h31m	+27°40'	Sept 14/15	4h57mW	9:12:00-9:22:00	"	"	"	"	"	"	"	"	Good	3-	"	
5466	1977RA Wild	22h59m	+17°35'	Sept 15/16	1h15mW	12:50:00-1:05:00	"	"	4X5	"	"	"	"	"	Good-	3-	"	
5467	ε 1977l Chernykh	00h13m	-5°10'	Sept 15/16	0h24mW	1:18:00-1:28:00	"	"	"	"	"	"	"	"	"	"	"	
5468	ε 1977M Kohler	15h52m	+25°00'	Sept 17/18	3h46mW	8:13:00-8:21:00	"	"	4X5 103aO	"	"	"	"	"	Good	3+	"	
5469	"	"	"	"	4h02mW	8:29:00-8:37:00	"	"	"	"	"	"	"	"	"	"	"	
5470	#1741 Giclas 1960BC	23h25m	-8°25'	"	2h08mE	9:15:00-10:00:00	"	"		"	"	"	"	"	"	"	"	Drive SW 20° #3@600 ~ 9.3
5471	Helin Obj	23h43m	+12°18'	"	1h38mE	10:28:00-10:48:00	"	"	8X8	"	"	"	"	"	"	"	"	Drive NW 27° #7@420 ~ 22.1
5472	"	"	"	"	1h22mE	10:56:00-11:04:00	"	"	4X5	"	"	"	"	"	"	"	"	
5473	ε 1977l Chernykh	00h11m	-5°25'	"	1h34mE	11:14:00-11:20:00	"	"	"	"	"	"	"	"	"	"	"	
5474	"	"	"	"	1h20mE	11:26:00-11:34:00	"	"	"	"	"	"	"	"	"	"	"	
5475	1977RA Wild	22h59m	+17°40'	Sept 18/19	0h10mE	11:12:00-11:28:00				"	"	"	"	"	(Good)	4	"	
5476	~~Bus-Laar~~ Helin Obj 1977RB	23h43m	+12°18'	"	0h23mE	11:39:00-11:59:00				"	"	"	"	"	"	"	"	Drive NW 27° #7@420 ~22.2
5477	"	23 41	+12 18	"	0 06 E	12:05:00-12:13:00			4X5 103aO	"	"	"	"	"	"	"	"	
5478	1960BC Giclas	23h25m	-8°20'	"	1h12mW	12:31:00-1:16:00			CaT 4X5 103aO	"	"	"	"	"	"	"	"	Drive SW 20° #3@600 ~ 9.3
5479	ε 1977l Chernykh	00h10m	-5°25'	"	0h45mW	1:26:00-1:34:00			4X5 103aO	"	"	"	"	"	"	3	"	
5480	m.p. 1741 Giclas	23h11m	-9°40'	Oct. 3/4	0h58mE	9:17:00-9:47:00			8X10	"	"	"	"	"	Fair	3	"	
5481	ε 1977l Chernykh	00h02m	-6°40'	"	1h3mE	10:00:00-10:06:00			4X5 103aO	"	"	"	"	"	"	"	"	
5482	m.p 1741 Giclas	23h11m	-9°40'	Oct 4/5	1h28mE	8:48:00-9:18:00			8X10	"	"	"	"	"	Fair+	3	"	
5483	ε 1977l Chernykh	00h02m	-6°40'	"	1h55mE	9:32:00-9:44:00			4X5 103aO	"	"	"	"	"	"	"	"	
5484	ε 1977M Kohler	16h15½	+14°10'	Oct 10/11	3h29mW	7:36:00-7:37:00			4X5 103aO	"	"	"	"	"	Good	3	"	
5485	"	"	"	"	3h36mW	7:44:30-7:45:00			"	"	"	"	"	"	"	"	"	
5486	G076 BO -13° 386	2h 05.8	-12°34	Oct 11/12	0h24mE	11:55:15-12:15:15	WWV	13"	14X17 103aO	"	"	"	"	"	"	"	N.Thomas	
5487	G076 "	"	"	"	0h51mW	12:25:00-12:45:00	WWV	13"	14X17 IaE	"	"	"	"	"	"	"	"	2 exposure interrupts to adj. dome slot.
5488	"	"	"			12:48:00-13:18:00												
5489	"	"	"	Oct 12/13	1h16E	13:21:00-13:46:00		"	14X17 103aO	"	"	"	"	"	"	"	"	
5490	ε Kohler 1977M	17h11m	+11°40'	Oct 14/15	3h22mW	11:30:00-11:50:00		"	14X17 IaE	"	"	"	"	"	"	3-4	"	
					0h10W	12:00:00-13:15:00		"	4X5 103aO	"	"	"	"	"	Good	3	H.Giclas	
					3h22mW	7:27:00-7:28:00												

NEG #	Object or Guide Star	Position R.A.	Position Dec	DATE 1977-	H.A End	EXPOSURE M.S.T. - A.M. P.M.	Watch Error
5491	⊕ Kohler 1977M	17h11m	+11°40'	Oct 14/15	3h33mW	7:37:00 - 7:38:00	WWV
5492	mp #1741 Giclas	23h07m	-9°20'	Oct 17/18	1h50mW	10:41:00 - 11:41:00	"
5493	⊕ 1977L Chernykh	23h55m	-7 30	"	1h36mW	11:55:12 - 12:15:12	"
5494	⊕ 1977M Kohler	18h18.5m	-00 24'	Oct 30/31	2h32mW	6:52:00 - 6:53:00	"
5495	"	"	"	"	2h47mW	6:59:00 - 6:59:30	"
5496	"	"	"	"	3:20mW	7:12:00 - 7:32:00	"
5497	"	18h39m	-3°50'	Nov. 3/4	2h31mW	6:47:00 - 6:47:20	"
5498	"	"	"	"	2h38mW	6:54:00 - 6:54:12	"
5499	"	"	"	"	3h18mW	7:04:00 - 7:34:00	"
5500	⊕ 1977L Chernykh	23h51m	-8°00'	"	1h11mE	7:58:00 - 8:18:00	"
5501	GC2276 BD-13° 386	2h05.8	-12°34	Nov 8/9	0h34E	10:25:15 - 10:45:15	?
5502	" "	"	"	"	0h01W	11:00:00 - 11:20:00	?
5503	Helin #2 Obj VB	1h14.5m	+8°22'	Nov 9/10	0h03W	10:16:00 - 10:30:00	"
5504	"	"	"	"	0h24mW	10:42:00 - 10:52:00	"
5505	1977VA Helin	2h29m	+13°50'	"	0h06mE	11:14:00 - 11:34:00	"
5506	Helin #4	3h05m	+19°20'	"	0 16E	11:47:00 - 12:02:00	"
5507	"	"	"	"	0h08mW	12:11:00 - 12:26:00	"
5508	⊕ 1977Q GC 1353,4	1h04.6	-2°00	Nov 10/11		10:00:00 - 10:00:00	"
5509	"	"	"	"		10:25:00 - 10:35:15	"
5510	MP? GC276 BD-13 386	2h05.8	-12°34	"		10:55:00 - 11:05:00	"
5511	"	"	"	"		11:20:00 - 11:30:00	"
5512	⊕ 1977Q	1h08m	+2°20'	Nov 12/13	0h28mE	9:30:00 - 9:42:00	"
5513	1977VB Helin	1h17m	+6°28'	"	0h03E	10:00:00 - 10:16:00	"
5514	"	"	"	"	0h17W	10:30:00 - 10:46:00	"
5515	1977VA Helin	2h39m	+13°40'	"	0h10mE	11:12:00 - 11:32:00	"
5516	m.p. VC	3h05m	+19°50'	"	0h04mE	11:47:00 - 12:02:00	"
5517	⊕ 1977Q	0h59m	+1°06'	Nov 14/15	0h56E	8:44:00 - 9:00:00	"
5518	1977VB	1h20m	+5°10'	"	0h31mE	9:19:00 - 9:43:00	"
5519	m.p. VB VC	2h55m	+20°40'	"		10:59:00 - 11:03	"

Telescope	PLATE Brand + Size	Telescope / Pier	DEVELOPMENT Kind	Time	Temp	Writing on Plate	SEEING Trans.	Stead.	Observer	REMARKS
13"	4X5 103aO	W	D19	5m	68	N	Good	3	H.Giclas	
"	103aO	W	"	"	"	"	Good	3	"	
"	4X√ "	W	"	7m	"	"	"	"	"	
"	4X√ "	"	"	5m	"	"	Good	3	"	
"	4X√ "	"	"	"	"	"	"	"	"	
"	8X8 "	"	"	"	"	"	"	"	"	Drive 36°SW #9@240 ~66.6
"	4X√ "	"	"	"	"	"	Good	3	"	
"	" "	"	"	"	"	"	"	"	"	
"	8X8 "	"	"	6m	"	"	"	"	"	Drive 35°SW #9@275 ~69.0
"	4X√ "	"	"	5m	"	"	"	"	"	
"	14X17 103aO	W	"	"	"	"	"	"	W Thomas	
"	14X17 103aO	W	"	"	"	"	"	"	"	
"	cut to 4X5	"	"	"	"	"	Good	3	H.Giclas	Drive #8@830 secs SE PA 167° ~46.0
"	~~cut to 4X5~~ 8X10	"	"	"	"	"	"	"	"	Drive #8@390 secs PA 100° SE ~34.6)
"	4X5	"	"	"	"	"	"	"	"	#555 as driven as above
"	8X16 "	"	"	"	"	"	"	"	"	
"	4X5 "	"	"	"	"	"	"	"	"	
"	8X10 103aO	"	"	"	"	"	fair	+4	W.Thomas	some Haze
"	" "	"	"	"	"	"	"	+3	"	" "
"	14X5 "	"	"	"	"	"	"	+3	"	" "
"	" "	"	"	"	"	"	"	+3	"	" "
"	8X10 cut to 4X5 "	"	"	"	"	"	Good	3	H.Giclas	
"	8X8 cut to 4X5 "	"	"	"	"	"	"	"	"	Drive SE #8@345 secs PA 164°, ~33.7
"	8X8 8X8 "	"	"	"	"	"	"	"	"	"
"	8X8 cut to 4X5 "	"	"	"	"	"	"	"	"	Drive SE #8@374 secs PA 100° ~34.1
"	8X10 cut to 4X5 "	"	"	"	"	"	"	"	"	
"	4X5 103aO "	"	"	"	"	"	Fair	3	"	Drive SE PA 161.4° Clouds
		"	"	"	"	"	Fair to Poor	"	"	#8 at 238 ~32.0
	4X5 "	"	"	"	"	"	Poor	"	"	Cut off by clouds

NEG #	OBJECT OR GUIDE STAR	Position R.A.	Position DEC	DATE 1977-78	H.A. END	EXPOSURE MST - AM-PM	Watch Error	INST.	PLATE	Telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING Stead.	OBSV.	REMARKS
5520	Bright m.p. 1977 VC	2h 55m	+20° 35'	Nov. 15/16	0h 55m W	12:26:00 - 12:40:00	WWV	13"	103a O	N	D19	5m	68	North	Good	2+	H. Giclas	
5521	MP? from G276	1h 50	-12° 35	Nov 28/29	2h 09 E	7:26:00 - 7:36:00	?	"	4x5 103a O	W	"	"	"	"	"	2	N. Thomas	
5522	"	"	"	"	1h 51 E	7:44:00 - 7:54:00	?	"	" "	"	"	"	"	"	"	"	"	
5523	Kohler, 1977 M	21h 41.3m	-28° 50'	Dec 6/7	1h 33m W	6:42:00 - 6:42:30	WWV	"	4x5 103a O	"	"	"	"	"	Good	3	H. Giclas	
5524	π Capri	20h 25m	-18° 30'	"	3h 23m W	6:55:00 - 7:15:00	"	"	14x17 103a O	"	"	"	"	"	"	"	"	
5525	Chernykh 1977 l	00h 05m	-5°	"	0h 17m W	7:35:00 - 7:50:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
5526	1977 VC	2h 27m	+22° 50'	"	1h 43m E	8:03:00 - 8:13:00	"	"	" "	"	"	"	"	"	"	"	"	
5527	"	"	"	"	1h 26m E	8:19:00 - 8:29:00	"	"	" "	"	"	"	"	"	"	"	N. Thomas	
5528	MP G276 N } Guide	1h 49.2	-8° 29	Dec 12/13	0h 4m E	8:30:00 - 8:45:00	"	"	4x5 103a O	"	"	"	"	"	"	"	"	
5529	" } -8° 32	1 49.2	-8° 21'	"	0h 21m W	8:55:00 - 9:10:00	"	"	" "	"	"	"	"	"	"	"	"	
	G-241			1978														
5530	G-241	23h 11m	+64° 40'	Jan 7/8	3h 22m W	7:34:00 - 7:54:00	WWV	"	14x17 103a O	"	"	"	"	"	Good	3	H. Giclas	
5531	"	"	"	Jan 8/9	2h 05m W	6:53:00 - 7:13:00	"	"	" " "	"	"	"	"	"	Good	3	"	
5532	GD 552	22h 47.5	+63 08	"	3h 47m W	7:30:00 - 7:51:00	"	"	4x5 103a O	"	"	"	"	"	"	"	"	Drive NE 37° Step #3 @ 650
5533	Thomas m.p.	2h 04m	-2° 20'	"	1h 14m W	8:14:00 - 8:34:00	"	"	CUT TO 4x5 "	"	"	"	"	"	Good	"	"	haze up. BLINKED, NOT VISIBLE
5534	1977 VC	2h 17m	+27° 35'	"	1h 34m W	8:52:00 - 9:12:00	"	"	4x5 103a O	"	"	"	"	"	Good	3	"	
5535	44 Piscium	00h 23m	+1° 45'	Jan 26/27	3h 51m W	7:02:00 - 7:22:00	"	"	14x17 103a O	"	"	"	"	"	"	"	"	
5536	G246	3h 08m	+63° 45'	"	0h 42m W	7:38:00 - 7:58:00	"	"	" " "	"	"	"	"	"	"	"	"	Search for of 1978b but Too hi in δ
5537	A Region at	5h 12m	+30° 00'	"	1h 00m E	8:07:00 - 8:17:00	"	"	8x10 "	"	"	"	"	"	Good	3+	"	
5538	G246	3h 09m	+63° 46'	March 7/8	3h 35m W	7:44:00 - 8:04:00	"	"	14x17 103a O	"	"	"	"	"	"	"	"	
5539	Wild (2) 1978 b	5h 34m	+21° 54'	Tues-Wed	1h 38m W	8:30:00 - 8:40:00	"	"	4x5 "	"	"	"	"	"	"	"	"	Otto Franz guiding light went out.
5540	m.p. 1313 Bernica	6h 49m	+21° 37'	"	1h 10m W	8:51:00 - 9:28:00	"	"	" " "	"	"	"	"	"	"	"	"	Short Exp for comp stars
5541	"	"	"	"	1h 27m W	9:40:00 - 9:45:00	"	"	" " "	"	"	"	"	"	"	"	"	Drive NW ~ 159 PA 252°
5542	78CA Schuster	9h 56m	+28 00'	"	1h 03m E	10:12:00 - 10:22:00	"	"	103a O	"	"	"	"	"	"	"	"	"
5543	"	"	"	"	0h 39m E	10:35:00 - 10:45:00	"	"	" " "	"	"	"	"	"	"	"	"	Drive NE PA 60° ~159-
5544	78DA Schuster	12h 42m	-6° 00'	"	2h 27m E	11:27:00 - 11:43:00	"	"	" " "	"	"	"	"	"	"	"	"	"
5545	"	"	"	"	1h 58m E	11:57:00 - 12:13:00	"	"	" " "	"	"	"	"	"	"	"	"	
5546	Vesta	16h 53m	-15° 28'	"	1h 02m E	5:18:00 - 5:20:00 AM	"	"	8x10 "	"	"	"	"	"	"	"	"	

NEG. #	OBJECT OR GUIDE STAR	Position R.A.	Position DEC.	DATE 1978	H.A. END	EXPOSURE MST-AM-PM	Watch ERROR
5547	Vesta	16h53m	-15°28'	March 7/8	0h50mE	5:30:00-5:31:00	WWV
5548	Pallas	17h21m	+10°30'	"	1h03mE	5:45:00-5:47:00	"
5549	"	"	"	"	0h55mE	5:53:00-5:54:00	"
5550	Vesta	16h58mm	-15°36'	March 14/15	0h52E	5:05:00-5:06:00	"
5551	"	"	"	"	0h45E	5:14:00-5:15:00	"
5552	Pallas	17h28m	+12°00'	"	1h02E	5:26:00-5:27:00	"
5553	Vesta	16h58m	-15°36'	March 16/17	1h22mE	4:27:00-4:29:00	"
5554	Pallas	17h28m	+12°20'	"	1h32mE	4:48:00-4:49:00	"
5555	Vesta	16h58m	-15°36'	"	0h47mE	5:01:00-5:03:00	"
5556	Bradfield Region	22h22m	+1°24'	"	5h47mE	5:27:00-5:28:00	"
5557	Vesta	16h58m	-15°36'	Mar 17/18	1h10mE	4:34:00-4:36:00	"
5558	Pallas	17h38m	+17°50'	Apr 11/12	0 09 E	4:36:00-4:38:00	"
5559	"	"	"	"	M.T.	4:45:00-4:47:00	"
5560	" Region	17h28m	+22°30'	Apr 18/19	0h16mW	4:25:00-4:27:00	"
5561	" "	"	"	"	0h28mW	4:37:00-4:39:00	"
5562	"	17h38m	+19°15'	"	0h35mW	4:54:00-4:56:00	"
5563	Meier	7h18m	+54°	Apr. 26/27	5.31mW	10:43:00-10:53:00	"
5564	"	"	"	"	5h51mW	11:03:00-11:13:00	"
5565	"	"	"	Apr 27/28	4h10mW	9:30:00-9:34:00	"
5566	"	"	"	"	4h24mW	9:44:00-9:48:00	"
5567	197 Arete	11h24m	+16°05'	"	0h59W	10:01:00-10:31:00	"
5568	1978F Meier	7h26mm	+52°10'	May 3/4	3h28mW	8:35:00-8:39:00	"
5569	"	"	"	"	3h43W	8:49:00-8:53:00	"
5570	~~197 Arete~~ Not	11h23m	+16°00'	"	0h23W	9:10:00-9:30:00	"
5571	Pallas	17h26m	+23°40'	"	4h05mW	4:12:00-4:14:00 AM MST	"
5572	"	"	"	"	1h16mW	4:22:00-4:24:00	"
5573	1978F Meier	7h31m	+51°20'	May 7/8	3h44W	8:37:00-8:41:00	"
5574	"	"	"	"	3h54W	8:49:00-8:53:00	"

INST.	PLATE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD.	OBSV	REMARKS
13"	8x10 103aO	W	D19	5m	68	N	Good-	3	HGiclas	
"	4x5 103aO	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	Fair	"	"	Thin cirrus
"	"	"	"	"	"	"	Good	2	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	(Good)	3	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	1	"	no ☄ on plate
"	"	"	"	"	"	"	Good	2	"	
"	"	"	"	"	"	"	Good-	3	"	
"	"	"	"	"	"	"	"	"	"	
"	8x10 103aO	"	"	"	"	"	Good	3	"	
"	"	"	"	"	"	"	"	"	"	
"	4x5 103aO	"	"	"	"	"	Good-	3	"	Shooting!
"	4x5	"	"	"	"	"	Fair	"	"	
"	8x10	"	"	"	"	"	Good	3+	"	
"	4x5	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	CUT TO 4x5	"	"	"	"	"	Good-	3	"	
"	8x10	"	"	"	"	"	"	"	"	
"	4x5	"	"	"	"	"	"	"	"	Not correct setting?
"	8x10	"	"	"	"	"	Fair	"	"	
"	8x10	"	"	"	"	"	Fair+	"	"	Thin cloud cover
"	4x5	"	"	"	"	"	Good	"	"	
"	"	"	"	"	"	"	"	"	"	

[redacted] #	NEG. #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1978	H.A. END	EXPOSURE MST- AM-PM	W.E.
	5575	(197) Arete	11h21m	+16°10'	May 7/8	0h40mW	9:07:00-9:29:00	WWV
	5576	Pallas	17h24m	+24°20'	May 8/9	1h12mW	3:57:00-3:59:30	"
	5577	"	"	"	"	1h23mW	4:08:00-4:10:00	"
	5578	& 1978F Meier	7h34.5m	+50°40'	May 9/10	3h40mW	8:33:00-8:35:00	"
	5579	"	"	"	"	3 54 W	8:44:00-8:48:00	"
	5580	Arete (197)	11h20m	+15°45'	"	0h39mW	9:00:00-9:20:00	"
	5581	m.p. 1978 GD	13h54m	-10°00'	"	1h24mE	9:30:00-9:50:00	"
	5582	Pallas	17h23m	+24°20'	May 11/12	1h43mE	12:51:00-12:53:00	"
	5583	& 1978F Meier	7h38m	+49°40'	May 12/13	3h49W	8:33:00-8:35:00	"
	5584	"	"	"	"	4h02mW	8:44:00-8:46:00	"
	5585	Pallas	17h23m	+24°20'	May 15/16	1h06E	1:11:00-1:13:00	"
	5586	"	"	"	"	0h54mE	1:23:00-1:25:00	"
	5587	" SAO 85009	17h18m	+25°28'	May 16/17	0h28mE	1:41:00-1:43:00	"
	5588	" "	"	"	May 17/18	1h22mE	12:41:00-12:43:00	"
	5589	" "	"	"	May 21/22	0h11mE	1:38:00-1:39:00	"
	5590	" "	"	"	May 25/26	0 06W	1:40:00-1:41:00	"
	5591	Meier & 1978F	8h00m	+46 20'	May 27/28	4h40mW	8:46:00-8:49:00	"
	5592	Debeghone m.p.	13h47m	-10°00'	"	0h33E	9:01:00-9:21:00	"
	5593	A Region	17h47m	+25°30'	"	4h14mE	9:23:00-9:25:00	"
	5594	Pallas	17h17m	+25°40'	"		9:45:00-9:47:00	"
	5595	"	"	"	"			
	5596	"	"	"	May 28/29	3h11mE	10:11:00-10:13:00	"
	5597	"	"	"	"	2:52E	10:29:00-10:31:00	"
	5598	Meier & 1978F	8h07m	+44°57'	"	2:22E	10:59:00-11:01:00	"
	5599	"	8h09m	+44 30'	June 1/2	5h17mW	9:11:00-9:13:00	"
	5600	Arete (197)	11h27m	+14°15'	June 2/3	5h00mW	8:53:00-8:55:00	"
	5601	1978 GD m.p.	13h30m	-10°00'	"	2h18mW	9:12:00-9:32:00	"
	5602	Pallas	17h15m	+16°00'	"	0h45mW	9:42:00-10:02:00	"
						2h45E	10:14:00-10:16:00	"

CENST.	PLATE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
13"	4X5 103a O	W	D19	5m	68°	N	Good	3	HGides	
"	8X10 "	"	"	"	"	"	Fair+	3	"	Thin haze + clouds
"	" "	"	"	"	"	"	"	"	"	"
"	4X5 103a O	"	"	"	"	"	Good	3	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	8X10 "	"	"	"	"	"	Good	2	"	
"	4X5 "	"	"	"	"	"	Good	2	"	
"	" "	"	"	"	"	"	"	"	"	
"	8X10 "	"	"	"	"	"	Good	2	"	
"	8X10 "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	Good	3	"	
"	" "	"	"	"	"	"	Good	2	"	
"	" "	"	"	4m-	"	"	Good	2+	"	Bright Moonlight-Full
"	" "	"	"	"	"	"	Good	3	"	" "
"	4X5 103a O	"	"	5m	"	"	Good	3	"	
"	"	"	"	"	"	"	"	"	"	
"	4X5 "	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	Good	3	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	Good	3	"	
"	" "	"	"	"	"	"	Good	3	"	
"	" "	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	4X5 "	"	"	"	"	"	"	"	"	

NEG. #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1978	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
5603	← 1978F, Meier	8h44m	+38°40'	June 25/26	6h06W	9:04:00-9:05:00	WWV	13"	HX5 103a O	W	D19	5m	68°	N	Good	3+	HGibbs	
5604	" "	"	"	"	6h18mW	9:14:00-9:16:00	"	"	" " "	"	"	"	"	"	"	"	"	
5605	" "	8h54m	+37°00'	June 30 July 1	6h21mW	9:08:00-9:09:00	"	"	" " "	E	"	"	"	S	Good	2-	"	
5606	Regulus	10h06m	+12°12'	"	4h45W	9:25:00-9:45:00	"	"	14X17 103a O	E	"	"	"	S	"	"	"	
5607	← 1978F, Meier	8h59m	+36 39	July 3/4	6h18mW	9:00:00-9:01:00	"	"	4X5 103a O	W	"	"	"	N	Good	3+	"	
5608	mp. 1352, 1690	16h41m	-14°50'	"	0h04mW	9:58:00-10:28:00	"	"	8X10 "	"	"	"	"	"	"	"	"	Cut in 3 pieces all same number
5609	SAO 140552	15h25m	-9°10'	July 7/8	1h32mW	10:25:00-10:26:00	"	"	4X5 "	"	"	"	"	"	Good	3	"	
5610	"	"	"	"	1h40mW	10:33:00-10:33:30	"	"	" "	"	"	"	"	"	"	"	"	
5611	mp. 1352, 1690	16h44m	-14°50'	"	1h05mW	10:43:00-11:13:00	"	"	8X10 "	"	"	"	"	"	"	"	"	Cut in 3 pieces all same number
5612	AGK3 +13°303	2h28.3	+13°50'	July 11/12	3h28E	4:10:00-4:11:00	"	"	4X5 "	"	"	"	"	"	Fair	3	"	
5613	"	"	"	"	3 22E	4:16:30-4:17:00	"	"	"	"	"	"	"	"	"	"	"	
5614	Field near Neptune	17h24m	-21°25'	July 27/28	1h00mW	10:29:00-10:32:00	"	"	4X5 103a O	"	"	"	"	"	Good	3+	"	
5615	"	"	"	"	1h10mW	10:39:00-10:42:00	"	"	"	"	"	"	"	"	"	"	"	
5616	"	"	"	"	1h20mW	10:49:00-10:52:00	"	"	"	"	"	"	"	"	"	"	"	
5617	Neptune Reg.	16h58m	-21°10'	"	1h36mW	11:01:00-11:03:00	"	"	"	"	"	"	"	"	"	"	"	
5618	"	"	"	"	2:09W	11:13:00-11:15:00	"	"	"	"	"	"	"	"	"	"	"	
5619	"	"	"	"	2h17mW	11:21:00-11:23:00	"	"	CUT TO 4X5	"	"	"	"	"	"	"	"	
5620	m.p. Field	20h28m	-27°50'	"	0h32mE	11:34:00-12:04:14	"	"	CUT TO 4X5: 4X3	"	"	"	"	"	"	Z	"	
5621	Future Uranus Field	15h12m	-17°40'	July 29/30	1h48W	8:57:00-9:00:00	"	"	14X5 103a O	"	"	"	"	"	Good	Z+	"	
5622	"	"	"	"	1 55W	9:06:00-9:09:00	"	"	"	"	"	"	"	"	"	"	"	
5623	"	"	"	"	2 04W	9:14:00-9:17:00	"	"	"	"	"	"	"	"	"	"	"	
5624	Uranus	14h39m	-15°10'	"	2 17W	9:27:00-9:28:00	"	"	"	"	"	"	"	"	"	"	"	
5625	"	"	"	"	2 54W	9:34:00-9:35:00	"	"	"	"	"	"	"	"	"	"	"	
5626	"	"	"	"	3 02W	9:41:00-9:42:00	"	"	"	"	"	"	"	"	"	"	"	
5627	Future Uranus Pos	15h30m	-18°28'	"	2 32W	9:52:00-10:02:00	"	"	"	"	"	"	"	"	"	3	"	
5628	"	"	"	"	2 47W	10:08:00-10:18:00	"	"	"	"	"	"	"	"	"	"	"	
5629	"	"	"	"	3 04W	10:24:00-10:34:00	"	"	"	"	"	"	"	"	"	"	"	
5630	m.p. Field	20h28m	-27°50'	"	1h00mE	11:00:00-11:30:00	"	"	CUT TO 4X5 : 4X3	"	"	"	"	"	"	Z+	"	

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	1978 DATE	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST.	PLATE	Telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	DEVELOPMENT OBSV	WRITING	SEEING TRANS	SEEING STEAD	REMARKS
5631	Meier Region	9h58m	+24°00'	Aug 4/5	7h00W	8:33:00-8:34:00	WWV	13"	103aO	E	D19	4m	68	H.Giclas	S	Good	2	Bright Twilight
5632	Pluto	13h16m	+10°00'	"	4h09mW	8:52:00-9:02:00	"	"	4x5 103aO	E	"	5m	68	"	"	"	3	For Millis+Elliott obs.
5633	"	"	"	"	4 28W	9:09:00-9:19:00	"	"	"	"	"	"	"	"	"	"	"	
5634	"	"	"	"	4 42W	9:25:00-9:35:00	"	"	"	"	"	"	"	"	"	"	"	
5635	A Region near P	13h40m	+8°35'	"	4 34W	9:44:00-9:50:00	"	"	"	"	"	"	"	"	"	"	"	
5636	"	"	"	"	4h47W	9:57:00-10:03:00	"	"	"	"	"	"	"	"	"	"	"	
5637	"	"	"	"	5h00mW	10:10:00-10:16:00	"	"	"	"	"	"	"	"	"	"	"	
5638	m.p. Region	20h16m	-28°10'	"	0h43mE	10:40:00-11:10:00	"	"	"	W	"	"	"	"	N	"	"	
5639	"	21 30	-19°00'	"	1h22mE	11:25:00-11:45:00	"	"	"	"	"	"	"	"	"	"	"	
5640	"	"	"	Aug 9/10	0h23W	12:49:00-1:09:00	"	"	"	"	"	"	"	"	"	"	"	
5641	M.P. HERCULINA	15h22.9	-8°44	Aug 17/18	2h01W	8:05:00-8:06:00	WWV	"	4x5 103aO	W	"	"	"	Burnham	"	"	3	
5642	"	"	"	"	2h12W	8:17:00-8:17:30	"	"	"	"	"	"	"	"	"	"	"	
5643	"	15h24.1	-8°59	"	2h24W	8:29:00-8:30:00	"	"	"	"	"	"	"	"	"	"	"	
5644	m.p. Region	21h05m	-19°10'	Aug 22/23	2h06mE	9:06:00-9:26:00	"	"		W	"	"	"	Giclas	"	Good	2	
5645	"	"	"	"	1h36mE	9:36:00-9:56:00	"	"		"	"	"	"	"	"	"	"	
5646	"	19h36m	-26°00'	"	0h16mW	10:07:10-10:19:10	"	"		"	"	"	"	"	"	"	3	
5647	"	"	"	Aug 25/26	015E	9:24:00-9:36:00	"	"		"	"	"	"	"	"	Good	3+	Poor Focus - screwed at tite.
5648	"	"	"	"	007W	9:45:00-9:57:00	"	"		"	"	"	"	"	"	"	"	
5649	"	"	"	"	026W	10:05:00-10:17:00	"	"		"	"	"	"	"	"	"	"	
5650	"	21h05m	-19°10'	"	0h32mE	10:27:00-10:47:00	"	"		"	"	"	"	"	"	"	"	
5651	"	"	"	"	005E	10:54:00-11:14:00	"	"		"	"	"	"	"	"	"	"	
5652	"	20h44m	-19°45'	Aug 26/27	008E	10:26:00-10:46:00	"	"		"	"	"	"	"	"	Good	3+	
5653	"	"	"	"	021W	10:55:00-11:15:00	"	"		"	"	"	"	"	"	"	"	
5654	#1930 1964UA	19h36m	-25°40'	Aug 29/30	0h54mW	10:13:00-10:27:00	"	"	4x5 103aO	"	"	"	"	"	"	Good	3+	m.p marked Adj Base point to Guide Telescope
5655	m.p. Region	20 44	-19°50'	"	016W	10:38:00-10:58:00	"	"	4x5 i 3x5	"	"	"	"	"	"	"	"	
5656	"	21h05m	-19°40'	"	027W	11:10:00-11:30:00	"	"		"	"	"	"	"	"	"	"	
5657	"	20 44	-19 40	Sept 1/2	054W	11:03:00-11:24:00	"	"		"	"	"	"	"	"	Good	4	
5658	"	"	"	"	123W	11:33:00-11:53:00	"	"		"	"	"	"	"	"	"	"	

Blinked

Blinked

m.p. identified

=21 min

	NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1978	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
Blinked	5659	m.p. region	21h04m	-19°40'	Sept 1/2	1h34W	12:03:00-12:23:00	WWW	13"	103aO	W	D19	5m	68	N	Good	4	#6 Glass	
	5660	"	"	"	"				"		"	"	"	"	"	"	"	"	
	5661	A region at	00h12.8m	+9°30'	"	2 07W	12:36:00-12:56:00	"	"		"	"	"	"	"	"	"	"	
	5662	Ashbrook-Jackson &	00 34.0	+1°02'	"	0 24E	1:15:00-1:35:00	"	"	14x17 103aO	"	"	"	"	"	"	"	"	Old Fogged plate.
	5663	& 1978 J Campos	20h53m	-30°20'	Sept 2/3	0h39mW	11:04:00-11:14:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
	5664	"	"	"		0 05E	1:53:00-2:13:00	"	"	4x5 103aO	"	"	"	"	"	Good	3	"	
& 1978 K Discovery Pos	5665	34 Ceti G2 V6	00h12.2m	-9°51'	"	0 56W	11:21:00-11:31:00	"	"	"	"	"	"	"	"	"	"	"	
	5666	"	"	"	"	0h49mE	12:45:00-1:05:00	"	"	14x17 103aO	"	"	"	"	"	"	"	"	
	5667	& 1978 J Campos	20h53m	-31°00'	Sept 3/4	0h24mE	1:09:00-1:29:00	"	"	"	"	"	"	"	"	"	"	"	
	5668	m.p. Region	21h4.5m	-19 40	Sept 7/8	1h26mE	8:55:00-9:05:00	"	"	4x5 103aO	"	"	"	"	"	Good	3	"	
	5669	& 1978 J Campos	21h03	-33 00	"	0 09E	9:58:00-10:18:00	"	"	8x10	"	"	"	"	"	Good	3	"	
	5670	m.p. Region	21 04.5	-19°40'	"	0h13mW	10:28:00-10:38:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
	5671	& Suspect Check	00h20m	-6°50'	"	0 40W	10:46:00-11:06:00	"	"	8x10	"	"	"	"	"	"	"	"	
	5672	"	"	"	"	1h52mE	11:20:00-11:50:00	"	"	8x10	"	"	"	"	"	"	"	"	
	5673	& Ashbrook-Jackson	00 29	+1°20'	"	1h12E	12:00:00-12:30:00	"	"	4x5 103aO	"	"	"	"	"	"	"	"	
	5674	" "	"	"	"	0h51mE	12:42:00-1:02:00	"	"	"	"	"	"	"	"	"	"	"	
	5675	& Suspect Check	00 01.6m	-10°42'	Sept 9/10	0h36mE	1:09:00-1:15:00	"	"		"	"	"	"	"	"	"	"	
	5676	"	"	"	"	0h33mE	12:12:00-12:42:00	"	"		"	"	"	"	"	Good	3	"	
	5677	Helin Obj ✓	23h14.5	+3°00'	Sept 10/11	0 05E	12:51:00-1:21:00	"	"		"	"	"	"	"	"	"	"	
	5678	"	"	"	"	0h16mW	12:31:00-12:41:00	"	"		"	"	"	"	"	Good	3	"	
	5679	& Suspect Chuck	00 1.6m	-10°46	"	0 35W	12:49:00-12:59:00	"	"		"	"	"	"	"	"	"	"	
	5680	Helin Object	23h08.5m	-9°30'	Sept 11/12	0h19W	1:09:00-1:31:00	"	"		"	"	"	"	"	"	"	"	
	5681	"	"	"	"	1h05mW	1:15:00-1:19:00	"	"	4x5 103aO	"	"	"	"	"	Good	4	"	
	5682	Comet Suspect	00h08m	-9°30'	"	1h15mW	1:25:00-1:29:00	"	"	"	"	"	"	"	"	"	"	"	
	5683	"	"	"	"	0 46W	1:39:00-1:59:00	"	"		"	"	"	"	"	"	"	"	
	5684	SAO 190782 and m.p. 511 Davida	21h53m	-27°30'	Sept 19/20	2h05W	2:18:00-3:18:00	"	"	8x8 103aO	"	"	"	"	"	"	"	"	Sw Drive PA 191° ~9.49x #3 Step, 500 ohms
	5685	"	"	"	"	2h29E	7:54:00-7:58:00	"	"	4x5 103aO	"	"	"	"	"	Good	3	"	For Bob Millis
	5686	"	"	"	"	2h18E	8:06:00-8:10:00	"	"	"	"	"	"	"	"	"	"	"	
						2h07E	8:17:00-8:21:00	"	"		"	"	"	"	"	"	"	"	

NEG #	Object or Guide Star	POSITION R.A.	POSITION Dec	DATE 1978	H.A End	EXPOSURE M.S.T. AM-PM	Water Error	Instrument	PLATE Size	PLATE Brand	Telescope Position	DEVELOPMENT Kind	DEVELOPMENT Time	DEVELOPMENT Temp	Writing on Plate	SEEING Trans.	SEEING Stead	Observer	REMARKS
5687	1978RA Helin	22h30m	-14°20'	Sept. 19/20	2h29mE	8:31:00-8:37:00	wwp	13"	4x5	103aO	W	D19	5m	68°	N	Good	3-	H Giclas	
5688	"	"	"	"	2 16E	8:43:00-8:49:00	"	"	"	"	"	"	"	"	"	"	"	"	Moonrise 8:40
5689	"	22 17.5	-17 40'	Sept 22/23	1h07E	9:30:00-9:35:00	"	"	"	"	"	"	"	"	"	Good	2	"	
5690	"	"	"	"	0 53E	9:41:00-9:46:00	"	"	"	"	"	"	"	"	"	"	"	"	
5691	∈1978 K Henry's	00h05.5	-11°48'	"	2 13E	9:55:00-10:15:00	"	"	"	"	"	"	"	"	"	"	"	"	
5692	"	"	"	"	1 46E	10:22:00-10:42:00	"	"	"	"	"	"	"	"	"	"	"	"	
5693	∈1978 J Honda	22h00.5	-41°35'	"	0h31W	10:51:00-10:54:00	"	"	"	"	"	"	"	"	"	"	"	"	
5694	"	"	"	"	0h43W	11:02:00-11:05:00	"	"	"	"	"	"	"	"	"	"	"	"	
5695	∈1978 J	21h31m	-43°00'	Sept 26/27	0h40mW	10:08:00-10:18:00	"	"	"	"	"	"	"	"	"	Good	3	"	
5696	1978RA Helin	22h02m	-22°35'	"	0h30mW	10:29:00-10:39:00	"	"	"	"	"	"	"	"	"	"	"	"	1 hr. east of position.
5697	"	"	"	"	0h45mW	10:44:00-10:54:00	"	"	"	"	"	"	"	"	"	"	"	"	"
5698	∈1978 K Henry's	00h04m	-12°22'	"	0h40mE	11:07:00-11:31:00	"	"	"	"	"	"	"	"	"	"	"	"	
5699	1978RA Helin	21h49m	-25°30'	Sept 29/30	0 46W	10:17:00-10:32:00	"	"	CUT TO 8x5	103aO	"	"	"	"	"	Good	3+	"	Drive PA 219.4 #8 at 9900 dec a 51.6
5700	"	"	"	"	1h15mW	10:44:00-10:59:00	"	"	8x8	"	"	"	"	"	"	Good	3+	"	"
5701	∈1978 J	22h49m	-44°00'	"	0h37mW	11:12:00-11:22:00	"	"	4x5	103aO	"	"	"	"	"	"	"	"	
5702	∈1978 K	00h03m	-13°00'	"	0h13mW	11:52:00-12:12:00	"	"	"	"	"	"	"	"	"	"	"	"	
5703	∈Ashbrook-Jackson	00 13	+2°30'	"	0h33W	12:22:00-12:42:00	"	"	"	"	"	"	"	"	"	"	"	"	
5704	∈1978 L Machholz	6h14m	-35°30'	Oct 1/2	0h43E	5:13:00-5:19:00	"	"	4x5	103aO	"	"	"	"	"	Good	2-	"	∈ at very bottom of plate
5705	"	"	"	"	0h34E	5:25:00-5:27:00	AM-MST	"	"	"	"	"	"	"	"	"	"	"	"
5706	"	6h10.5	-38°30'	Oct 2/3	0 41E	5:08:00-5:12:00	"	"	"	"	"	"	"	"	"	Good	3+	"	
5707	"	"	"	"	0 30E	5:18:00-5:22:00	"	"	"	"	"	"	"	"	"	"	"	"	
5708	∈158 GC 283, Cat	0h12.3	-9°51'	Oct 3/4	0 26W	10:45:00-12:15:00	WWP	"	14x17	Ia-E	"	"	"	"	"	Good	3+	N. Thomas	1978 38 at
5709	" "	"	"	"	1 02W	12:25:03-12:50:40	"	"	"	103a-O	"	"	"	"	"	"	"	"	37 sec. interrupt. bottom of 13:49; guide * jumped.
5710	∈1978 L Machholz	6h08m	-40°22'	Oct 4/5	0h31E	4:59:00-5:11:00	"	"	cut to 4x5	103aO	"	"	"	"	"	Good	3	H Giclas	
5711 5713	∈1978K + 1985B	00h01m	-14°00'	Oct 6/7	0h48E 0 19W	10:50:00-11:10:00 11:28:00-11:48:00	"	"	8x10	103aO	"	"	"	"	"	Good	3+	"	Both exp on 1 plate turned end for end.
5712	"	"	"	"	0 07E	11:17:00-11:21:00	"	"	4x5	"	"	"	"	"	"	"	"	"	
5714	"	"	"	"	1h05W	12:13:00-12:33:00	"	"	"	"	"	"	"	"	"	"	"	"	
5715	∈1978K+	00h00	-13 40	Oct 9/10	1h42W	12:38:00-12:58:00	"	"	CUT TO 4x5	"	"	"	"	"	"	Good	3+	"	

NEG. #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1978	H.A. END	EXPOSURE MST-AM-PM.	W.E.
5716	Helin Obj	00h32	+11°30'	Oct 9/10	1h47mW	1:14:00 - 1:34:00	WW
5717	mP 18 Melpomene	6h36m	+8 24	"	1h27E	4:20:00 - 4:24:00	"
5718	+SAO 114,159	"	"	"	1 14E	4:33:00 - 4:37:00	"
5719	"	"	"	"	1 03E	4:44:00 - 4:48:00	"
5720	☄1978 M Fujikawa	10h25m	+5°25'	"	4h28E	5:04:00 - 5:12:00	"
5721	"	10 20	+7 30	Oct 12/13	4h21mE	4:58:00 - 5:02:00	"
5722	☄1978 "O" Bradford	11 01	-19°00'	"	4 45E	5:17:00 - 5:19:00	"
5723	☄1978 K Giclas	00h01.5m	-15°08	Oct 27/28	0h24E	9:12:00 - 9:42:00	"
5724	m.p's Lampland	2h08.5m	+7°22'	"	1h48E	9:55:00 - 10:25:00	"
5725	"	"	"	"	1 08E	10:36:00 - 11:06:00	"
5726	☄1978 J	2h12.8m	-29°55'	"	0h54E	11:20:00 - 11:24:00	"
5727	SAO 114159 & Melpomene	6h39.6m	+7°27'	Nov 3/4	0h07E	4:06:00 - 4:10:00	"
5728	"	"	"	"	0h07W	4:20:00 - 4:24:00	"
5729	"	"	"	"	0 18W	4:31:00 - 4:35:00	"
5730	☄1978N Fujikawa	10h17m	+19°30'	"	2h54mE	4:47:00 - 5:00:00	"
5731	m.p's Lampland	2h00m	+7°35'	Nov 5/6	0h32mW	11:42:00 - 12:02:00	"
5732	"	"	"	"	1h05W	12:14:00 - 12:34:00	"
5733	SAO 114159 + Melpomene	6h43m	+7°13'	Nov 8/9	0h22mE	3:34:00 - 3:37:30	"
5734	"	"	"	"	0 10E	3:46:00 - 3:49:30	"
5735	SAO 190765 + Davida	21h54m	-26 43	Nov. 16/17	0h03E	6:34:00 - 6:37:57	"
5736	"	"	"	Nov. 18/19	0h04W	6:34:00 - 6:38:00	"
5737	[illegible]	"	"	"	0h18W	6:48:00 - 6:52:00	"
5738	"	"	"	"	0h33W	7:03:00 - 7:07:00	"
5739	☄1978 K	00h17m	-12°40'	Nov 19/20	0h10mW	8:22:00 - 9:02:00	"
5740	m.p's Lampland	1h46m	+7°30'	"	0h40mE	9:20:00 - 9:40:00	"
5741	"	"	"	"	0h11mE	9:49:00 - 10:09:00	"
5742	SAO [illegible] & Melpomene	6h40m	+6°46'	Nov 27/28	0h15mW	2:55:00 - 2:55:30	"
5743	114316 "	"	"	"	0h36mW	3:18:00 - 3:19:00	"

TYPE	PLATE	telescope Position	DEVELOPMENT KIND	TIME	TEMP.	WRITING	SEEING TRANS.	STEAD	OBSV.	REMARKS
13	cut to 4X5/103aO	W	D19	5m	68	N	Good	3+	HGiclas	
"	8X10 "	"	"	"	"	"	"	"	"	For Bob Millis
"	8X10 "	"	"	"	"	"	"	"	"	"
"	8X10 "	"	"	"	"	"	"	"	"	"
"	cut to 4X5 "	"	"	"	"	"	"	"	"	
"	cut to 4X5 "	"	"	"	"	"	Good	3	"	
"	8X10 "	"	"	"	"	"	"	"	"	comet not visable
"	4X5 "	"	"	"	"	"	Good	4	"	
"	"	"	"	"	"	"	"	"	"	24 m p's marked on each
"	"	"	"	"	"	"	"	"	"	"
"	4X5 "	"	"	"	"	"	"	"	"	not visible on 4m Exp.
"	8X10 "	"	"	"	"	"	Good	3	"	For Millis
"	"	"	"	"	"	"	"	"	"	"
"	"	"	"	"	"	"	"	"	"	"
"	4X5 103aO	"	"	"	"	"	"	"	"	
"	14X17 "	"	"	"	"	"	Good	3-	"	
"	14X17 "	"	"	"	"	"	"	"	"	
"	8X10 "	"	"	"	"	"	Good	"	H.G+ R.Millis	For Millis
"	"	"	"	"	"	"	"	"	"	
"	4X5 "	"	"	"	"	"	Good	3	"	
"	" "	"	"	"	"	"	Good	3	R Millis	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	103aO	"	"	"	"	"	Good	4	H.Giclas	
"	14X17 "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	Moonrise fog
"	8X10 "	"	"	"	"	"	"	3	R.Millis	
"	" "	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1978 1979	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
5744	☄ 1978 K	00h29m	-11°04'	Nov 28/29	1h02m W	8:50:00 - 9:30:00	WW V	13"	CUT TO 4X5 103a O	W	D19	5m	68	N	Good	2	HGiclas	
5745	Melpomene & SAO114316	6h40m	+6°46'	"	0h15m W	2:53:00 - 2:53:30	"	"	8X10 "	"	"	"	"	"	"	"	RL Mills	
5746	"	"	"	"	0h30m W	3:08:00 - 3:09:00	"	"	" "	"	"	"	"	"	"	"	"	This plate was broken
5747	"	"	"	Nov 29/30	1h0m E	1:36:00 - 1:36:30	"	"	" "	"	"	"	"	"	"	"	"	
5748	"	"	"	"	0h41m E	1:52:00 - 1:52:30	"	"	" "	"	"	"	"	"	Poor	"	"	
5749	"	"	"	Nov 30/ Dec 1	1h10m E	1:22:00 - 1:23:00	"	"	" "	"	"	"	"	"	"	"	"	
5750	"	"	"	"	0h57m E	1:35:00 - 1:35:30	"	"	" "	"	"	"	"	"	"	"	"	
5751	"	"	"	Dec 2/3	1h05m E	1:17:00 - 1:17:30	"	"	" "	"	"	"	"	"	Good	3	"	
5752	"	"	"	"	0h53m E	1:28:00 - 1:28:30	"	"	" "	"	"	"	"	"	"	"	"	
5753	"	"	"	Dec 3/4	0h58m E	1:20:00 - 1:20:30	"	"	" "	"	"	"	"	"	"	"	"	
5754	"	"	"	"	0h50E	1:28:00 - 1:28:30	"	"	" "	"	"	"	"	"	"	"	"	
5755	mp 1741 Giclas	6h49m	+25°40'	Dec 4/5	3h28 E	10:36:00 - 10:56:00	"	"	" "	"	"	"	"	"	Good	3	HGiclas	
5756	"	"	"	"	3h00m E	11:05:00 - 11:25:00	"	"	" "	"	"	"	"	"	"	"	"	
5757	Melpomene & SAO114159	6h40m	+6°46'	Dec 6/7	0h38m E	1:26:30 - 1:27:00	"	"	" "	"	"	"	"	"	"	"	RL Mills	
5758	"	"	"	"	0h28m E	1:37:00 - 1:37:30	"	"	" "	"	"	"	"	"	"	"	"	
5759	"	"	"	Dec 7/8		1:17:30 - 8:18:00	"	"	" "	"	"	"	"	"	"	"	"	
5760	"	"	"	"		1:28:30 - 1:29:00	"	"	" "	"	"	"	"	"	"	"	"	
5761	G77 Region	3h11m	-00°21'	Dec 23/24	1h33m W	10:42:00 - 11:02:00	"	"	14x17 103a O	"	"	"	"	"	Good	2	HGiclas	
5762	m.p. 1741 Giclas	6h30m	+26°10'	"	1h11m W	11:19:00 - 11:39:00	"	"	8x10 103a O	"	"	"	"	"	"	3	"	
5763	"	"	"	"	0h40 E	11:49:00 - 12:09:00	"	"	" "	"	"	"	"	"	"	"	"	
5764	☄ 1978 K	1h08m	-5°06'	Dec 26/27	1h10m W	7:57:00 - 8:27:00	"	"	8x8 "	"	"	"	"	"	Good	3	"	Drive PA 300° ~ 22.4 #7 @ 420 ohms
5765	"	"	"	"	1h42m W	8:38:00 - 8:58:00	"	"	CUT TO 4x5 "	"	"	"	"	"	"	"	"	1.242/min ; 0102m/min 6 lines
5766	m.p. 1741, Giclas	6h30m	+26°10'	"	3h05 E	9:14:00 - 9:34:00	"	"	8x10 "	"	"	"	"	"	"	"	"	
5767	Ceres Track	00h45m	-6°15'	Dec 31 Jan 1 1979	0h11m W	6:35:00 - 6:45:00	"	"	8X10 103a O	"	"	"	"	"	Good	2	"	
5768	"	1h04m	-7°00'	"	0h14m W	6:57:00 - 7:07:00	"	"	" "	"	"	"	"	"	"	"	"	
5769	"	1h23m	-6°12'	"	0h15m W	7:17:00 - 7:27:00	"	"	" "	"	"	"	"	"	"	"	"	
5770	☄ 1978 K region	2h00m	+2°00'	Jan 23/24	1h54m W	7:23:00 - 8:13:00	"	"	Cut to 4x5 8x8 103a O	"	"	"	"	"	Good	4	"	Drive PA 62.7 ~ 25.0 Step #7 @ 720 ohms
5771	mp 1741 "	6h08.5m	+26°25'	"	1h47m E	8:30:00 - 8:40:00	"	"	" "	"	"	"	"	"	"	"	"	

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NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1979	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
5772	m.p. 1741 Region	6h 08.5m	+26° 25'	Jan 23/24	1h 17m E	9:00:00 - 9:10:00	WLW	13"	8x10 103a O	W	D19	5m	68°	N	Good	4	H. Giclas	
5773	Ceres Occultation Candidate	1h 27.1m	-4° 20'	Jan 27/28	2h 20m W	7:41:00 - 7:41:30	"	"	"	"	"	"	"	"	"	"	R.L. Millis	
5774	Chiron Field 79/80	2h 36m	+13° 35'	"	1h 30m W	8:00:00 - 8:10:00	"	"	"	"	"	"	"	"	"	"	"	
5775	Check & Suspect	12h 42m	+12° 50'	Feb 6/7	0h 57m W	4:48:00 - 5:00:00 AM	"	"	"	"	"	"	"	"	Good	3	H. Giclas	
5776	RV Lyncis	6h 53m	+51° 00'	Feb 18/19	0 12 W	9:31:00 - 9:41:00	"	"	4x5 103a O	"	"	"	"	"	Good	3	"	Double Exposor plate
5777	"	"	"	"	0 32 W	9:51:00 - 10:01:00	"	"	"	"	"	"	"	"	"	"	"	
5778	"	"	"	"	0 52 W	10:11:00 - 10:21:00	"	"	"	"	"	"	"	"	"	"	"	
5779	"	"	"	"	1 12 W	10:31:00 - 10:41:00	"	"	"	"	"	"	"	"	"	"	"	Double Exp. Plate
5780	"	"	"	Feb 25/26	1 32 W	10:51:00 - 11:01:00	"	"	"	"	"	"	"	"	Fair	3±	"	Floating + Forming Clouds - Variabe - Transparency
5781	"	"	"	"	1h 23 E	7:30:00 - 7:40:00	"	"	"	"	"	"	"	"	Fair±	"	"	
5782	"	"	"	"	1h 06 E	7:47:00 - 7:57:00	"	"	"	"	"	"	"	"	Good	"	"	"
5783	"	"	"	"	0 50 E	8:03:00 - 8:13:00	"	"	"	"	"	"	"	"	Fair to Fair or Fair+	"	"	"
5784	"	"	"	"	0 34 E	8:18:00 - 8:28:00	"	"	"	"	"	"	"	"	Fair+	"	"	"
5785	☄ 1978 K	3h 12m	+10° 20'	Feb. 27/28	0h 18m E	8:34:00 - 8:44:00	"	"	"	"	"	"	"	"	Very Poor	"	"	"
5786	m.p. 428 XX	8h 44m	+28° 30'	"	0 03 E	8:49:00 - 8:59:00	"	"	"	"	"	"	"	"	Good	3	"	Drive NE PA 69° #7 @ 800 lines ~ 25.7 ☄ MARKED - BUT TOO FAINT
5787	"	"	"	"	3h 15m W	7:47:00 - 8:27:00	"	"	8x8 103a O	"	"	"	"	"	"	4	"	
5789	m.p 2041 X	9h 06m	+26° 45'	"	1h 52m E	8:43:00 - 8:53:00	"	"	8x10 "	"	"	"	"	"				
5788	"	"	"	"	1h 27m E	9:07:00 - 9:17:00	"	"	"	"	"	"	"	"	"	"		
5790	1979 BA	10h 22m	+33° 25'	"	1h 29m E	9:27:00 - 9:37:00	"	"	"	"	"	"	"	"				Plates 5788-89, ok Time made out of sequence
5791	GC 15908	11h 33.9m	+25 18	Feb 27/28	0 12 E	10:43:00 - 10:53:00	"	"	"	"	"	"	"	"				
5792	"	"	"	"	1h 54m E	9:58:00 - 10:28:00	"	"	CUT TO 4X5 8x8	"	"	"	"	"				Drive NW PA 231° #7 @ 200 lines ~ 20.8
5793	mp 609 Fulvia	7h 49m	+17° 50'	March 3/4	2h 00 E	11:10:00 - 11:35:00	"	"	8x10 103a O	"	"	"	"	"	Good	4	N. Thomas	1977 VF Field
5794	"	"	"	"	1h 20 E	11:50:00 - 12:15:00	"	"	"	"	"	"	"	"	"	4	"	" " " =2089
5795	m.p. reg.	9h 06m	+26° 40'	"	1h 47m W	11:10:00 - 11:20:00	"	"	4x5 103a O	"	"	"	"	"	Good	4	H. Giclas	
5796	1979 BA	10h 10m	+37° 35'	"	2 05 W	11:28:00 - 11:38:00	"	"	"	"	"	"	"	"	"	"	"	
5797	SAO 81833	11h 24.5m	+25 18	"	1h 07m W	11:45:00 - 11:55:00	"	"	"	"	"	"	"	"	"	"	"	
5798	"	"	"	"	0h 23m W	12:08:00 - 12:22:00	"	"	CUT TO 4X5	"	"	"	"	"				Drive PA 336° ~ 29.8 #8 @ 800 lines NW
5799	SAO 81720	11h 10.4m	+27° 19	Mar 22/23	0h 05 E	12:35:00 - 1:00:00	"	"	8x10 103a O	"	"	"	"	"	Good	3	N. Thomas	PL = 5791, 2 A1, A4, A5 Field
					0h 32 W	1:12:00 - 1:37:00	"	"	"	"	"	"	"	"				
					2h 07 E	8:38:00 - 9:03:00	"	"	8x10 103a O	"	"	"	"	"	Good	2-3	"	"
						9:20:00 - 9:30:00												

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1979	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
5800	SAO 81720	$11^h10.4$	$+27°19$	Mar 22/23	1^h27E	9:45:00-10:10:00	WWV	13"	8x10 103aO	W	D19	5m	68°	N	fair	2-3	N.Thomas	poss. haze
5801	#609 Fulvia	7^h49^m	$+18°22'$	Mar. 23/24	1^h19^mW	9:14:00-9:34:00	"	"	4x5 "	W	"	"	"	"	Fair	3	H.Giclas	
5802	"	"	"	"	1^h46^mW	9:41:00-10:01:00	"	"	"	"	"	"	"	"	Good	"	"	
5803	mp 556 Region	11^h45^m	$-8°40'$	"	1^h50^mE	10:11:00-10:21:00	"	"	8x10	"	"	"	"	"	"	"	"	
5804	"	"	"	"	1^h25E	10:35:00-10:45:00	"	"	8x10	"	"	"	"	"	"	"	"	
5805	AGK3 $+0°1022$			Mar. 24/25	0^h8^mE	7:59:00-7:59:30	"	"	4x5	"	"	"	"	"	"	"	R.Millis	
5806	"			"	0^h4^mW	8:11:00-8:11:30	"	"	"	"	"	"	"	"	"	"	"	
5807	"			"	0^h15^mW	8:22:00-8:22:30	"	"	8x10	"	"	"	"	"	"	"	"	
5808	#609 Fulvia	7^h50^m	$+17°42'$	Mar 26/27	1^h17^mW	9:01:00-9:21:00	"	"	4x5 103aO	"	"	"	"	"	Fair+	3	H.Giclas	
5809	"	"	"	"	1^h44^mW	9:28:00-9:48:00	"	"	" "	"	"	"	"	"	Fair	"	"	
5810	mp 556 Region	$11^h45'$	$-8°40'$	"	1^h24^mE	10:20:00-10:35:00	"	"	8x10 "	"	"	"	"	"	Poor	"	"	
5811	SAO 81255 (var mp. region)	$11^h5.0$	$+25°44$	Mar 31/1 Apr	0^h26E	9:40:00-10:05:00	"	"	8x10 103aO	"	"	"	"	"	Good	3-4	N.Thomas	split Exposure
5812	SAO 81542 (var mp. region)	$10^h47.2$	$+28°14$	Mar 31/1 Apr	0^h57W	10:25:00-10:40:00 10:55:00-11:20:00 11:21:00-11:35:00	"	"	" " "	"	"	"	"	"	"	3	"	split Exposure
5813	mp. 556 Region	11^h35^m	$-10°00'$	"	0^h27W	11:46:00-11:56:00	"	"	" " "	"	"	"	"	"	"	2	H.Giclas	
5814	"	"	"	"	0^h47W	12:06:00-12:16:00	"	"	" " "	"	"	"	"	"	"	"	"	
5815	#609 Fulvia Reg	11^h22^m	$-8°10'$	Apr. 14/15	1^h45E	8:06:00-8:36:00	"	"	8x10 "	"	"	"	"	"	Good	4	"	
5816	"	"	"	"	0^h57E	8:56:00-9:24:00	"	"	8x10 "	"	"	"	"	"	"	"	"	moonrise 9:20
5817	"	"	"	Apr 18/19	1^h09^mW	10:45:00-11:15:00	"	"	" " "	"	"	"	"	"	Fair	2-	"	
5818	1068 xx	13^h25^m	$-18°30'$	Apr. 27/28	1^h15^mE	9:57:00-10:18:00	"	"	" " "	"	"	"	"	"	Good	3	"	
5819	"	"	"	"	0^h42^mE	10:30:00-10:50:00	"	"	" " "	"	"	"	"	"	"	"	"	
5820	SAO 81704	$11^h01.8$	$+26°47'$	May 1/2	0^h56W	9:42:00-9:52:00	WWV	"	4x5 103aO	"	"	"	"	"	fair	2	N.Thomas	for 1979 DE
5821	"	"	"	"	1^h21W	10:07:00-10:17:00	"	"	" " "	"	"	"	"	"	"	2	"	" " "
5822	xx 1068 m.p.	13^h09^m	$-17°25$	May 21/22	1^h21^mW	10:44:00-11:04:00	"	"	8x10 "	"	"	"	"	"	Good	3	H.Giclas Ted Bowell	
5823	"	"	"	"	1^h50W	11:13:00-11:33:00	"	"	" " "	"	"	"	"	"	"	"	"	
5824	m.p's	$15^h01.5$	$+6°00'$	"	0^h42^mW	11:54:00-12:14:00	"	"	" " "	"	"	"	"	"	Good-	"	"	Very humid-dew on guide telescope
5825	"	"	"	"	1^h20^mW	12:33:00-12:53:00	"	"	" " "	"	"	"	"	"	"	"	"	"
5826	197 Arete	18^h09^m	$-23°$	"	1^h28^mE	1^h10^m00-1^h14^m00	"	"	4x5 "	"	"	"	"	"	"	"	"	Trans down ~½ mag.
5827	"	"		"	1^h18^mE	1^h21^m00-$1^h25:00$	"	"	" " "	"	"	"	"	"	"	"	"	"

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1979	H.A. END	EXPOSURE. MST - AM - PM	W.E.
5828	#197 Arete	18h02m	-23°32'	June 1/2	0h13 E	1:34:00 - 1:38:00 AM	WWV
5829	"	"	"	"	0h05W	1:52:00 - 1:56:00	"
5830	" Region	18h09	-23°02'	"	0h09W	2:04:00 - 2:08:00	"
5831	♀ λ "	9h11m	-15°00'	June 15/16	5h18mW	9:04:00 - 9:24:00	"
5832	" "	"	"	"	5h44W	9:29:00 - 9:49:00	"
5833	#197 Arete	17h48m	-24°50'	June 16/17	0h53E	11:43:00 - 11:45:00	"
5834	" "	"	"	"	0h43mE	11:53:00 - 11:55:00	"
5835	xx949 Hel	17h48m	-37°38'	"	0 23 E	12:05:00 - 12:15:00	"
5836	" "	"	"	"	0 11 W	12:27:00 - 12:37:00	"
5837	x1705,	18h03m	-8°40'	"	0h07mW	12:49:00 - 12:59:00	"
5838	"	"	"	"	0h27mW	1:08:00 - 1:18:00	"
5839	♀, ♀ λ	10h06m	+12°13'	June 24/25	5h04mW	9:14:00 - 9:29:00	"
5840	"	"	"	"	5h30mW	9:40:00 - 9:55:00	"
5841	"	"	"	"	5h19mW	9:25:00 - 9:40:00	"
5842	Asteroid Search	20h00m	-5°00'	June 25/26 JUNE 27/28	0h35mE	8:11:00 - 8:31:00	"
5843	"	20h25m	-5°00'	"	0h30mE	8:41:00 - 9:01:00	"
5844	"	20h00m	-5°00'	"	0h27mW	9:13:00 - 9:33:00	"
5845	"	20h25m	-5°00'	"	0h33mW	9:43:00 - 10:03:00	"
5846	Landolt Standard Star	22h40	0°	"	1h08mE	10:17:00 - 10:37:00	"
5847	Ceres	1h17m	-4°.8	"		10:50:00 - 10:50:30	
5848	Purgathofer field	18h59 18h57m	+4°48'	July 01/2	0h15mW	7:43:00 - 8:03:00	
5849	Asteroid Search	19h54m	-7°30'	"	0h13 E	8:12:00 - 8:32:00	
5850	Purgathofer field	18h57m	+4°48'	"	1h01mW	8:39:00 - 8:49:00	
5851	Asteroid Search	19h54m	-7°30'		0h33mW	8:58:00 - 9:18:00	
5852	197 Arete	17h34m	-25°42'	July 2/3	1h37W	12:44:00 - 12:47:00	"
5853	" "	"	"	"	1h57W	1:05:00 - 1:08:00	"
5854	mp. field	20h00m	-0°05'	"	0h15E	1:22:00 - 1:32:00	"
5855	"	"	"	"	0h05W	1:42:00 - 1:52:00	"

INST	PLATE	Telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
13"	4x5 103a O	W	D19	5m	68°	N	Good	3	H Giclas	
"	"	"	"	"	"	"	Fair	"	"	
"	"	"	"	"	"	"	Fair-	"	"	
"	14x17 103a O	E	"	"	"	S	Good	2	"	
"	14x17	"	"	"	"	"	"	"	"	
"	4x5 103a O	W	"	"	"	N	Good	2+	"	
"	" "	"	"	"	"	"	"	"	"	
"	8x10 "	"	"	"	"	"	"	2	"	
"	4x5 uncut	"	"	"	"	"	"	2+	"	
"	4x5 Cut	"	"	"	"	"	"	"	"	
"	8x10 "	"	"	"	"	"	Good	3-	"	
"	14x17 103a O	E	"	"	"	S	"	"	"	
"	"	"	"	"	"	"	Good	2	"	
"	"	"	"	"	"	N	Good	3-4	Bowell	
	8x10 103a O	W	"	"	"	N	"	"	"	
	8x10 "	W	"	"	"	N	"	"	"	
	8x10 "	W	"	"	"	N	"	"	"	
	8x10 "	W	"	"	"	N	"	"	"	
	8x10 "	W	"	"	"	N	"	"	"	
	8x10 "	W	"	"	"	N	fair	2	Bowell	lightning in South below horizon
	" "		"	"	"	"	"	"	"	
	" "		"	"	"	"	"	"	"	
	" "		"	"	"	"	"	"	"	
	" "		"	"	"	"	"	"	"	
"	4x5 103a O	W	"	"	"	N	Good	3	H Giclas	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	3+	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1979	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
5856	xx 407, Arachne	16h48m	-27°42'	July 14/15	1h18m W	11:01:00-11:06:00	WWV	13"	4X5 103a O	W	D19	5m	68	N	Good	3	#Giclas	
5857	" "	"	"	"				"	"	"	"	"	"	"	"	"	"	
5858	197 Arete	17h24m	-26°10'	"	1h31m W	11:14:00-11:19:00	"	"	"	"	"	"	"	"	"	"	"	
5859	"	"	"	"	1h10m W	11:31:00-11:34:00	"	"	"	"	"	"	"	"	"	"	"	
5860	xx 1105 Fragaria	20h44m	-19°40'	"	1h20m W	11:40:00-11:43:00	"	"	"	"	"	"	"	"	Fair	"	"	
5861	"	"	"	"	1h45 E	11:54:00-12:00:00	"	"	"	"	"	"	"	"	"	"	"	
5862	MP 2145	19h22m	-7°.0	July 21/22	1h31m E	12:06:00-12:12:00	"	"	"	"	"	"	"	"	"	"	"	
5863	B1 B2	19h48m	-6°.7'	"	0h16m W	6h53m-7h13m U.T.	"	"	8x10 103aO	"	"	"	"	"	Good	3	ELG Bowell	
5864	MP 2145	19h22	-7°.0	"	0h12m W	7h25m-7h45m U.T.	"	"	"	"	"	"	"	"	"	"	ELGB	out of Focus
5865	B1 B2	19h48m	-6°.7	"	1h22m W	7h57m-8h17m U.T.	"	"	"	"	"	"	"	"	"	"	"	
5866	MP 2145	19h20m	-7°.2	July 22/23	1h20m W	8h25m-8h45m U.T.	"	"	"	"	"	"	"	"	"	"	"	
5867	B1 B2	19h45m	-7°.2	"	1h21m E	5h10m-5h30m U.T.	"	"	"	"	"	"	"	"	"	2	"	
5868	MP 2145	19h20m	-7°.2	"	1h22m E	5h38m-5h58m U.T.	"	"	"	"	"	"	"	"	"	"	"	
5869	B1 B2	19h45m	-7°.2	"	0h28m E	6h05m-6h21m40s U.T.	"	"	"	"	"	"	"	"	"	"	"	
5870	MP	21h36m	-0.2	"	0h25m E	6h29m-6h49m U.T.	"	"	"	"	"	"	"	"	"	"	"	
5871	MP	21h29m	+4°.0	"	1h45m E	6h59m-7h19m U.T.	"	"	"	"	"	"	"	"	"	"	"	
5872	m.p.	21h36m	-0°.2	"	1h11m E	7h26m-7h46m U.T.	"	"	"	"	"	"	"	"	"	"	"	
5873	m.p.	21h29m	+4°.0	"	0h47m E	7h56m-8h16m U.T.	"	"	"	"	"	"	"	"	"	"	"	
5874	666, B4, B5, B6	21h31m	-1°.7	U.T. Jul. 24	0h15m E	8h22m-8h42m U.T.	"	"	"	"	"	"	"	"	"	3	"	
5875	mp	22h31m	+10°.4	"	0h09m E	8h27m00s-8h47m00s U.T.	"	"	"	"	"	"	"	"	"	"	"	
5876	666, B4, B5, B6	21h31m	-1°.7	"	0h44m E	UT 8h55m00s-9h15m00s	"	"	"	"	"	"	"	"	"	"	"	
5877	mp	22h31m	+10°.4	"	0h40m W	UT 9h22m00s-9h42m00s	"	"	"	"	"	"	"	"	"	"	"	
5878	xx 949 Hel	17h20m	-34°20'	July 24/25	0h09m W	UT 9h49m00-10h09m00s	"	"	"	"	"	"	"	"	Good	3	#Giclas	
5879	" "	"	"	"	0h09 E	9:26:00-9:32:00	"	"	4X5 103a O	"	"	"	"	"	"	"	"	
5880	197 Arete	17h17.5m	-26°50'	"	0h09 W	9:44:00-9:50:00	"	"	"	"	"	"	"	"	"	"	"	
5881	"	"	"	"	0h26m W	10:00:00-10:03:00	"	"	"	"	"	"	"	"	"	"	"	
5882	B6	21h31m	-1°.5'	July 26 UT	0h40m W	10:15:00-10:18:00	"	"	"	"	"	"	"	"	Good	3	ELGB	trailed (bad drive)
5883	mp (B4)	22h30m	+2.7	"	0h5m E	UT 7h35m-7h55	"	"	8x10	"							"	
					1h23	UT 8h03-8h23		"	"	"								

NEG. #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1979	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST.	PLATE: SIZE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
5884	B6	21^h31^m	-1.5	UT July 26	0^h03^m W	UT $8^h29 - 8^h49^m$	WWV	"	8x10 103a0		D19	5	69	N			ELGB	
5885	mp (B4)	22^h30	+2.7	"	0^h30^m E	UT $8^h55 - 9^h15$			" "		"	"	"	"			"	
5886	B6	21^h31^m	-1.5	UT July 26	0^h53^m W	UT $9^h21 - 9^h41^m$	"		" "		"	"	"	"			"	
5887	Ceres	1^h24^m	-3.8	UT July 26		UT $9^h52 - 9^h53^m$			" "		"	"	"	"			"	Center
"	"	"	"	"	2^h42^m E	$9^h54 - 9^h55$ $9^h56 - 9^h57$ U.T.			" "		"	"	"	"			"	shift in δ from center shift in α from center
5888	B3, 214S	19^h24	-8°.9	U.T. July 30	0^h00^m	6^h15^m U.T. -6^h25^m			" "	W	5	"	"	N	Good	2	"	lighting in S.
5889	B1, B2	19^h45^m	-8°.0	U.T. July 30	0^h03^m E	6^h32 U.T. -6^h42^m			" "		"	"	"	"		3	"	
5890	666, B5, B6	21^h35	+1°.3	"	1^h26^m E	6^h50 U.T. -7^h10^m			" "		"	"	"	"	"	"	"	no more storms
5891	666, B5, B6	"	"	"	1^h02^m E	$7^h15 - 7^h35$			" "		"	"	"	"	"	"	"	
5892	B4	22^h30	+2°.7	"	1^h28^m E	$7^h42 - 8^h02$			" "		"	"	"	"	"	2	"	
5893	B4	22^h30	+2°.7	"	1^h03^m E	$8^h07 - 8^h27$			" "		"	"	"	"	"	3	"	
5894	"	22^h30^m	+2°.7	UT AUG 1	0^h00^m	U.T. $9^h09^m - 9^h29^m$			CUT TO 4x5 "		"	"	"	"	Good	3	H.Gicles	
5895	#1886 Lowell	19^h56^m	-39°32'	Aug. 22/23	0 07 W	10:15:10-10:30:10	"		" "		"	"	"	"	"	"	"	
5896	"	"	"	"	0 35 W	10:42:00-10:57:00	"		" "		"	"	"	"	"	"	"	
5897	XX710 Gertrud	20^h23^m	-19°00'	"	0 28 W	11:07:00-11:17:00	"		CUT TO 4x5 "		"	"	"	"	"	"	"	
5898	"	"	"	"	0 47 W	11:26:00-11:36:00	"		" "		"	"	"	"	Good	3	ElGBowell	
5899	B1 B3	19^h18^m	-10°.3	U.T. Aug 27	0^h07^m E	4^h06^m U.T. 4^h21^m			" "		"	"	"	"	"	"	"	
5900	B2	19^h41^m	-15°.3	U.T. Aug 27	0^h09^m E	U.T. $4^h28^m - 4^h43^m$			" "		"	"	"	"	"	"	"	
5901	B1 B3	19^h18^m	-10°.3	U.T. Aug 27	0^h31^m W	U.T. $4^h49^m - 5^h04^m$			" "		"	"	"	"	"	"	"	
5902	B2	19^h41^m	-15.3	U.T. Aug 27	0^h33^m W	U.T. $5^h10^m - 5^h25^m$			" "		"	"	"	"	"	"	"	
5903	B6	20^h58^m	+7°.6	UT "	0^h23^m E	U.T. $5^h30^m - 5^h45^m$			" "		"	"	"	"	"	"	"	
5904	B5	21^h13^m	-2°.3	" "	0^h17^m E	U.T. $5^h51^m - 6^h06^m$			" "		"	"	"	"	"	"	"	
5905	B6	20^h58^m	+7°.6	" "	0^h18^m W	U.T. $6^h11^m - 6^h26^m$			" "		"	"	"	"	"	"	"	
5906	B5	21^h13^m	-2°.3	" "	0^h23^m W	U.T. $6^h31^m - 6^h46^m$			" "		"	"	"	"	"	"	"	
5907	B4	22^h29^m	-2°.8	" "	0^h32^m E	U.T. $6^h53^m - 7^h08^m$			" "		"	"	"	"	"	"	"	
5908	Asteroid search	0^h30^m	-10°.0	" "	2^h05^m E	U.T. $7^h15^m - 7^h35^m$												
5909	"	2229	2°.8	"	1^h18^m W	$7^h41^m - 7^h56^m$												
5910	"	0^h30	-10.0		1^h16^m E	$8^h02^m - 8^h22^m$												

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1979	H.A. END	EXPOSURE MST-AM-PM	W.E	INST	PLATE TYPE SIZE	Telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WEITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS.
5911	1979 QB	22h03.7m	-8°34	Sept 18/18	1h44mE	8:48:00 - 9:08:00	MST PM WDV	13"	8x8 103aO	W	D19	5m	68	N	Good	3	HGicl	Drive NE, PA 34.4 #7@650 ohm ~ 23.4
5912	"	"	"	" 17/18	1h05mE	9:23:00 - 9:43:09	"	"	"	"	"	"	"	"	"	"	"	"
5913	⊙ Pisc.	23 25	+6°28'	"	1 46 E	10:02:00 - 10:22:05	"	"	14x17 103aO	"	"	"	"	"	"	"	"	
5914	"	"	"	"	1h05E	10:43:00 - 11:03:00	"	"	"	"	"	"	"	"	"	"	"	
5915	1979 QB	22h04m	-8°28'	Sept 18/19	1h05mE	9:20:00 - 9:40:00	"	"	8x8 103aO	"	"	"	"	"	Good	4	"	Drive NE, PA 34.4 # 7@650 ohm ~ 33.4
5916	⊙ Pisc.	23h25m	+6°28'	"	1h45mE	10:00:00 - 10:20:00	"	"	14x17 103aO	"	"	"	"	"	"	3	"	
5917	"	"	"	"	1h06E	10:40:00 - 11:00:00	"	"	"	"	"	"	"	"	"	3	"	
5918	Suspect 1979 I Marsden	13h32.5	+68°	Sept 19/20	6h28W	9:31:00 - 9:35:00	"	"	8x10 103aO	"	"	"	"	"	Good	3	"	
5919	"	"	"	"	6 48W	9:51:00 - 9:55:00 10:02:00 - 10:06:30	"	"	"	"	"	"	"	"	Fair	"	"	Time Uncertain.
5920	⊙ Pisc	23h25m	+6°28'	"	1h21mE	10:22:00 - 10:40:00	"	"	14x17 103aO	"	"	"	"	N	Good	"	"	
5921	∈ 1979 I Meier	13h30m	+68°00	Sept. 21/22	6h53mW	8:43:00 - 8:53:00	"	"	8x10 "	E	"	"	"	S	Good	3	"	
5922	"	"	"	"	7h13mW	9:04:00 - 9:12:00	"	"	#x√ "	"	"	"	"	"	"	"	"	
5923	"	13h00m	+60°22'	Oct 14/15	7h18mW	7:03:00 - 7:17:00	"	"	" "	"	"	"	"	"	Good	3	"	
5924	"	"	"	"	7h40mW	7:25:00 - 7:39:00	"	"	" "	"	"	"	"	"	"	"	"	
5925	G28	22h50m	+3°32'	"	1h35mE	7:54:00 - 8:14:00	"	"	14x17 103aO	W	"	"	"	N	"	2	"	
5926	"	"	"	"	0h52mE	8:36:00 - 8:56:00	"	"	"	"	"	"	"	"	"	3	"	
5927	1979 MB	19h37m	-14.°9	U.T. Oct 17,	2h05mW	U.T. 3h12 - 3h22	"	"	4x5 "	"	"	"	"	"	Good	3	ELGB	
5928	" "	"	"	"	2h30mW	U.T. 3h37 - 3h57	"	"	" "	"	"	"	"	"	"	"	ELGB	
5929	G28	22h50mW	+3°32'	Oct 16/17	0h16mE	9:04:00 - 9:24:00	"	"	14x17 103aO	"	"	"	"	"	Good	3	#Gicles	
5930	1979 OC	21h07m	-5.°6	U.T. Oct 17	1h54mW	U.T. 4h31 - 4h51m	"	"	4x5 "	"	"	"	"	"	Good	3	ELGB	
5931	" "	"	"	"	2h18mW	U.T. 4h55 - 5h15m	"	"	" "	"	"	"	"	"	"	"	"	
5932	1979 OB, 1542	22h34m	-7.°7	"	1h20mW	U.T. 5h23 - 5h43m	"	"	" "	"	"	"	"	"	"	"	"	
5933	" "	"	"	"	1h44mW	U.T. 5h47 - 6h07m	"	"	" "	"	"	"	"	"	"	"	"	
5934	H11, 382, 1200 et al.	23h11m	0.°0	"	1h23mW	U.T. 6h14 - 6h24m	"	"	8x10 "	"	"	"	"	"	"	"	"	
5935	" "	"	"	"	1h42mW	U.T. 6h32 - 6h42	"	"	" "	"	"	"	"	"	"	"	"	
5936	1831, 1941	1h13m	-0.°9	"	0h07mW	U.T. 6h49 - 7h09	"	"	" "	"	"	"	"	"	"	"	"	
5937	486, 1914 et al.	3h25m	+7.°9	"	1h34mE	U.T. 7h20 - 7h40m	"	"	" "	"	"	"	"	"	"	"	"	
5938	1831, 1941	1h13m	-0.°9	"	1h06mW	U.T. 7h47 - 8h07	"	"	" "	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1979	H.A. END	EXPOSURE MST-AM-PM	W.E.
5939	612, 511, 504	4^h07	$+3.^\circ4$	U.T. OCT 17	1^h22^m E	U.T. $8^h14^m - 8^h34^m$	"
5940	486, 1914 et al.	3^h25^m	$+7.^\circ9$	"	0^h14^m E	U.T. $8^h40^m - 9^h00^m$	"
5941	612, 511, 504	4^h07^m	$+3.^\circ4$	"	0^h30^m E	U.T. $9^h06 - 9^h26$	"
5942	G28	22^h50^m	$+3^\circ32'$	Oct 21/22	0^h21^m W	9:21:00 - 9:41:00	"
5943	"	"	"	"	1^h01^m W	10:00:00 - 10:20:00	"
5944	612	4^h00^m	$+4.^\circ0$	Oct 28	0^h40 W	U.T. 9^h25 9^h45	"
5945	B7, B8, B9	3^h17^m	$+8.^\circ8$	Oct 28	1^h50^m W	U.T. $9^h52^m - 10^h12^m$	"
5946	" "	"	"	"	2^h16^m W	U.T. $10^h18^m - 10^h38$	"
5947	612	4^h00	$+4.^\circ0$	"	2^h00 W	U.T. $10^h44 - 11^h04$	"
5948	B10, B11	0^h58	$-0.^\circ1$	"	1^h46^m W	U.T. $7^h25^m - 7^h45$	"
5949	B10, B11	"	"	"	2^h12^m W	U.T. $7^h50^m - 8^h10^m$	"
5950	Helin Obj 1979 VA	$1^h38.^m4$	$+25^\circ08'$	Nov 15/16	0^h22^m E	10:03:00 - 10:07:00	"
5951	"	"	"	"	0^h10^m E	10:15:00 - 10:19:00	"
5952	"	"	"	"	0^h14 W	10:32:00 - 10:42	"
5953	"	$1^h46.^m3$	$+25^\circ00$	Nov 16/17	0^h36^m E	9:55:00 - 9:57:00	"
5954	"	"	"	"	0 27 E	10:04:00 - 10:06:00	"
5955				"	1^h52^m E	10:18:00 - 10:38:00	"
5956				"	1^h25^m E	10:44:00 - 11:04:00	"
5957	B10, B11, B14	0^h46^m	$+1.^\circ3$	UT 1979 NOV 22-13403	0^h52^m E	UT $3^h03^m - 3^h23^m$	"
5958	79 VA	2^h14^m	$+23.^\circ9$	NOV U.T. 22.15590	1^h55^m E	UT $3^h42^m - 3^h47^m$	"
5959	"	"	"	NOV UT 22.16354	1^h44^m E	UT $3^h53 - 3^h58$	"
5960	B10, B11, B14	0^h46^m	$+1.^\circ3$	NOV UT 22.17847	0^h11^m W	UT $4^h07^m - 4^h27^m$	"
5961	B7, B8, B9	2^h50^m	$+9.^\circ9$	NOV U.T. 22.19722	1^h24^m E	U.T. $4^h34 - 4^h54^m$	"
5962	" " "	"	"	NOV U.T. 22.21667	0^h56^m E	U.T. $5^h02^m - 5^h22^m$	"
5963	B12, B13	3^h41^m	$+2.^\circ7$	NOV U.T. 22.23542	1^h21^m E	U.T. $5^h29^m - 5^h49^m$	"
5964	Hyades	4^h27^m	$+16.2$	NOV 22.26424 22.26876	1^h24^m E	$6^h20 - 6^h21$ $6^h22^m01^s - 6^h32^m01$	"
5965	B12, B13	3^h41^m	$+2.7$	NOV U.T. 22.29097	0^h00^m	U.T. $6^h49^m - 7^h09^m$	"
5966	1482	0^h08^m	$+2.^\circ3$	DEC U.T. 07.06319	0^h54^m E	U.T. $1^h21^m - 1^h41^m$	"

INST	PLATE TYPE SIZE	teles. Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	SPOTTING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
13"	103a0 8x10	W	D-19	5mm	68°	N	Good	3	ELGB	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	Cloud in South, increasing a tend. NON-Photometric much of night, but should be little effect on plate quality
"	14x17 103a0	"	"	"	"	"	Good	3	#Gicla	
"	" "	"	"	"	"	"	"	"	"	
"	8x10 103a0	"	"	"	"	"	Good	4	ELGB owell	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	3	"	
"	" "	"	"	"	"	"	"	3	"	
"	" "	"	"	"	"	"	Good	3	#Giclas	
"	" "	"	"	"	"	"	"	"	"	
"	cut to 4x5	"	"	"	"	"	"	"	"	Drive PA 95° #9@400 ~ 81.3
"	8x8	"	"	"	"	"	Good	3	"	
"	4x5 103a0	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	4	"	
"	"	"	"	"	"	"	"	"	4	
"	8x10 103A0	"	"	"	"	"	"	2	ELGB	Poor Guiding
"	" "	"	"	"	"	"	"	"	"	Poor tracking rate
"	" "	"	"	"	"	"	"	"	"	" " "
"	" "	"	"	"	"	"	"	"	"	" " "
"	" "	"	"	"	"	"	"	"	"	" " "
"	" "	"	"	"	"	"	"	"	"	Tracking good
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	2 exposures, displaced in d. Diffraction grating on grid horizontal
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	4	ELGB	cirrus (?) Smoke(?) around S. horizon
"	4x5	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1979	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST.	PLATE Type SIZE	Telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
5967	B11	1^h01^m	$-1.^\circ3$	DEC U.T. 7.08194	1^h22^m E	U.T. $1^h48-2^h08^m$	WWV	13"	4x5 103a0	W	D-19	5m	68	N	Good	4	ELGB	
5968	355Q1, 2009	2^h18^m	$+11.^\circ8$	DEC 7. 10139	2^h11^m E	U.T. $2^h16^m-2^h36^m$	"	"	8x10 "	"	"	"	"	"	"	"	"	
5969	B7, B8, B9	2^h42^m	$+10.^\circ2$	U.T. DEC 7.12083	2^h07^m E	U.T. $2^h44^m-3^h04^m$	"	"	" "	"	"	"	"	"	"	"	"	
5970	77 EZ	3^h02^m	$+39.^\circ0$	U.T. 13958 DEC 7.	2^h00^m E	U.T. $3^h11^m-3^h31^m$	"	"	" "	"	"	"	"	"	"	"	"	
5971	79 VA	3^h07^m	$+21.^\circ9$	U.T. DEC 7.15313	1^h52^m E	U.T. $3^h38^m-3^h43^m$	"	"	4x5 "	"	"	"	"	"	"	"	"	Moonrise at start
5972	77 EZ	3^h02^m	$+39.^\circ0$	U.T. DEC 07.16424	1^h27^m E	U.T. $3^h49^m-4^h04^m$	"	"	8x10 "	"	"	"	"	"	"	"	"	Moon bright, exposure reduced
5973	B11	1^h02^m	$+0.^\circ7$	UT. DEC 08.17014	0^h47^m W	U.T. 3^h55-4^h15	"	"	4x5 "	"	"	"	"	"	"	3	ELGB	
5974	B12, B13, 612	3^h32^m	$+1.^\circ4$	U.T. DEC 08.18889	1^h14^m E	U.T. 4^h22-4^h42	"	"	8x16 "	"	"	"	"	"	"	"	"	Moonrise 4^h20^m
5975	1979 XA	2^h26^m	$+13.^\circ9$	UT. DEC 14.26389	1^h58^m	UT. $6^h15^m-6^h25^m$	"	"	4x5 "	"	"	"	"	"	"	4	ELGB	
5976	1979 XA	2^h26	$+13.^\circ9$	UT DEC 14.27431	2^h13^m W	U.T. $6^h30-6^h40^m$	"	"	4x5 "	"	"	"	"	"	"	"	"	
5977	1122	7^h45^m	$+26.^\circ3$	UT. DEC 14.29028	2^h37^m E	U.T. $6^h48^m-7^h08^m$	"	"	8x10 "	"	"	"	"	"	"	"	"	
5978	873	8^h52^m	$+14.^\circ2$	UT. DEC 14.32708	2^h45^m E	U.T. $7^h36^m-8^h06^m$	"	"	8x10 "	"	"	"	"	"	"	"	"	
5979	1122	7^h45^m	$+26.^\circ3$	U.T. DEC 14.34931	1^h15^m E	U.T. $8^h13^m-8^h33^m$	"	"	" "	"	"	"	"	"	"	"	"	
5980	873	8^h52^m	$+14.^\circ2$	U.T. DEC 14.37153	1^h41^m E	U.T. $8^h40^m-9^h10^m$	"	"	" "	"	"	"	"	"	"	"	"	
5981	1979 XA	2^h28^m	$+14.^\circ0$	U.T. DEC 15.19479	0^h14^m W	U.T. $4^h38^m-4^h43^m$	"	"	4x5 "	"	"	"	"	"	"	3	"	
5982	1979 VA	3^h19^m	$+21.^\circ2$	U.T. DEC 15.20417	0^h16^m E	U.T. $4^h-49^m-4^h59^m$	"	"	" "	"	"	"	"	"	"	"	"	
5983	~~1979 XA~~	$2^h28.2^m$	$+14^\circ02'$	Dec 15/16	0^h40^m E	8:38:00 - 8:52:00	"	"	4x5 "	"	"	"	"	Good	3	H Gicklas		Wrong ephemeris not on plate
5984	~~not on plate~~	"	"	"	0^h25 E	8:52:00 - 8:56:00	"	"	" "	"	"	"	"	"	"	"	"	"
5985	~~1979 VA~~	3^h20^m	$+25^\circ00'$	"	0 58 E	9:09:00 - 9:15:00	"	"	" "	"	"	"	"	"	"	"	"	& setting ~~off~~ Note plate
5986	"	"	"	"	0^h45 E	9:22:00 - 9:28:00	"	"	" "	"	"	"	"	"	"	"	"	"
5987	873	8^h52^m	$+14.^\circ4$	U.T. DEC 16.45069	0^h21^m W	U.T. 10^h34^m 11^h04^m	"	"	8x10 "	"	"	"	"	"	"	"	ELGB	
5988	873	"	"	U.T. DEC. 16.48958	1^h17^m W	U.T. $11^h30^m-12^h00^m$	"	"	" "	"	"	"	"	"	"	"	ELGB	Moonrise 11^h50^m
5989	1979 XA	$2^h14.9^m$	$+13^\circ07'$	Dec 16/17	1^h12^m E	7:47:00 - 7:53:00	"	"	8x10 "									
5990	"	"	"	"	0 35 E	8:16:00 - 8:30:00	"	"	8x8 "	"	"	"	"	Good	3	H Gicklas		
5991	"	"	"	"	0 21 E	8:39:00 - 8:45:00	"	"	4x5 "	"	"	"	"	"	"	"	"	Drive in PA 246° #9 @ 2100 lbs ~ 65:2
5992	1979 VA	3^h24^m	$+21^\circ05'$	"	1^h10^m E	8:55:00 - 9:05:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
5993	"	"	"	"	0^h51^m E	9:14:00 - 9:24:00	"	"	4x5 "	"	"	"	"	"	"	"	"	
5994	~~1979 XA~~	$2^h09.4^m$	$+12^\circ38'$	Dec 17/18	0^h27^m E	8:24:00 - 8:28:00	"	"	4x5 "	"	"	"	"	Good	3	"		Not on plate 5 off

	NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC	DATE 1979 1980	H.A END	EXPOSURE MST-AM-PM	W.E.	INST.	PLATE Type SIZE	Telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
	5995	~~1979 XA~~	$2^h 9.4^m$	$+12°38'$	Dec 17/18	$0^h 17^m E$	8:34:00 - 8:38:00	WWV	13"	4x5 103aO	W	D19	5m	68°	N	Good	3	~~H~~Gickas	not on plate S too low
	5996	1979 VA	$3^h 22^m$	+2120	"	$1^h 06 E$	8:47:00 - 9:03:00	"	"	" "	"	"	"	"	"	"	"	"	
	5997	" XA	$2^h 03.8^m$	$+12°28'$	Dec 18/19	$0^h 49^m E$	7:51:00 - 7:55:00	"	"	" "	"	"	"	"	"	Good	3+	"	
	5998	" "	"	"	"	$0^h 37 E$	8:04:00 - 8:08:00	"	"	" "	"	"	"	"	"	"	"	"	
	5999	" VA	$3^h 27^m$	$+21°15'$	"	$1^h 24 E$	8:23:00 - 8:44:00	=21 min =	"	" "	"	"	"	"	"	"	"	"	
	6000	1979 XA	$1^h 58^m$	$+12.3°$	DEC 20. 16458 UT	$0^h 25^m W$	U.T. $3^h 54^m - 4^h 00^m$		"	" "	"	"	"	"	"	Good	4	"	
1980		1980			1980					1980									
	6001	1979 XA	$00^h 10^m$	$+4°07'$	Jan 4/5	$2^h 20^m W$	7:49:00 - 8:05:00	WWV	"	cut to 4x5 103aO	"	"	"	"	"	Fair To Poor	2	"	Drive in PA 252° 0.040/min #9, 480 ohms
	6002	"	"	"	"	$2^h 36^m W$	8:12:00 - 8:20:00	"	"	4x5 103aO	"	"	"	"	"	"	2	"	
	6003	"	$22^h 40^m$	$-3°40'$	Jan 15/16	$4^h 58 W$	8:13:00 - 8:30:00	"	"	"	E	"	"	"	S	Fair+	2	"	Drive PA 251° ~ #9 @ 580 ohms
	6004	80AA	$7^h 19^m$	$+27°55'$	"	$3^h 03 E$	9:02:00 - 9:10:00	"	"	"	W	"	"	"	N	"	"	"	Drive PA 120 #9 @ 660 ~ 121.2
	6005	"	"	"	"	$2^h 43 E$	9:21:00 - 9:29:00	"	"	"	"	"	"	"	"	"	"	"	"
	6006	79 UJ	$3^h 14^m$	$+2°.3$	U.T. Jan 22.16250	$1^h 23^m W$	U.T. $3^h 44^m - 4^h 04^m$	"	"	4x5	"	"	"	"	"	Good	2	ELGB	windy. Moon up
	6007	"	"	"	" 22.17917	$1^h 47^m W$	U.T. $4^h 08^m - 4^h 28^m$	"	"	"	"	"	"	"	"	"	"	"	Moon still up
	6008	15 XY	$5^h 55^m$	$+15°.4$	" 22.20139	$0^h 18^m E$	U.T. $4^h 35^m - 5^h 05^m$	"	"	"	"	"	"	"	"	"	"	"	Moon down at end
	6009	" "	"	"	" "														
	6010	80AA	$8^h 00^m$	$+18°.0$	" 22.22500	$0^h 16^m W$	U.T. $5^h 09^m - 5^h 39^m$	"	"	"	"	"	"	"	"	"	"	"	
	6011	"	"	"	" 22.24306	$1^h 35^m E$	U.T. $5^h 47^m - 5^h 53^m$	"	"	"	"	"	"	"	"	"	"	"	
	6012	873, etc.	$8^h 30^m$	$+17°.1$	" 22.25069	$1^h 24^m E$	U.T. $5^h 58^m - 6^h 04^m$	"	"	"	"	"	"	"	"	"	"	"	
	6013	"	"	"	" 22.26597	$1^h 25^m E$	U.T. $6^h 13^m - 6^h 33^m$	"	"	8x10	"	"	"	"	"	"	"	"	
	6014	1904	$9^h 41^m$	$+23°.1$	" 22.28264	$1^h 01^m E$	U.T. $6^h 37^m - 6^h 57^m$	"	"	"	"	"	"	"	"	"	"	"	
	6015	77 QV	$10^h 37^m$	$+28°.9$	" 22.30208	$1^h 44^m E$	U.T. $7^h 05^m - 7^h 25^m$	"	"	"	"	"	"	"	"	"	"	"	
	6016	1904	$9^h 41^m$	$+23°.1$	" 22.32431	$2^h 03^m E$	U.T. $7^h 32^m - 8^h 02^m$	"	"	"	"	"	"	"	"	"	"	"	
	6017	77 QV	$10^h 37^m$	$+28°.9$	" 22.34722	$0^h 39^m E$	U.T. $8^h 10^m - 8^h 30^m$	"	"	"	"	"	"	"	"	"	"	"	Very windy, but seeing not too bad.
	6018	CERES field #1	$7^h 06^m$	$+23°.8$	Feb 11. U.T. 20451	$0^h 18^m E$	U.T. $4^h 52 - 4^h 57^m$	"	"	"	"	"	"	"	"	"	4	ELGB	
	6019	" " #2	$7^h 15^m$	$+31°.9$	Feb 11. U.T. 21215	$0^h 18^m E$	U.T. $5^h 03 - 5^h 08$	"	"	"	"	"	"	"	"	"	"	"	
	6020	" " #3	$7^h 30^m$	$+23.1°$	Feb 11. U.T. 22118	$0^h 21^m E$	U.T. $5^h 16^m - 5^h 21^m$	"	"	"	"	"	"	"	"	"	"	"	
	6021	" " #4	$7^h 34$	$+30.0°$	Feb 11. U.T. 22882	$0^h 21^m E$	U.T. $5^h 27^m - 5^h 32^m$	"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1980	H.A. END	EXPOSURE MST-AM-PM	W.E	INST.	PLATE TYPE SIZE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV	REMARKS
6022	ceres field #5	7^h55^m	+27.7	ET Feb11. 23715	0^h19^m E	U.T. 5^h39-5^h44	WWV	13"	#8x10 103aD		D19	5m	68°	N	Good	4	ELGB	
6023	873, etc.	8^h09^m	+17.9	U.T. Feb 11.25000	0^h07^m E	U.T. 5^h50 -6^h10		"	" "		"	"	"	"	"	"	"	
6024	" "	"	"	U.T. Feb 11.26806	0^h18^m W	U.T. 6^h16-6^h36		"	" "		"	"	"	"	"	"	"	
6025	Vesta field #1	10^h05^m	+17.0	U.T. Feb11. 28160	1^h24^m E	U.T. 6^h43-6^h48		"	" "		"	"	"	"	"	"	"	
6026	" " #2	10^h12	+21.4	U.T. Feb 11.28944	1^h20^m E	U.T. 6^h54-6^h59		"	" "		"	"	"	"	"	"	"	faint double guide star.
6027	" " #3	10^h31	+15.3	U.T. Feb 11.29757	1^h28^m E	U.T. 7^h06-7^h11^m		"	" "		"	"	"	"	"	"	"	
6028	" " #4	10^h55	+14.8	U.T. Feb 11.30590	1^h40^m E	U.T. 7^h18^m-7^h23^m		"	" "		"	"	"	"	"	"	"	
6029	1778, 77LD, 770H	10^h45^m	+9.5	U.T. Feb 11.32292	0^h52^m E	U.T. 7^h30^m-8^h00^m		"	" "		"	"	"	"	"	"	"	
6030	" " "	"	"	" " 1134653	0^h18^m E	U.T. 8^h04-8^h34^m		"	" "		"	"	"	"	"	"	"	
6031	873, etc	7^h58^m	+20.1	U.T. MAR 05.12222		U.T. 2^h46-3^h06^m		"	" "		"	"	"	"	"	"	"	
6032	" "	"	"	U.T. MAR 05.13889		U.T. 3^h10-3^h30^m		"	" "		"	"	"	"	"	"	"	
6033	79XE	8^h11^m	+23.3	U.T. MAR 13.25972	2^h13^m W	U.T. 5^h59^m-6^h29^m		"	4x5		"	"	"	"	"	3	"	
6034	1778, etc	10^h31^m	+12.6	U.T. MAR 13.28333	0^h16^m W	U.T. 6^h38^m-6^h58^m		"	8x10		"	"	"	"	"	"	"	
6035	1975 BU	12^h35^m	+19.2	U.T. MAR 13.30278	1^h14^m E	U.T. 7^h06^m-7^h26^m		"	" "		"	"	"	"	"	"	"	
6036	1778, etc	10^h31^m	+12.6	U.T. MAR 13.32153	1^h16^m W	U.T. 7^h33^m-7^h53^m		"	" "		"	"	"	"	"	"	"	
6037	1975 BU	12^h35	+19.2	U.T. MAR 13.34028	0^h21^m E	U.T. 8^h00^m-8^h20^m		"	" "		"	"	"	"	"	5	"	
6038	1778 etc	10^h19^m	+12.6	U.T. MAR 14.25694	0^h01^m E	U.T. 6^h00^m-6^h20^m		"	" "		"	"	"	"	"	"	"	
6039	1778 etc.	"	"	U.T. MAR 14.27500	0^h25^m W	U.T. 6^h26^m-6^h46^m		"	" "		"	"	"	"	"	"	"	
6040	1975 WM1	14^h52^m	+1.3	U.T. MAR 14.43681	0^h10^m E	U.T. 10^h14^m-10^h44^m		"	" "		"	"	"	"	"	"	"	
6041	"	"	"	U.T. MAR 14.46111	0^h26^m W	U.T. 10^h49^m-11^h19^m		"	" "		"	"	"	"	"	"	"	
6042	RV Lyncis	$6^h54.5$	+51°10'	Mar 14/15	1^h48 W	9:40:00-9:50:00	"	"	4x5 103aO	W	"	"	"	N	Good	4	#Circles In Eclipse	
6043	"	"	"	"	2 07 W	9:59:00-10:09:00	"	"	"	"	"	"	"	"	"	"	"	
6044	"	"	"	"	2 35 W	10:16:00-10:26:00	"	"	"	"	"	"	"	"	"	"	"	
6045	"	"	"	"	2 52 W	10:33:00-10:43:00	"	"	"	"	"	"	"	"	"	"	"	
6046	1778 etc	10^h09^m	+13.6	U.T. MAR 16.19444	1^h18^m E	U.T. 4^h35^m-4^h45^m		"	" "		"	"	"	"	"	4	ELGB	
6047	"	10^h21^m	+13.2	U.T. MAR 16.21042	1^h02^m E	U.T. 4^h53^m-5^h13^m		"	" "		"	"	"	"	"	"	"	Excellent night, clouds lowin S and W
6048	"	"	"	U.T. MAR 16.22708	0^h38^m E	U.T. 5^h17^m-5^h37^m		"	" "		"	"	"	"	"	"	"	
6049	1980 Ob, etc.	$10^h17.4^m$	+13.7	U.T. MAR 21.18889	1^h10^m E	U.T. 4^h22^m-4^h42^m		"	8x10		"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE /1980	H.A. END	Exposure MST-AM-PM	WE	INST.	PLATE TYPE SIZE	Telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
6050	1980b, etc	$10^h17.4$	+13.7	U.T. MAR 21.20625	0^h45^m E	U.T. 4^h47^m - 5^h07^m	WWV	1.3"	8x10 103aO		D-19	5m	68°	N	Good	4	ELGB	
6051	1741 Giclas	12^h13^m	+1°38'	Apr. 9/10	1^h04^m E	10:04:00 - 10:24:00	"	"	4x5 103aO	W	"	"	"	"	Good	3	H.Giclas	
6052	"	"	"	"	0 36 E	10:31:00 - 10:51:00	"	"	"	"	"	"	"	"	"	4	"	
6053	m p	13^h54^m	+5° 30'	"	1^h59^m E	11:01:00 - 11:11:00	"	"	8x10 103aO	"	"	"	"	"	"	"	"	
6054	"	"	"	"	1^h42^m E	11:18:00 - 11:28:00	"	"	"	"	"	"	"	"	"	"	"	
6055	1980b, etc	10^h09^m	+13.6	U.T. APR 14.17569	0^h19^m W	U.T. 3^h58^m - 4^h28^m	"	"	"	"	"	"	"	"	"	4	ELGB	
6056	"	"	"	U.T. APR 14.20000	0^h54^m W	U.T. 4^h33^m - 5^h03^m	"	"	"	"	"	"	"	"	"	"	"	
6057	Pluto comp. stars	13^h53^m	+7°.8	U.T. APR 14.21771	2^h36^m E	U.T. 5^h11^m - 5^h16^m	"	"	"	"	"	"	"	"	"	"	"	
6058	B 30	14^h47^m	+4°.2	U.T. APR 14.23194	3^h02^m E	U.T. 5^h24^m - 5^h44^m	"	"	"	"	"	"	"	"	"	"	"	
6059	"	"	"	U.T. APR 14.25000	2^h36^m E	U.T. 5^h50^m - 6^h10^m	"	"	"	"	"	"	"	"	"	"	"	Very good night
6060	"	$14^h40.3^m$	+4°.8	U.T. APR 15.23889	2^h42^m E	U.T. 5^h34^m - 5^h54^m	"	"	"	"	"	"	"	"	"	"	"	
6061	"	"	"	U.T. APR 15.25694	2^h16^m E	U.T. 6^h06^m - 6^h20^m	"	"	"	"	"	"	"	"	"	"	"	good night
6062	B 33	14^h40^m5	+2°.2	U.T. APR 16.22500	2^h59^m E	U.T. 5^h14^m - 5^h34^m	"	"	"	"	"	"	"	"	"	"	"	
6063	"	"	"	U.T. APR 16.24306	2^h33^m	U.T. 5^h40^m - 6^h00^m	"	"	"	"	"	"	"	"	"	"	"	
6064	1741	12^h08^m	+2°30'	Apr. 17/18	0^h40^m E	9:42:00 - 10:12:00	MST PM	"	4x5 103aO	"	"	"	"	"	Fair+	4	H.Giclas	Extinction 0.30V hi thin haze
6065	"	"	"	"	0^h03 E	10:19:00 - 10:49:00		"	"	"	"	"	"	"	"	"	"	"
6066	1980 GA	$14^h36.4^m$	+2°.7	U.T. APR 19.25347	2^h01^m E	U.T. 5^h55^m - 6^h15^m		"	8x10 "	"	"	"	"	"	Good	4	ELGB	
6067	"	"	"	U.T. APR 19.27083	1^h37^m E	U.T. 6^h20^m - 6^h40^m		"	"	"	"	"	"	"	"	"	"	Suspicion of Cirrus
6068	1980b, etc	$10^h13.9^m$	+13°.9	U.T. MAY 8.15174	1^h11^m W	U.T. 3^h26^m - 3^h51^m		"	"	"	"	"	"	"	"	3	"	
6069	"	"	"	U.T. MAY 8.17257	1^h42^m W	U.T. 3^h56^m - 4^h21^m		"	"	"	"	"	"	"	"	"	"	
6070	1980 GA, etc.	$14^h03.3^m$	+1°.8	U.T. MAY 8.19236	1^h51^m E	U.T. 4^h27^m - 4^h47^m		"	"	"	"	"	"	"	"	"	"	Cloud at End. Observations Abandoned
6071	B 39, etc	$14^h28.4^m$	+3°.8	U.T. MAY 8.21042	1^h41^m E	U.T 4^h53^m - 5^h13^m		"	"	"	"	"	"	"	"	"	"	
6072	€ 1980 c	5^h20^m	+16°20'	May 8/9	6^h05^m W	8:36:00 - 8:48:00	"	"	4x5 103aO	E	"	"	"	S	Good	1	H.Giclas	Near Horison
6073	€ Wild, 1980d	$13^h09.3^m$	+11°30'	"	1^h03^m E	9:07:00 - 9:27:00	"	"	4x5 "	W	"	"	"	N	"	3+	"	
6074	1980 d	$13^h10.5^m$	+11.8	U.T MAY 10.27257	1^h14^m W	U.T. 6^h25^m - 6^h40^m		"	8x10 103aO	"	"	"	"	"	"	2	ELGB	Very Windy. Cloud around horizon
6075	1980 GA, etc.	$14^h04.0^m$	+1°.8	U.T. MAY 10.28958	0^h47^m W	U.T. 6^h47^m - 7^h07^m		"	"	"	"	"	"	"	"	"	"	this plate was exposed for 30s on the same field on May 08. U.T.
6076	1980 d	$13^h10.5^m$	+11°.8	U.T. MAY 10.30590	1^h58^m W	U.T. 7^h13^m - 7^h28^m		"	"	"	"	"	"	"	"	"	"	
6077	B 39, etc.	$14^h26.6^m$	+3°.9	U.T. MAY 10.32222	1^h07^m W	U.T. 7^h34^m - 7^h54^m		"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1980	H.A. END	EXPOSURE MST-AM-PM	W.E.	PLATE INST.	PLATE TYPE SIZE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV	REMARKS
6078	1980 GA, etc.	$14^h04.0^M$	$+1.8$	U.T MAY 10.34028	1^h56^M W	U.T. $8^h00^M - 8^h20^M$		13"	8x10 103a0	W	D19	5^{MIN}	68°	N	Good	2	ELGB	
6079	1950 DS	$16^h53.0^M$	-8.2	U.T. MAY 10.35903	0^h22^M E	U.T. $8^h27^m - 8^h47^m$		"	"	"	"	"	"	"	"	"	"	
6080	B39, etc.	$14^h26.6^M$	$+3.9$	U.T. 1980 MAY 10.39097	2^h50^M W	U.T. $9^h13^m - 9^h33^M$		"	"	"	"	"	"	"	"	"	"	
6081	1950 DS	$16^h53.0^M$	-8.2	U.T. MAY 10.40903	0^h50^M W	U.T. $9^h39^m - 9^h59^m$		"	"	"	"	"	"	"	"	"	"	
6082	1980 GC	$14^h14.9^M$	$+5.0$	U.T. JUN 11.21285	0^h54^M W	U.T. $4^h54^m - 5^h19^m$		"	"	"	"	"	"	"	"	4	"	
6083	1980 GA	$13^h41.4^M$	-7.3	U.T. JUN 11.22917	1^h42^M W	U.T. $5^h25 - 5^h35^m$		"	"	"	"	"	"	"	"	"	"	
6084	1980 GC	$14^h14.9^M$	$+5.0$	U.T. JUN 11.24549	1^h40^M W	U.T. $5^h41 - 6^h06^m$		"	"	"	"	"	"	"	"	"	"	
6085	1980 GA	$13^h41.4^M$	-7.3	U.T. JUN 11.26181	2^h31^m W	U.T. $6^h12 - 6^h22^M$		"	"	"	"	"	"	"	"	"	"	
6086	1977 R.A.	$18^h01.0^M$	-29.7	U.T. JUN 11.27847	1^h20^M E	U.T. $6^h31^m - 6^h51^m$		"	"	"	"	"	"	"	"	3	"	
6087	"	"	"	U.T. JUN 11.29583	0^h55^M E	U.T. $6^h56 - 7^h16^m$		"	"	"	"	"	"	"	"	"	"	
6088	1977 RF	$18^M42.9$	$-26^\circ.8$	U.T. JUN 11.31528	1^h09^M E	U.T. $7^h24^m - 7^h44^m$		"	"	"	"	"	"	"	"	2	"	
6089	"	"	"	U.T. JUN 11.33264	0^h45^M E	U.T. $7^h49 - 8^h09^M$		"	"	"	"	"	"	"	"	"	"	
6090	460	$20^h28.0^M$	-12.2	U.T. JUN 11.35313	1^h58^M E	U.T. $8^h16^M - 8^h41^M$		"	"	"	"	"	"	"	"	3	"	
6091	1162	$20^h27.9^M$	-20.2	U.T. JUN 11.37535	1^h25^M E	U.T. $8^h48^M - 9^h13^M$		"	"	"	"	"	"	"	"	"	"	
6092	460	$20^h28.0^M$	-12.2	U.T. JUN 11.39688	0^h54^M E	U.T. $9^h19M - 9^h44^M$		"	"	"	"	"	"	"	"	"	"	
6093	1162	$20^h27.9^M$	-20.2	U.T. JUN 11.41771	0^h24^M E	U.T. $9^h49^M - 10^h14^M$		"	"	"	"	"	"	"	"	"	"	
6094	B32	$20^h20.2^M$	-5.0	U.T JUN 14.35660	1^h32^M E	U.T. $8^h21^m - 8^h46^M$		"	"	"	"	"	"	"	"	"	"	
6095	B38, B41	$20^h31.6^M$	-23.1	U.T. JUN 14.37882	1^h12^M E	U.T. $8^h53^M - 9^h18^M$		"	"	"	"	"	"	"	"	"	"	
6096	B32	$20^h20.2^M$	-5.0	U.T. JUN 14.40035	0^h30^M E	U.T. $9^h24^M - 9^h49^M$		"	"	"	"	"	"	"	"	"	"	
6097	B38, B41	$20^h31.6^M$	-23.1	U.T. JUN 14.42188	0^h10^M E	U.T. $9^h55^M - 10^h20^M$		"	"	"	"	"	"	"	"	"	"	
6098	B43	$20^h19.5^M$	-6.5	U.T. JUN 17.30556	2^h36^M E	U.T. $7^h10^M - 7^h30^M$		"	"	"	"	"	"	"	"	"	"	some light cirrus
6099	B41	$20^h29.1^M$	-22.6	U.T. JUN 17.32500	2^h18^M E	U.T. $7^h38^m - 7^h58^m$		"	"	"	"	"	"	"	"	2	"	
6100	B43	$20^h19.5^M$	-6.5	U.T JUN 17.34306	1^h42^M E	U.T. $8^h04 - 8^h24^M$		"	"	"	"	"	"	"	"	3	"	
6101	B41	$20^h29.1^M$	-22.6	U.T JUN 17.36111	1^h26^m E	U.T. $8^h30^M - 8^h50^M$		"	"	"	"	"	"	"	"	2	"	
6102	B43	$20^h20.0^m$	-6.5	U.T. JUN 18.30069	2^h39^M E	U.T. $7^h03 - 7^h23^m$		"	"	"	"	"	"	"	"	4	"	
6103	B41	$20^h30.0^m$	-24.7	U.T. JUN 18.31944	2^h22^M E	U.T. $7^h30 - 7^h50^m$		"	"	"	"	"	"	"	"	2	"	
6104	B43	$20^h20.0$	-6.5	U.T. JUN 18.33750	1^h46^M E	U.T. $7^h56^m - 8^h16^m$		"	"	"	"	"	"	"	"	3	"	
6105	B41	$20^h30.0^M$	-24.7	U.T. JUN 18.35556	1^h30^M E	U.T. $8^h22^M - 8^h42^m$		"	"	"	"	"	"	"	"	"	"	Good night

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1980	H.A. End	EXPOSURE MST-AM-PM	W.E.	INST	SIZE PLATE TYPE	Telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
									103aO 8x10					N		4		
6106	B 43	$20^h02.7^M$	+2.6	U.T. JUL 05.23889	$2^h50^M E$	U.T. 5^h39 - 5^h49												
6107	B 32	$20^h22.2^M$	-8.7	U.T. JUL 05.25417	$2^h42^M E$	U.T. 5^h56 - 6^h16^M		13"	103aO 8x10	W	D19	5^M	68°	N	Good	3	ELGB	
6108	B 43	$20^h02.7^M$	+2.6	U.T. JUL 05.26875	$2^h07^M E$	U.T. 6^h22^M - 6^h32^M		"	" "	"	"	"	"	"	"	4	"	
6109	B 41	$20^h17.0^M$	-25.2	U.T. JUL 05.28264	$1^h56^M E$	U.T. 6^h37^M - 6^h57^M		"	" "	"	"	"	"	"	"	3	"	
6110	B 32	$20^h22.2^M$	-8.7	U.T. JUL 05.30069	$1^h36^M E$	U.T. 7^h02 - 7^h23^M		"	" "	"	"	"	"	"	"	4	"	
6111	B 47	$20^h35.5^M$	-31.2	U.T. JUL 05.31806	$1^h22^M E$	U.T. 7^h28^M - 7^h48		"	" "	"	"	"	"	"	"	3	"	Moonrise 7^h35^M
6112	B 41	$20^h17.0^M$	-25.2	U.T. JUL 05.33542	$0^h39^M E$	U.T. 7^h53^M - 8^h13^M		"	" "	"	"	"	"	"	"	4	"	
6113	B 47	$20^h35.5^M$	-31.2	U.T. JUL 05.35243	$0^h35^M E$	U.T. 8^h20^M - 8^h35^M		"	" "	"	"	"	"	"	"	3	"	Good Night
6114	B 43	$19^h55.3^M$	+4.6	U.T. JUL 14.25833	$1^h39^M E$	U.T. 6^h07^M - 6^h17^M		"	" "	"	"	"	"	"	"	4	"	
6115	B 32	$20^h18.6^M$	-9.6	U.T. JUL 14.27361	$1^h35^M E$	U.T. 6^h24^M - 6^h44^M		"	" 4x5	"	"	"	"	"	"	3	"	
6116	B 43	$19^h55.3^M$	+4.6	U.T. JUL 14.28819	$0^h56^M E$	U.T. 6^h50^M - 7^h00^M		"	" 8x10	"	"	"	"	"	"	4	"	
6117	B 32	$20^h18.6^M$	-9.6	U.T. JUL 14.30278	$0^h53^M E$	U.T. 7^h06^M - 7^h26^M		"	" "	"	"	"	"	"	"	3	"	
6118	B 41	$20^h23.9^M$	-32.2	U.T. JUL 14.31875	$0^h38^M E$	U.T. 7^h32^M - 7^h46^M		"	" "	"	"	"	"	"	"	3	"	
6119	B 41	"	"	U.T. JUL 14.33264	$0^h18^M E$	U.T. 7^h52^M - 8^h06^M		"	" "	"	"	"	"	"	"	"	"	First Trial of 10x16 (2a 8x10) plateholder
6120	228, 1721 (N)	$22^h14.2^M$	-10.4	U.T. JUL 14.35486	$1^h34^M E$	U.T. 8^h21^M - 8^h41^M		"	" 10x16	"	"	"	"	"	"	"	"	"
6121	" (S)	"	"	UT. JUL 14.35486	"	U.T. 8^h21^M - 8^h41^M		"	" "	"	"	"	"	"	"	"	"	
6122	" (N)	"	"	U.T JUL 14.37569	$1^h04^M E$	U.T. 8^h51 - 9^h11^m		"	" "	"	"	"	"	"	"	"	"	
6123	" (S)	"	"	U.T. JUL 14.37569	"	U.T. 8^h51 - 9^h11^m		"	" "	"	"	"	"	"	"	"	"	
6124	B 43	$19^h49.7^M$	+7.6	U.T. JUL 17.26528	$1^h11^m E$	U.T. 6^h17^M - 6^h27^M		"	" 4x5	"	"	"	"	"	"	4	"	
6125	B 38, B 42	$20^h04.9^M$	-23.7	U.T. JUL 17.27813	$1^h06^M E$	U.T. 6^h33^M - 6^h48^m		"	" 8x10	"	"	"	"	"	"	3	"	
6126	"	"	"	U.T. JUL 17.29132	$0^h46^M E$	U.T. 6^h52^m - 7^h07^m		"	" "	"	"	"	"	"	"	"	"	
6127	228, 1721	$22^h12.0^m$	-11.1	U.T. JUL 17.30833	$2^h26^M E$	U.T. 7^h14^m - 7^h34^m		"	" "	"	"	"	"	"	"	"	"	
6128	864, 1187, 1578	$22^h55.7^M$	-5.7	U.T. JUL 17.33056	$2^h34^m E$	U.T. 7^h41 - 8^h11^m		"	" "	"	"	"	"	"	"	"	"	
6129	228, 1721	$22^h12.0^M$	-11.1	U.T. JUL 17.35139	$1^h25^m E$	U.T. 8^h16^m - 8^h36^m		"	" "	"	"	"	"	"	"	4	"	
6130	864, 1187, 1578	$22^h55.7^M$	-5.7	U.T. JUL 17.37222	$1^h34^m E$	U.T 8^h41^m - 9^h11^m		"	" "	"	"	"	"	"	"	"	"	
6131	B 45	$22^h29.7^M$	-10.8	U.T. JUL 19.32431	$2^h13^M E$	U.T 7^h37^m - 7^h57^m		"	" "	"	"	"	"	"	"	"	"	Guiding Poor Cirrus
6132	B 51	$22^h54.1^M$	-5.2	U.T. JUL 19.34722	$1^h59^m E$	U.T. 8^h05^m - 8^h35^m		"	" "	"	"	"	"	"	"	"	"	P 6132 Plate erroneously marked
6133	B 43	$19^h28.2^M$	+12.9	U.T. AUG 04.21400	$0^h53^M E$	U.T. 5^h03^m - $5^h13^m 20^s$		"	4x5 "	"	"	"	"	"	"	3	"	

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1980	H.A. END	EXPOSURE MST-AM-PM
6135	B 32	$19^h52.0^m$	-12.2°	U.T. AUG 04.23646	0^h41^m E	U.T. $5^h33^m - 5^h48^m$
6136	B38, B42	$19^h44.5^m$	-23.7°	U.T. AUG 4.25104	0^h14^m E	U.T. $5^h54^m - 6^h09^m$
6134	B43	$19^h28.2^m$	$+12.9^\circ$	U.T. AUG 04.22361	0^h39^m E	U.T. $5^h17^m - 5^h27^m$
6137	B41, B47	$19^h56.8^m$	-35.2°	UT AUG. 04.26389	0^h05^m W	U.T. $6^h15^m - 6^h25^m$
6138	B 32	$19^h52.0^m$	-12.2°	U.T. AUG 04.27535	0^h14^m W	U.T. $6^h29^m - 6^h44^m$
6139	B38, B42	$19^h44.5^m$	-23.7°	U.T. AUG 04.28924	0^h41^m W	U.T. $6^h49 - 7^h04^m$
6140	B41, B47	$19^h56.8^m$	-35.2°	U.T. AUG 04.30139	0^h59^m W	U.T. $7^h09^m - 7^h19^m$
6141	B43	$19^h26.7^m$	$+13.0^\circ$	U.T. AUG 06.21424	0^h40^m E	U.T. $5^h01^m - 5^h16^m$
6142	B 32	$19^h50.0^m$	-11.2°	U.T. AUG 06.22917	0^h39^m E	U.T. $5^h20^m - 5^h40^m$
6143	B 43	$19^h26.7$	$+13.0^\circ$	U.T. AUG 06.24479	0^h05^m W	U.T. $5^h45^m - 6^h00^m$
6144	B 32	$19^h50.0^m$	-11.2°	U.T. AUG 06.26042	0^h05^m W	U.T. $6^h05^m - 6^h25^m$
6145	B 45	$22^h09.3^m$	-7.0°	U.T. AUG. 06.27986	1^h47^m E	U.T. $6^h33^m - 6^h53^m$
6146	B 46	$22^h11.4$	-15.1°	U.T. AUG 06.29792	1^h22^m E	U.T. $6^h59 - 7^h19^m$
6147	B 45	$22^h09.3$	-7.0°	U.T. AUG 06.31528	0^h55^m E	U.T. $7^h24^m - 7^h44^m$
6148	B 48	$22^h47.7^m$	-0.5	U.T. AUG 06.33264	1^h09^m E	U.T. $7^h49^m - 8^h09^m$
6149	B 46	$22^h11.4^m$	-15.1°	U.T. AUG 06.35000	0^h07^m E	U.T. $8^h14^m - 8^h34^m$
6150	B 48	$22^h47.7$	-0.5°	U.T. AUG 06.36667	0^h20^m E	U.T. $8^h38^m - 8^h58^m$
6151	B 41	$19^h38.8$	-38.3°	U.T. AUG 08.25839	0^h16^m	U.T. $5^h57^m - 6^h27^m 10^s$
6152	B 41	"	"	U.T AUG 08.28681	0^h57^m W	U.T. $6^h38^m - 7^h08^m$
6153	B 53, B54	$22^h30.3^m$	-9.0°	U.T. AUG 08.31250	1^h13^m E	U.T. $7^h19^m - 7^h41^m$
6154	B52, B55, B56	$22^h56.1^m$	-8.2°	U.T. AUG 08.33056	1^h12^m E	U.T. $7^h46^m - 8^h06^m$
6155	B 53, B 54	$22^h30.3^m$	-9.0°	U.T. AUG 08.34792	0^h21^m E	U.T. $8^h11^m - 8^h31^m$
6156	B52, B55, B56	$22^h56.1^m$	-8.2°	U.T. AUG 08.36458	0^h23^m E	U.T. $8^h35^m - 8^h55^m$
6157	80 PA	$23^h31.4^m$	$+5.6^\circ$	U.T AUG 08.38889	0^h23^m E	U.T. $9^h10^m - 9^h30^m$
6158	A0 PA	00^h02^m	$+11^\circ 15'$	Aug 16/17	0^h01^m E	2:17:00 - 2:47:00 AM MST
6159	"	"	"	"	0^h46^m W	3:02:00 - 3:32:00 "
6160	B 43	$19^h14.5^m$	$+15.4^\circ$	U.T. SEP 02.13299	0^h39^m E	U.T. $3^h04 - 3^h19^m$
6161	B38, B42	$19^h35.9^m$	-23.9°	U.T. SEP 02.15000	0^h33^m E	U.T. $3^h26 - 3^h46^m$

INST.	PLATE TYPE SIZE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WRITING	SEEING Trans.	SEEING Stead	OBSV.	REMARKS
13"	8x10 103a-O	N	D19	5	68°	N	Good	3	ELGB	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	2	"	
"	" "	"	"	"	"	"	"	3	HLG	
"	" "	"	"	"	"	"	"	4		
"	" "	"	"	"	"	"	"	"	"	Good night
"	" "	"	"	"	"	"	"	4	ELGB	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	Very good night
"	" "	"	"	"	"	"	"	3	"	
"	8x8	"	"	"	"	"	"	"	"	
"	8x8	"	"	"	"	"	"	4	"	
"	8x10	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	Good	3	#Giles	
"	8x8	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	4	ELGB	
"	4x5	"	"	"	"	"	"	"	"	
"	8x10	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC	DATE	H.A. END	EXPOSURE MST-AM-PM	W.E	INST.	PLATE TYPE SIZE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV	REMARKS
6162	B41	$19^h 22.0$	-44.1°	U.T. SEP 02.17500	$0^h 21^m W$	U.T. $3^h 57^m - 4^h 27^m$		13"	8x8 103a0	N	D-19	5 min	68°	N	Good	2	ELGB	
6163	B38, B42	$19^h 35.9^m$	-23.9°	U.T. SEP 02.18514	$0^h 26^m W$	U.T. $4^h 31^m - 4^h 51^m$		"	8x10 "	"	"	"	"	"	"	4	"	
6164	B47	$19^h 48.3^m$	-35.2°	U.T. SEP 02.21250	$0^h 43^m W$	U.T. $4^h 56^m - 5^h 16^m$		"	4x5 "	"	"	"	"	"	"	3	"	
6165	B53, etc.	$22^h 16.4$	-11.5°	U.T. SEP 02.23194	$1^h 15^m E$	U.T. $5^h 24^m - 5^h 44^m$		"	8x10 "	"	"	"	"	"	"	"	"	
6166	B53, etc.	"	"	U.T. SEP 02.24861	$0^h 52^m E$	U.T. $5^h 48^m - 6^h 08^m$		"	" "	"	"	"	"	"	"	"	"	
6167	B45	$21^h 40.0^m$	-8.3°	U.T. SEP 04.22014	$0^h 48^m E$	U.T. $5^h 07^m - 5^h 27^m$		"	" "	"	"	"	"	"	"	"	"	
6168	B46, B59, B60	$21^h 53.1^m$	-20.3°	U.T. SEP 04.23750	$0^h 36^m E$	U.T. $5^h 32^m - 5^h 52^m$		"	" "	"	"	"	"	"	"	"	"	
6169	B53, etc.	$22^h 13.9^m$	-11.7°	U.T. SEP 04.26181	$0^h 23^m E$	U.T. $6^h 07^m - 6^h 27^m$		"	" "	"	"	"	"	"	"	"	"	start time uncertain
6170	B45	$21^h 40.0^m$	-8.3°	U.T SEP 04.27917	$0^h 37^m W$	U.T. $6^h 32^m - 6^h 52^m$		"	" "	"	"	"	"	"	"	"	"	
6171	B46, B59, B60	$21^h 53.1^m$	-20.3°	U.T. SEP 04.29653	$0^h 49^m W$	U.T. $6^h 57^m - 7^h 17^m$		"	" "	"	"	"	"	"	"	"	"	
6172	B53, etc.	$22^h 13.9^m$	-11.7°	U.T. SEP 04.31319	$0^h 51^m W$	U.T. $7^h 21^m - 7^h 41^m$		"	" "	"	"	"	"	"	"	"	"	
6173	B55, etc.	$22^h 39.2^m$	-12.5°	U.T. SEP 04.33125	$0^h 52^m W$	U.T. $7^h 47^m - 8^h 07^m$		"	" "	"	"	"	"	"	"	"	"	Cloud in South
6174	B45, B83	$21^h 41.0^m$	-7.3°	U.T. SEP 07.24375	$0^h 03^m E$	U.T. $5^h 41 - 6^h 01^m$		"	4x5 "	"	"	"	"	"	"	4	"	
6175	B59, B84	$22^h 02.1^m$	-20.3°	U.T. SEP 07.26111	$0^h 01^m W$	U.T. $6^h 06^m - 6^h 26^m$		"	" "	"	"	"	"	"	"	"	"	lightning in South
6176	B52-54, B61, B66-B82	$22^h 09.8^m$	-11.6°	U.T. SEP 07.27917	$0^h 19^m W$	U.T. $6^h 32^m - 6^h 52^m$		"	8x10 "	"	"	"	"	"	"	"	"	
6177	B49, B50, B52, B57, B58	$22^h 19.4^m$	-3.8°	U.T. SEP 07.29722	$0^h 35^m W$	U.T. $6^h 58^m - 7^h 18^m$		"	" "	"	"	"	"	"	"	"	"	
6178	B55, B56, B62-B65	$22^h 35.1^m$	-13.2°	U.T. SEP 07.31458	$0^h 43^m W$	U.T $7^h 23^m - 7^h 43^m$		"	" "	"	"	"	"	"	"	"	"	
6179	B52, B54, B61, B66-B82	$22^h 09.8^m$	-11.6°	U.T. SEP 07.33160	$1^h 33^m W$	U.T. $7^h 49^m - 8^h 06^m$		"	" "	"	"	"	"	"	"	"	"	Cloud at End
6180	B49, B50, B52, B57, B58	$22^h 19.4$	-3.8°	U.T. SEP 07.35417	$1^h 57^m W$	U.T. $8^h 20^m - 8^h 40^m$		"	" "	"	"	"	"	"	"	"	"	Possibly some clouds
6181	B55, B56, B62-B65	$22^h 35.1^m$	-13.2°	U.T. SEP 07.37153	$2^h 06^m W$	U.T. $8^h 45^m - 9^h 05^m$		"	" "	"	"	"	"	"	"	"	"	" " "
6182	80 PA	$1^h 54.6^m$	$+27.9^\circ$	U.T. SEP 07.39444	$0^h 36^m E$	U.T. $9^h 13^m - 9^h 43^m$		"	" "	"	"	"	"	"	"	"	"	
6183	c/cernis-Petrauskas	$4^h 45.5^m$	$+24.3^\circ$	U.T. SEP 9.12465	$4^h 01^m W$	U.T. $2^h 57 - 3^h 02^m$		"	4x5 "	"	"	"	"	"	"	"	11÷ Brian Skiff	NBG Emulsion in Backing
6184	B59, B84	$21^h 58.3^m$	$+20.7^\circ$	U.T. SEP 11.22222	$0^h 46^m E$	U.T. $5^h 10^m - 5^h 30^m$		"	" "	"	"	"	"	"	"	"	B.A. Skiff	
6185	B52, B61, etc.	$22^h 05.0^m$	-10.5°	U.T. SEP 11.25208	$0^h 02^m W$	U.T. $5^h 53^m - 6^h 13^m$		"	" "	"	"	"	"	"	"	"	"	
6186	B59, B84	$21^h 58.3^m$	$+20.7^\circ$	U.T. SEP 11.27917	$0^h 41^m W$	U.T. $6^h 32^m - 6^h 52^m$		"	" "	"	"	"	"	"	"	"	"	
6187	B52, B61, etc.	$22^h 05.0^m$	-10.5°	U.T. SEP 11.30347	$1^h 15^m W$	U.T. $7^h 07^m - 7^h 27^m$		"	" "	"	"	"	"	"	"	"	"	
6188	B54, etc.	$22^h 11.0^m$	-15.2°	U.T. SEP 14.21528	$1^h 45^m E$	U.T. $5^h 00^m - 5^h 20^m$		"	" "	"	"	"	"	"	3	B Skiff		
6189	B55, etc.	$22^h 32.0^m$	-11.5°	U.T. SEP 14.24097	$1^h 20^m E$	U.T. $5^h 37^m - 5^h 57^m$		"	" "	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A	Position DEC.	DATE 1980	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST	PLATE TYPE SIZE	Telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WRITING	SEEING Trans.	SEEING STEAD	OBSV.	REMARKS
6190	B54, etc	$22^h 11.0^m$	-15.2°	UT. SEP 14.27222	$0^h 20^m E$	U.T. $6^h 22^m - 6^h 42^m$	WWV"	13"	4x5 103a-0	W	D19	5^{MIN}	68°	N	Good	3	B Skiff	
6191	B55, etc	$22^h 32.0^m$	-11.5°	U.T. SEP 14.30000	$0^h 07^m E$	U.T. $7^h 02^m - 7^h 22^m$	"	"	" "	"	"	"	"	"	"	"	"	
6192	B49, B50 etc.	$22^h 14.3^m$	-4.5°	U.T. SEP 14.33056	$1^h 00^m W$	U.T. $7^h 46^m - 8^h 06^m$	"	"	8x10 "	"	"	"	"	"	"	4	"	
6193	B49, B50 etc.	"	"	U.T. SEP 14.35764	$1^h 35^m W$	U.T. $8^h 25^m - 8^h 45^m$	"	"	" "	"	"	"	"	"	"	"	"	
6194	B49, B50, etc.	$22^h 11.4^m$	-4.2°	U.T. SEP 17.32014	$1^h 57^m W$	U.T. $7^h 31^m - 7^h 51^m$	"	"	" "	"	"	"	"	"	"	2-3	NGT	
6195	"	"	"	U.T. SEP 17.34236	$2^h 29^m W$	U.T. $8^h 03^m - 8^h 23^m$	"	"	" "	"	"	"	"	"	"	2	"	
6196	10 (80/81) #1	$3^h 26.8^m$	$+21.0^\circ$	U.T. SEP 17.36944	$2^h 14^m E$	U.T. $8^h 47^m - 8^h 57^m$	"	"	" "	"	"	"	"	"	EXCELLENT	3	"	
6197	10 (80/81) #2	$3^h 48.9^m$	$+22.5^\circ$	U.T. SEP 17.38889	$2^h 08^m E$	U.T. $9^h 15^m - 9^h 25^m$	"	"	" "	"	"	"	"	"	"	"	"	
6198	10 (80/81) #3	$4^h 11.5^m$	$+26.1^\circ$	U.T. SEP 17.40625	$2^h 06^m E$	U.T. $9^h 40^m - 9^h 50^m$	"	"	" "	"	"	"	"	"	"	2	"	
6199	80 PA	$3^h 35^m$	$+35^\circ 20'$	Sept 17/18	$0^h 12 E$	3:33:00 - 4:03:00 AM MST	"	"	8x8 "	"	"	"	"	"	Good	3	H L Gicles	Drive 5.09/min in PA 79° ~ 90.2
6200	"	"	"	"	$0^h 33^m W$	4:18:00 - 4:48:00 "	"	13" f 5" Coolux	8x10 "	"	"	"	"	"	"	4	"	"
6201	#51 Nemausa	$4^h 48.5^m$	$+12^\circ 55'$	"	$0^h 18^m E$	5:05:00 - 5:14:00 AM MST.		13	4x5 "	"	"	"	"	"	"	4	"	
6202	C/K Ernis-Petrauskas	$15^h 44.7^m$	$+19.8^\circ$	U.T. SEP 30.12014	$4^h 20^m W$	U.T. $2^h 48 - 2^h 58^m$		13"	4X5 "	"	"	"	"	"	Fair	3	BAS	
6203	" "	$15^h 44.7$	+19.8	U.T. SEP 30.13403	$4^h 40^m W$	U.T. $3^h 08^m - 3^h 18^m$		"	" "	"	"	"	"	"	"	"	BAS	
6204	7 AQR	$22^h 48.7^m$	$-7^\circ 15'$	U.T. SEP. 30.17639	$1^h 13^m E$	U.T. $4^h 09^m - 4^h 19^m$		"	" "	"	"	"	"	"	"	"	BAS	bad guiding at start
6205	7 AQR	"	"	U.T. SEP 30.19028	$0^h 57^m E$	U.T. $4^h 29^m - 4^h 39^m$		"	" "	"	"	"	"	"	"	"	BAS	
6206	S3, S4	$23^h 02.3^m$	$-3^\circ 40.7'$	U.T. Oct 1.16597	$1^h 22^m E$	U.T. $3^h 49^m - 4^h 09^m$		"	4X5 "	"	"	"	"	"	Fair	4	BAS	Poor Guiding in d/g
6207	S5	$22^h 59.7$	$-7^\circ 25.4'$	U.T. Oct 1.19375	$0^h 40^m E$	U.T. $4^h 29^m - 4^h 49^m$		"	" "	"	"	"	"	"	"	"	"	
6208	S3, S4	$23^h 02.3^m$	-3.7°	U.T. Oct 1.21528	$0^h 32^m E$	U.T. $5^h 00^m - 5^h 20^m$		"	" "	"	"	"	"	"	"	"	"	
6209	S5	$22^h 59.7^m$	-7.4°	U.T. Oct 01.23889	$0^h 07^m W$	U.T. $5^h 34 - 5^h 54^m$		"	" "	"	"	"	"	"	"	"	"	
6210	1980 LA	$19^h 40.1^m$	$+14.3^\circ$	U.T. Oct 02.10069	$0^h 09^m W$	U.T. $2^h 15^m - 2^h 35^m$		"	" "	"	"	"	"	"	"	"	EL'GB	
6211	B45, 61, 69, 83	$21^h 39.4^m$	-6.6°	U.T. Oct 02.12014	$1^h 23^m E$	U.T. $2^h 43^m - 3^h 03^m$		"	" "	"	"	"	"	"	4	4	EL GB	
6212	B53, 54, 66, 74, 75, 76, 78, 79, 81	$21^h 59.8^m$	-14.3°	U.T. Oct 02.13750	$1^h 17^m E$	U.T. $3^h 08^m - 3^h 28^m$		"	8 X 10 "	"	"	"	"	"	4	4	"	
6213	B45, 61, 69, 83	$21^h 39.4^m$	-6.6°	U.T. Oct 02.15486	$0^h 33^m E$	U.T. $3^h 33^m - 3^h 53^m$		"	" "	"	"	"	"	"	4	4	"	
6214	B53, 54, 66, 74, 75 B76, 78, 79, 81	$21^h 59.8^m$	-14.3°	U.T. Oct 02.17153	$0^h 27^m E$	U.T. $3^h 57^m - 4^h 17^m$		"	" "	"	"	"	"	"	"	"	"	
6215	B62, B84	$22^h 16.2^m$	-22.8°	U.T. Oct 02.18889	$0^h 20^m E$	U.T. $4^h 22^m - 4^h 42^m$		"	" "	"	"	"	"	"	"	"	"	
6216	B48, 49, 52, 57, 58, 68, 72 B85, 86, 88, 89, 90, 91	$22^h 09.7^m$	-5.1°	U.T. Oct 2.20938	$0^h 16^m W$	U.T. $4^h 49^m - 5^h 14^m$		"	" "	"	"	"	"	"	"	"	"	
6217	B62	$22^h 20.8$	-20.6°	U.T. Oct 2.22986	$0^h 34^m W$	U.T. $5^h 21^m - 5^h 41^m$		"	4X5 "	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1980	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST	PLATE TYPE SIZE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WTING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
6218	B48,49,52,57,58,68,72 B85,86,88,89,90,91	$22^h09.7^m$	$-5.1°$	U.T. Oct 2.25243	1^h18^m W	U.T. $5^h51^m - 6^h16^m$		13"	8x10 103a0	N	D19	5 MIN	68°	N	4	4	EL6B	
6219	B48, B89	$22^h00.5^m$	$-4.9°$	U.T. Oct 4.15069	0^h45^m E	U.T. $3^h22^m - 3^h52^m$		"	4x5 "	"	"	"	"	"	3	4	BAS	
6220	B91	$22^h20.8^m$	$-8.6°$	U.T. Oct 4.18542	0^h13^m E	U.T. $4^h12^m - 4^h42^m$		"	" "	"	"	"	"	"	"	"	"	
6221	B48, B89	$22^h00.5^m$	$-4.9°$	U.T. Oct 4.21319	0^h46^m W	U.T. $4^h52^m - 5^h22^m$		"	" "	"	"	"	"	"	"	"	"	
6222	B91	$22^h20.8^m$	$-8.6°$	U.T. Oct 4.24375	1^h10^m W	U.T. $5^h36 - 6^h06^m$		"	" "	"	"	"	"	"	"	"	"	
6223	B88	$22^h14.0^m$	$-1°50'$	U.T. Oct 05.11458	1^h47^m E	U.T. $2^h30^m - 3^h00^m$		"	" "	"	"	"	"	"	"	3	"	
6224	S7HJ	$22^h49.5^m$	$+4.1°$	U.T. Oct 5.14375	1^h48^m E	U.T. $3^h17 - 3^h37^m$		"	" "	"	"	"	"	"	"	"	"	
6225	B88	$22^h14.0^m$	$-1.8°$	U.T. Oct 5.18750	0^h03^m E	U.T. $4^h15^m - 4^h45^m$		"	" "	"	"	"	"	"	"	"	"	
6226	S7HJ	$22^h49.5^m$	$+4.1°$	U.T. Oct 05.21389	0^h03^m E	U.T. $4^h58^m - 5^h18^m$		"	" "	"	"	"	"	"	"	"	"	
6227	B91	$22^h14.4^m$	$-8.0°$	U.T. Oct 8.14236	0^h55^m E	U.T. $3^h10^m - 3^h40^m$		"	" "	"	"	"	"	"	4	"	"	
6228	B65	$22^h23.1^m$	$-11.1°$	U.T. Oct 8.17014	0^h23^m E	U.T. $3^h50^m - 4^h20^m$		"	" "	"	"	"	"	"	"	"	"	
6229	B91	$22^h14.4^m$	$-8.0°$	U.T. Oct 8.19722	0^h29^m W	U.T. $4^h29^m - 4^h59^m$		"	" "	"	"	"	"	"	"	"	"	
6230	B65	$22^h23.1^m$	$-11.1°$	U.T. Oct 8.22569	0^h57^m W	U.T. $5^h10^m - 5^h40^m$		"	" "	"	"	"	"	"	"	"	"	
6231	S1	$23^h11.0^m$	$-13.4°$	U.T. Oct 8.25278	0^h47^m W	U.T. $5^h54^m - 6^h14^m$		"	" "	"	"	"	"	"	"	"	"	
6232	197	$3^h57.7^m$	$+12.4°$	U.T. Oct 8.27188	3^h42^m E	U.T. $6^h29^m - 6^h34^m$		"	" "	"	"	"	"	"	"	"	"	
6233	S1	$23^h11.0^m$	$-13.4°$	U.T. Oct 8.29028	1^h37^m W	U.T. $6^h48^m - 7^h08^m$		"	" "	"	"	"	"	"	"	"	"	
6234	31TV	$23^h12.6^m$	$-1.8°$	U.T. Oct 10.13056	2^h07^m E	U.T. $2^h58^m - 3^h18^m$		"	" "	"	"	"	"	"	"	"	"	
6235	69 RY	$23^h58.6^m$	$+16.8°$	U.T. Oct 10.15278	2^h21^m E	U.T. $3^h30^m - 3^h50^m$		"	" "	"	"	"	"	"	"	"	"	
6236	31TV	$23^h12.6^m$	$-1.8°$	U.T. Oct 10.17500	1^h05^m E	U.T. $4^h02^m - 4^h22^m$		"	" "	"	"	"	"	"	"	"	"	
6237	69RY	$23^h58.6^m$	$+16.8°$	U.T. Oct 10.19653	1^h18^m E	U.T. $4^h33^m - 4^h53^m$		"	" "	"	"	"	"	"	"	"	"	
6238	76 UHI	$23^h47.8^m$	$-16.7°$	U.T. Oct 10.22222	0^h27^m E	U.T. $5^h10^m - 5^h30^m$		"	" "	"	"	"	"	"	"	"	"	
6239	76 UHI	$23^h47.8^m$	$-16.7°$	U.T. Oct 10.25208	0^h13^m W	U.T. $5^h53^m - 6^h13^m$		"	" "	"	"	"	"	"	"	"	"	
6240	197	$3^h57.0^m$	$+12°40'$	U.T. Oct 10.27951	3^h23^m E	U.T. $6^h40^m - 6^h45^m$		"	" "	"	"	"	"	"	"	"	"	
6241	2145	$23^h06.4^m$	$+15.3°$	U.T. Oct 29.08472	1^h52^m E	U.T. $1^h52^m - 2^h12^m$		"	" "	"	"	"	"	"	4	2	"	
6242	"	"	"	U.T. Oct 29.12153	1^h00^m E	U.T. $2^h45^m - 3^h05^m$		"	" "	"	"	"	"	"	"	"	"	
6243	1627	$3^h18.3$	$-2.4°$	U.T. Oct 29.18750	3^h55^m E	U.T. $4^h25^m - 4^h35^m$		"	" "	"	"	"	"	"	"	"	"	
6244	"	"	"	U.T. Oct 29.21319	3^h04^m E	U.T. $5^h02^m - 5^h12^m$		"	" "	"	"	"	"	"	"	"	"	
6245	197	$3^h45.5^m$	$+12.4°$	U.T. Oct 29.22882	3^h11^m E	U.T. $5^h27^m - 5^h32^m$		"	" "	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1980	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST.	Plate Type SIZE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WTING	SEEING trans.	SEEING stead	OBSV	REMARKS
6246	P/STEPHAN-OTERMA	$5^h15.0^m$	$+7.^\circ2$	U.T. NOV 02.24618	4^h00^mE	U.T. 5^h52^m-5^h57^m	WWV	13"	4x5 103aO	W	D19	5 min	68°	N	4	3	BAS	
6247	197	$3^h43.2^m$	$+12.^\circ2$	U.T. NOV 2.26215	2^h05^mE	U.T. 6^h15^m-6^h20^m	"	"	" "	"	"	"	"	"	"	4	"	
6248	534	$5^h39.3^m$	$+21.^\circ5$	U.T. NOV. 02.27535	3^h43^mE	U.T. 6^h34-6^h39^m	"	"	" "	"	"	"	"	"	"	3	"	
6249	65 QC	$3^h47.3^m$	$-4.^\circ8$	U.T. NOV 02.29514	1^h17^mE	U.T. 6^h55^m-7^h15^m	"	"	" "	"	"	"	"	"	"	4	"	Poor guiding in α
6250	"	"	"	U.T. NOV 02.32292	0^h33^mE	U.T. 7^h35^m-7^h55^m	"	"	" "	"	"	"	"	"	"	"	"	
6251	A Region in the Sky	12^h45^m	$+35^\circ00'$	Nov 2/3	5^h12^mE	5:06:00-5:10:00 AM, MST. Nov3	"	13"	4X5 103aO	W	D19	5 min	68	N	Good	3	Hbicke	#9 at 860 ~ 159 Drive PA 122
6252	"	"	"	"	4^h58^mE	5:29:00-5:31:00	"	"	"	"	"	"	"	"	"	"	"	"
6253	C/Encke	13^h03^m	$+29^\circ0'$	Nov 3/4	5^h56^mE	4:31:00-4:42:00 AM-MST. Nov 4	"	"	"	"	"	"	"	"	"	2	"	Drive PA 124° #9 at 790 ~ 162
6254	"	"	"	"	5^h36^mE	5:04:00-5:05:00	"	"	"	"	"	"	"	"	"	"	"	Direct ptg.
6255	"	"	"	"	5^h06^mE	5:13:00-5:14:00	"	"	"	"	"	"	"	"	"	"	"	Drive PA 124° #9 at 790 ~ 162
6256	78 GD	$0^h46.0^m$	$-1.^\circ2$	U.T. NOV 06.09236	2^h50^mE	U.T. 2^h03^m-2^h33^m	"	"	" "	"	"	"	"	"	4	4	BAS	
6257	7405	$0^h45.0^m$	$+19.^\circ5$	U.T. NOV 06.11319	2^h19^mE	U.T. 2^h33^m-2^h53^m	"	"	" "	"	"	"	"	"	"	"	"	
6258	78 GD	$0^h46.0^m$	$-1.^\circ2$	U.T. NOV 06.13333	1^h51^mE	U.T. 3^h02^m-3^h22^m	"	"	" "	"	"	"	"	"	"	"	"	
6259	74 OS	$0^h45.0^m$	$+19.^\circ5$	U.T. NOV 06.15417	1^h20^mE	U.T. 3^h32^m-3^h52^m	"	"	" "	"	"	"	"	"	"	"	"	
6260	7631 P-L 79 KB	$1^h22.3^m$	$+3.^\circ7$	U.T. NOV 06.18472	1^h08^mE	U.T. 4^h16^m-4^h36^m	"	"	" "	"	"	"	"	"	"	"	"	
6261	197	$3^h38.0^m$	$+12.^\circ0$	U.T. NOV 06.20313	3^h12^mE	U.T. 4^h50^m-4^h55^m	"	"	" "	"	"	"	"	"	"	"	"	
6262	7631 P-L 79 KB	$1^h21.9^m$	$+3.^\circ7$	U.T. NOV 06.22153	0^h15^mE	U.T. 5^h09^m-5^h29^m	"	"	" "	"	"	"	"	"	"	"	"	
6263	MEIER 6E	$18^h06.0^m$	$+42.^\circ0$	U.T. NOV 06.23785	Large	U.T. 5^h40^m-5^h45^m	"	"	" "	"	"	"	"	"	2	1	HKG	in trees at end
6264	P/stephan-OTERMA	$5^h18.8^m$	$+8.^\circ3$	U.T. NOV 06.25451	3^h32^mE	U.T. 6^h04^m-6^h09^m	"	"	" "	"	"	"	"	"	4	3	BAS	
6265	534	$5^h38.1^m$	$+21.^\circ3$	U.T. NOV 06.26563	3^h40^mE	U.T. 6^h20^m-6^h25^m	"	"	" "	"	"	"	"	"	"	"	"	
6266	1862	$17^h45.1^m$	$-14.^\circ8$	U.T. NOV 08.07778	3^h58^mW	U.T. 1^h42^m-2^h02^m	"	"	" "	"	"	"	"	"	"	"	EHGB + BAS	
6267	C/MEIER 6E	$18^h03.1^m$	$+40.^\circ6$	U.T. NOV 08.10278	4^h28^mW	U.T. 2^h23^m-2^h33^m	"	"	" "	"	"	"	"	"	"	4	"	out of focus
6268	76 SC	$0^h53.6^m$	$+15.^\circ7$	U.T. NOV 08.13264	1^h52^mE	U.T. 3^h01^m-3^h21^m	"	"	" "	"	"	"	"	"	"	"	"	
6269	76 GV2 76 JQ2	$1^h57.6^m$	$+6.^\circ2$	U.T. NOV 08.15139	2^h29^mE	U.T. 3^h28^m-3^h48^m	"	"	" "	"	"	"	"	"	"	"	"	
6270	76 SC	$0^h53.6^m$	$+15.^\circ7$	U.T. NOV 08.17083	0^h57^mE	U.T. 3^h56^m-4^h16^m	"	"	" "	"	"	"	"	"	"	"	"	
6271	76 GV2 76 JQ2	$1^h57.6^m$	$+6.^\circ2$	U.T. NOV 08.18889	1^h35^mE	U.T. 4^h22^m-4^h42^m	"	"	" "	"	"	"	"	"	"	"	"	
6272	1865	$2^h34.5^m$	$-0.^\circ6$	U.T. NOV 08.20486	1^h51^mE	U.T. 4^h48^m-5^h02^m	"	"	" "	"	"	"	"	"	"	"	"	
6273	69 TQ4 40 GH	$2^h49.8^m$	$+10.^\circ0$	U.T. NOV 08.22014	1^h41^mE	U.T. 5^h07^m-5^h27^m	"	"	8x10 III aJ	"	"	"	"	"	"	"	"	
								"	4x5 103a-O	"	"	"	"	"	"	"	"	
								"	8x10 III aJ	"	"	"	"	"	"	"	"	
								"	4x5 103a-O	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1980	H.A. END	EXPOSURE
6274	197	$3^h34.3^m$	$+12.^\circ1$	NOV 8.xx 23403	$2^h13^m E$	U.T. $5^h33^m - 5^h41^m$
6275	69TQ4 40GH	$2^h49.8^m$	$+10.^\circ0$	U.T. NOV 08.24792	$1^h03^m E$	U.T. $5^h47^m - 6^h07^m$
6276	534	$5^h35.7^m$	$+21.^\circ4$	U.T. NOV 08.26111	$3^h35^m E$	U.T. $6^h13^m - 6^h19^m$
6277	C/MEIER ∈	$18^h02.4^m$	$+40.^\circ3$	U.T. NOV 09.15347	$5^h28^m W$	U.T. $3^h36^m - 3^h46^m$
6278	78 GD, S7	$0^h47.5^m$	$-0.^\circ2$	U.T. NOV 09.16742	$0^h52^m E$	U.T. $3^h51^m - 4^h11^m10^s$
6279	74VK, 39 PM	$1^h26.4^m$	$+13.^\circ9$	U.T. NOV 09.18472	$1^h06^m E$	U.T. $4^h16^m - 4^h36^m$
6280	78GD, S7	$0^h47.5^m$	$-0.^\circ2$	U.T. NOV 09.20139	$0^h03^m E$	U.T. $4^h40^m - 5^h00^m$
6281	74VK, 39 PM	$1^h26.4^m$	$+13.^\circ9$	U.T. NOV 09.21806	$0^h18^m E$	U.T. $5^h04^m - 5^h24^m$
6282	76TA, 1715	$2^h00.1^m$	$+12.^\circ7$	U.T. NOV 09.23611	$0^h25^m E$	U.T. $5^h30^m - 5^h50^m$
6283	79 KA	$3^h11.2^m$	$+3.^\circ7$	U.T. NOV 09.25347	$1^h11^m E$	U.T. $5^h55^m - 6^h15^m$
6284	76TA, 1715	$2^h00.1^m$	$+12.^\circ7$	U.T. NOV 09.27014	$0^h24^m W$	U.T. $6^h19^m - 6^h39^m$
6285	79 KA	$3^h11.2^m$	$+3.^\circ7$	U.T. NOV 09.28750	$0^h22^m E$	U.T. $6^h44^m - 7^h04^m$
6286	197	$3^h34.3^m$	$+12.^\circ1$	U.T. NOV 09.30000	$0^h34^m E$	U.T. $7^h09^m - 7^h15^m$
6287	75 UD	$3^h52.6^m$	$+24.^\circ2$	U.T. NOV 09.31250	$0^h27^m E$	U.T. $7^h20^m - 7^h40^m$
6288	70 OG	$4^h26.3^m$	$-5.^\circ2$	U.T. NOV 09.32986	$0^h37^m E$	U.T. $7^h45^m - 8^h05^m$
6289	75 UD	$3^h52.6^m$	$+24.^\circ2$	U.T. NOV 09.34722	$0^h24^m W$	U.T. $8^h10^m - 8^h30^m$
6290	70 OG	$4^h26.3^m$	$-5.^\circ2$	U.T. NOV 09.36389	$0^h13^m W$	U.T. $8^h34^m - 8^h54^m$
6291	534	$5^h35.8^m$	$+21.^\circ3$	U.T. NOV 09.37708	$0^h43^m E$	U.T. $8^h59^m - 9^h07^m$
6292	1862	$18^h58.3^m$	$-5.^\circ8$	U.T. NOV 11.07431	$2^h45^m W$	U.T. $1^h42^m - 1^h52^m$
6293	"	"	"	U.T. NOV 11.08681	$3^h03^m W$	U.T. $2^h00^m - 2^h10^m$
6294	∈ MEIER	$18^h02.0^m$	$+39.^\circ0$	U.T. NOV 11.11667	$4^h42^m W$	U.T. $2^h43^m - 2^h53^m$
6295	1978 GD, S7	$0^h47.0^m$	$-0.^\circ3$	U.T. NOV 11.13750	$1^h30^m E$	U.T. $3^h08^m - 3^h28^m$
6296	"	"	"	U.T. NOV 11.20764	$0^h17^m W$	U.T. $4^h49^m - 5^h09^m$
6297	B 77	$0^h52.7^m$	$+15.^\circ5$	U.T. NOV 11.23056	$0^h44^m W$	U.T. $5^h22^m - 5^h42^m$
6298	78 GD, S7	$0^h47.0^m$	$-0.^\circ3$	U.T. NOV 11.25347	$1^h21^m W$	U.T. $5^h55^m - 6^h15^m$
6299	B 77	$0^h52.7^m$	$+15.^\circ5$	U.T. NOV 11.27639	$1^h50^m W$	U.T. $6^h28^m - 6^h48^m$
6300	1865	$2^h24.0^m$	$-5.^\circ0$	U.T. NOV 11.29931	$0^h09^m W$	U.T. $7^h06^m - 7^h16^m$
6301	1862	$19^h31.4^m$	$+0.^\circ4$	U.T. NOV 12.09965	$2^h52^m W$	U.T. $2^h20^m - 2^h27^m$

INST	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITINGS	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
13"	4X5 103a-0	W	D19	5^m	68°	N	4	4	EhGB	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	4	3	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	4	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	4	5	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	First rate night
"	" "	"	"	"	"	"	"	4	"	
"	" "	"	"	"	"	"	"	3	"	
"	" "	"	"	"	"	"	"	"	BAS	(by Padden Bump) Finder misaligned
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	2	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	3	EhGB	
"	4X5 103aO	"	"	"	"	"				

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC	DATE 1980	H.A. END	EXPOSURE MST-AM-PM	W.E
6302	1862	$19^h31.4^m$	$+0.4^\circ$	U.T. NOV 12.10938	3^h06^m W	U.T. 2^h34^m-2^h41^m	
6303	& MEIER	$18^h00.4^m$	$+38.3^\circ$	U.T. NOV 12.11944	4^h52^m W	U.T. 2^h47^m-2^h57^m	
6304	1862	$20^h08.3^m$	$+4.5^\circ$	U.T. NOV 13.08194	1^h52^m W	U.T. 1^h56^m-2^h00^m	
6305	"	"	"	U.T. NOV 13.08958	2^h03^m W	U.T. 2^h07^m-2^h11^m	
6306	& MEIER	$18^h00.8^m$	$+38.0^\circ$	U.T. NOV 13.10625	4^h38^m W	U.T. 2^h28-2^h38^m	
6307	76TA, B92, B95, B96	$1^h58.2^m$	$+12.9^\circ$	U.T. NOV 13.12083	2^h55^m E	U.T. 2^h44^m-3^h04^m	
6308	" " " "	"	"	U.T. NOV 13.13750	2^h31^m E	U.T. 3^h08^m-3^h28^m	
6309	1862	$20^h45.2^m$	$+9.9^\circ$	U.T. NOV 14. .11354 .11597.11083 11890	2^h14^m W	U.T. 2^h39-2^h41 2^h42-2^h45^m 2^h49-2^h52 2^h46-2^h48 2^h55-2^h55	
6310	76TA, B95, B96	$1^h57.0^m$	$+13.1^\circ$	U.T. NOV 14.22778	0^h13^m E	U.T. 5^h18^m-5^h38^m	
6311	76 GU2	$1^h49.0^m$	$+7.9^\circ$	U.T. NOV 14.24861	0^h23^m W	U.T. 5^h48^m-6^h08^m	
6312	76TA, B95, B96	$1^h57.0^m$	$+13.1^\circ$	U.T. NOV 14.26806	0^h45^m W	U.T. 6^h16^m-6^h36^m	
6313	76 GU2	$1^h49.0^m$	$+7.9^\circ$	U.T. NOV 14.28750	1^h19^m W	U.T. 6^h44^m-7^h04^m	
6314	197	$3^h30.4^m$	$+12.0^\circ$	U.T. NOV 14.30347	0^h07^m E	U.T. 7^h14^m-7^h20^m	
6315	534	$5^h34.0^m$	$+22.3^\circ$	U.T. NOV 14.31389	1^h54^m E	U.T. 7^h28^m-7^h36^m	
6316	& MEIER	$17^h57.3^m$	$+36.1^\circ$	U.T. NOV 17.11806	5^h14^m W	U.T. 2^h45^m-2^h55^m	
6317	1862	$22^h39.7^m$	$+22.2^\circ$	UT. NOV 17. .12500 12743 13056	0^h46^m W	U.T. 2^h59^m-3^h01^m 3^h02-3^h05^m 3^h06-3^h10^m	
6318	P/TUTTLE	$10^h25.0^m$	$+21.0^\circ$	U.T. NOV 17.49479	2^h13^m E	U.T. 11^h50^m-11^h55^m	
6319	& Bowell	$12^h06.0^m$	$+1.0^\circ$	U.T. NOV 17.50764	3^h33^m E	U.T. 12^h06^m-12^h16^m	
6320	& MEIER	$17^h57.3^m$	$+35.1^\circ$	U.T. NOV 19.09201	4^h43^m W	U.T. 2^h09^m-2^h16^m	
6321	1862	$23^h33.8^m$	$+26.1^\circ$	U.T. NOV 19. 09931 10278	0^h39^m E	U.T. 2^h21^m-2^h25^m 2^h26^m-2^h30^m	
6322	B77, 58	$0^h44.7^m$	$+15.5^\circ$	U.T. NOV 29.12014	0^h38^m E	U.T. 2^h43-3^h03^m	
6323	1862	$1^h32.9^m$	$+29.4^\circ$	UT. NOV 29. 13125 13611 14097	1^h03^m E	UT. 3^h06-3^h12 3^h13-3^h19 3^h20-3^h26	
6324	B77, 58	$0^h44.7^m$	$+15.5^\circ$	U.T. NOV 29.15278	0^h09^m W	U.T. 3^h30^m-3^h50^m	
6325	B95, B96	$1^h46.7^m$	$+14.2^\circ$	U.T. NOV 29.16944	0^h29^m E	U.T. 3^h54^m-4^h14^m	
6326	49SA1, B87, B93, B94	$2^h32.0^m$	$+9.1^\circ$	U.T. NOV 29.18681	0^h49^m E	U.T. 4^h19^m-4^h39^m	
6327	B95, B96	$1^h46.7^m$	$+14.2^\circ$	U.T. NOV 29.20347	0^h20^m W	U.T. 4^h43^m-5^h03^m	
6328	49SA1, B87, B93, B94	$2^h32.0^m$	$+9.1^\circ$	U.T. NOV 29.22083	0^h00^m	U.T. 5^h08^m-5^h28^m	

INST.	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING trans.	SEEING STEAD	OBSV.	REMARKS
13"	4x5 103aO	W	D19	5M	68°	N	4	3	ELGB	
"	" "	"	"	"	"	"	"	"	"	Clouds encroaching from West.
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	Moon still up windy
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	4	BAS	
"	" "	"	"	"	"	"	"	4	BAS	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	3	ELGB	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	2	NGT	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	3	ELGB	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	5	4	"	
"	8x10 "	"	"	"	"	"	"	"	"	
"	4x5 "	"	"	"	"	"	"	"	"	
"	8x10 "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1980	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST	PLATE SIZE	PLATE TYPE	telescope POSITION	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WEITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
6329	B 98	$2^h 48.4^m$	$+3.8°$	U.T. NOV 29.23750	$0^h 07^m W$	U.T. $5^h 32 - 5^h 52^m$	"	"	8X10	103a0	W	D19	5^{MIN}	68	N	5	4	ELGB	
6330	197	$3^h 16.3^m$	$+12.0°$	U.T. NOV 29.24931	$0^h 11^m E$	U.T. $5^h 56^m - 6^h 02^m$	"	"	4X5	"	"	"	"	"	"	"	"	"	
6331	B 98	$2^h 48.4^m$	$+3.8°$	U.T. NOV 29.26389	$0^h 45^m W$	U.T. $6^h 10^m - 6^h 36^m$	"	"	8X10	"	"	"	"	"	"	"	"	"	
6332	S8, B77, (B102), B103	$0^h 47.8^m$	$+15.4°$	U.T. DEC 04.13681	$0^h 02^m W$	U.T. $3^h 07^m - 3^h 27^m$	"	"	"	"	"	"	"	"	"	2	"	"	Traces of cirrus
6333	(B92), B95, B96, B104	$1^h 45.3^m$	$+14.7°$	U.T. DEC 04.15347	$0^h 31^m E$	U.T. $3^h 31^m - 3^h 51^m$	"	"	"	"	"	"	"	"	"	"	"	"	some wind. Cloud in NE and S.
6334	S8, B77(B102), B103	$0^h 47.8^m$	$+15.4°$	U.T. DEC 04.17188	$0^h 55^m W$	U.T. $3^h 55^m - 4^h 20^m$	"	"	"	"	"	"	"	"	"	1	4	"	Cirrus in field
6335	(B92), B95, B96, B104	$1^h 45.3^m$	$+14.7°$	U.T. DEC 04.19653	$0^h 36^m W$	U.T. $4^h 28^m - 4^h 58^m$	"	"	"	"	"	"	"	"	"	1	3	"	" "
6336	B87, (B93), B94, B105, B106	$2^h 26.5^m$	$+10.4°$	U.T. DEC 04.21806	$0^h 20^m W$	U.T. $5^h 04 - 5^h 24^m$	"	"	"	"	"	"	"	"	"	2	"	"	
6337	B97, B98, B107, B108, B109	$2^h 44.6^m$	$+3.4°$	U.T. DEC 04.23542	$0^h 27^m W$	U.T. $5^h 29^m - 5^h 49^m$	"	"	"	"	"	"	"	"	"	3	"	"	Becoming windy
6338	B87, (B93), B94, B105, B106	$2^h 26.5^m$	$+10.4°$	U.T. DEC 04.25208	$1^h 08^m W$	U.T. $5^h 53^m - 6^h 13^m$	"	"	"	"	"	"	"	"	"	"	"	"	
6339	B97, B98, B107, B108, B109	$2^h 44.6^m$	$+3.4°$	U.T. DEC 04.26947	$1^h 16^m W$	U.T. $6^h 19^m - 6^h 37^m 05^s$	"	"	"	"	"	"	"	"	"	"	"	"	Drive stopped at end of exposure
6340	197	$3^h 13.8^m$	$+12.9°$	UT. DEC 04. 28125 28472 28819	$1^h 05^m W$	UT. $6^h 43 - 6^h 47^m$ $6^h 48 - 6^h 52$ $6^h 53 - 6^h 57$	"	"	4X5	"	"	"	"	"	"	"	"	"	3exposures, unguided
6341	79 QE	$5^h 43.5^m$	$+28.8°$	UT. DEC 04.30069	$0^h 58^m E$	U.T. $7^h 03 - 7^h 23$	"	"	"	"	"	"	"	"	"	"	"	"	
6342	534	$5^h 19.1^m$	$+22.6°$	U.T DEC 04.31250	$0^h 23^m E$	U.T. $7^h 27^m - 7^h 33^m$	"	"	"	"	"	"	"	"	"	"	"	"	Unguided
6343	79 QE	$5^h 43.5^m$	$+28.8°$	U.T. DEC 04.32500	$0^h 23^m E$	U.T. $7^h 38^m - 7^h 58^m$	"	"	"	"	"	"	"	"	"	"	"	"	
6344	B 8	$8^h 42.1^m$	$+25.6°$	U.T. DEC 04.34722	$2^h 45^m E$	U.T. $8^h 05^m - 8^h 35^m$	"	"	8X10	"	"	"	"	"	"	"	2	"	Cirrus NEARby
6345	79 UJ	$8^h 40.8^m$	$-0.2°$	U.T. DEC 04.37222	$2^h 04^m E$	U.T. $8^h 41^m - 9^h 11^m$	"	"	"	"	"	"	"	"	"	"	"	"	
6346	B 8	$8^h 42.1^m$	$+25.6°$	U.T. DEC 04.39653	$1^h 33^m E$	U.T. $9^h 16^m - 9^h 46^m$	"	"	"	"	"	"	"	"	"	4	3	"	
6347	79 UJ	$8^h 40.8^m$	$-0.2°$	UT. DEC 04.42083	$0^h 57^m E$	U.T. $9^h 51^m - 10^h 21^m$	"	"	"	"	"	"	"	"	"	"	"	"	
6348	76 JQ2	$1^h 45.3$	$+3.8°$	U.T. DEC 10.07708	$1^h 57^m E$	U.T. $1^h 41^m - 2^h 01^m$	"	"	"	"	"	"	"	"	"	4	4	BAS	
6349	B95, B96, B104	$1^h 41.7^m$	$+14.5°$	U.T. DEC 10.09931	$1^h 21^m E$	U.T. $2^h 13^m - 2^h 33^m$	"	"	"	"	"	"	"	"	"	"	"	"	
6350	76 TQ2	$1^h 45.3^m$	$+3.8°$	U.T. DEC. 10.12153	$0^h 53^m E$	U.T. $2^h 45^m - 3^h 05^m$			"	"	"	"	"	"	"	"	"	"	
6351	B95, B96, B104	$1^h 41.7^m$	$+14.5°$	U.T. DEC 10.14306	$0^h 18^m E$	U.T. $3^h 16^m - 3^h 36^m$			"	"	"	"	"	"	"	"	"	"	
6352	36 EA	$2^h 47.0^m$	$+18.2°$	U.T. DEC 10.21806	$0^h 24^m W$	U.T. $5^h 04^m - 5^h 24^m$			"	"	"	"	"	"	"	"	"	"	
6353	700G	$4^h 00.5^m$	$-4.8°$	U.T. DEC 10.24097	$0^h 11^m E$	U.T. $5^h 37^m - 5^h 57^m$			"	"	"	"	"	"	"	"	"	"	
6354	36 EA	$2^h 47.0^m$	$+18.2°$	U.T. DEC. 10.26458	$1^h 37^m W$	U.T. $6^h 11^m - 6^h 31^m$			"	"	"	"	"	"	"	"	"	"	
6355	706A	$4^h 00.5^m$	$-4.8°$	U.T. DEC. 10.28611	$0^h 54^m W$	U.T. $6^h 42^m - 7^h 02^m$			"	"	"	"	"	"	"	"	"	"	
6356	80 WF	$4^h 46^m$	$+4°00'$	UT Dec 12.20837	$1^h 42^m E$	4:50:00 - 5:10:00			8X8	"	"	"	"	"	Fair To Poor	2	1½ Circles		Drive PA 130° #8@500 ~37 Clouds.

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1980	H.A. END	EXPOSURE MST-AM-PM	W.E
6357	B 8	$8^h43.0^m$	$+26.0^\circ$	U.T. DEC 12.40992	0^h41^m E	U.T. $9^h35^m - 10^h05^m$	"
6358	79 UJ	8^h42^m	$+0.5^\circ$	U.T. DEC 12.43889	0^h02^m E	U.T. $10^h20^m - 10^h44^m$	"
6359	B 8	8^h43^m	$+26.0^\circ$	U.T. DEC 12.46944	0^h43^m W	U.T. $11^h01^m - 11^h31^m$	"
6360	80 WF	$4^h59.1^m$	$+0.9^\circ$	U.T. DEC. 15.21319	1^h35^m E	U.T. $4^h57^m - 5^h17^m$	"
6361	"	"	"	U.T. DEC 15.23333	1^h06^m E	U.T. $5^h26^m - 5^h46^m$	
6362	80 XB	$5^h22.4$	$+38.5^\circ$	U.T. DEC 6.32431	0^h47^m W	U.T. $7^h37^m - 7^h57^m$	
6363	80 XB	"	"	U.T. DEC. 16.34375	1^h14^m W	U.T. $8^h05^m - 8^h25^m$	
6364	79 UJ	$8^h37.9^m$	-1.1°	U.T. DEC 16.36563	1^h25^m E	U.T. $8^h36^m - 8^h57^m$	
6365	65 (80/81) #1	$9^h27.7^m$	$+12.5^\circ$	U.T. DEC. 16.39236	1^h33^m E	U.T. $9^h10^m - 9^h40^m$	
6366	79 UJ	$8^h37.9^m$	-1.1°	U.T. DEC 16.41806	0^h11^m E	U.T. $9^h52^m - 10^h12^m$	
6367	65 (80/81) #1	$9^h27.7^m$	$+12.5^\circ$	U.T. DEC. 16.44379	0^h19^m E	U.T. $10^h24^m - 10^h54^m$	
6368	B 96, B 104	$1^h49.9^m$	$+14.2^\circ$	U.T. DEC. 30.07847	0^h42^m E	U.T. $1^h43^m - 2^h03^m$	
6369	B 98, 1627	$2^h35.9^m$	$+3.4^\circ$	U.T. DEC 30.10000	0^h52^m E	U.T. $2^h09^m - 2^h39^m$	
6370	B 96, B 104	$1^h49.9^m$	$+14.2^\circ$	U.T. DEC 30.12153	0^h20^m W	U.T. $2^h45^m - 3^h05^m$	
6371	B 98, 1627	$2^h35.9^m$	$+3.4^\circ$	U.T. DEC 30.14236	0^h09^m W	U.T. $3^h10^m - 3^h40^m$	
6372	197	$2^h58.8^m$	$+13.1^\circ$	DEC 16042 30.16589 30.17014	0^h16^m W	$3^h49 - 3^h54^m$ $3^h53 - 3^h58$ $4^h03 - 4^h08$ $4^h07 - 4^h12^m$	
6373	534	$4^h53.2^m$	$+21.7^\circ$	DEC (17361 SA 18125 18472	1^h05^m E	$4^h19^m - 4^h24^m$ $4^h23 - 4^h28$ $4^h38 - 4^h39$ $4^h37^m - 4^h43$	
6374	80 XB	$5^h01.1^m$	$+45.9^\circ$	U.T. (19097 19514) DEC 30.20278	0^h59^m E	U.T. $4^h47^m - 4^h57^m$	
6375	80 XB	"	"	U.T. DEC 30.21319	0^h44^m E	U.T. $5^h02^m - 5^h12^m$	
6376	36 TK, 685 B	$6^h11.5^m$	$+27.8^\circ$	U.T. DEC 30.22639	1^h30^m E	U.T. $5^h16^m - 5^h36^m$	
6377	1867	$6^h41.2^m$	$+25.2^\circ$	U.T. DEC 30.24375	1^h34^m E	U.T. $5^h41^m - 6^h01^m$	
6378	36 TK, 685 B	$6^h11.5^m$	$+27.8^\circ$	U.T. DEC 30.26042	0^h41^m E	U.T. $6^h05^m - 6^h25^m$	
6379	1867	$6^h41.2^m$	$+25.2^\circ$	U.T. DEC 30.27708	0^h46^m E	U.T. $6^h29^m - 6^h49^m$	
6380	B 8, B 118, B 119, T 2	$8^h32.1^m$	$+26.8^\circ$	U.T. DEC 30.29444	2^h12^m E	U.T. $6^h54^m - 7^h14^m$	
6381	"	"	"	U.T. DEC 30.31111	1^h48^m E	U.T. $7^h18^m - 7^h38^m$	
6382	C/ PANTHER	$18^h49.2^m$	$+39.6^\circ$	U.T DEC 31.06597	5^h59^m W	U.T. $1^h30^m - 1^h40^m$	
6383	"	"	"	U.T. DEC 31.07500	6^h12^m W	U.T. $1^h43^m - 1^h53^m$	
6384	43 EP	$3^h29.3^m$	$+29.6^\circ$	U.T. DEC 31.09028	2^h01^m E	U.T. $2^h00^m - 2^h20^m$	

INST	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WAITING	SEEING TRANS.	SEEING STEAD	OBSV	REMARKS
"	8x10	103a0	W	D19	5 MIN.	68°	N	2	2	NGT	Fog at end
"	"	"	"	"	"	"	"	3	"	"	"
"	"	"	"	"	"	"	"	"	"	"	
"	8x8	103a0	"	"	"	"	"	4	"	ELGB	Humid night
"	8x8	103a0	"	"	"	"	"	"	"	"	
"	8x10	"	"	"	"	"	"	"	"	BAS	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	Bad bump in d 2/3 the way through
"	"	"	"	"	"	"	"	3	ELGB		
"	4x5	"	"	"	"	"	"	"	2	"	
"	8x10	"	"	"	"	"	"	"	3	"	
"	4x5	"	"	"	"	"	"	"	2	"	
"	8x10	"	"	"	"	"	"	"	3	"	
"	"	"	"	"	"	"	"	"	4	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	4	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	Cruel east wind
"	5x7	IIa-0	"	"	"	"	"	5	2	"	Objective cover not properly open.
"	"	"	"	"	"	"	"	"	"	"	
"	8x10	103a0	"	"	"	"	"	"	4	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 80/81	H.A. END	EXPOSURE MST-AM-PM	W.E
6385	74 QE1	$3^h46.9^m$	+42°3	U.T. DEC 31.10764	1^h53^m E	U.T. 2^h25^m - 2^h45^m	–
6386	43 EP	$3^h29.3^m$	+29°6	U.T. DEC 31.12431	1^h11^m E	U.T. 2^h49^m - 3^h09^m	–
6387	74 QE1	$3^h46.9^m$	+42°3	U.T. DEC 31.14097	1^h04^m E	U.T. 3^h13^m - 3^h33^m	–
6388	1600	$6^h02.6^m$	+50°3	U.T. DEC 31.16556	3^h06^m E	U.T. 3^h39^m - 3^h49^m	–
6389	〃	〃	〃	U.T. DEC 31.16458	2^h53^m E	U.T. 3^h52^m - 4^h02^m	–
6390	79 SP, B5	$7^h44.8^m$	+15°9	U.T. Jan 01.28056	1^h38^m E	U.T. 6^h34 - 6^h54^m	–
6391	P1 LOVAS	$8^h54.0^m$	+33°2	U.T. JAN 01.29722	2^h22^m E	U.T. 6^h58^m - 7^h18^m	–
6392	79 SP, B5	$7^h44.8^m$	+15°9	U.T. JAN 01.31458	0^h48^m E	U.T. 7^h23^m - 7^h	–
6393	P1 LOVAS	$8^h54.0^m$	+33°2	U.T. JAN 01.33125	1^h33^m E	U.T. 7^h47^m - 8^h07^m	–
6394	77 TJ3	$7^h32.8^m$	-17°3	U.T. JAN 01.34861	0^h13^m W	U.T. 8^h12^m - 8^h32^m	–
6395	〃	〃	〃	U.T. JAN 01.36528	0^h37^m W	U.T. 8^h36^m - 8^h56^m	–
6396	B116, 75VD3, 76 GQ1, 78 RP	$9^h35.7^m$	+17°1	U.T. JAN. 01.38264	1^h00^m E	U.T. 9^h01^m - 9^h21^m	
6397	77 RB	$10^h22.6^m$	+42°9	U.T. JAN 01.40347	1^h12^m E	U.T. 9^h26^m - 9^h56^m	
6398	B116, 75VD3, 76 GQ1, 78 RP	$9^h35.7^m$	+17°1	U.T. JAN 01.42431	0^h00^m	U.T. 10^h01^m - 10^h21^m	
6399	77 RB	$10^h22.6^m$	+42°9	U.T. JAN 01.44514	0^h12^m E	U.T. 10^h26^m - 10^h56^m	–
6400	79 SF	$6^h28.7^m$	+34°8	U.T. JAN 03.26944	0^h20^m E	U.T. 6^h18^m - 6^h38^m	–
6401	79 SQ	$8^h20.3^m$	+20°1	U.T. JAN 3.28681	1^h56^m E	U.T. 6^h43^m - 7^h03^m	–
6402	79 SF	$6^h28.7^m$	+34°8	U.T. JAN 3.30347	0^h21^m W	U.T. 7^h07^m - 7^h27^m	–
6403	79 SQ	$8^h20.3^m$	+20°1	U.T. JAN 3.32014	1^h08^m E	U.T. 7^h31^m - 7^h51^m	–
6404	B115, 79 UJ	$8^h32.0^m$	+1°7	U.T. JAN 3.33750	0^h54^m E	U.T. 7^h56^m - 8^h16^m	
6405	B113.66PD, 79 UA1	$9^h16.2^m$	+10°9	U.T. JAN 03.35625	1^h11^m E	U.T. 8^h23^m - 8^h43^m	
6406	280	$11^h10.8^m$	+10°7	U.T. JAN 03.37708	2^h30^m E	U.T. 8^h48^m - 9^h18^m	
6407	B115, 79 UJ	$8^h32.0^m$	+1°7	U.T. JAN 3.39861	0^h34^m W	U.T. 9^h24^m - 9^h44^m	
6408	B113, 66PD, 79UA1	$9^h16.2^m$	+10°9	U.T. JAN. 3.41528	0^h14^m W	U.T. 9^h48^m - 10^h08^m	
6409	280	$11^h10.8^m$	+10°7	U.T. JAN 3.43681	1^h04^m E	U.T. 10^h14^m - 10^h44^m	
6410	~~280~~ L Tau	$4^h33.0^m$	+16.4	Ja=06 22396 22671 23227	0^h38^m E	UT 5^h20-5^h26 5^h25-5^h32 5^h32-5^h38 5^h32 $5^h39^m30^s$ 5^h52-5^h58, 5^h57-$5^h59^m30^s$ 6^h05-6^h11^m, 6^h10-$6^h12^m30^s$	
6411	1	$7^h40^m.1$	+30°1	JAN 06. 24618 24913 25521	1^h54^m E		
6412	1	$7^h39.5$	+30.3	JAN 22188 23604 23246	2^h32^m E	5^h17-5^h22, 5^h25-5^h28 5^h32-5^h37, 5^h38-5^h43	

INST	PLATE SIZE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
13"	8x10 103a-0	W	D19	5 MIN	68	N	5	4	EL6B	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	
〃	5x7 IIa-0	〃	〃	〃	〃	〃	〃	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	Beautiful night
〃	8x10 103a-0	〃	〃	〃	〃	〃	4	〃	〃	Cloud (Cirrus?) in South
〃	〃 〃	〃	〃	〃	〃	〃	3	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	Jog in & near start
〃	5x7 IIIa-0	〃	〃	〃	〃	〃	4	〃	〃	
〃	5x7 〃	〃	〃	〃	〃	〃	〃	〃	〃	
〃	8x10 103a-0	〃	〃	〃	〃	〃	〃	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	Cirrus still present. Moon up, 10^h25^m
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	5	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	4	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	5	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	Superb observing conditions. slight east wind.
〃	〃 〃	〃	〃	〃	〃	〃	〃	〃	〃	
〃	5x7 IIIa-F	W/N (E/S)	〃	〃	〃	〃	3	EL6B:	OGF	
〃	〃 〃	E/S (W/N)	〃	〃	〃	〃	〃	〃	〃	
〃	8X10 103aO									

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1981	H.A END	UT.
6412	1	$7^h39.5^m$	$+30°.3$ U.T	Jan 24826 08. 25293 23799 26215	$1^h55^m E$	5^h55^m-6^h00^m 6^h01-6^h06 6^h09-6^h14, 6^h15^m-6^h20
6414	1980t	$20^h23.0^m$	$-2°.0$ U.T.	Jan 09. 07049	$5^h10^m W$	U.T. 1^h41 - 1^h42
6415	B128, B129	$3^h29.0^m$	$+28°.0$	U.T. Jan. 09.10694	$1^h00^m E$	U.T. 2^h24^m-2^h44^m
6416	B136, B137	$6^h34.0^m$	$+24°.0$	U.T. Jan 09.12708	$3^h30^m E$	U.T. 2^h53^m-3^h13^m
6417	B128, B129	$3^h29.0^m$	$+28°.0$	U.T. JAN. 09.14514	$0^h05^m E$	U.T. 3^h19^m-3^h39^m
6418	B136, B137	$6^h34.0^m$	$+24°.0$	U.T. JAN 09.16528	$2^h40^m E$	U.T. 3^h48^m-4^h08^m
6419	B122. B124, 125, 126, 127	$7^h36.0^m$	$+16°.6$	U.T. JAN 09.18472	$3^h15^m E$	U.T. 4^h16^m-4^h36^m
6420	B136, B137	$6^h34.0^m$	$+24°.0$	U.T. JAN 09.20278	$1^h45^m E$	U.T. 4^h42^m-5^h02^m
6421	B122,124,125,126,127	$7^h36.0^m$	$+16°.6$	U.T. JAN 09.22222	$2^h20^m E$	U.T. 5^h10^m-5^h30^m
6422	B138,139,140,141, T2	$8^h31.6^m$	$+27°.0$	U.T. JAN 09.24340	$2^h45^m E$	U.T. 5^h40^m-6^h01^m
6423	" ——— "	"	"	U.T. JAN 09.27083	$2^h05^m E$	U.T. 6^h20^m-6^h40^m
6424	1	$7^h39.5$	$+30°.3$	U.T. Jan 10. 22813 .23229 23646 24201 24618 .25035	$2^h04^m E$	U.T. 5^h26-5^h31, 5^h32-5^h37 5^h38-5^h45^m, 5^h46-5^h51 5^h52-5^h57, 5^h58-6^h03
6425	B114, B119, 78RP	$9^h23.9^m$	$+16°.8$	U.T. Jan. 10. 27014	$2^h58^m E$	U.T. 6^h19^m-6^h39^m
6426	65(80/81) #2	$9^h48.2^m$	$+12°.1$	U.T. Jan 10.28889	$2^h53^m E$	U.T. 6^h46^m-7^h06^m
6427	B114, B119, 78RP	$9^h23.9^m$	16.8	U.T. JAN 10.30694	$2^h03^m E$	U.T. 7^h12^m-7^h32^m
6428	65(80/81) #2	$9^h48.2^m$	$+12°.1$	U.T. JAN 10.32431	$2^h03^m E$	U.T. 7^h37^m-7^h57^m
6429	B122, B124, B125	$7^h30.9^m$	$+21°.1$	U.T. JAN 14.28264	$0^h28^m E$	U.T. 6^h37^m-6^h57^m
6430	B143, B144, B145	$9^h46.0^m$	$+12°.6$	U.T. JAN. 14.30556	$2^h12^m E$	U.T. 7^h10^m-7^h30^m
6431	B122, B124, B125	$7^h30.9^m$	$+21°.1$	U.T. JAN 14.34375	$0^h59^m W$	U.T. 8^h05^m-8^h25^m
6432	B143, B144, B145	$9^h46.0^m$	$+12°.6$	U.T. JAN 14.36458	$0^h46^m E$	U.T. 8^h35^m-8^h55^m
6433	B 150	$7^h50.3^m$	$+28°.2$	U.T. JAN 19.28924	$0^h17^m E$	U.T. 6^h54^m-6^h59^m
6434	B 150	"	"	U.T. JAN 19.29965	$0^h02^m E$	U.T. 7^h09^m-7^h14^m
6435	T8, etc	$5^h41.0^m$	$+32°.0$	U.T. Jan 28.21667	$0^h43^m W$	U.T. 5^h02^m-5^h22
6436	T8, etc	"	"	U.T. JAN 28.23542	$1^h10^m W$	U.T. 5^h30^m-5^h48^m *
6437	B 150	$7^h38.5^m$	$+31°.6$	U.T. JAN 28.26910	$0^h02^m W$	U.T. 6^h18^m-6^h32 6^h34^m-6^h37 +
6438	B140, 149 etc	$7^h50.2^m$	$+20°.5$	U.T. JAN 30	$3^h40^m E$	U.T. 2^h4^h-3^h
6439	B122, 124 etc	$7^h15.0^m$	$+22°.8$	U.T. JAN 30.140972	$2^h32^m E$	U.T. 3^h13-3^h33^m

INST	PLATE SIZE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS	SEEING STEAD	OBSV	REMARKS
13"	8x10 103a-O	W	D19	65 MIN	68°	N	4	4	ELGB :06F	
"	4x5 103a-O	"	"	"	"	"	"	2	BAS	
"	8x10 103a-O	"	"	"	"	"	"	5	BAS	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	5	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	4	4	ELGB :06F	Exceptional night
"	" "	"	"	"	"	"	"	"	ELGB	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	Excellent night
"	" "	"	"	"	"	"	3	3	BAS	Moon
"	" "	"	"	"	"	"	"	"	"	"
"	" "	"	"	"	"	"	"	"	"	"
"	" "	"	"	"	"	"	4	"	"	Moonset ~ 8^h30^m
"	" "	"	"	"	"	"	"	"	ELGB	Strong Moon Light PLATE NBG Fogged
"	" "	"	"	"	"	"	2	4	"	Very thin cirrus. PLATE NBG fogged
"	" "	"	"	"	"	"	Good	3-4	NGT	
"	" "	"	"	"	"	"	Good*	3	"	* stopped by fog at end
										* interrupted by fog + " " cloud
"	8x10 103aO	"	"	"	"	"	4	3	BAS	
"	" "	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1981	H.A. END	EXPOSURE MST-AM-PM	W.E
6440	B140, 141 etc.	$7^h51.2^M$	+20.5°	U.T. JAN 30.160417	$2^h40^M E$	U.T. $3^h41^m - 4^h01^m$	-
6441	B122, 124 etc	$7^h15.0^M$	+22.8°	U.T. JAN 30.180556	$1^h35^M E$	U.T. $4^h10^m - 4^h30^m$	
6442	B150	$7^h35.8^M$	+32.2°	U.T. JAN 30.202778	$1^h23^m E$	U.T. $4^h42^m - 5^h02^m$	
6443	B146, 148	$8^h02.5^M$	+25.0°	U.T. JAN 30.222917	$1^h20^M E$	U.T. $5^h11^m - 5^h31^m$	
6444	B150	$7^h35.8^m$	+32.2°	U.T. JAN 30.242361	$21^M E$	U.T. $5^h39^m - 5^h59^m$	
6445	B146, 148	$8^h02.5^M$	+25.0°	U.T. JAN 30.261806	$25^M E$	U.T. $6^h07^m - 6^h27^m$	
6446	T9-12	$5^h33.0^M$	+25.0°	U.T. FEB 5.106250	$1^h18^M E$	U.T. $2^h23^m - 2^h43^m$	
6447	T4, T8	$5^h50.0^M$	+34.0°	U.T. FEB 5.126389	$1^h06^M E$	U.T. $2^h52^M - 3^h12^m$	
6448	T9-12	$5^h33.0^M$	+25.0°	U.T. FEB 5.126389	$20^M E$	U.T. $3^h21^m - 3^h41^m$	
6449	T4, T8	$5^h50.0^M$	+34.0°	U.T. FEB 5.165972	$09^M E$	U.T. $3^h49^m - 4^h09^m$	
6450	T13	$8^h38.2^M$	+03.0°	U.T. Feb 5.186806	$2^h26^M E$	U.T. $4^h19^m - 4^h39^m$	
6451	T16-18	$8^h51.6^M$	+14.9°	U.T. FEB 5.207639	$2^h11^M E$	U.T. $4^h49^m - 5^h09^m$	
6452	T13	$8^h38.2^M$	+03.0°	U.T. FEB 5.227083	$1^h28^M E$	U.T. $5^h17^m - 5^h37^m$	
6453	T16-18	$8^h51.6^M$	+14.9°	U.T. FEB 5.247917	$1^h22^M E$	U.T. $5^h47^m - 6^h07^m$	
6454	T4, T6, T26	5^h36	+30°	U.T. FEB 6.178472	$0^h26^M W$	U.T. $4^h07 - 4^h27^m$	
6455	T8, T24	6^h13	+34°	U.T. FEB 6.200694	$0^h21^m W$	U.T. $4^h39^m - 4^h59^m$	
6456	T4, T6, T26	5^h36^M	+30°	U.T. FEB 6.222917	$1^h30^M W$	U.T. $5^h11^m - 5^h31^m$	
6457	T8, T24	6^h13^m	+34°	U.T. FEB 6.245833	$1^h26^m W$	U.T. $5^h44^m - 6^h04^m$	
6458	Occ. Trak	10^h40^M	+17°	U.T. FEB 6.273611	$2^h21^M E$	U.T. $6^h24^m - 6^h44^M$	
6459	Occ. trak	"	"	U.T. FEB 6.293750	$1^h57^m E$	U.T. $6^h53^m - 7^h13$	
6460	T20, 21, 23	8^h52^m	+17°	U.T. FEB 8.180556	$2^h39^M E$	U.T. $4^h10^m - 4^h30^M$	
6461	T19, 22	9^h16^m	+21°	U.T. FEB 8.202778	$2^h32^M E$	U.T. $4^h42^m - 5^h02$	
6462	T20, 21, 23	8^h52^m	+17°	U.T. FEB 8.224306	$1^h37^m E$	U.T. $5^h13^m - 5^h33^m$	
6463	T19, 22	9^h16^m	+21°	U.T. FEB 8.244444	$1^h32^m E$	U.T. $5^h42^m - 6^h02^m$	
6464	1915	$8^h51.8^M$	-24.0°	U.T. FEB 23.20451	$1^h08^M E$	U.T. $4^h47^m - 5^h02^m$	
6465	1915	"	"	U.T. FEB 23.22188	$0^h43^M E$	U.T. $5^h12^m - 5^h27^m$	
6466	B150 (A)	$7^h02.0^M$	+38.9°	U.T. FEB 26.11111	$1^h19^M E$	U.T. $2^h30^M - 2^h50^M$	
6467	B150 (B)	$7^h34.4^M$	+38.9	U.T. FEB 26.12986	$1^h22^M E$	U.T. $2^h57^m - 3^h17^m$	

INST.	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
13"	8x10	103a0	W	D19	5 Min	68°	N	4	3	BAS	
"	"	"	"	"	"	"	"	"	"	"	
"	4x5	"	"	"	"	"	"	"	"	"	2 Gem near center
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	Forest howling from very strong wind
"	"	"	"	"	"	"	"	"	2	"	
"	8x10	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	3	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	4x5	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	3	2	BAS	
"	8x10	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	Good	4	NGT	
"	"	"	"	"	"	"	"	"	4+	"	
"	"	"	"	"	"	"	"	"	4-3	"	
"	"	"	"	"	"	"	"	"	4	"	
"	"	"	"	"	"	"	"	"	3	"	
"	"	"	"	"	"	"	"	"	3-4	"	
"	"	"	"	"	"	"	"	Good-Fair	3	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	Good	3	"	
"	"	"	"	"	"	"	"	"	3-4	"	
"	"	"	"	"	"	"	"	4	4	ELGB	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	3	2	BAS	
"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1981	H.A. END	EXPOSURE MST-AM-PM	W.E
6468	B 150 (A)	$7^h02.0^M$	$+38.9°$	U.T. FEB 26.14931	0^h23^m E	U.T. 3^h25^m - 3^h45^m	
6469	B 150 (B)	$7^h24.4^M$	$+38.9°$	U.T. FEB 26.16815	0^h23^m E	U.T. 3^h53^m - 4^h13^m	
6470	B 140	$7^h23.8^M$	$+16.2°$	U.T. FEB 26.18889	0^h15^M W	U.T. 4^h22^m - 4^h42^m	
6471	T 41	$6^h43.0^M$	$+33.1°$	U.T. FEB 28.12847	0^h22^M E	U.T. 3^h00^m - 3^h10^m	
6472	B125, B140	$7^h24.0^M$	$+16.3°$	U.T. FEB 28.14931	0^h36^m E	U.T. 3^h25^m - 3^h45^m	
6473	B122, B141, B147	$7^h28.0^M$	$+27.1°$	U.T. FEB 28.17083	0^h10^M E	U.T. 3^h56^m - 4^h16^m	
6474	B125, B140	$7^h24.0^M$	$+16.3°$	U.T. FEB 28.19028	0^h22^m W	U.T. 4^h24^m - 4^h44^m	
6475	B122, B141, B147	$7^h28.0^M$	$+27.1°$	U.T. FEB 28.21042	0^h47^M W	U.T. 4^h53^M - 5^h13^m	
6476	T 41	$7^h14.7^M$	$+33.2°$	U.T. MAR 09.11806	0^h37^M E	U.T. 2^h40^M - 3^h00^M	
6477	"	"	"	U.T. MAR. 09.14097	0^h04^M E	U.T. 3^h13^m - 3^h33^m	
6478	B115, B139, B148	$7^h49.9^M$	$+24.4°$	U.T. MAR 09.16458	0^h04^M E	U.T 3^h47^M - 4^h07^M	
6479	B113, B114, B143	$8^h45.0^M$	$+21.8°$	U.T. MAR 09.18681	0^h28^M E	U.T. 4^h19^M - 4^h39^M	
6480	B115, B139, B148	$7^h49.9^M$	$+24.4°$	U.T. MAR 09.20694	0^h56^M W	U.T. 4^h48^M - 5^h08^M	
6481	B113, B114, B143	$8^h45.0^M$	$+21.8°$	U.T. MAR 09.22778	0^h32^M W	U.T. 5^h18^m - 5^h38^M	
6482	T30, T31	$10^h07.5^M$	$+21.5°$	U.T. MAR 09.24861	0^h21^M E	U.T. 5^h48^M - 6^h08^M	
6483	&c/ Bowell	$12^h32.5^M$	$-1.1°$	U.T. MAR 09.27222	2^h20^M E	U.T. 6^h22^M - 6^h32^M	
6484	T30, T31	$10^h07.5^M$	$+21.5°$	U.T. MAR 09.28750	0^h35^M W	U.T. 6^h44^M - 7^h04^M	
6485	RV Lyncis	$6^h54.5^M$	$+51°08'$	Mar 9/10	0^h28 E	7:35:00 - 7:45:00	
6486	"	"	"	"	0 09 E	7:55:00 - 8:05:00	
6487	"	"	"	"	0 12 W	8:15:00 - 8:25:00	
6488	T41	$7^h31.1^M$	$+33.3°$	U.T. MAR 12.19583	1^h08^M W	U.T. 4^h32^m - 4^h52^M	
6489	T41	$7^h31.1^m$	$+33.3°$	U.T. MAR 12.21528	1^h38^M W	U.T. 5^h00^M - 5^h20^m	
6490	B 150	$7^h32.8^M$	$+38.2°$	U.T. MAR 12.23472	2^h04^M W	U.T. 5^h28^m - 5^h48^M	
6491	"	"	"	U.T. MAR 12.25556	2^h34^M W	U.T. 5^h58^m - 6^h18^m	
6492	T41	$7^h35.5^M$	$+33.2°$	U.T. MAR 13.11493	0^h49^M E	U.T. 2^h38^M - 2^h53^m	
6493	B148	$7^h46.9^M$	$+27.7°$	U.T. MAR 25.12153	0^h02^M E	U.T. 2^h45^M - 3^h05^m	
6494	B120, B127, T30, T31, B118	$9^h55.6^M$	$+22.6°$	U.T. MAR 25.14236	1^h36^M E	U.T. 3^h10^M - 3^h40^M	
6495	B119, B134, 735 Z2	$10^h19.8^M$	$+15.6°$	U.T. MAR 25.16250	1^h36^M E	U.T. 3^h44^M - 4^h04^m	

INST.	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV	REMARKS
13"	8x10	103_a-O	W	D-19	5^{MIN}	68°	N	3	2	BAS	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	1	"	
"	"	"	"	"	"	"	"	4	4	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	5	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	3	4	BAS	
"	8x8	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	8x10	"	"	"	"	"	"	"	"	"	Moon set at end
"	"	"	"	"	"	"	"	4	5?	"	
"	"	"	"	"	"	"	"	"	5	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	3	"	"	
"	"	"	"	"	"	"	"	5	"	"	
"	4x5	103_a-O	"	"	"	"	"	Fair+	3-	H&Hicks	
"	"	"	"	"	"	"	"	good	"	"	
"	"	"	"	"	"	"	"	Poor	"	"	Clouds last 2 min
"	"	"	"	"	"	"	"	3	3	ELGB	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	4	2	"	some thin cirrus after 5^h44^m
"	8x10	"	"	"	"	"	"	1	3	"	Sky just workable cirrus and haze
"	"	"	"	"	"	"	"				
"	4x5	108_a-O	"	"	"	"	"	1	3	BAS	
"	8x10	103_a-O	"	"	"	"	"	3	4	ELGB	some cirrus at horizon
"	"	"	"	"	"	"	"	4	"	"	
"	"	"	"	"	"	"	"	"	"	"	Cloud gone. Poorly guided plate
"	"	"	"	"	"	"	"				

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1981	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST.	PLATE SIZE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
6496	B148	$7^h46.9^M$	$+27.7^\circ$	U.T. MAR 25.18542	$1^h23^M W$	U.T. $4^h17^m - 4^h37^m$		13"	8X10 103a-O	W	D19	5 MIN	68°	N	4	4	ELGB	
6497	B118, B120, B127, T30, T31	$9^h55.6^M$	$+22.6^\circ$	U.T. MAR 25.20625	$0^h03^M E$	U.T. $4^h42^M - 5^h12^m$		"	" "	"	"	"	"	"	"	"	"	
6498	B119, B134, 735 Z2	$10^h19.8^M$	$+15.6^\circ$	U.T. MAR 25.22639	$0^h03^M E$	U.T. $5^h16^M - 5^h36^M$		"	" "	"	"	"	"	"	"	"	"	Moonrise at end
6499	B118, B117, B120, B127 T30, T31	$9^h58.7^M$	$+22.0^\circ$	U.T. MAR 30.24792	$1^h15^M W$	U.T. $5^h42^m - 6^h12^m$		"	" "	"	"	"	"	"	4	3	BAS	
6500	C/Bowell, 74 FG, 78PP3, 4082P-L	$12^h11.5^M$	-1.3°	U.T MAR 30.27153	$0^h28^M E$	U.T. $6^h21^m - 6^h41^m$		"	" "	"	"	"	"	"	"	"	"	
6501	B118, B119, B120, B127, T30, T31	$9^h58.7^M$	$+22.0^\circ$	U.T. MAR 30.29444	$2^h22^m W$	U.T. $6^h49^m - 7^h19^m$		"	" "	"	"	"	"	"	"	"	"	
6502	C/Bowell 74 FG, 78 PP3, 4082 P-L	$12^h11.5^M$	-1.3°	U.T. MAR 30.31736	$0^h38^m W$	U.T. $7^h27^m - 7^h47^m$		"	" "	"	"	"	"	"	"	"	"	
6503	64VM1, 6578 P-L	$13^h09.0^M$	-3.2°	U.T. MAR 30.34583	$0^h21^m W$	U.T. $8^h08^m - 8^h28^m$		"	" "	"	"	"	"	"	"	4	"	Guide star faint.
6504	76 JF2, 78 UW1	$14^h05.4^M$	-1.4°	U.T. MAR 30.36597	$0^h07^m E$	U.T. $8^h37^m - 8^h57^m$		"	" "	"	"	"	"	"	"	"	"	Guide star faint
6505	64 VM1, 6578 P-L	$13^h09.0^M$	-3.2°	U.T. MAR 30.38750	$1^h21^m W$	U.T. $9^h08^m - 9^h28^m$		"	" "	"	"	"	"	"	"	"	"	
6506	76 JF2, 78 UW1	$14^h05.4^m$	-1.4°	U.T. MAR 30.40764	$0^h54^m W$	U.T. $9^h37^m - 9^h57^m$		"	" "	"	"	"	"	"	"	"	"	Perhaps not same guide star, but very close
6507	C / MEIER	$16^h00.0^M$	$+23.0^\circ$	U.T. MAR 30.42639	$0^h40^M E$	U.T. $10^h09^m - 10^h19^m$		"	" "	"	"	"	"	"	"	3	"	Moon up
6508	C/Bowell, 74FG, B169 B162, B163, B165, B166 - B169	$12^h15.0^M$	-2.6°	U.T. APR 01.21181	$1^h52^M E$	U.T. $4^h55^m - 5^h15^m$		"	4X5 "	"	"	"	"	"	"	4	"	
6509	"	"	"	U.T. APR 01.25069	$0^h56^M E$	U.T. $5^h51^m - 6^h11^m$		"	8X10 "	"	"	"	"	"	"	"	"	
6510	B148	$7^h52.9^M$	$+28.3^\circ$	U.T. APR 05.13194	$0^h36^M W$	U.T. $3^h00^M - 3^h20^m$		"	" "	"	"	"	"	"	"	"	"	
6511	B148	"	"	U.T. APR. 05.17014	$1^h32^m W$	U.T. $3^h55^m - 4^h15^m$		"	4x5 "	"	"	"	"	"	"	"	"	Slip in dec. half-way through
6512	C/Bowell, B160, B162, B163, B165 - B169	$12^h10.0^M$	-1.6°	U.T. APR 05.19236	$1^h59^m E$	U.T. $4^h27^m - 4^h47^m$		"	" "	"	"	"	"	"	"	"	"	guided on very nearest star insible finder
6513	76 YS1	$12^h35.9^M$	-1.5°	U.T. APR 05.21597	$1^h51^M E$	U.T. $5^h01^m - 5^h21^m$		"	8 x10 "	"	"	"	"	"	"	"	"	
6514	C/Bowell, B160, B162, B163 B165 - B169	$12^h10.5^M$	-1.6°	U.T. APR 05.23611	$0^h55^M E$	U.T. $5^h30^M - 5^h50^M$		"	" "	"	"	"	"	"	"	"	"	
6515	76 YS1	$12^h35.9^m$	-1.5°	U.T. APR 05.25486	$0^h55^M E$	U.T. $5^h57^m - 6^h17^m$		"	" "	"	"	"	"	"	"	"	"	
6516	B172, B173, B175-B179	$13^h03.1^m$	-2.1°	U.T. APR 05.27569	$0^h55^m E$	U.T. $6^h27^m - 6^h47^m$		"	" "	"	"	"	"	"	"	"	"	
6517	B161	$13^h41.1^m$	-4.2°	U.T. APR 05.29653	$0^h58^M E$	U.T. $6^h57^m - 7^h17^m$		"	" "	"	"	"	"	"	"	"	"	
6518	B172, B173, B175-179	$13^h03.1^m$	-2.1°	U.T. APR 05.31875	$0^h12^m E$	U.T. $7^h29^m - 7^h49^m$		"	" "	"	"	"	"	"	"	"	"	
6519	B161	$13^h41.1^m$	-4.2°	U.T. APR 05.33889	$0^h03^m W$	U.T. $7^h58^m - 8^h18^m$		"	" "	"	"	"	"	"	"	"	"	
6520	B185 - B195	$12^h34.7^M$	-2.0°	U.T. APR 07.20486	$1^h53^m E$	U.T. $4^h40^m - 5^h10^m$		"	" "	"	"	"	"	"	"	"	ELGB	
6521	"	"	"	U.T. APR 07.22847	$1^h19^M E$	U.T. $5^h14^m - 5^h44^m$		"	" "	"	"	"	"	"	"	3	ELGB	wind rising and seeing deteriorating
6522	B160, B162 - B164, B166 - B170 C/Bowell	$12^h05.1^M$	-2.8°	U.T. APR 09.20556	$1^h19^m E$	U.T. $4^h46^m - 5^h06^m$		"	" "	"	"	"	"	"	"	4	"	
6523	B164, B171, B186 - B197	$12^h29.2^M$	-3.4°	U.T. APR 09.22292	$1^h19^m E$	U.T. $5^h11^M - 5^h31^m$		"	" "	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1981	H.A. END	EXPOSURE MST-AM-PM	INST	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
6524	B160, B162-B164, B166-B170, C/Bowell	$12^h05.1^m$	$-2.8°$	U.T. APR 09.24097	0^h28^m E	U.T. $5^h37^m - 5^h57^m$	13"	8x10	103a-0	W	D19	$5^{min.}$	68°	N	4	4	ELGB	
6525	B164, B171, B186-B197	$12^h29.2^m$	$-3.4°$	U.T. APR 09.25764	0^h28^m E	U.T. $6^h01^m - 6^h21^m$	"	"	"	"	"	"	"	"	"	"	"	Moon set 06^h30^m U.T. Good night.
6526	B175, B177-B179	$12^h57.0^m$	$-2.9°$	U.T. APR. 10.19028	2^h27^m E	U.T. $4^h24^m - 4^h44^m$	"	"	"	"	"	"	"	"	"	"	BAS	
6527	B161, B173 B180-B184	$13^h40.0^m$	$-3.9°$	U.T. APR 10.20972	2^h42^m E	U.T. $4^h52^m - 5^h12^m$	"	"	"	"	"	"	"	"	"	"	"	
6528	B175, B177-B179	$12^h57.0^m$	$-2.9°$	U.T. APR 10.22847	1^h33^m E	U.T. $5^h19^m - 5^h39^m$	"	"	"	"	"	"	"	"	"	"	"	
6529	B161, B173, B180-B184	$13^h40.0$	$-3.9°$	U.T. APR 10.24792	1^h47^m E	U.T. $5^h47^m - 6^h07^m$	"	"	"	"	"	"	"	"	"	"	"	Moon up for all plates
6530	1911 Halley & Region	9^h50^m	$-5°00'$	Apr 22/23	1^h05 W	8:20:00 - 9:20:00 PM MST U.T. Apr. 23.155722	"	4X5	103aO	"	"	"	"	"	Good	4	Hgicles	
6531	Polar Sequence	11^h10^m	$+90°$	"	0^h55 W	9:30:00 - 10:30:00 PM MST U.T. Apr 23.208333	"	"	"	"	"	"	"	"	"	"	"	No Polar Guiding Trailed Images
6532	B163, 164, 166-169, 171 190, 196, C/BOWELL	$12^h02.0^m$	$-2.1°$	U.T. MAY 02.15694	0^h51^m E	U.T. $3^h31^m - 4^h01^m$	"	8x10	"	"	"	"	"	"	3	3	BAS	
6533	B148	$8^h14.5^m$	$+27.7°$	U.T. MAY 02.18056	3^h26^m W	U.T. $4^h10^m - 4^h30^m$	"	4x5	"	"	"	"	"	"	2	1	"	Very bright city lights Some clouds.
6534	B148	"	"	U.T. MAY 02.20000	3^h54^m W	U.T. $4^h38^m - 4^h58^m$	"	"	"	"	"	"	"	"	"	"	"	
6535	81CA	$11^h04.4^m$	$+22.3°$	U.T. MAY 02.22361	1^h45^m W	U.T. $5^h07^m - 5^h37^m$	"	"	"	"	"	"	"	"	3	4	"	
6536	B163, 164, 166-169, 171 190, 196, C/BOWELL	$12^h02.0^h$	$-2.1°$	U.T. MAY 02.25208	1^h26^m W	U.T. $5^h48^m - 6^h18^m$	"	"	"	"	"	"	"	"	4	"	"	
6537	81CA	$11^h04.4^m$	$+22.3°$	U.T. MAY 02.27986	3^h04^m W	U.T. $6^h28^m - 6^h58^m$	"	8x10	"	"	"	"	"	"	"	"	"	
6538	81CB	$10^h44.0^m$	$+14.4°$	U.T. MAY 03.16042	0^h36^m W	U.T. $3^h36^m - 4^h06^m$	"	4x5	"	"	"	"	"	"	3	2	"	
6539	B161, B180-B184	$13^h21.4^m$	$-3.4°$	U.T. MAY 03.21528	0^h45^m E	U.T. $4^h49^m - 5^h21^m$	"	"	"	"	"	"	"	"	4	3	"	Start delayed by cloud cloud for ~2^m near 4^h58^m
6540	81CB	$10^h44.0^m$	$+14.4°$	U.T. MAY 03.23889	2^h30^m W	U.T. $5^h29^m - 5^h59^m$	"	8x10	"	"	"	"	"	"	"	2	"	
6541	B161, B180-B184	$13^h21.4^h$	$-3.4°$	U.T. MAY 03.26458	0^h30^m W	U.T. $6^h06^m - 6^h36^m$	"	4x5	"	"	"	"	"	"	"	3	"	
6542	91, 76AG, 77RC7	$14^h15.2^m$	$-13.8°$	U.T. MAY 03.28681	0^h03^m W	U.T. $6^h43^m - 7^h03^m$	"	8x10	"	"	"	"	"	"	"	4	"	
6543	75FW, 75FX	$14^h47.1^m$	$-14.5°$	U.T. MAY 03.30486	0^h02^m E	U.T. $7^h09^m - 7^h29^m$	"	"	"	"	"	"	"	"	"	"	"	
6544	91, 76AG, 77RC7	$14^h15.2^m$	$-13.8°$	U.T. MAY 03.32292	0^h55^m W	U.T. $7^h35^m - 7^h55^m$	"	"	"	"	"	"	"	"	"	"	"	
6545	75FW, 75FX	$14^h47.1^m$	$-14.5°$	U.T. MAY 03.34028	0^h48^m W	U.T. $8^h00^m - 8^h20^m$	"	"	"	"	"	"	"	"	"	"	"	
6546	659, 4155	$15^h11.2^m$	$-20.0°$	U.T. MAY 03.35833	0^h50^m W	U.T. $8^h26^m - 8^h46^m$	"	"	"	"	"	"	"	"	"	"	"	
6547	659, 4155	"	"	U.T. MAY 03.39583	1^h44^m W	U.T. $9^h20^m - 9^h40^m$	"	"	"	"	"	"	"	"	"	3	"	
6548	SA #51	7^h27^m	$+29°58'$	May 4/5	4^h30^m W	8:35:00 - 9:35:00 MST May 5.170139 U.T.	"	4X5	"	"	"	"	"	"	Good+	4	H.Gicles	
6549	≡ Meier 1980Q	13^h39^m	$+16°10'$	"	1^h07^m E	10:04:00 - 10:10:00 MST U.T. May 5.213194	"	"	"	"	"	"	"	"	"	"	"	
6550	≡ BUS 1981d	14^h47^m	$-5°30'$	"	1^h34^m E	10:20:00 - 10:50:00 MST May 5.232639 U.T.	"	8x10	"	"	"	"	"	"	5	3	ELGB	
6551	76C8, 76KV, 77QM3, 78VJ7	$15^h47.4^m$	$-20.1°$	U.T. MAY 05.27917	1^h27^m E	U.T. $6^h27^m - 6^h57^m$												

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1981	H. A END	EXPOSURE MST-AM-PM	W.E.	INST.	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WRITING	SEEING TRANS.	SEEING STEAD	OBSV	REMARKS
6552	76GC8, 76KV, 77QM3, 78VJ7	$15^h 47.4^M$	−20.1°	U.T. MAY 05.30278	$0^h 53^M$ E	U.T. $7^h 01^m - 7^h 31^m$		13"	8×10	103aO	W	D19	5 MIN.	68°	N	5	3	EL6B	
6553	2270, 68UP, 75XA3, 78YG3, 78YQ5	$16^h 49.9^M$	−22.7°	U.T. MAY 05.32778	$1^h 20^M$ E	U.T. $7^h 37^M - 8^h 07^m$		"	"	"	"	"	"	"	"	"	"	"	
6554	72TF2, B27	$17^h 17.4^M$	−17.8°	U.T. MAY 05.35139	$1^h 14^M$ E	U.T. $8^h 11^m - 8^h 41^m$		"	"	"	"	"	"	"	"	"	"	"	
6555	2270, 68UP, 75XA3, 78YG3, 78YQS	$16^h 49.9^M$	−22.7°	U.T. MAY 05.37569	$0^h 10^M$ E	U.T. $8^h 46^m - 9^h 16^m$		"	"	"	"	"	"	"	"	"	"	"	
6556	72TF2, B27	$17^h 17.4^m$	−17.8°	U.T. MAY 05.40000	$0^h 02^M$ E	U.T. $9^h 21^m - 9^h 51^m$		"	"	"	"	"	"	"	"	"	4	"	Excellent night
6557	75FX, 75FW, B204-211	$14^h 41.8$	−10.7°	U.T. MAY 8.36528	$1^h 48^M$ W	U.T. $8^h 36^n - 8^h 56^m$		"	"	"	"	"	"	"	"	3	"	BAS	
6558	72TF2, B27	$17^h 15.8^M$	−17.7°	U.T. MAY 8.38958	$0^h 01^M$ E	U.T. $9^h 06^M - 9^h 36^m$		"	"	"	"	"	"	"	"	"	3	"	
6559	75FX, 75FW, B204-211	$14^h 41.8^M$	−10.7°	U.T. MAY 8.41181	$2^h 55^M$ W	U.T. $9^h 43^M - 10^h 03$		"	"	"	"	"	"	"	"	"	"	"	
6560	72TF2, B27	$17^h 15.8^M$	−17.7°	U.T. MAY 8.43264	$1^h 00^M$ W	U.T. $10^h 08^M - 10^h 38^M$		"	"	"	"	"	"	"	"	"	"	"	Milky Way dull
6561	C/METER	$12^h 42.0^M$	+7.1°	U.T. JUN 02.17292	$0^h 51^M$ W	U.T. $3^h 59^M - 4^h 19^m$		"	4×5	"	"	"	"	"	"	"	4	"	
6562	B161, B182, B184	$13^h 16.9^M$	−2.3°	U.T. JUN 2.19444	$0^h 53^M$ W	U.T. $4^h 25^M - 4^h 55^m$		"	8×10	"	"	"	"	"	"	"	"	"	
6563	B205, B209	$14^h 14.6^M$	−12.5°	U.T. JUN 2.22083	$0^h 32^M$ W	U.T. $5^h 03^M - 5^h 33^m$		"	"	"	"	"	"	"	"	"	"	"	
6564	B161, B182, B184	$13^h 16.9^M$	−2.3°	U.T. JUN 2.25278	$2^h 18^M$ W	U.T. $5^h 49^M - 6^h 19^M$		"	"	"	"	"	"	"	"	"	"	"	
6565	B205, B209	$14^h 14.6^M$	−12.5°	U.T. JUN 02.27986	$1^h 57^M$ W	U.T. $6^h 28^M - 6^h 58^m$		"	"	"	"	"	"	"	"	"	"	"	SOME TwiLight A start
6566	B204, B206, B207	$14^h 40.0^M$	−11.1°	U.T. JUN 04.17222	$0^h 56^M$ E	U.T. $3^h 53^m - 4^h 23^m$		"	"	"	"	"	"	"	"	4	3	"	SOME cirrus during twil
6567	B212, B214, B215	$14^h 46.0^M$	−18.9°	U.T. JUN 04.19653	$0^h 26^M$ E	U.T. $4^h 28^m - 4^h 58^m$		"	"	"	"	"	"	"	"	"	"	"	
6568	B204, B206, B207	$14^h 40.0^M$	−11.1°	U.T. JUN 04.22292	$0^h 17^m$ W	U.T. $5^h 06^m - 5^h 36^m$		"	"	"	"	"	"	"	"	"	4	"	
6569	B212, B214, B215	$14^h 46.0^M$	−18.9°	U.T. JUN 04.24653	$0^h 46^M$ W	U.T. $5^h 40^m - 6^h 10^m$		"	"	"	"	"	"	"	"	"	"	"	
6576	B218, B220, B221, B223	$15^h 17.0^M$	−19.4°	U.T. JUN 04.26806	$0^h 40^M$ W	U.T. $6^h 16^m - 6^h 36^m$		"	"	"	"	"	"	"	"	"	"	"	
6571	B219, B222, 76KV, 77QM3	$15^h 38.1$	−18.5°	U.T. JUN 04.28611	$0^h 45^m$ W	U.T. $6^h 42^m - 7^h 02^m$		"	"	"	"	"	"	"	"	"	3	"	
6572	B218, B220, B221, B223	$15^h 17.0^M$	−19.4°	U.T. JUN 04.31049	$1^h 41^m$ W	U.T. $7^h 17^m 06^s - 7^h 37^m 06^s$		"	"	"	"	"	"	"	"	"	"	"	
6573	B219, B222, 76KV, 77QM3	$15^h 38.1^M$	−18.5°	U.T. JUN 04.32917	$1^h 47^m$ W	U.T. $7^h 44^m - 8^h 04^M$		"	"	"	"	"	"	"	"	"	"	"	
6574	"Neptune Asteriod	$17^h 22.7^M$	−19.5°	U.T. JUN 04.34792	$0^h 30^M$ W	U.T. $8^h 11^m - 8^h 31^m$		"	"	"	"	"	"	"	"	"	4	"	
6575	(395), 74 KB	$19^h 57.5^M$	−22.0°	U.T. JUN 04.37153	$1^h 25^M$ E	U.T. $8^h 40^M - 9^h 10^M$		"	"	"	"	"	"	"	"	"	"	"	
6576	"Neptune Asteriod"	$17^h 22.7^M$	−19.5°	U.T. JUN 04.39444	$1^h 37^M$ W	U.T. $9^h 18^M - 9^h 38^M$		"	"	"	"	"	"	"	"	"	"	"	
6577	(395), 74 KB	$19^h 52.5^M$	−22.0°	U.T. JUN 04.41597	$0^h 20^M$ E	U.T. $9^h 44^M - 10^h 14^M$		"	"	"	"	"	"	"	"	"	"	"	
6578	(565), B166	$12^h 03.1^M$	−5.7°	U.T. JUN 05.17361	$1^h 47^M$ W	U.T. $3^h 55^M - 4^h 25^M$		"	"	"	"	"	"	"	"	"	3	"	weak twilight at start; weak
6579	(565), B166	"	"	U.T. JUN 05.21319	$2^h 45^M$ W	U.T. $4^h 52^m - 5^h 22^m$		"	"	"	"	"	"	"	"	"	2	"	moonlight. New plateholder

NEG #	OBJECT OR GUIDE	Position R.A.	DEC.	DATE 1981	H.A. END	EXPOSURE MST-AM-PM	W.E	INST.	PLATE SIZE	TYPE	telescope Position	DEVELOPMENT KIND	TIME	TEMP.	WRITING	SEEING TRANS.	STEAD	OBSV.	REMARKS
6580	B224	$16^h 13.2^M$	-23.3°	U.T. JUN 05.23333	$1^h 03^m E$	U.T. $5^h 26^m - 5^h 46^m$		13"	4x5	103aO	W	D19	5 MIN	68°	N	4	3	BAS	
6581	65WR, 68UP, B217	$16^h 44.9^M$	-23.5°	U.T. JUN 05.25208	$1^h 13^m E$	U.T. $5^h 53^m - 6^h 13^m$		"	8x10	"	"	"	"	"	"	"	"	"	
6582	B224	$16^h 13.2^M$	-23.3°	U.T. JUN 05.26875	$0^h 13^m E$	U.T. $6^h 17^m - 6^h 37^m$		"	4x5	"	"	"	"	"	"	"	"	"	
6583	65WR, 68UP, B217	$16^h 44.9^M$	-23.5°	U.T. JUN 05.28611	$0^h 23^m E$	U.T. $6^h 42^m - 7^h 02^m$		"	"	"	"	"	"	"	"	"	"	"	
6584	B39	$17^h 05.4$	$+4.4^\circ$	U.T. JUN 05.30694	$0^h 02^m E$	U.T. $7^h 07^m - 7^h 37^m$		"	"	"	"	"	"	"	"	"	4	"	
6585	65WR, 68UP, B217	$16^h 44.9^M$	-23.5°	U.T. JUN 05.34861	$1^h 12^m W$	U.T. $8^h 12^m - 8^h 32^m$		"	8x10	"	"	"	"	"	"	"	3	"	
6586	B39	$17^h 05.4$	$+4.4^\circ$	U.T. JUN 05.37083	$1^h 30^m W$	U.T. $8^h 39^m - 9^h 09^m$		"	4x5	"	"	"	"	"	"	"	4	"	
6587	B35	$20^h 16.9^M$	-3.7°	U.T. JUN 06.31875	$2^h 54^m E$	U.T. $7^h 24^m - 7^h 54^m$		"	8x10	"	"	"	"	"	"	"	3	ELGB	New plateholder used
6588	(395), 74 KB	$19^h 57.2^M$	-22.1°	U.T. JUN 06.34306	$2^h 29^m E$	U.T. $7^h 59^m - 8^h 29^m$		"	"	"	"	"	"	"	"	"	2	ELGB	
6589	B35	$20^h 16.9^M$	-3.7°	U.T. JUN 06.36736	$1^h 44^m E$	U.T. $8^h 34^m - 9^h 04^m$		"	"	"	"	"	"	"	"	"	3	"	
6590	(395) 74 KB	$19^h 57.2^M$	-22.1°	U.T. JUN 06.39167	$0^h 49^m E$	U.T. $9^h 09^m - 9^h 39^m$		"	"	"	"	"	"	"	"	"	"	"	Very good night
6591	B205, B209	$14^h 12.6^M$	-12.0°	U.T. JUN 09.22014	$0^h 54^m W$	U.T. $5^h 07^m - 5^h 27^m$		"	"	"	"	"	"	"	"	5	4	"	
6592	B212, B214	$14^h 42.9^M$	-18.8°	U.T. JUN 09.23681	$0^h 48^m W$	U.T. $5^h 31^m - 5^h 51^m$		"	"	"	"	"	"	"	"	"	"	"	
6593	B218, B220, B221, B223	$15^h 10.0^M$	-19.4°	U.T. JUN 09.25347	$0^h 39^m W$	U.T. $5^h 55^m - 6^h 15^m$		"	"	"	"	"	"	"	"	"	"	"	
6594	B205, B209	$14^h 12.6^M$	-12.0°	U.T. JUN 09.27014	$2^h 06^m W$	U.T. $6^h 19^m - 6^h 39^m$		"	"	"	"	"	"	"	"	"	"	"	
6595	B212, B214	$14^h 42.9^M$	-18.8°	U.T. JUN 09.28758	$2^h 01^m W$	U.T. $6^h 44^m - 7^h 04^m$		"	"	"	"	"	"	"	"	"	"	"	
6596	B218, B220, B221, B223	$15^h 10.0$	-19.4	U.T. JUN 09.30417	$1^h 57^m W$	U.T. $7^h 08^m - 7^h 28^m$		"	"	"	"	"	"	"	"	"	"	"	Moon down during this plate.
6597	B219, B222, B229, B231, B232, B233	$15^h 34.0^M$	-18.2°	U.T. JUN 09.32083	$1^h 58^m W$	U.T. $7^h 32^m - 7^h 52^m$		"	"	"	"	"	"	"	"	"	"	"	
6598	B " " "	"	"	U.T. JUN 09.33750	$2^h 23^m W$	U.T. $7^h 56^m - 8^h 16^m$		"	"	"	"	"	"	"	"	"	"	"	
6599	B225, B226, B227, B228	$19^h 56.6^M$	-22.1°	U.T. JUN 09.35833	$1^h 25^m E$	U.T. $8^h 21^m - 8^h 51^m$		"	"	"	"	"	"	"	"	"	3	"	Slight breeze rising; seeing deteriorating
6600	B225, B226, B227, B228	$19^h 56.6^M$	-22.1°	U.T. JUN 09.38194	$0^h 51^m E$	U.T. $8^h 55^m - 9^h 25^m$		"	"	"	"	"	"	"	"	4'	"	BAS	
6601	B212, B214	$14^h 41.2^M$	-17.0°	U.T. JUN 23.18403	$0^h 34^m W$	U.T. $4^h 10^m - 4^h 40^m$		"	"	"	"	"	"	"	"	"	"	"	
6602	B182, B184	$13^h 22.5^M$	-3.6°	U.T. JUN 23.20903	$2^h 36^m W$	U.T. $4^h 46^m - 5^h 16^m$		"	"	"	"	"	"	"	"	"	"	"	
6603	B182, B184	"	"	U.T. JUN 23.23194	$3^h 03^m W$	U.T. $5^h 19^m - 5^h 49^m$		"	"	"	"	"	"	"	"	"	"	"	
6604	B204, B205, B207	$14^h 15.5^m$	-9.2°	U.T. JUN 23.25625	$2^h 45^m W$	U.T. $5^h 54^m - 6^h 24^m$		"	"	"	"	"	"	"	"	"	"	"	Moonrise during exposure.
6605	B212, B214	$14^h 41.2^M$	-17.0°	U.T. JUN 23.28056	$2^h 55^m W$	U.T. $6^h 29^m - 6^h 59^m$		"	"	"	"	"	"	"	"	"	2	"	New plateholder. Observer not operating well tonite same guide star as last night's pair. New plate holder all night
6606	B204, B205, B207	$14^h 15.5^m$	-9.2°	U.T. JUN 23.30347	$3^h 52^m W$	U.T. $7^h 02^m - 7^h 32^m$		"	"	"	"	"	"	"	"	"	4	"	
6607	"	$14^h 16.3^M$	-9.1°	U.T. JUN 24.19931	$1^h 26^m W$	U.T. $4^h 32^m - 5^h 02^m$		"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1981	H.A. END	EXPOSURE MST-AM-PM	W.E
6608	(1741), B230	$17^h18.6^M$	-24.4°	U.T. JUN 24.22083	$1^h10^m E$	U.T. $5^h08 - 5^h28^m$	
6609	6750, 75V02, 80DA	$17^h45.7^M$	-26.7°	U.T. JUN 24.23889	$1^h11^m E$	U.T. $5^h34^m - 5^h54^m$	
6610	B204, B205, B207	$14^h16.3^M$	-9.1°	U.T. JUN 24.26042	$2^h54^m E$	U.T. $6^h00^m - 6^h30^m$	
6611	(1741), B230	$17^h18.6^M$	-24.4°	U.T. JUN 24.28125	$0^h17^m W$	U.T. $6^h35^m - 6^h55^m$	
6612	6750, 75V02, 80DA	$17^h45.7^M$	-26.7°	U.T. JUN 24.29861	$0^h15^m W$	U.T. $7^h00^m - 7^h20^m$	
6613	B219, B232, B233, B229	$15^h32.1^M$	-16.0°	U.T. JUN 25.20417	$0^h32^m W$	U.T. $4^h39^m - 5^h09^m$	
6614	(646), B217, B224	$16^h14.7^M$	-27.0°	U.T. JUN 25.23056	$0^h18^m W$	U.T. $5^h17^m - 5^h47^m$	
6615	(488), 78QX, 78RS	$18^h22.9^M$	-25.6°	U.T. JUN 25.25278	$1^h22^m E$	U.T. $5^h54^m - 6^h14^m$	
6616	B219, B229, B232, B233	$15^h32.1^M$	-16.0°	U.T. JUN 25.27604	$2^h15^m E$	U.T. $6^h22^m - 6^h53^m$	
6617	(646), B217, B224	$16^h14.7^M$	-27.0°	U.T. JUN 25.29583	$1^h46^m W$	U.T. $6^h57^m - 7^h15^m$	
6618	(157), 80DC	$16^h57.0^M$	-33.3°	U.T. JUN 29.21528	$0^h37^m E$	U.T. $5^h01^m - 5^h19^m$	
6619	B204, B205, B207	$14^h22.9^M$	-9.6°	U.T. JUN 30.18403	$1^h22^m W$	U.T. $4^h10^M - 4^h40^M$	
6620	B204, B205, B207	$14^h18.8^M$	-9.7°	U.T. JUL 03.18403	$1^h35^m W$	U.T. $4^h10^M - 4^h40^M$	
6621	(157), 1980De	$16^h53.5^M$	-33.2°	U.T. JUL 03.20556	$0^h38^m E$	U.T. $4^h46^M - 5^h06^M$	
6622	(157), 80DC	$16^h53.5^M$	-33.2°	U.T. JUL 03.22222	$0^h14^m E$	U.T. $5^h10^M - 5^h30^M$	
6623	B204, B205, B207	$14^h18.8^M$	-9.7°	U.T. JUL 03.24306	$3^h00^m W$	U.T. $5^h35^M - 6^h05^M$	
6624	(395), 34CD, B225, 227, 228	$19^h41.3^M$	-21.6°	U.T. JUL 03.26597	$1^h55^m E$	U.T. 6^h13^M 6^h33^m	
6625	B226	$19^h43.9^M$	-31.0°	U.T. JUL 03.28715	$1^h27^m E$	U.T. $6^h46^M - 7^h01^m$	
6626	(395), 34CD, B225, 227, 228	$19^h41.3^M$	-21.6°	U.T. JUL 03.30347	$1^h00^m E$	U.T. $7^h07^M - 7^h27^m$	
6627	B226	$19^h43.9^M$	-31.0°	U.T. JUL 03.31979	$0^h40^m E$	U.T. $7^h33^M - 7^h48^M$	
6628	74MA (+0.60)	$21^h55.0^M$	-23.0°	U.T. JUL 03.36111	$1^h50^m E$	U.T. $8^h30^M - 8^h50^M$	
6629	74MA (+0.40)	$22^h20.0^M$	-18.0°	U.T. JUL 03.37847	$1^h50^m E$	U.T. $8^h55^m - 9^h15^m$	
6630	74MA (+0.60)	$21^h55.0^M$	-23.0°	U.T. JUL 03.39792	$0^h57^m E$	U.T. $9^h23^m - 9^h43^m$	
6631	74MA (+0.40)	$22^h20.0$	-18.0°	U.T JUL 03.41528	$0^h57^m E$	U.T. $9^h48^M - 10^h08^M$	
6632	B232	$15^h28.4^M$	-16.4°	U.T. JUL 24.18403	$1^h55^m W$	U.T. $4^h10^M - 4^h40^M$	
6633	B230	$16^h53.5$	-26.6°	U.T. JUL 24.23542	$1^h35^m W$	U.T. $5^h24^m - 5^h54^m$	
6634	B232	$15^h28.4^M$	-16.4°	U.T. JUL 24.26042	$2^h45^m W$	U.T. $6^h00^M - 6^h30^M$	
6635	B230	$16^h53.5^M$	-26.6°	U.T. JUL 24.28472	$2^h45^m W$	U.T. $6^h35^M - 7^h05^M$	

INST.	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS	SEEING STEAD	OBSV.	REMARKS
13"	103a-O	8x10"	W	D19	5 MIN	68°	N	4	3	BAS	Field in Dark Cloud of Ophiuchus
"	8x10	103a-O	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	4	"	
"	"	"	"	"	"	"	"	"	4?	"	
"	"	"	"	"	"	"	"	"	4	"	Moonrise at end
"	"	"	"	"	"	"	"	3	"	"	
"	"	"	"	"	"	"	"	"	3	"	
"	"	"	"	"	"	"	"	"	"	"	M28 near plate center
"	"	"	"	"	"	"	"	"	"	"	Not SOME guide star Exposure cut short by clouds
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	2	"		
"	"	"	"	"	"	"	"	3	"		Cloud, then rain at end. Damn. some cirrus at end of twilight
"	"	"	"	"	"	"	"	4	"		
"	"	"	"	"	"	"	"	4	2	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	3	"		
"	"	"	"	"	"	"	"	"	"	"	aircraft across center of field.
"	"	"	"	"	"	"	"	1	"		NGC 6809 in field
"	"	"	"	"	"	"	"	3	"		
"	"	"	"	"	"	"	"	2	"		Image motion larger, but size smaller compared to P6625
"	"	"	"	"	"	"	"	3	"		
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	Good night
"	"	"	"	"	"	"	"	3	4	"	Many lightning flashes
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	3	3	"	
"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1981	H.A. END	EXPOSURE MST-AM-PM	W.E
6636	78GC	$18^h46.^M0$	$+29.^\circ2$	U.T. JUL 25.16458	$2^h02^M E$	U.T. $3^h52 - 4^h02^M$	
6637	"	"	"	U.T. JUL 25.17361	$1^h49^M E$	U.T. $4^h05^M - 4^h15^M$	
6638	(395), B225, B227	$19^h26.^M4$	$-20.^\circ2$	U.T. JUL 25.18819	$2^h02^M E$	U.T. $4^h21^m - 4^h41^m$	
6639	B226	$19^h07.^M9$	$-37.^\circ8$	U.T. JUL 25.20556	$1^h24^M E$	U.T. $4^h51^m - 5^h01^M$	
6640	(395), B225, B227	$19^h26.^M4$	$-20.^\circ2$	U.T. JUL 25.21736	$1^h20^M E$	U.T. $5^h03^m - 5^h23^m$	
6641	B226	$19^h07.^M9$	$-37.^\circ8$	U.T. JUL 25.22986	$0^h49^M E$	U.T. $5^h26^m - 5^h36^M$	
6642	(1772) B228, B237	$19^h19.^M8$	$-26.^\circ0$	U.T. JUL 25.24236	$0^h38^M E$	U.T. $5^h39^m - 5^h59^m$	
6643	B35, B234	$19^h54.^M8$	$-6.^\circ7$	U.T. JUL 25.25972	$0^h49^M E$	U.T. $6^h04^m - 6^h24^m$	
6644	(1772), B228, B237	$19^h19.^M8$	$-26.^\circ0$	U.T. JUL 25.27639	$0^h10^M W$	U.T. $6^h28^M - 6^h48^M$	
6645	B35, B234	$19^h54.^M8$	$-6.^\circ7$	U.T. JUL 25.29375	0^h00^M	U.T. $6^h53^m - 7^h13^m$	
6646	(2100)	$0^h19.^M6$	$+54.^\circ8$	U.T. JUL 25.30972	$4^h08^M E$	U.T. $7^h21^m - 7^h31^m$	
6647	"	"	"	U.T. JUL 25.32569	$3^h45^M E$	U.T. $7^h44^m - 7^h54^m$	
6648	B182	$14^h05.^M0$	$-1.^\circ8$	U.T. JUL 26.16563	$2^h45^m W$	U.T. $3^h51^m - 4^h06^m$	
6649	B182	"	"	U.T. JUL 26.17813	$3^h03^M W$	U.T. $4^h09^m - 4^h24^m$	
6650	(488), 77HC	$18^h06.2$	$-26.^\circ7$	U.T. JUL 29.19201	$0^h33^M E$	U.T. $4^h29^m - 4^h44^m$	
6651	(1020)	$18^h52.5$	$-17.^\circ1$	U.T. JUL 26.20347	$1^h09^M E$	U.T. $4^h48^M - 4^h58^m$	
6652	(488), 77HC	$18^h06.2$	$-26.^\circ7$	U.T. JUL 26.21493	$0^h03^m E$	U.T. $5^h02^m - 5^h17^m$	
6653	(1020)	$18^h52.^M5$	$-17.^\circ1$	U.T. JUL 26.22639	$0^h36^M E$	U.T. $5^h21^m - 5^h31^m$	
6654	39BF, 75BU	$20^h09.3$	$-18.^\circ7$	U.T. JUL 26.24097	$1^h28^M E$	U.T. $5^h37^m - 5^h57^m$	
6655	(2078)	$20^h51.^M2$	$-1.^\circ2$	U.T. JUL 26.25833	$1^h45^M E$	U.T. $6^h02 - 6^h22^m$	
6656	39BF, 75BU	$20^h09.^M3$	$-18.^\circ7$	U.T. JUL 26.27569	$0^h37^M E$	U.T. $6^h27^m - 6^h47^m$	
6657	(2078)	$20^h51.^M2$	$-1,^\circ2$	U.T. JUL 26.29236	$0^h55^m E$	U.T. $6^h51^m - 7^h11^m$	
6658	78SP	$21^h36.3$	$-15.^\circ4$	U.T. JUL 26.30972	$1^h16^m E$	U.T. $7^h16^m - 7^h36^m$	
6659	74RVI, 77PZI, 78RWI	$22^h06.3$	$-9.^\circ3$	U.T. JUL 26.32639	$1^h21^m E$	U.T. $7^h40^m - 8^h00^m$	
6660	78SP	$21^h36.^M3$	$-15.^\circ4$	U.T. JUL 26.34375	$0^h27^m E$	U.T. $8^h05^m - 8^h25^m$	
6661	74RVI, 77PZI, 78RWI	$22^h06.3$	$-9.^\circ3$	U.T. JUL 26.36042	$0^h32^m E$	U.T. $8^h29^m - 8^h49^m$	
6662	(1583), B212	$14^h58.^M9$	$-10.^\circ9$	U.T. AUG 03.16319	$2^h27^M W$	U.T. $3^h40^m - 4^h10^m$	
6663	B217	$16^h13.^M2$	$-28.^\circ0$	U.T. AUG 03.18750	$1^h50^m W$	U.T. $4^h15^m - 4^h45^m$	

INST	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV	REMARKS
13"	8X10	103aO	W	D-19	5 MIN	68°	North	4	4	ELGB	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	3	"	
"	"	"	"	"	"	"	"	"	2	"	Down in trees. old focus
"	"	"	"	"	"	"	"	"	3	"	New focus
"	"	"	"	"	"	"	"	"	"	"	old focus
"	"	"	"	"	"	"	"	"	"	"	New focus from here ON.
"	"	"	"	"	"	"	"	"	4	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	4X5	"	"	"	"	"	"	"	3	"	Driven as above Moonrise during exposure
"	"	"	"	"	"	"	"	"	4	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	8X10	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	airplane occulted guide star 7^h02^m
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	aliservers feet tread. Moonrise during exposure. Some cirrus nearby; moon low in west
"	"	"	"	"	"	"	"	3	"	BAS	
"	"	"	"	"	"	"	"	4	3	"	Moonset near start of exposure

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1981	H.A. END	EXPOSURE MST-AM-PM	W.E
6664	(1583), B 212	$14^h 58.9^M$	-10.9°	U.T. AUG 3.21250	$3^h 29^M W$	U.T. $4^h 51^m - 5^h 21^m$	
6665	B 217	$16^h 13.2^M$	-28.0°	U.T. AUG 03.23611	$3^h 00^M W$	U.T. $5^h 25^m - 5^h 55^m$	
6666	(1465), 76 GX2	$18^h 01.3^M$	-7.8°	U.T. AUG 03.26111	$1^h 46^M W$	U.T. $6^h 01^m - 6^h 31^m$	
6667	80 HB	$19^h 46.3^M$	$+14.1^\circ$	U.T. AUG 03.28264	$0^h 28^M W$	U.T. $6^h 37^m - 6^h 57^m$	
6668	(1465), 76 GX2	$18^h 01.3^M$	-7.8°	U.T. AUG 3.30347	$2^h 46^M W$	U.T. $7^h 02^m - 7^h 32^m$	
6669	80 HB	$19^h 46.3^M$	$+14.1^\circ$	U.T. AUG 3.32431	$1^h 28^M W$	U.T. $7^h 37^m - 7^h 57^m$	
6670	76 UP 20	$20^h 35.1^M$	-11.0°	U.T. AUG 3.34167	$1^h 10^M W$	U.T. $8^h 02^m - 8^h 22^m$	
6671	76 UH 16, 77 PY1	$21^h 26.0^M$	-1.0°	U.T. AUG 3.35972	$0^h 40^M W$	U.T. $8^h 28^m - 8^h 48^m$	
6672	76 UP 20	$20^h 35.1^M$	-11.0°	U.T. AUG 3.37708	$2^h 01^M W$	U.T. $8^h 53^m - 9^h 13^m$	
6673	76 UH 16, 77 PY1	$21^h 26.0^M$	-1.0°	U.T. AUG 3.39514	$1^h 31^m W$	U.T. $9^h 19^m - 9^h 39^m$	
6674	39 FY, 51 RL	$19^h 58.0^M$	-33.2°	U.T. AUG 04.21389	$1^h 18^M E$	U.T. $4^h 58^M - 5^h 18^m$	
6675	78SY2	$20^h 30.8^M$	-22.2°	U.T. AUG 4.23333	$1^h 24^M E$	U.T. $5^h 26^M - 5^h 46^M$	
6676	75 EE3	$20^h 40.9^M$	$+15.2^\circ$	U.T. AUG 4.25104	$1^h 11^M E$	U.T. $5^h 54^m - 6^h 09^m$	
6677	39 FY, 51 RL	$19^h 58.0^M$	-33.2°	U.T. AUG 4.26806	$0^h 00^M$	U.T. $6^h 16^m - 6^h 36^m$	
6678	78SY2	$20^h 30.8^M$	-22.2°	U.T. AUG 4.28542	$0^h 32^M E$	U.T. $6^h 41^m - 7^h 01^m$	
6679	75 EE3	$20^h 40.9^M$	$+15.2^\circ$	U.T. AUG 4.30174	$0^h 02^M W$	U.T. $7^h 07^m - 7^h 22^m$	
6680	B 238	$21^h 55.6^M$	-19.5°	U.T. AUG 5.27500	$1^h 45^M E$	U.T. $6^h 26^m - 6^h 46^m$	
6681	B 241	$21^h 52.3^M$	-29.9°	U.T. AUG 5.29306	$1^h 15^M E$	U.T. $6^h 52^m - 7^h 12^m$	
6682	B 238	$21^h 55.6^M$	-19.5°	U.T. AUG 5.31042	$0^h 55^m E$	U.T. $7^h 17^m - 7^h 37^m$	
6683	B 241	$21^h 52.3^M$	-29.9°	U.T. AUG 5.32778	$0^h 25^M E$	U.T. $7^h 42^m - 8^h 02^h$	
6684	B239, B 240	$22^h 21.9^M$	-23.4°	U.T. AUG 5.34514	$0^h 30^M E$	U.T. $8^h 07^m - 8^h 27^m$	
6685	" "	"	"	U.T. AUG 5.36181	$0^h 06^m E$	U.T. $8^h 31^m - 8^h 51^m$	
6686	81 QA	$20^h 22.9^M$	$+1.8^\circ$	U.T. AUG 26.27292	$1^h 08^M W$	U.T. $6^h 23^m - 6^h 43^m$	
6687	81 QA	"	"	U.T. AUG. 26.28958	$1^h 32^m W$	U.T. $6^h 47^m - 7^h 07^m$	
6688	73 QY1, B243, B259, B260, B 261.	$21^h 51.2^m$	-16.7°	U.T. AUG 26.30764	$0^h 30^m W$	U.T. $7^h 13^m - 7^h 33^m$	
6689	79 DE	$22^h 12.5^m$	-20.1°	U.T. AUG 26.32778	$0^h 38^M W$	U.T. $7^h 42^m - 8^h 02^m$	
6690	73 QY1, B243, B259, B260, B261	$21^h 52.2^m$	-16.7°	U.T. AUG 26.34653	$1^h 26^m W$	U.T. $8^h 09^m - 8^h 29^m$	
6691	79 DE	$22^h 12.5^m$	-20.1°	U.T. AUG 26.36528	$1^h 32^m W$	U.T. $8^h 36^m - 8^h 56^m$	

INST	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WRITING	SEEING TRANS.	SEEING STEAD	OBSV	REMARKS
13"	8X10	103aO	W	D19	5 min	68°	N	4	3	BAS	Some trouble keeping shutter open at start; guide error.
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	4	"	
"	"	"	"	"	"	"	"	"	"	"	field crowded with faint stars; guide star may be different.
"	"	"	"	"	"	"	"	3	"		
"	"	"	"	"	"	"	"	4	"		
"	"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	2	"		
"	"	"	"	"	"	"	"	3	"		Guide star is of Del Cirrus coming in from South
"	4X5	"	"	"	"	"	"	3	"	"	
"	8X10	"	"	"	"	"	"	2	"		more cloud
"	"	"	"	"	"	"	"	"	"		some cloud
"	4X5	"	"	"	"	"	"	4	3	"	
"	8X10	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	2	"		
"	"	"	"	"	"	"	"	"	"		
"	"	"	"	"	"	"	"	2	3	"	Drive motor breakdown 5h. Repaired but still rough
"	"	"	"	"	"	"	"	3	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	4X5	"	"	"	"	"	"	"	"	"	
"	8X10	"	"	"	"	"	"	"	"	"	
"	4X5	"	"	"	"	"	"				

NEG	OBJECT OR	POSITION		DATE	H.A.	EXPOSURE	W.E	INST	PLATE		telescope	DEVELOPMENT			WRITING	SEEING		OBSV	REMARKS
#	GUIDE	R.A.	DEC.	1981	END	MST-AM-PM			SIZE	TYPE	Position	KIND	TIME	TEMP		TRANS.	STEAD		
6692	Fast Moving Asteroid	$5^h 51.5^m$	+27°20'	Aug 25/26	3^h37^m E	UT 11^h19^m to 11^h25^m Aug 26.473611	wat	13"	8x10	103a O	W	D19	5^m	68°	N	Good	3	H.Giclas	Crescent Moon Moon + AM Twilight
6693	"	"	"	"	3^h11^m E	U.T. 11:46:00-11:52:00 Aug26.492361		"	"		"	"	"	"	"	"	"	"	
6694	39BF, B234, B250, B254	$19^h 47.4^M$	-19.1°	U.T. AUG 27.17917	0^h22^m E	U.T. $4^h03^m - 4^h33^m$		"	"	"	"	"	"	"	"	4	4	BAS	
6695	(1565), (2105)	$19^h 41.7^M$	+13.7°	U.T. AUG 27.20417	0^h17^m W	U.T. $4^h39^m - 5^h09^m$		"	"	"	"	"	"	"	"	"	"	"	
6696	" "	"	"	U.T. AUG. 27.22778	0^h51^m W	U.T. $5^h13^m - 5^h43^m$		"	"	"	"	"	"	"	"	"	"	"	Bad slip in dec. 2/3 of way through
6697	39BF, B234, B250, B254	$19^h 47.4^m$	-19.1°	U.T. AUG 27.25278	1^h24^m W	U.T. $5^h49^m - 6^h19^m$		"	"	"	"	"	"	"	"	"	"	"	
6698	B238, B244, B258	$21^h 23.0^M$	-21.5°	U.T. AUG 27.27361	0^h13^m W	U.T. $6^h24 - 6^h44^m$		"	"	"	"	"	"	"	"	"	"	"	
6699	B240, B245, B246	$22^h 03.7^m$	-28.0°	U.T. AUG 27.29097	0^h02^m E	U.T. $6^h49^m - 7^h09^m$		"	"	"	"	"	"	"	"	5	"	"	
6700	B238, B244, B258	$21^h 23.0^M$	-21.5°	U.T. AUG 27.30833	1^h03^m W	U.T. $7^h14^m - 7^h34^m$		"	"	"	"	"	"	"	"	"	"	"	
6701	B240, B245, B246	$22^h 03.7^M$	-28.0°	U.T. AUG 27.32500	0^h48^M W	U.T. $7^h38^m - 7^h58^m$		"	"	"	"	"	"	"	"	"	"	"	beautiful night
6702	81 QA	$20^h 27.6^M$	+1.6°	U.T. AUG 28.23750	0^h16^M W	U.T. $5^h37^m - 5^h47^m$		"	4x5	"	"	"	"	"	"	3	"	"	plate numbered 6701
6703	B248, B249, B253	$20^h 12.2^M$	-19.4°	U.T. AUG 28.25486	1^h01^M W	U.T. $5^h52^m - 6^h22^m$		"	8x10	"	"	"	"	"	"	"	"	"	some lightning from SW
6704	76UH16, B256, B257	$21^h 00.2^M$	-6.5°	U.T. AUG 28.27917	0^h53^m W	U.T. $6^h27^m - 6^h57^m$		"	"	"	"	"	"	"	"	"	"	"	
6705	76UH16, B256, B257	$21^h 00.2^M$	-6.5°	U.T. AUG 28.30278	1^h27^M W	U.T. $7^h01^m - 7^h31^m$		"	"	"	"	"	"	"	"	"	"	"	
6706	B248, B249, B253	$20^h 12.2^m$	-19.4°	U.T. AUG 28.32639	2^h44^M W	U.T. $7^h35^m - 8^h05^m$		"	"	"	"	"	"	"	"	"	3	"	Pretty low
6707	(395), 70AF1, B225	$19^h 04.0^M$	-16.2°	U.T. AUG 30.14549	0^h14^m E	U.T. $3^h13^m - 3^h46^m$		"	"	"	"	"	"	"	"	"	"	"	
6708	B235, B251	$20^h 05.4^M$	-8.2°	U.T. AUG 30.17083	0^h40^M E	U.T. $3^h51^m - 4^h21^m$		"	"	"	"	"	"	"	"	"	4	"	
6709	81 QA	$20^h 37.0^M$	-0.2°	U.T. AUG 30.18819	0^h57^M E	U.T. $4^h26^m - 4^h36^m$		"	4x5	"	"	"	"	"	"	4	"	"	
6710	B258, B262	$21^h 26.0^M$	-25.0°	U.T. AUG 30.20278	1^h20^M E	U.T. $4^h42^m - 5^h02^m$		"	8x10	"	"	"	"	"	"	"	"	"	
6711	(395), 70AF1, B225	$19^h 04.0^M$	-16.2°	U.T. AUG 30.22431	1^h38^M W	U.T. $5^h08^m - 5^h38^m$		"	"	"	"	"	"	"	"	"	"	"	
6712	B258, B262	$21^h 26.0^M$	-25.0°	U.T. AUG 30.24444	0^h20^M E	U.T. $5^h42^m - 6^h02^m$		"	"	"	"	"	"	"	"	"	"	"	
6713	B235, B251	$20^h 05.4$	-8.2°	U.T. AUG 30.26458	0^h35^m W	U.T. $6^h06^m - 6^h36^m$		"	"	"	"	"	"	"	"	"	"	"	
6714	B243, B259, B261	$21^h 48.4$	-17.8°	U.T. AUG 30.28542	0^h17^M W	U.T. $6^h41^m - 7^h01^m$		"	"	"	"	"	"	"	"	"	"	"	
6715	(975), 64TA1, 78CH	$23^h 02.2^m$	-12.2°	U.T. AUG 30.30278	0^h31^m E	U.T. $7^h06^m - 7^h26^m$		"	"	"	"	"	"	"	"	"	"	"	
6716	B243, B259, B261	$21^h 48.4^m$	-17.8°	U.T. AUG 30.32014	1^h07^m W	U.T. $7^h31^m - 7^h51^m$		"	"	"	"	"	"	"	"	"	"	"	
6717	(975), 64TA1, 78CH	$23^h 02.2^m$	-12.2°	U.T. AUG 30.33889	0^h20^m W	U.T. $7^h58^m - 8^h18^m$		"	"	"	"	"	"	"	"	"	"	ELG8	Plate # not on plate
6718	(1043)	$23^h 26.9^m$	-8.7	U.T. AUG 30.35903	0^h24^m W	U.T. $8^h27^m - 8^h47^m$		"	"	"	"	"	"	"	"	"	"	"	
6719	75NY, 76QG1, 77UQ	$0^h 05.9^M$	-2.2°	U.T. AUG 30.37917	0^h19^M W	U.T. $8^h51^m - 9^h21^m$		"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1981	H.A. END	EXPOSURE MST-AM-PM	W.E
6720	B38	$1^h40.1^M$	-5.1°	U.T. AUG 30.40278	$0^h41^M E$	U.T. $9^h25^m - 9^h55^m$	
6721	(1043)	$23^h26.9^M$	-8.7°	U.T. AUG 30.42361	$1^h57^M W$	U.T. $10^h00^m - 10^h20^m$	
6722	75NY, 76QG1, 77UQ	$0^h05.9^M$	-2.2°	U.T. AUG 30.44514	$1^h55^M W$	U.T. $10^h26^m - 10^h56^m$	
6723	B38	$1^h40.1^M$	-5.1°	U.T. AUG 30.46944	$0^h55^M W$	U.T. $11^h01^m - 11^h31^m$	
6724	81QA, B255, B256	$20^h57.6^M$	$+1.8^\circ$	U.T. AUG 31.21181	$0^h33^m E$	U.T. $4^h55^m - 5^h15^m$	
6725	B238, B244	$21^h21.5^M$	-19.7°	U.T. AUG 31.23056	$0^h31^M E$	U.T. $5^h22^m - 5^h42^m$	
6726	81QA, B255, B256	$20^h57.6^M$	$+1.8^\circ$	U.T. AUG. 31.24549	$0^h13^M W$	U.T. $5^h46^m - 6^h01^M$ *	
6727	(942), B228	$18^h52.1^M$	-29.8°	U.T. SEP 2.15625	$0^h22^m W$	U.T. $3^h30^m - 4^h00^m$	
6728	81QB	$21^h32.1^M$	-15.5°	U.T. SEP 2.20347	$1^h15^M E$	U.T. $4^h43^m - 5^h03^m$	
6729	81QB	$21^h32.1^M$	-15.5	U.T. SEP 2.22639	$0^h42^M E$	U.T. $5^h16^m - 5^h36^M$	
6730	(942), B228	$18^h52.1^M$	-29.8°	U.T. SEP 02.25903	$2^h51^M W$	U.T. $5^h57^m - 6^h29^m$	
6731	B248, B253	$19^h59.5^M$	-19.5°	U.T. SEP 03.14861	$0^h51^M E$	U.T. $3^h18^m - 3^h50^m$	
6732	81QA, B255, B256	$20^h54.0^M$	0.0.	U.T. SEP 03.18958	$0^h52^M E$	U.T. $4^h23^M - 4^h43^m$	
6733	B248, B253	$19^h59.5^M$	-19.5°	U.T. SEP 03.22083	$0^h52^M W$	U.T. $5^h03^m - 5^h33^m$	
6734	81QA, B255, B256	$20^h54.5^M$	0.0°	U.T. SEP. 03.24722	$0^h31^M W$	U.T. $5^h46^m - 6^h06^m$	
6735	B262 - B273	$23^h56.3^M$	-2.3°	U.T. SEP. 03.27083	$1^h57^m E$	U.T. $6^h20^m - 6^h40^m$	
6736	C/ HOWELL	$0^h35.1^m$	-8.0°	U.T. SEP. 03.29306	$2^h04^M E$	U.T. $6^h52^m - 7^h12^m$	
6737	B 262 - B 273	$23^h56.3^M$	-2.3°	U.T. SEP. 03.31389	$0^h55^m E$	U.T. $7^h22^m - 7^h42^m$	
6738	C / HOWELL	$0^h35.1^m$	-8.0°	U.T. SEP 03.33403	$1^h05^m E$	U.T. $7^h51^m - 8^h11^m$	
6739	81PG	$20^h34.3^M$	-14.9°	U.T. SEP 04.17431	$0^h52^m E$	U.T. $4^h01^m - 4^h21^m$	
6740	81PG	"	"	U.T. SEP 04.19444	$0^h26^m E$	U.T. $4^h29^m - 4^h51^m$	
6741	81QA, B257	$20^h53.3^M$	-5.5°	U.T. SEP 04.21944	0^h00^m	U.T. $5^h01^m - 5^h31^m$	
6742	" "	"	"	U.T. SEP 04.24236	$0^h30^m W$	U.T. $5^h37^m - 6^h01^m$	
6743	B241, B247	$21^h28.0^M$	-32.3°	U.T. SEP 07.29444	$1^h19^m W$	U.T. $6^h54^m - 7^h14^m$	
6744	(2161), 32BH	$1^h05.7^M$	-0.6°	U.T. SEP 07.31736	$1^h32^m E$	U.T. $7^h22^m - 7^h52^m$	
6745	B241, B247	$21^h28.0^M$	-32.3°	U.T. SEP 07.33819	$2^h21^m W$	U.T. $7^h57^m - 8^h17^m$	
6746	(2161), 76YX1	$1^h22.8^m$	$+8.5^\circ$	U.T. SEP. 07.35972	$0^h55^m E$	U.T. $8^h23^m - 8^h53^m$	
6747	(1991), 80KJ	$1^h32.7^M$	$+16.5^\circ$	U.T. SEP 07.38403	$0^h28^m E$	U.T. $8^h58^m - 9^h28^m$	

INST.	PLATE SIZE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
13"	8x10 103a-0	W	D19	5 min.	68°	N	4	4	ELGB	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	excellent night
"	" "	"	"	"	"	"	3	"	"	
"	" "	"	"	"	"	"	"	"	"	clouds to south
"	" "	"	"	"	"	"	"	"	"	exposure stopped by clouds ~ 6^h01^m * Approximate
"	" "	"	"	"	"	"	4	"	NGT.	
"	" "	"	"	"	"	"	"	"	NGT: ELGB	some clouds. Driven $v = 33.2''$, $\theta = 190^\circ$
"	" "	"	"	"	"	"	"	"	"	Driven as above, clouds gone
"	" "	"	"	"	"	"	"	"	NGT	Some cloud.
"	" "	"	"	"	"	"	3	"		
"	" "	"	"	"	"	"	4	"		
"	" "	"	"	"	"	"	"	"		
"	" "	"	"	"	"	"	"	"		
"	" "	"	"	"	"	"	"	"		
"	" "	"	"	"	"	"	"	"		
"	" "	"	"	"	"	"	3	3		
"	" "	"	"	"	"	"	"	"		
"	" "	"	"	"	"	"	3→0	"	"	some clouds $5^h11 - 5^h21$
"	" "	"	"	"	"	"	3	"	"	some clouds $05^h48 \rightarrow 05^h54^m$
"	" "	"	"	"	"	"	"	"	BAS	
"	" "	"	"	"	"	"	"	"		
"	" "	"	"	"	"	"	"	"		
"	" "	"	"	"	"	"	4	4		
"	" "	"	"	"	"	"	"	"		

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1981	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST	PLATE SIZE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS	SEEING STEAD	OBSV	REMARKS
6748	(2161), 32BH	$1^h05.7^m$	$-0.6°$	U.T. SEP 07.41181	0^h44^m W	U.T. $9^h38^m - 10^h08^m$		13"	8x10 103a0	W	D19	5^{min}	68°	N	4	4	BAS	guide telescope fogging objective fogged - dabbed several times during exposure
6749	(2161), 76YX1	$1^h22.8^m$	$+8.5°$	U.T. SEP 07.43681	1^h05^m W	U.T. $10^h14^m - 10^h44^m$		"	" "	"	"	"	"	"	"	"	"	same problem as above.
6750	(1991), 80KJ	$1^h32.7^m$	$+16.5°$	U.T. SEP 07.46285	1^h15^m W	U.T. $10^h51^m - 11^h22^m$		"	" "	"	"	"	"	"	"	"	"	same guide star as P6749
6751	Comet suspect	$1^h58.0^m$	$+30.0°$	U.T. SEP 10.42917	0^h17^m W	U.T. $10^h08^m - 10^h28^m$		"	" "	"	"	"	"	"	"	3	"	
6752	"	"	"	U.T. SEP 10.45486	0^h54^m W	U.T. $10^h45^m - 11^h05^m$		"	" "	"	"	"	"	"	"	"	"	
6753	C/Howell	$0^h19.0^m$	$-9.2°$	U.T. SEP 22.21424	2^h28^m E	U.T. $5^h01^m - 5^h16^m$		"	4x5 "	"	"	"	"	"	5	4	"	
6754	C/STÄTTMAYER	$1^h40.8^m$	$+39.7°$	U.T. SEP 22.22917	3^h29^m E	U.T. $5^h25^m - 5^h35^m$		"	" "	"	"	"	"	"	"	"	"	
6755	T3, T14	$20^h15.0^m$	$-15.7°$	U.T. SEP 25.12153	0^h20^m E	U.T. $2^h40^m - 3^h10^m$		"	8x10 "	"	"	"	"	"	"	3	"	seeing improvement during exposure
6756	B255, B256	$20^h47.0^m$	$-2.6°$	U.T. SEP 25.14167	0^h27^m E	U.T. $3^h14^m - 3^h34^m$		"	" "	"	"	"	"	"	"	4	"	
6757	B244, T39	$20^h55.7^m$	$-13.1°$	U.T. SEP 25.16181	0^h02^m E	U.T. $3^h38^m - 4^h08^m$		"	" "	"	"	"	"	"	"	"	"	
6758	B 238, B 261	$21^h28.6^m$	$-24.6°$	U.T. SEP. 25.18611	0^h00^m	U.T. $4^h13^m - 4^h43^m$		"	" "	"	"	"	"	"	"	"	"	
6759	T3, T14	$20^h15.0^m$	$-15.7°$	U.T. SEP. 25.20972	1^h47^m W	U.T. $4^h47^m - 5^h17^m$		"	" "	"	"	"	"	"	"	"	"	
6760	B255, B256	$20^h47.0^m$	$-2.6°$	U.T. SEP 25.23056	1^h41^m W	U.T. $5^h22^m - 5^h42^m$		"	" "	"	"	"	"	"	"	"	"	breezy
6761	B244, T39	$20^h55.7^m$	$-13.1°$	U.T. SEP 25.25069	2^h06^m W	U.T. $5^h46^m - 6^h16^m$		"	" "	"	"	"	"	"	"	3	"	a little low
6762	B238, B261	$21^h28.6^m$	$-24.6°$	U.T. SEP 25.27431	2^h13^m W	U.T. $6^h20^m - 6^h50^m$		"	" "	"	"	"	"	"	"	4	"	
6763	B 262, etc.	$23^h45.0^m$	$-0.8°$	U.T. SEP 25.29514	0^h16^m W	U.T. $6^h55^m - 7^h15^m$		"	" "	"	"	"	"	"	"	"	"	
6764	B 263, etc	$0^h02.4^m$	$-4.3°$	U.T. SEP 25.31250	0^h25^m W	U.T. $7^h20^m - 7^h40^m$		"	" "	"	"	"	"	"	"	"	"	
6765	B 262, etc.	$23^h45.0^m$	$-0.8°$	U.T. SEP 25.32917	1^h06^m W	U.T. $7^h44^m - 8^h04^m$		"	" "	"	"	"	"	"	2	"	"	* Not same guide star. Dec off ~1"? Some cloud
6766	B 263, etc	$0^h02.4^m$	$-4.3°$*	U.T. SEP 25.35069	1^h30^m W	U.T. $8^h15^m - 8^h35^m$		"	" "	"	"	"	"	"	4	4	"	
6767	B235, B271- B280	$22^h37.3^m$	$-13.6°$	U.T. SEP. 26.17507	1^h20^m E	U.T. $3^h57^m06^s - 4^h27^m06^s$		"	" "	"	"	"	"	"	"	"	"	Guide star faint
6768	B281, B286	$23^h03.2^m$	$-9.8°$	U.T. SEP. 26.19931	1^h26^m E	U.T. $4^h32^m - 5^h02^m$		"	" "	"	"	"	"	"	"	"	"	
6769	B 263, etc.	$0^h01.8^m$	$-4.2°$	U.T. SEP 26.22014	1^h44^m E	U.T. $5^h07^m - 5^h27^m$		"	" "	"	"	"	"	"	"	"	"	
6770	B235, B271-B280	$22^h37.3^m$	$-13.6°$	U.T. SEP 26.24097	0^h15^m W	U.T. $5^h32^m - 6^h02^m$		"	" "	"	"	"	"	"	"	"	"	
6771	B 281 - B 286	$23^h03.2^m$	$-9.8°$	U.T. SEP 26.26458	0^h09^m W	U.T. $6^h06^m - 6^h36^m$		"	" "	"	"	"	"	"	5	"	"	
6772	B 263, etc.	$0^h01.8^m$	$-4.2°$	U.T. SEP 26.28479	0^h11^m E	U.T. $6^h40^m06^s - 7^h00^m06^s$		"	" "	"	"	"	"	"	"	"	"	
6773	T10, T11	$0^h17.1^m$	$-9.3°$	U.T. SEP 26.30208	0^h01^m E	U.T. $7^h05^m - 7^h25^m$		"	" "	"	"	"	"	"	"	"	"	
6774	(2162), 64Vy, 76YX1	$1^h12.2^m$	$+5.0°$	U.T. SEP. 26.31944	0^h30^m E	U.T. $7^h30^m - 7^h50^m$		"	" "	"	"	"	"	"	"	"	"	
6775	T10, T11	$0^h17.1^m$	$-9.3°$	U.T. SEP. 26.~~34944~~ .33681	0^h50^m W	U.T. $7^h55^m - 8^h15^m$		"	" "	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1981	H.A. END	EXPOSURE	INST.	PLATE SIZE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
6776	(2162), 64VY1, 76YX1	$1^h12.2^M$	$+5.0°$	U.T. SEP 26.35417	$0^h20^m W$	U.T. $8^h20^m - 8^h40^m$	13"	8x10 103a-0	W	D19	5^{MIN}	68°	N	5	4	BAS	
6777	B49	$4^h34.9^M$	$-4.9°$	U.T. SEP 28.39861	$1^h47^m E$	U.T. $9^h19^m - 9^h49^m$	"	"	"	"	"	"	"	"	"	"	Guide star faint
6778	B38, B270	$1^h28.0^M$	$-7.9°$	U.T. SEP. 28.42014	$1^h45^m W$	U.T. $9^h55^m - 10^h15^m$	"	"	"	"	"	"	"	"	"	"	
6779	B38, B270	"	"	U.T. SEP 28.45486	$2^h35^m W$	U.T. $10^h45^m - 11^h05^m$	"	"	"	"	"	"	"	3	"		
6780	B49	$4^h34.9^M$	$-4.9°$	U.T. SEP 28.47500	$0^h03^m W$	U.T. $11^h09^m - 11^h39^m$	"	"	"	"	"	"	"	4	"	"	mat same guide star but in same guidescope field
6781	T3, T14	$20^h15.9^M$	$-15.8°$	U.T. OCT 04.21806	$2^h36^m W$	U.T. $4^h59^m - 5^h29^m$	"	"	"	"	"	"	"	4	"	"	
6782	B235, B271-B280	$22^h33.5^M$	$-13.7°$	U.T. OCT 04.24375	$0^h55^m W$	U.T. $5^h36^m - 6^h06^m$	"	"	"	"	"	"	"	"	"	"	
6783	T3, T14	$20^h15.9^M$	$-15.8°$	U.T. OCT 04.26806	$3^h48^m W$	U.T. $6^h11^m - 6^h41^m$	"	"	"	"	"	"	"	3	"		mat same guide star, but close. Pretty Low.
6784	B281 - B286	$22^h58.1^M$	$-10.5°$	U.T. OCT 04.29236	$1^h40^m W$	U.T. $6^h46^m - 7^h16^m$	"	"	"	"	"	"	"	4	"		
6785	B235, B271-B280	$22^h33.5$	$-13.7°$	U.T. OCT 04.31667	$2^h40^m W$	U.T. $7^h21^m - 7^h51^m$	"	"	"	"	"	"	"	3	"		
6786	B281, -B286	$22^h58.1$	$-10.5°$	U.T. OCT 04.34028	$2^h49^m W$	U.T. $7^h55^m - 8^h25^m$	"	"	"	"	"	"	"	"	4	"	
6787	(2162), 64VY, 76YX1	$1^h04.1^M$	$+3.9°$	U.T. OCT 04.36042	$1^h09^m W$	U.T. $8^h29^m - 8^h49^m$	"	"	"	"	"	"	"	"	"	"	
6788	B38, B270	$1^h23.5^M$	$-7.2°$	U.T. OCT 04.37778	$1^h14^m W$	U.T. $8^h54^m - 9^h14^m$	"	"	"	"	"	"	"	4	4	"	
6789	(2162), 64VY, 76YX1	$1^h04.1^M$	$+3.9°$	U.T. OCT 04.39514	$2^h00^m W$	U.T. $9^h19^m - 9^h39^m$	"	"	"	"	"	"	"	"	"	"	
6790	B38, B270	$1^h23.5^M$	$-7.2°$	U.T. OCT 04.41181	$2^h04^m W$	U.T. $9^h43^m - 10^h03^m$	"	"	"	"	"	"	"	3	3	"	
6791	B262, etc.	$23^h35.5^M$	$-1.3°$	U.T. OCT 05.30833	$1^h20^m W$	U.T. $7^h09^m - 7^h39^m$	"	"	"	"	"	"	"	4	"	"	
6792	B263, B267, T47	$23^h53.0^M$	$-4.8°$	U.T. OCT 05.32917	$1^h33^m W$	U.T. $7^h44^m - 8^h04^m$	"	"	"	"	"	"	"	"	"	"	
6793	B262	$23^h35.5^M$	$-1.3°$	U.T. OCT 05.34931	$2^h20^m W$	U.T. $8^h08^m - 8^h38^m$	"	"	"	"	"	"	"	"	"	"	
6794	B263, B267, T47	$23^h53.0$	$-4.8°$	U.T. OCT 05.37014	$2^h33^m W$	U.T. $8^h43^m - 9^h03^m$	"	"	"	"	"	"	"	"	"	"	
6795	B49	$4^h36.0^M$	$-6.2°$	U.T. OCT 05.38889	$1^h38^m E$	U.T. $9^h10^m - 9^h30^m$	"	"	"	"	"	"	"	4	"		
6796	B49	"	"	U.T. OCT 05.42569	$0^h45^m E$	U.T. $10^h03^m - 10^h23^m$	"	"	"	"	"	"	4	3-4	2-3	NGT	
6797	52 Eur. Field	$7^h58.0$	$+19°10'$	U.T. OCT 7.44583	$3^h32^m E$	U.T. $10^h32^m 00 - 10^h52^m 00^s$	"	"	"	"	"	"	"	"	"	"	
6798	52 Eur. Field	$8^h22.0$	$+18°30'$	U.T. OCT 7.46667	$3^h25^m E$	U.T. $11^h02\ 00^M - 11^h22^m 00$	"	"	"	"	"	"	"	"	"	"	
6799	O.C. Major Field Test field 14x17 bx	6^h52	$-24°8'$	U.T. OCT 7.49392	1^h15E	U.T. 11:30 - 11:45 & 12:00 - 12:10	"	14x17 103a-0	W	"	"	"	"	"	"	"	
6800	451 Patientia	18^h15^m	$-29°$	U.T. OCT 19.10000	$2^h40^m W$	U.T. $02^h14^m 00 - 2^h34^m 00$	"	"	"	"	"	"	"	4	3	"	
6801	511 Davida field	18^h54	$-26°$	U.T. OCT 19.12153	$2^h32^m W$	U.T. $02^h45^m 00 - 3^h05^m 00$	"	"	"	"	"	"	"	"	"	"	
6802	65 Cybele field	20^h32^m	$-17°$	U.T. OCT 19.14306	$1^h24^m W$	U.T. $3^h16^m 00 - 3^h36^m 00$	"	"	"	"	"	"	"	4	3-4	"	
6803	1 Ceres field	21^h34^m	$-28°$	U.T. OCT 19.16528	$0^h55^m W$	U.T. $3^h48^m 00 - 4^h08^m 00$	"	"	"	"	"	"	"	3	"		

NEG	OBJECT OR GUIDE	Position R.A.	DEC	DATE 1981	H.A. END	EXPOSURE U.T.
6804	1 Ceres field	22^h03^m	$-24°10'$	U.T. OCT 19.18681	0^h58^m W	U.T. $4^h19^m00 - 4^h39^m00$
6805	451 Patientia field	18^h36^m	$-28°$	U.T. OCT 20.09861	2^h19^m W	U.T. $2^h12^m00^s - 2^h32^m00$
6806	511 Davida field	19^h12^m	$-22°$	U.T. OCT 20.12014	2^h13^m W	U.T. $2^h43^m00 - 3^h03^m00$
6807	511 Davida field	19^h30^m	$-19°30'$	U.T. OCT 20.13889	2^h23^m W	U.T. $3^h10^m00 - 3^h30^m00$
6808	1 Ceres field	21^h46^m	$-22°45'$	U.T. OCT 20.16042	0^h38^m W	U.T. $3^h41^m00 - 4^h01^m00$
6809	451 Patientia field	18^h52^m	$-23°$	U.T OCT 23.08681	1^h59 W	U.T. $1^h55^m00 - 2^h15^m00$
6810	65 Cybele field	$20^h06.5$	$-18°30'$	U.T OCT 23.11250	1^h24 W	U.T $2^h32^m00 - 2^h52^m00$
6811	ST2, ST5, ST6, ST8-ST10, T12, T13, T42	$0^h34.4^m$	$+1°.9$	U.T. NOV 02.11458	2^h19^m E	U.T. $2^h30^m - 3^h00^m$
6812	ST2, ST-4, ST7, T5, T9, T12, T13, T42	$0^h47.2^m$	$+4°.3$	U.T. NOV 02.13819	1^h57^m E	U.T. $3^h04 - 3^h34^m$
6813	ST2, ST5, ST6, ST8, ST9, ST10, T12, T13, T42	$0^h34.4^m$	$+1°.9$	U.T. NOV 02.16250	1^h09^m E	U.T. $3^h39^m - 4^h09^m$
6814	ST2 - ST4, ST7, T5, T9, T12, T13, T42	$0^h47.2^m$	$+4°.3$	U.T. NOV 02.18611	0^h48^m E	U.T. $4^h13^m - 4^h43^m$
6815	ST2 - ST4, ST7, T5, T9, T12, T13, T42	$0^h47.2^m$	$+4°.3$	U.T. NOV 02.22847	0^h13^m W	U.T. $5^h14^m - 5^h44^m$
6816	OPPOSITION FIELD	$2^h28.2^m$	$+14°.0$	U.T. NOV 02.25208	0^h54^m E	U.T. $5^h48^m - 6^h18^m$
6817	(2291), T43	$4^h24.0^m$	$-7°.8$	U.T. NOV 02.27708	2^h14^m E	U.T. $6^h24^m - 6^h54^m$
6818	OPPOSITION FIELD	$2^h28.2^m$	$+14°.0$	U.T. NOV 02.30139	0^h17^m W	U.T. $6^h59^m - 7^h29^m$
6819	(2291), T43	$4^h24.0^m$	$-7°.8$	U.T. NOV 02.32569	1^h04^m E	U.T. $7^h34^m - 8^h04^m$
6820	T46	$22^h45.0^m$	$-15°.0$	U.T. NOV 03.08715	1^h13^m E	U.T. $1^h58^m - 2^h13^m$
6821	T46	$22^h45.0^m$	$-15°.0$	U.T. NOV 03.09965	0^h55^m E	U.T. $2^h16^m - 2^h31^m$
6822	S10 - S25	$2^h26.3^m$	$+13°.6$	U.T. NOV 05.30972	0^h44^m W	U.T. $7^h11^m - 7^h41^m$
6823	S10 - S25	"	"	U.T. NOV 05.35417	1^h48^m W	U.T. $8^h15^m - 8^h45^m$
6824	81 VA	$2^h42.0^m$	$+47°.9$	U.T. NOV 08.42188	3^h13^m W	U.T. $10^h00^m - 10^h15^m$
6825	"	"	"	U.T. NOV 08.43576	3^h33^m W	U.T. $10^h20^m - 10^h35^m$
6826	ST2, ST3, ST6, ST7	$0^h34.4$	$+2°.0$	U.T. NOV 20.12292	0^h55^m E	U.T. $2^h42^m - 3^h12^m$
6827	B289, S21 - S25	$2^h09.2^m$	$+8°.2$	U.T. NOV 20.14931	1^h52^m E	U.T. $3^h20^m - 3^h50^m$
6828	ST2, ST3, ST6, ST7	$0^h34.4^m$	$+2°.0$	U.T. NOV 20.17361	0^h18^m W	U.T. $3^h55^m - 4^h25^m$
6829	B289, S21 - S25	$2^h09.2^m$	$+8°.2$	U.T. NOV 20.19792	0^h42^m E	U.T. $4^h30^m - 5^h00^m$
6830	B228, S10 - S14, S18	$2^h14.4^m$	$+15.5$	U.T. NOV 24.12847	2^h12^m E	U.T. $2^h50^m - 3^h20^m$
6831	(1484), 75VD2, 80LH, 80LO, B56	$3^h23.0^m$	$+13°.8$	U.T. NOV. 24.14931	2^h55^m E	U.T. $3^h25^m - 3^h45^m$

INST	PLATE SIZE	PLATE TYPE	telescope Position	Development Kind	Development TIME	Development Temp.	WR. TIMES	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
13"	8x10	103aO	W	D19	5 MIN	68°	N	4	3	NGT	
"	8x10	103aO	"	"	"	"	"	3-4	3	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	5	4	BAS	Moonlight but little scattered light plate upside down. Moon Light
"	"	"	"	"	"	"	"	"	"	"	Moonset 4^h06^m
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	3	"	
"	"	"	"	"	"	"	"	"	4	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	3	"	Moonlight
"	"	"	"	"	"	"	"	"	"	"	Moonlight Clouds around, but clear field.
"	"	"	"	"	"	"	"	4	4	"	
"	"	"	"	"	"	"	"	"	"	"	
"	4x5	"	"	"	"	"	"	3	"	"	Moon set 9^h56^m
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	4	"	"	
"	8x10	103aO	"	"	"	"	"	"	"	"	Poorly guided
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	8x10	103aO	"	"	"	"	"	"	3	"	
"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1981	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
6832	B288, S10-S14, S18	$2^h14.4^m$	+15.5	U.T. NOV 24.17014	1^h12^mE	U.T. 3^h50^m-4^h20^m	/	13"	8x10	103aO	W	D19	5 MIN	68°	N	4	4	BAS	
6833	(1484), 75VD2, 80LM, 80LO, B56	$3^h23.0^m$	+13.°8	U.T. NOV 24.19097	1^h55^mE	U.T. 4^h25^m-4^h45^m		"	"	"	"	"	"	"	"	3	"	"	
6834	(1723), 76WB1	$3^h38.5^m$	+3.°8	U.T. NOV 24.20764	1^h46^mE	U.T. 4^h49^m-5^h09^m		"	"	"	"	"	"	"	"	4	"	"	
6835	T43	$3^h58.5^m$	-9.°5	U.T. NOV 24.22500	1^h43^mE	U.T. 5^h14^m-5^h34^m		"	"	"	"	"	"	"	"	"	"	"	
6836	(1723), 76WB1	$3^h38.5^m$	+13.°8	U.T. NOV 24.24236	0^h56^mE	U.T. 5^h39^m-5^h59^m		"	"	"	"	"	"	"	"	"	"	"	
6837	T43	$3^h58.5^m$	-9.°5	U.T. NOV 24.25903	0^h53^mE	U.T. 6^h03^m-6^h23^m		"	"	"	"	"	"	"	"	"	"	"	NGC 1778 N. of center
6838	B90	$5^h00.2^m$	+36.°4	U.T. NOV 24.27639	1^h29^mE	U.T. 6^h28-6^h48^m		"	"	"	"	"	"	"	"	"	"	"	
6839	79 FR2, B53	$5^h57.6^m$	+25.°5	U.T. NOV 24.29444	2^h01^mE	U.T. 6^h54^m-7^h14^m		"	"	"	"	"	"	"	"	"	"	"	
6840	B90	$5^h00.2^m$	+36.°4	U.T. NOV 24.31181	0^h39^mE	U.T. 7^h19^m-7^h39^m		"	"	"	"	"	"	"	"	"	"	"	
6841	79 FR2, B53	$5^h57.6^m$	+25.°5	U.T. NOV 24.32917	1^h11^mE	U.T. 7^h44^m-8^h04^m		"	"	"	"	"	"	"	"	"	"	"	
6842	B47, B65	$7^h05.4^m$	+23.°8	U.T. NOV 24.35000	1^h43^mE	U.T. 8^h09^m-8^h39^m		"	"	"	"	"	"	"	"	"	"	"	
6843	B81	$7^h13.8^m$	+40.°8	U.T. NOV 24.37500	1^h15^mE	U.T. 8^h45^m-9^h15^m		"	"	"	"	"	"	"	"	"	"	"	
6844	B47, B65	$7^h05.4^m$	+23.°8	U.T. NOV 24.40069	0^h30^mE	U.T. 9^h22^m-9^h52^m		"	"	"	"	"	"	"	"	"	"	"	
6845	B81	$7^h13.8^m$	+40.°8	U.T. NOV 24.42569	0^h02^mE	U.T. 9^h58^m-10^h28^m		"	"	"	"	"	"	"	"	"	2	"	Moonlight
6846	B289-B297, S21-S25	$2^h03.2^m$	+7.°3	U.T. DEC 02.15139	0^h56^mE	U.T. 3^h23^m-3^h53^m		"	"	"	"	"	"	"	"	"	"	"	Moonset 4^h40^m
6847	B288, B298-B301 S10-S15, S18	$2^h11.1^m$	+15.°6	U.T. DEC 02.18021	0^h14^mE	U.T. 3^h57^m-4^h42^m		"	"	"	"	"	"	"	"	"	4	"	
6848	B289-B297, S21-S25	$2^h03.2^m$	+7.°3	U.T. DEC 02.20903	0^h28^mW	U.T. 4^h46^m-5^h16^m		"	"	"	"	"	"	"	"	"	"	"	
6849	B288, 298-B301, S10-S15, S18	$2^h11.1^m$	+15.°6	U.T. DEC 02.23785	1^h09^mW	U.T. 5^h20^m-6^h05^m		"	"	"	"	"	"	"	"	"	3	"	
6850	B302-B316	$3^h15.7^m$	+14.°0	U.T. DEC 02.26319	0^h29^mW	U.T. 6^h09^m-6^h29^m		"	"	"	"	"	"	"	"	4→2	"	"	light cirrus
6851	B317-B321	$3^h31.9^m$	+3.°5	U.T. DEC 02.27986	0^h37^mW	U.T. 6^h33^m-6^h53^m		"	"	"	"	"	"	"	"	2	3	"	
6852	B302-B316	$3^h15.7^m$	+14.°0	U.T. DEC 02.29653	1^h17^mW	U.T. 6^h57^m-7^h17^m		"	"	"	"	"	"	"	"	3	"	"	
6853	B317-B321	$3^h31.9^m$	+3.°5	U.T. DEC 02.31319	1^h25^mW	U.T. 7^h21^m-7^h41^m		"	"	"	"	"	"	"	"	4	"	"	
6854	79 FR2, B53	$5^h50.7^m$	+25.°5	U.T. DEC 02.34444	0^h07^mE	U.T. 8^h06^m-8^h26^m		"	"	"	"	"	"	"	"	"	"	"	
6855	79 FR2, B53	$5^h50.7^m$	+25.°5	U.T. DEC 02.36667	0^h23^mW	U.T. 8^h38^m-8^h58^m		"	"	"	"	"	"	"	"	"	4	"	strong Moonlight
6856	B329	$3^h33.7^m$	+8.°8	U.T. DEC 06.22153	0^h40^mE	U.T. 5^h14^m-5^h24^m		"	4x5	"	"	"	"	"	"	"	"	"	
6857	B329	"	"	U.T. DEC 06.23056	0^h27^mE	U.T. 5^h27^m-5^h37^m		"	"	"	"	"	"	"	"	2	"	"	Cirrus
6858	B300, B326-B328	$2^h13.0^m$	+15.°2	U.T. DEC 18.10972	1^h03^mE	U.T. 2^h23^m-2^h53^m		"	8x10	"	"	"	"	"	"	"	"	"	
6859	B297	$2^h16.2^m$	+6.°6	U.T. DEC 18.13472	0^h30^mE	U.T. 2^h59^m-3^h29^m			"	"	"	"	"						

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1981/82	H.A. END	EXPOSURE MST-AM-PM	W.E
6860	B 314, B 317	3^h14^m2	+5.°7	U.T. DEC 18.15972	0^h51^m E	U.T. 3^h35^m - 4^h05^m	
6861	B300, B326 - B328	$2^h13^m.0$	+15.2	U.T. DEC 18.18542	0^h46^m W	U.T. 4^h12^m - 4^h42^m	
6862	B 297	$2^h16^m.2$	+6.°6	U.T. DEC 18.20903	1^h37^m W	U.T. 4^h46^m - 5^h16^m	
6863	B314, B317	$3^h14^m.2$	+5.°7	U.T. DEC 18.23264	0^h54^m W	U.T. 5^h20^m - 5^h50^m	
6864	B302, B303, B305, B307, B309 B310, B312, B313, B315, B329	$3^h05.2$	+14.°3	U.T. DEC 20.17153	0^h19^m E	U.T. 3^h52^m - 4^h22^m	
6865	(560)	$4^h39^m.3$	+15.°6	U.T. DEC. 20.19444	1^h24^m E	U.T. 4^h30^m - 4^h50^m	
6866	B330-B332, B334	$5^h39^m.8$	+27.°2	U.T. DEC. 20.22569	1^h39^m E	U.T. 5^h15^m - 5^h35^m	
6867	(560)	$4^h39^m.3$	+15.°6	U.T. DEC 20.24236	0^h15^m E	U.T. 5^h39^m - 5^h59^m	
6868	B302, B303, B305-B307, B309, B310, B312, B313, B315, B329.	$3^h05.2$	+14.°3	U.T. DEC 20.26319	1^h53^m W	U.T. 6^h04^m - 6^h34^m	
6869	B330-B332, B334	$5^h39^m.8$	+27.2	U.T. DEC 20.30000	0^h08^m W	U.T. 7^h02^m - 7^h22^m	
6870	(730), B323 - B325	$6^h41^m.7$	+22.°3	U.T. DEC 20.31667	0^h30^m E	U.T. 7^h26^m - 7^h46^m	
6871	B58, B96	$7^h34^m.4$	+41.°6	U.T. DEC 20.3333	0^h59^m E	U.T. 7^h50^m - 8^h10^m	
6872	(730), B323-B325	$6^h41^m.7$	+22.°3	U.T. DEC 20.35000	0^h18^m W	U.T. 8^h14^m - 8^h34^m	
6873	B58, B96	$7^h34^m.4$	+41.°6	U.T. DEC. 20.36667	0^h10^m E	U.T. 8^h38^m - 8^h58^m	
6874	B41, B54	$7^h42^m.4$	+14.0	U.T. DEC 20.38403	0^h07^m W	U.T. 9^h03^m - 9^h23	
6875	B41, B54	$7^h42^m.4$	+14.°0	U.T. DEC. 20.40069	0^h31^m W	U.T. 9^h27^m - 9^h47^m	
6876	B300, B326 - B328	$2^h17^m.2$	+16.°2	U.T. DEC. 30.08785	0^h51^m E	U.T. 1^h51^m - 2^h22^m	
6877	B302, B303, B305, B307, B309 B310, B312, B313, B315, B329 B343, B344	$3^h07.3$	+13.°6	U.T. DEC 30.11181	1^h07^m E	U.T. 2^h26^m - 2^h56^m	
6878	B330-B332, B334	$5^h29^m.5$	+27.°2	U.T. DEC 30.13264	3^h05^m	U.T. 3^h01^m - 3^h21^m	
6879	B300, B326-B328	$2^h17^m.2$	+16.°2	U.T. DEC 30.15347	0^h43^m W	U.T. 3^h26^m - 3^h56^m	
6880	B302, B303, B305, B307, B309, B310, B312, B313, B315, B329, B343, B344	$3^h07.3$	+13.°6	U.T. DEC 30.17708	0^h27^m W	U.T. 4^h00^m - 4^h30^m	
6881	B330-B332, B334	$5^h29^m.5$	+27.°2	U.T. DEC 30.19722	1^h32^m E	U.T. 4^h34^m - 4^h54^m	
6882	(532), AGK +26° 972	$8^h55^m.5$	+26.°3	U.T. Jan 14.39479	0^h37^m W	U.T. 9^h28^m - 9^h29^m	
6883	"	"	"	U.T. Jan 14.40174	0^h47^m W	U.T. 9^h38^m - 9^h39^m	
6884	"	"	"	U.T. Jan 14.40729	0^h55^m W	U.T. 9^h46^m - 9^h47^m	
6885	"	"	"	U.T. Jan 14.41424	1^h04^m W	U.T. 9^h56^m - 9^h57^m	
6886	B302, B309, B312, B343, B344	$3^h11^m.3$	+12.°9	U.T. Jan 16.09028	0^h36^m E	U.T. 1^h55^m - 2^h25^m	
6887	B330, B351	$5^h06^m.9$	+26.°6	U.T. Jan 16.11389	1^h56^m E	U.T. 2^h29^m - 2^h59^m	

INST.	PLATE SIZE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WAITING	SEEING TRANS.	SEEING STEAD	OBSV	REMARKS
13"	8x10 103a-0	W	D19	5 min.	68°	N	2	4	BAS	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	4	"	"	
"	4x5 "	"	"	"	"	"	"	"	"	near 0,0' 2" Tau
"	" "	"	"	"	"	"	"	"	"	
"	4x5 "	"	"	"	"	"	"	"	"	
"	8x10 "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	Cirrus ?
"	" "	"	"	"	"	"	3	"	"	SOME cirrus
"	" "	"	"	"	"	"	"	"	"	thicker
"	" "	"	"	"	"	"	2	"	"	
"	" "	"	"	"	"	"	"	"	"	too cloudy
"	" "	"	"	"	"	"	3	"	"	cirrus, moonlight, breezy
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	3	"	"	
"	" "	"	"	"	"	"	"	"	"	Moonset 3^h32^m. seeing deteriorating.
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	4	4	NGT	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	3	BAS		scattered very thin clouds during twilight
"	" "	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1982	H.A. END	EXPOSURE MST- AM-PM	W.E
6888	B302, B309, B312, B343, B344	$3^h 11.3^m$	$+12.9^\circ$	U.T. Jan. 16.14861	$0^h 48^m W$	U.T. $3^h 19^m - 3^h 49^m$	
6889	78PA, 80TF	$5^h 43.8^m$	$+17.8^\circ$	U.T. Jan 16.17257	$1^h 09^m E$	U.T. $3^h 53^m - 4^h 24^m$	
6890	B330, B351	$5^h 06.9^m$	$+26.6^\circ$	U.T. Jan 16.19653	$0^h 04^m W$	U.T. $4^h 28^m - 4^h 58^m$	
6891	78PA, 80TF	$5^h 43.8^m$	$+17.8^\circ$	U.T. Jan 16.22014	$0^h 01^m E$	U.T. $5^h 02^m - 5^h 32^m$	
6892	80 PE	$6^h 56.4^m$	$+40.2^\circ$	U.T. Jan 16.24028	$0^h 50^m E$	U.T. $5^h 36^m - 5^h 56^m$	
6893	74 QL, 80LB	$7^h 03.4^m$	$+26.1^\circ$	U.T. Jan 16.25764	$0^h 32^m E$	U.T. $6^h 01^m - 6^h 21^m$	
6894	80 PG	$6^h 56.4^m$	$+40.2^\circ$	U.T. Jan 16.27431	$0^h 01^m E$	U.T. $6^h 25^m - 6^h 45^m$	
6895	74QL, 80LB	$7^h 03.4^m$	$+26.1^\circ$	U.T. Jan 16.29167	$0^h 17^m W$	U.T. $6^h 50^m - 7^h 10^m$	
6896	79 PB, 80T05	$7^h 55.0^m$	$+8.7^\circ$	U.T. Jan 18.25764	$1^h 15^m E$	U.T. $6^h 01^m - 6^h 21^m$	
6897	75 VW3	$7^h 57.2^m$	$+34.9^\circ$	U.T. Jan 18.27431	$0^h 52^m E$	U.T. $6^h 25^m - 6^h 45^m$	
6898	79 PB, 80T05	$7^h 55.0^m$	$+8.7^\circ$	U.T. Jan 18.29097	$0^h 27^m E$	U.T. $6^h 49^m - 7^h 09^m$	
6899	75 VW3	$7^h 57.2^m$	$+34.9^\circ$	U.T. Jan 18.30694	$0^h 05^m E$	U.T. $7^h 12^m - 7^h 32^m$	
6900	77 QP4, B98	$8^h 06.5^m$	$+23.4^\circ$	U.T. Jan 18.32361	$0^h 10^m W$	U.T. $7^h 36^m - 7^h 56^m$	
6901	77 QX	$8^h 10.2^m$	$+15.4^\circ$	U.T. Jan 18.34028	$0^h 30^m W$	U.T. $8^h 00^m - 8^h 20^m$	
6902	77 QP4, B98	$8^h 06.5^m$	$+23.4^\circ$	U.T. Jan 18.35694	$0^h 58^m W$	U.T. $8^h 24^m - 8^h 44^m$	
6903	77 QX	$8^h 10.2^m$	$+15.4^\circ$	U.T. Jan 18.37361	$1^h 18^m W$	U.T. $8^h 48^m - 9^h 08^m$	
6904	B46, B85, 77FZ, 80TN	$8^h 59.9^m$	$+17.5^\circ$	U.T. Jan 18.39028	$0^h 52^m W$	U.T. $9^h 12^m - 9^h 32^m$	
6905	76 YQ2, 79KL, 790F13, 80TO	$9^h 07.5^m$	$+11.3^\circ$	U.T. Jan 18.40694	$1^h 10^m W$	U.T. $9^h 36^m - 9^h 56^m$	
6906	B46, B85, 77FZ, 80TN	$8^h 59.9^m$	$+17.5^\circ$	U.T. Jan 18.42361	$1^h 40^m W$	U.T. $10^h 00^m - 10^h 20^m$	
6907	76 YQ2, 79KL, 790F13, 80TO	$9^h 07.5^m$	$+11.3^\circ$	U.T. Jan 18.44028	$1^h 58^m W$	U.T. $10^h 24^m - 10^h 44^m$	
6908	80 VW, 80XM	$10^h 28.3^m$	$+24.3^\circ$	U.T. Jan 18.46111	$1^h 11^m W$	U.T. $10^h 49^m - 11^h 19^m$	
6909	ρ Leo	$10^h 31.1^m$	$+9.6^\circ$	U.T. Jan 18.48125	$1^h 34^m W$	U.T. $11^h 23^m - 11^h 43^m$	
6910	80VW, 80XM	$10^h 28.3^m$	$+24.3^\circ$	U.T. Jan 18.49740	$1^h 58^m W$	U.T. $11^h 47^m 30^s - 12^h 05^m$	WWV -0
6911	10 Hygea Field #A	$13^h 18.8^m$	$-13^\circ 28'$	U.T. Jan. 23.44444	$1^h 46$ E	U.T 10:30:00-10:50:00	WWV
8912	10 Hygea Field #B	$13^h 42.0^m$	$-14^\circ 17'$	U.T Jan. 23.47222	$1^h 29$ E	U.T. 11:10:00-11:30:00	WWV
6913	704 Interamnia Field #B	$13^h 13.0^m$	$-28^\circ 55'$	U.T Jan. 23.50012	$0^h 20$ E	11:50:10-12:10:10	WWV
6914	1 Ceres Field #C	$14^h 54.0^m$	$-11^\circ 13'$	U.T Jan. 23.52431	$1^h 26$ E	12:25:00-12:45:00	WWV
6915	77RX7, 79KA, B62	$9^h 20.1^m$	$+9.7^\circ$	U.T. Jan 24.24931	$2^h 28^m E$	U.T. $5^h 49^m - 6^h 09^m$	

INST.	PLATE SIZE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WEITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
13"	8x10 103a0	W	D19	5 min.	68°	N	4	4	BAS	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	5	"	"	strong wave cloud over peaks, but otherwise clear.
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	5	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	4	"	"	not quite same guide star; RA slip 1/3 way
"	" "	"	"	"	"	"	4	3	"	Moonrise at start. Cirrus at end
"	" "	"	"	"	"	"	3	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	4	"	"	some transparency improvement. Windy
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	3	"	"	Cirrus at end
"	" "	"	"	"	"	"	2	2	"	Last 15 minutes pretty thick cloud
"	" "	"	"	"	"	"	4	3-2	N.T.	
"	" "	"	"	"	"	"	4	3-2	N.T.	
"	" "	"	"	"	"	"	4	3	N.T	
"	" "	"	"	"	"	"	4	3	N.T	
"	" "	"	"	"	"	"	4	3	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC	DATE 1982	H.A. END	EXPOSURE MST-AM-PM	W.E
6916	B 86	$9^h 21.6^m$	$+1.^\circ 7$	U.T. Jan 24.26736	$2^h 04^m E$	U.T. $6^h 15^m - 6^h 35^m$	WWV
6917	(197), 75 W01	$9^h 31.0^m$	$+28.^\circ 6$	U.T. Jan 24.28403	$1^h 49^m E$	U.T. $6^h 39^m - 6^h 59^m$	
6918	77 RX7, 79 KA, B62	$9^h 20.1^m$	$+9.^\circ 7$	U.T. Jan. 24.30139	$1^h 13^m E$	U.T. $7^h 04^m - 7^h 24^m$	
6919	B 86	$9^h 21.6^m$	$+1.^\circ 7$	U.T. Jan 24.31875	$0^h 50^m E$	U.T. $7^h 29^m - 7^h 49^m$	
6920	(197), 75 W01	$9^h 31.0^m$	$+28.^\circ 6$	U.T. Jan 24.33472	$0^h 36^m E$	U.T. $7^h 52^m - 8^h 12^m$	
6921	(2357), 76 GB8	$9^h 56.2^m$	$+11.^\circ 8$	U.T. Jan 24.35278	$0^h 34^m E$	U.T. $8^h 18^m - 8^h 38^m$	
6922	p Leo 5.104	$10^h 31.2^m$	$+9.^\circ 6$	U.T. Jan 24.37292	$0^h 35^m E$	U.T. $8^h 42^m - 9^h 12^m$	
6923	79 QE, B104	$11^h 33.0^m$	$-14.^\circ 2$	U.T. Jan 24.39792	$1^h 00^m E$	U.T. $9^h 18^m - 9^h 48^m$	
6924	(2357), 76 GB8 p Leo	$9^h 56.8$	$+11.^\circ 8$	U.T. Jan 24.41944	$1^h 02^m W$	U.T. $9^h 54^m - 10^h 14^m$	
6925	p Leo	$10^h 31.2^m$	$+9.^\circ 6$	U.T. Jan 24.43958	$1^h 00^m W$	U.T. $10^h 18^m - 10^h 48^m$	
6926	79 QE, B104	$11^h 33.0^m$	$-14.^\circ 2$	U.T. Jan 24.46319	$0^h 34^m W$	U.T. $10^h 52^m - 11^h 22^m$	
6927	704 Interamnia Field #B	$13^h 11.^m 3$	$-29^\circ 37'$	U.T. Jan 26.45174	$1^h 24 E$	U.T. 10:40:00-11:01:00	WWV
6928	704 Interamnia Field #A	$13^h 40.6$	$-31^\circ 12$	U.T Jan 26.49306	$0^h 48 E$	U.T. 11:40:00-12:00:00	WWV
6929	1 Ceres Field #A	$15^h 11.2$	$-9^\circ 18$	U.T. Jan. 26.51875	$1^h 39 E$	U.T. 12:17:00-12:37:00	WWV
6930	1 Ceres Field #B	$15^h 35.6$	$-9^\circ 25$	U.T. Jan. 26.53889	$1^h 36 E$	12:46:00-13:06:00	WWV
6931	76 YQ2, 79 KL, 79 O F13, 80 TO	$8^h 55.7^m$	$+12.^\circ 1$	U.T. Jan 30.28542	$0^h 47^m E$	U.T. $6^h 41^m - 7^h 01^m$	
6932	B 364, B 365	$9^h 14.9^m$	$+9.^\circ 9$	U.T. Jan 30.30208	$0^h 44^m E$	U.T. $7^h 05^m - 7^h 25^m$	
6933	B366 - B372	$9^h 48.2^m$	$+12.^\circ 0$	U.T. Jan 30.31875	$0^h 47^m E$	U.T. $7^h 29^m - 7^h 49^m$	
6934	76 YQ2, 79 KL, 79 O F13, 80 TO	$8^h 55.7^m$	$+12.^\circ 1$	U.T. JAN 30.33611	$0^h 26^m W$	U.T. $7^h 54^m - 8^h 14^m$	
6935	B 364, B 365	$9^h 14.9^m$	$+9.^\circ 9$	U.T. Jan 30.35417	$0^h 31^m W$	U.T. $8^h 20^m - 8^h 40^m$	
6936	B 366 - B 372	$9^h 48.2^m$	$+12.^\circ 0$	U.T. Jan 30.37014	$0^h 27^m W$	U.T. $8^h 43^m - 9^h 03^m$	
6937	B 384 - B 388	$10^h 21.^m 7$	$+13.^\circ 8$	U.T. Jan 30.39028	$0^h 22^m W$	U.T. $9^h 07^m - 9^h 37^m$	
6938	82 BB	$10^h 45.^m 7$	$+18.^\circ 8$	U.T. Jan. 30.41111	$0^h 24^m W$	U.T. $9^h 42^m - 10^h 02^m$	
6939	79 QE, B104	$11^h 31.^m 5$	$-14.^\circ 7$	U.T. Jan 30.43333	$0^h 15^m W$	U.T. $10^h 09^m - 10^h 39^m$	
6940	B 384 - B 388	$10^h 21.^m 7$	$+13.^\circ 8$	U.T. Jan. 30.45694	$1^h 58^m W$	U.T. $10^h 43^m - 11^h 13^m$	
6941	82 BB	$10^h 45.^m 7$	$+18.^\circ 8$	U.T. JAN 30.47708	$1^h 59^m W$	U.T. $11^h 17^m - 11^h 37^m$	
6942	79 QE, B104	$11^h 31.^m 5$	$-14.^\circ 7$	U.T. Jan 30.49722	$1^h 47^m W$	U.T. $11^h 41^m - 12^h 11^m$	
6943	FMO	$5^h 55.^m 5$	$+43.^\circ 1$	U.T. Jan 31.12569	$1^h 33^m W$	U.T. $2^h 51^m - 3^h 11^m$	

INST	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WEITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
13"	8x10	103a-O	W	D19	5 MIN.	68°	N	4	3	BAS	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	4	3-4	N.T.	
"	"	"	"	"	"	"	"	4	3-4	N.T.	
"	"	"	"	"	"	"	"	4	3-2	N.T.	
"	"	"	"	"	"	"	"	4	3	N.T.	
"	"	"	"	"	"	"	"	5	"	BAS	strong NE Wind
"	"	"	"	"	"	"	"	"	"	"	weak glow from Phoenix
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	breezy again a little low, but seeing OK.
"	"	"	"	"	"	"	"	3	4	"	Moonlight; some cirrus

NEG #	OBJECT OR GUIDE	POSITION R.A.	POSITION DEC.	DATE 1982	H.A. END	EXPOSURE MST-AM-PM	W.E
6944	B352 - B356	$6^h49.7$	+27°.5	U.T. Jan 31.15021	$1^h52^m E$	U.T. $3^h26^m18^s - 3^h46^m18^s$	WWV
6945	FMO	$5^h55.5^M$	+43°.1	U.T. Jan. 31.16875	$0^h31^m E$	U.T. $3^h53^m - 4^h13^m$	"
6946	B352 - B356	$6^h49.7^M$	+27°.5	U.T. Jan 31.18542	$1^h00^m E$	U.T. $4^h17^m - 4^h37^m$	"
6947	B357-B359, B361, B362	$7^h45.4^M$	+20°.8	U.T. Jan 31.20208	$1^h33^m E$	U.T. $4^h41^m - 5^h01^m$	
6948	B373 - B380	$7^h44.7^M$	+36°.7	U.T. Jan. 31.21944	$1^h08^m E$	U.T. $5^h06^m - 5^h26^m$	
6949	B357-B359, B361, B362	$7^h45.4^M$	+20°.8	U.T. Jan 31.23611	$0^h44^M E$	U.T. $5^h30^m - 5^h50^m$	
6950	B373 - B380	$7^h44.7^M$	+36°.7	U.T. Jan 31.25278	$0^h20^M E$	U.T. $5^h54^m - 6^h14^m$	
6951	B381 - B383	$9^h26.9^M$	+2°.2	U.T. Jan 31.26944	$1^h36^M E$	U.T. $6^h18^m - 6^h38^m$	
6952	B373	$9^h35.3^M$	+24°.3	U.T. Jan 31.28681	$1^h21^m E$	U.T. $6^h43^m - 7^h03^m$	
6953	B381-B383	$9^h26.9^M$	+2°.2	U.T. Jan 31.30486	$0^h45^m E$	U.T. $7^h09^m - 7^h29^m$	
6954	B373	$9^h35.3^M$	+24°.3	U.T. Jan 31.32153	$0^h31^m E$	U.T. $7^h33^m - 7^h53^m$	
6955	704 Interamnia Field	$13^h17.0$	-24°20	U.T. Feb 1.49375	0^h03 W	U.T. 11:41:00-12:01:00	WWV
6956	1 Ceres Field	$15^h13.8$	-16°20	U.T Feb 1.51389	1^h27 E	U.T 12:10:00-12:30:00	"
6957	Focus Plate	$7^h16.8^M$	+20°.1	U.T. Feb 14	0^h28^M W	$5^h10^m - 5^h13^m$; $5^h14^m - 5^h45^m$; $5^h20^m - 5^h21^m$; $5^h25^m - 5^h26^m$; $5^h30^m - 5^h31^m$; $5^h35^m - 5^h38^m$	
6958	B374	$7^h18.6$	+43°.6	U.T. Feb 20.10417	$2^h03^m E$	U.T. $2^h15^m - 2^h45^m$	
6959	B378	$7^h33.3^m$	+34°.4	U.T. Feb. 20.12778	$1^h45^m E$	U.T. $2^h49^m - 3^h19^m$	
6960	B359 - B361	$7^h42.7^M$	+22°.7	U.T. Feb 20.15139	$1^h21^m E$	U.T. $3^h23^m - 3^h53^m$	
6961	FMO	$6^h01.5^M$	+45°.1	U.T. Feb 20.16944	0^h46^m W	U.T. $3^h59^m - 4^h19^m$	
6962	"	"	"	U.T. Feb 20.18958	1^h10^m W	U.T. $4^h23^m - 4^h43^m$	
6963	B374	$7^h18.6^M$	+43°.4	U.T. Feb 20.21181	0^h32^M W	U.T. $4^h50^M - 5^h20^m$	
6964	B378	$7^h33.3^M$	+34°.4	U.T. Feb. 20.23681	0^h52^m W	U.T. $5^h26^m - 5^h56^m$	
6965	B359 - B361	$7^h42.7^M$	+22°.7	U.T. Feb. 20.26389	1^h16^m W	U.T. $6^h05^m - 6^h35^m$	
6966	(2224), 790F13, B364, B366, B399, B400	$8^h39.4$	+17°.7	U.T. Feb 20.28819	1^h02^m W	U.T. $6^h45^m - 7^h05^m$	
6967	(197)	$9^h09.3^M$	+27°.3	U.T. Feb 20.30174 30590	0^h45^m W	U.T. $7^h12 - 7^h17^m$; $7^h18 - 7^h23^m$	
6968	(2224), 790F13, B364, B366, B390, B400	$8^h39.4^M$	+17°.7	U.T. Feb. 20.31736	1^h44^m W	U.T. $7^h27^m - 7^h47^m$	
6969	B384 - B388 B392 - B393	$10^h02.0^M$	+17°.6	U.T. Feb 20.33472	0^h41^m W	U.T. $7^h52^m - 8^h12^m$	
6970	(1452), 77VM1, 79FT2	$11^h17.0^M$	+18°.4	U.T. Feb 20.35486	0^h05^m E	U.T. $8^h21^m - 8^h41^m$	
6971	B384 - B388, B392 - B393	$10^h02.0$	+17°.6	U.T. Feb 20.37153	1^h34^m W	U.T. $8^h45^m - 9^h05^m$	

INST	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
13"	8x10	103a0	W	D19	5 min	68°	N	3	4	BAS	Castor easily resolved (therefore seeing) no image motion
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	Marked on plate "6950"
"	"	"	"	"	"	"	"	"	"	"	Marked "6951" on plate
"	"	"	"	"	"	"	"	"	"	"	Marked 6952 on plate
"	"	"	"	"	"	"	"	2	"	"	Marked "6953" on plate. Cirrus thicker & widespread
"	"	"	"	"	"	"	"	"	"	"	marked "6954" on plate. Moonset during exposure
"	"	"	"	"	"	"	"	"	"	"	Marked "6955" on plate
"	"	"	"	"	"	"	"	"	"	"	Marked "6956" on plate
"	"	"	"	"	"	"	"	"	"	"	Marked "6957" on plate
"	"	"	"	"	"	"	"	"	"	N. Thomas	(Marked as 6958)
"	"	"	"	"	"	"	"	"	"	"	(Marked as 6959)
"	"	"	"	"	"	"	"	4	3	EL6B	
"	"	"	"	"	"	"	"	"	4	BAS	seeing 1.0 (52 Cri test) some cirrus during twilight.
"	4x5	103a0	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	8x10	"	"	"	"	"	"	"	3	"	3 AUR near plate center
"	4x5	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	8x10	"	"	"	"	"	"	"	4	"	clearer, Image Motion ~1".5
"	"	"	"	"	"	"	"	"	"	"	seeing ~ 1".8. Telescope moved 5 between exp.
"	4x5	"	"	"	"	"	"	"	"	"	
"	8x10	"	"	"	"	"	"	"	"	"	3 Leo near center
"	"	"	"	"	"	"	"	"	"	"	seeing ~ 1".8. E 1504 occasionally resolved
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1982	H.A. END	EXPOSURE MST-AM-P/M	W.E
6972	(1452) 77VM1, 79FT2	11h 17.0m	+18.°4	U.T. Feb 20.38819	0h 43m W	U.T. 9h09m - 9h29m	WW
6973	(1863)	12h 16.2m	+4.°1	U.T. Feb 20.40625	0h 09m W	U.T. 9h35m - 9h55m	"
6974	(887)	13h 52.6m	+7.°9	U.T. Feb 20.42847	0h 52m E	U.T. 10h02m - 10h32m	"
6975	P/HARTLEY (82 b,c)	13h 07.8m	-12.°8	U.T. Feb 20.44861	0h 20m W	U.T. 10h36m - 10h56m	"
6976	(1863)	12h 16.2m	+4.°1	U.T. Feb 20.46528	1h 34m W	U.T. 11h00m - 11h20m	"
6977	P/HARTLEY (82b,c)	13h 07.8m	-12.°8	U.T. Feb 20.48194	1h 08m W	U.T. 11h24m - 11h44m	"
6978	(887)	13h 52.6m	+7.°9	U.T. Feb. 20.50208	0h 54m W	U.T. 11h48m - 12h 18m	"
6979	C/Bowell	17h 19.6m	-22.°0	U.T. Feb 20.51944	2h 17m E	U.T. 12h23m - 12h33m	"
6980	(197)	9h 08.5m	+27.°5	U.T. Feb 21. 16007 16424	2h 35m E	U.T. 3h48 - 3h53m 3h54 - 3h59	"
6981	B 373	9h 01.6m	+27.°7	U.T. Feb 21.17708	2h 03m E	U.T. 4h05m - 4h25m	"
6982	B365, B381, B383, B394	8h 59.7m	+4.°1	U.T. Feb. 21.19444	1h 35m E	U.T. 4h30m - 4h50m	"
6983	B 373	9h 01.6m	+27.°7	U.T. Feb 21.21181	1h 13m E	U.T. 4h55m - 5h15m	"
6984	B365, B381, B383, B394	8h 59.7m	+4.°1	U.T. Feb 21. 23056	0h 37m E	U.T. 5h22m - 5h42m	"
6985	B367 - B371, B395 - B398	9h 24.9m	+15.°3	U.T. Feb 21.24722	0h 45m E	U.T. 5h46m - 6h06m	"
6986	80XM, B389, B390	10h 15.5m	+23.°6	U.T. Feb 21.26389	1h 11m E	U.T. 6h10m - 6h30m	"
6987	B367-B371, B395-B398	9h 24.9m	+15.°3	U.T Feb 21. 28056	0h 03m W	U.T. 6h34m - 6h54m	"
6988	80XM, B389, B390	10h 15.5m	+23.°6	U.T. Feb. 21.29653	0h 30m E	U.T. 6h57m - 7h17m	"
6989	76 JQ2, B391	10h 33.2m	+17.°1	U.T. Feb 21.31458	0h 20m E	U.T. 7h23m - 7h43m	"
6990	71TZ, 80R B1	11h 57.0m	-4.°6	U.T. Feb 21.33194	1h 15m E	U.T. 7h48m - 8h08m	"
6991	76 JQ2, B391	10h 33.2m	+17.°1	U.T. Feb 21.34861	0h 29m W	U.T. 8h12m - 8h32m	"
6992	71TZ, 80RB1	11h 57.0m	-4.°6	U.T. Feb. 21.36458	0h 28m E	U.T. 8h35m - 8h55m	"
6993	B367-B371, B395-B398, B401, B418. B420	9h 18.9m	+15.°7	U.T. Feb 28.27014	0h 22m W	U.T. 6h19m - 6h39m	"
6994	B384-B388. B392, B393, B402, B411-B415, B417	9h 55.5m	+18.°3	U.T. Feb 28.28819	0h 15m W	U.T. 6h45m - 7h05m	"
6995	B367-B371, B395-B398, B401, B418-B420, B422-B425	9h 18.9m	+15.°7	U.T. Feb 28.30556	1h 13m W	U.T. 7h10m - 7h30m	"
6996	B384-B388, B392, B393, B402, B411-B415, B417	9h 55.5m	+18.°3	U.T. Feb 28.32222	1h 04m W	U.T. 7h34m - 7h54m	"
6997	B408, B421, B427	11h 55.5m	-9.°5	U.T. Feb 28.34167	0h 31m E	U.T. 8h02m - 8h22m	"
6998	(887), B407	13h 54.5m	+10.°5	U.T. Feb 28.35972	2h 04m E	U.T. 8h28m - 8h48m	"
6999	B408, B421, B427	11h 55.5m	-9.°5	U.T. Feb 28.37986	0h 26m W	U.T. 8h57m - 9h17m	"

INST	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
13"	8x10	103a0	W	D19	5mm	68°	N	4	4	BAS	
"	"	"	"	"	"	"	"	"	"	"	seeing 1".5. E 1647 consistently resolved
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	3	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	4	"	moonrise at end
"	4"X5"	"	"	"	"	"	"	"	3	"	
"	"	"	"	"	"	"	"	"	5	"	telescope moved 5 between exposures. Seeing 0".8
"	"	"	"	"	"	"	"	"	"	"	
"	8x10	"	"	"	"	"	"	"	"	"	
"	4x5	"	"	"	"	"	"	"	"	"	
"	8x10	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	8 Leo at center
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	seeing 1".0. E 1504 clearly resolved
"	"	"	"	"	"	"	"	"	4	"	
"	"	"	"	"	"	"	"	"	5	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	2	5	2"	seeing ~ 0".8. high humidity. Cirrus. New plate holder.
"	"	"	"	"	"	"	"	2	5	"	old plateholder
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	3	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	seeing 1".1. Frost on objective
"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1982	H.A. END	EXPOSURE MST-AM-PM	W.E.	PLATE INST.	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
7000	(887), B 407	$13^h 54.5^m$	+10.5°	U.T. Feb. 28.39722	$1^h 10^m$ E	U.T. $9^h 22^m - 9^h 42^m$	WWW	13"	103a0	8x10	W	D19	5 MIN	68°	N	3	5	BAS	
7001	B367-B371, B395-B398, B401, B418-B420, B422-B424	$9^h 15.5^m$	+16.3°	U.T. MAR 04.32847	$2^h 06^m$ W	U.T. $7^h 43^m - 8^h 03^m$	"	"	"	"	"	"	"	"	"	4	4	"	seeing 1.5. Some image motion. Moonlight
7002	B384-B388, B392, B393, B402, B411-B415, B417	$9^h 52.0^m$	+18.5°	U.T. MAR 04.34514	$1^h 53^m$ W	U.T. $8^h 07^m - 8^h 27^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7003	B367-B371, B395-B398, B401, B418-B420, B422-B424	$9^h 15.5^m$	+16.3°	U.T. MAR 04.36181	$2^h 54^m$ W	U.T. $8^h 31^m - 8^h 51^m$	"	"	"	"	"	"	"	"	"	"	3	"	same guide star? Low.
7004	B384-B388, B392, B393, B402, B411-B415, B417	$9^h 52.0^m$	+18.5°	U.T. MAR 04.37847	$2^h 41^m$ W	U.T. $8^h 55^m - 9^h 15^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7005	(887), B 407	$13^h 54.3^m$	+10.8°	U.T. MAR 04.40139	$0^h 49^m$ E	U.T. $9^h 28^m - 9^h 48^m$	"	"	"	"	"	"	"	"	"	"	4	"	seeing 1.5 at meridian. Moonset $7^h 50^m$
7006	B391, B410, B416, B425, B428-B430	$10^h 24.0^m$	+18.7°	U.T. MAR 04.41875	$3^h 08^m$ W	U.T. $9^h 53^m - 10^h 13^m$	"	"	"	"	"	"	"	"	"	"	3	"	
7007	Helin-Shoemaker FMO	$13^h 33.7^m$	-18.4°	U.T. MAR 04.43611	$0^h 23^m$ W	U.T. $10^h 18^m - 10^h 38^m$	"	"	"	"	"	"	"	"	"	"	4	"	
7008	B391, B410, B416, B425, B428-B430	$10^h 24.0^m$	+18.7°	U.T. MAR 04.45278	$3^h 57^m$ W	U.T. $10^h 42^m - 11^h 02^m$	"	"	"	"	"	"	"	"	"	"	3	"	
7009	Helin-Shoemaker FMO	$13^h 33.7^m$	-18.4°	U.T. MAR 04.47014	$1^h 02^m$ W	U.T. $11^h 07^m - 11^h 27^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7010	(887), B 407	$13^h 54.3^m$	+10.8°	U.T. MAR 04.48750	$1^h 15^m$ W	U.T. $11^h 32^m - 11^h 52^m$	"	"	"	"	"	"	"	"	"	"	4	"	Seeing still 1.5
7011	B386-B388, B411-B413	$9^h 36.2^m$	+20.6°	U.T. MAR 21.20417	$0^h 04^m$ E	U.T. $4^h 39^m - 5^h 09^m$	"	"	"	"	"	"	"	"	"	"	4	"	ELGB
7012	B403-B405	$10^h 59.0^m$	+22.2°	U.T. MAR 21.22500	$1^h 01^m$ E	U.T. $5^h 14^m - 5^h 34^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7013	(701), (2468), 71T2, B408, B421	$11^h 29.6^m$	-5.4°	U.T. MAR 21.24236	$1^h 06^m$ E	U.T. $5^h 39^m - 5^h 59^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7014	B386-B388, B411-B413	$9^h 36.2^m$	+20.6°	U.T. MAR 21.26319	$1^h 22^m$ W	U.T. $6^h 04^m - 6^h 34^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7015	B403-B405	$10^h 59.0^m$	+22.2°	U.T. MAR 21.28542	$0^h 26^m$ W	U.T. $6^h 41^m - 7^h 01^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7016	(701), (2468), 71T2, B408, B421	$11^h 29.6^m$	-5.4°	U.T. MAR 21.30278	$0^h 20^m$ W	U.T. $7^h 06^m - 7^h 26^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7017	(1192), (1888), 76QV, 79SF	$12^h 27.5^m$	-9.3°	U.T. MAR 21.32014	$0^h 13^m$ E	U.T. $7^h 31^m - 7^h 51^m$	"	"	"	"	"	"	"	"	"	"	"	"	Guidestar, & Vis; a fine double
7018	(1854), 79QK2, 6561PL	$12^h 38.3^m$	-1.3°	U.T. MAR 21.33681	$0^h 01^m$ W	U.T. $7^h 55^m - 8^h 15^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7019	(1192), (1888), 76QV, 79SF	$12^h 27.5^m$	-9.3°	U.T. MAR 21.35417	$0^h 36^m$ W	U.T. $8^h 20^m - 8^h 40^m$	"	"	"	"	"	"	"	"	"	"	"	"	Humid night, observers beard fogged up.
7020	(1854), 79QX2, 6561PL	$12^h 38.3^m$	-1.3°	U.T. MAR 21.37083	$0^h 50^m$ W	U.T. $8^h 44^m - 9^h 04^m$	"	"	"	"	"	"	"	"	"	"	"	"	seeing 1.0; OE215 easy. Moderate cirrus
7021	(1503), B427	$11^h 19.5^m$	-13.0°	U.T. MAR 22.26250	$0^h 18^m$ E	U.T. $6^h 03^m - 6^h 33^m$	"	"	"	"	"	"	"	"	"	2	5	BAS	
7022	(567), B406	$11^h 54.5^m$	+10.9°	U.T. MAR 22.28611	$0^h 19^m$ E	U.T. $6^h 37^m - 7^h 07^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7023	(1503), B427	$11^h 19.5^m$	-13.0°	U.T. MAR 22.30972	$0^h 50^m$ W	U.T. $7^h 11^m - 7^h 41^m$	"	"	"	"	"	"	"	"	"	"	4	"	guide star still sharp, but some image motion
7024	(567), B406	$11^h 54.5^m$	+10.9°	U.T. MAR 22.33333	$0^h 49^m$ W	U.T. $7^h 45^m - 8^h 15^m$	"	"	"	"	"	"	"	"	"	"	5	"	clouds a little too thick
7025	(682), (2356), (2457)	$13^h 47.2^m$	-5.4°	U.T. MAR 23.31639	$0^h 02^m$ W	U.T. $8^h 47^m - 9^h 17^m$	"	"	"	"	"	"	"	"	"	3	4	"	seeing 1.0, not completely clear.
7026	"	"	"	U.T. MAR 23.41667	$1^h 00^m$ W	U.T. $9^h 45^m - 10^h 15^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7027	B370, B419	$9^h 08.1^m$	+17.2°	U.T. MAR 28.16597	$0^h 02^m$ E	U.T. $3^h 44^m - 4^h 14^m$	"	"	"	"	"	"	"	"	"	4	"	"	new plate holder, standard focus seeing 1", with image motion weak moonlight; humid.

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC	DATE 1982	H.A. End	EXPOSURE MST-AM-PM	W.E
7028	B405	$11^h00.2^m$	-21.4°	U.T. MAR 28.18542	1^h32^m E	U.T. 4^h17^m – 4^h37^m	WWV
7029	(1503), B427	$11^h12.9^m$	-13.0°	U.T. MAR 28.20278	1^h19^m E	U.T. 4^h42^m – 5^h02^m	"
7030	B405	$11^h00.2^m$	-21.4°	U.T. MAR 28.22083	0^h41^m E	U.T. 5^h08^m – 5^h28^m	"
7031	B370, B419	$9^h08.1^m$	$+17.2^\circ$	U.T. MAR 28.23958	1^h44^m W	U.T. 5^h30^m – 6^h00^m	"
7032	(1503), B427	$11^h12.9^m$	-13.0°	U.T. MAR 28.25833	0^h13^m W	U.T. 6^h02^m – 6^h22^m	"
7033	B436	$12^h47.2^m$	$+3.3^\circ$	U.T. MAR 28.27639	1^h07^m E	U.T. 6^h28^m – 6^h48^m	"
7034	B436	"	"	U.T. MAR 28.29375	0^h42^m E	U.T. 6^h53^m – 7^h13^m	"
7035	B 436	$12^h34.4^m$	$+4.5^\circ$	U.T. MAR 31.34861	1^h02^m W	U.T. 8^h12^m – 8^h32^m	"
7036	41FN, 79MS6, B77	$13^h16.8^m$	-13.7°	U.T. MAR 31.36528	0^h45^m W	U.T. 8^h36^m – 8^h56^m	"
7037	B436	$12^h34.4^m$	$+4.5^\circ$	U.T. MAR 31.38264	1^h51^m W	U.T. 9^h01^m – 9^h21^m	"
7038	41FN, 79MS6, B77	$13^h16.8^m$	-13.7°	U.T. MAR 31.39931	1^h34^m W	U.T. 9^h25^m – 9^h45^m	"
7039	B441, B442	$13^h46.5^m$	-8.0°	U.T. MAR 31.41944	1^h34^m W	U.T. 9^h49^m – 10^h19^m	"
7040	B407	$13^h53.3^m$	$+14.3^\circ$	U.T. APR. 01.36528	0^h12^m W	U.T. 8^h36^m – 8^h56^m	"
7041	"	"	"	U.T. APR 01.40347	1^h07^m W	U.T. 9^h31^m – 9^h51^m	"
7042	c/Bowell	$18^h00.3^m$	-21.3°	U.T. APR 01.41979	2^h40^m E	U.T. 9^h57^m – 10^h12^m	"
7043	(155), (1344), B405	$10^h53.9^m$	$+18.8^\circ$	U.T. APR 13.15625	1^h00^m E	U.T. 3^h30^m – 4^h00^m	"
7044	(84), (437), (1139), (1639), (2390), B408, B421, B433	$11^h18.5^m$	-5.0°	U.T. APR 13.18194	0^h46^m E	U.T. 4^h07^m – 4^h37^m	"
7045	B 386	$9^h49.3^m$	$+23.5^\circ$	U.T. APR 13.20417	1^h10^m W	U.T. 4^h44^m – 5^h04^m	"
7046	B 386	"	"	U.T. APR 13.22014	1^h33^m W	U.T. 5^h07^m – 5^h27^m	"
7047	(155), (1344), B405	$10^h53.9^m$	$+18.8^\circ$	U.T. APR 13.23889	0^h59^m W	U.T. 5^h29^m – 5^h59^m	"
7048	(134), (437), (1139), (1639), (2390), B408, B421, B433	$11^h18.5^m$	-5.0°	U.T. APR 13.26250	1^h10^m W	U.T. 6^h03^m – 6^h33^m	"
7049	(571), (832), (2370), (2386), B434, B435, B438	$12^h07.4^m$	-2.1°	U.T. APR 14.17153	1^h48^m E	U.T. 3^h52^m – 4^h22^m	"
7050	(146), (751), 406N, B432, B436	$12^h32.3^m$	$+10.7^\circ$	U.T. APR 14.20833	1^h17^m E	U.T. 4^h45^m – 5^h15^m	"
7051	(571), (832), (2370), (2386), B434, B435, B438	$12^h07.4^m$	-2.1°	U.T. APR 14.25625	0^h14^m W	U.T. 5^h54^m – 6^h24^m	"
7052	(146), (751), 40 GN, B432, B436	$12^h32.3^m$	$+10.7^\circ$	U.T. APR 14.28056	0^h27^m W	U.T. 6^h29^m – 6^h59^m	"
7053	(671), (1168), 41 FN, 73502, 79MS6, B77	$12^h56.3^m$	-12.3°	U.T. APR 18.20347	1^h39^m E	U.T. 4^h43^m – 5^h03^m	"
7054	(1770), 78NC3, B441	$13^h16.4^m$	-4.3°	U.T. APR. 18.22083	1^h35^m E	U.T. 5^h08^m – 5^h28^m	"
7055	(671), (1168), 41 FN, 73502, 79MS6, B77	$12^h56.3^m$	-12.3°	U.T. APR 18.23750	0^h50^m E	U.T. 5^h32^m – 5^h52^m	"

INST.	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
13"	4x5	103aO	W	D19	5MIN.	68°	N	4	3	BAS	
"	8x10	103O	"	"	"	"	"	"	"	"	
"	4x5	103aO	"	"	"	"	"	"	"	"	
"	8x10	103aO	"	"	"	"	"	"	"	"	New plateholder: focus screws ¼ turn in.
"	"	"	"	"	"	"	"	3	"	"	
"	"	"	"	"	"	"	"	4			Guide scope fogging
"	"	"	"	"	"	"	"	"	"	"	Objective fogged at end. seeing 1"2. Some image motion and intermittent blowing.
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	3	"	star not quite same guide
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	1	"	strong wind
"	"	"	"	"	"	"	"	"	2	"	Very windy
"	8x10	103aO	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	4x5	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	8x10	"	"	"	"	"	"	"	"	"	less windy
"	"	"	"	"	"	"	"	3	"	"	Moonrise ~ 6^h17^m
"	"	"	"	"	"	"	"	4	4	BAS MW	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	3	"	"	New plateholder, screws, ½ turn clockwise
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	4	3	BAS	seeing 1"2 PHX dim.
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	4	"	
"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC	DATE 1982	H.A. END	EXPOSURE MST-AM-PM	W.E
7056	(1770), 78 NC3, B441	13h16.4m	-4.°3	U.T. APR 18.25417	0h47mE	U.T. 5h56m- 6h16m	WNP
7057	(288), (742) (1671), (1705), B442	13h43.2m	-4.°7	U.T. APR 18.27292	0h47mE	U.T. 6h23m- 6h43m	"
7058	74XX, B407	13h46.1m	+13.°4	U.T. APR 18.28958	0h26mE	U.T. 6h47m- 7h07m	"
7059	(288), (742), (1671), (1705), B442	13h43.2m	-4.°7	U.T. APR 18.30625	0h01mW	U.T. 7h11m- 7h31m	"
7060	74XX, B407	13h46.1m	+13.°4	U.T. APR 18.32222	0h21mW	U.T. 7h34m- 7h54m	"
7061	(451), (1337), B127	14h16.3m	+7.°5	U.T. APR. 18.33854	0h16mW	U.T. 7h57m- 8h18m	"
7062	(56), (65), (124), (1862), (2417), 75VF2	14h30.5m	-9.°9	U.T. APR 18.35625	0h27mW	U.T. 8h23m- 8h43m	"
7063	(451), (1337), B127	14h16.3m	+7.°5	U.T. APR 18.37292	1h05mW	U.T. 8h47m- 9h07m	"
7064	(56), (65), (124) (1862), (2417), 75VF2	14h30.5m	-9.°9	U.T. APR. 18.39097	1h17mW	U.T. 9h13m- 9h33m	"
7065	(455), (2397), 79MF4, T17	14h20.7m	-1.°6	U.T. APR 21.27899	1h02mE	U.T. 6h31m30s- 6h52m	"
7066	B113, B122	14h40.4m	+9.°6	U.T. APR 21.30139	0h45mE	U.T. 6h59m- 7h29m	"
7067	(455), (2397), 79MF4, T17	14h20.7m	-1.°6	U.T. APR 21.32153	0h01mE	U.T. 7h33m- 7h53m	"
7068	B113, B122	14h40.4m	+9.°6	U.T. APR 21.34167	0h13mW	U.T. 7h57m- 8h27m	"
7069	(51), (670), (1085), (1096), (2400), 81CA	15h00.1m	-5.°5	U.T. APR. 24.34167	0h00m	U.T. 8h02m- 8h22m	"
7070	(180), (793), (959), (2107) (2393) 79FD2, 79MR4	15h03.0m	-15.5	U.T. APR. 24.35833	0h21mW	U.T. 8h26m- 8h46m	"
7071	(51), (670), (1085), (1096) (2400), 81CA	15h00.1	-5.°5	U.T. APR 24.37431	0h47mW	U.T. 8h49m- 9h09m	"
7072	(180), (793) (959), (2107), (2393), 79FD2, 79MR4	15h03.0m	-15.°5	U.T. APR 24.39028	1h16mW	U.T. 9h12m- 9h32m	"
7073	(203), (782), (1692), (2269), (2431), 82DV, B152	17h30.8m	-24.°1	U.T. APR 24.41042	0h45mE	U.T. 9h36m- 10h06m	"
7074	(995), (2120), (2205), (2450), (2492), 76G22, 79GH	16h14.0m	-19.°9	U.T. APR. 24.43403	1h05mW	U.T. 10h10m- 10h40m	"
7075	"	"	"	U.T. APR 24.45694	1h38mW	U.T. 10h43m- 11h13m	"
7076	(203), (782), (1592), (2269) (2431) 82DV, B152	17h30.8m	-24.°1	U.T. APR 24.47882	0h50mW	U.T. 11h17m- 11h42m	"
7077	W1, W2	12h02.6m	-4.°0	U.T. APR 25.25000	0h55mW	U.T. 5h45m- 6h15m	"
7078	B444 - B446	12h53.2m	-12.°7	U.T. APR 25.27014	0h25mW	U.T. 6h19m- 6h39m	"
7079	W1, W2	12h02.6m	-4.°0	U.T. APR 25.28958	1h52mW	U.T. 6h42m- 7h12m	"
7080	B444 - B446	12h53.2m	-12.°7	U.T. APR 25.30903	1h21mW	U.T. 7h15m- 7h35m	"
7081	B448, B449	14h17.4m	+6.°9	U.T. APR 25.33333	0h37mW	U.T. 7h50m- 8h10m	"
7082	(548), (1269), (1387), (1984), (2066), 76GH2, B9	15h32.9m	-14.°1	U.T. APR 25.35903	0h01mW	U.T. 8h22m- 8h52m	"
7083	B448, B449	14h17.4m	+6.°9	U.T. APR 25.38333	1h49mW	U.T. 9h02m- 9h22m	"

INST	Plate SIZE	Plate TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP.	WETTING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
13"	8x10	103aO	W	D19	5 MIN	68°	N	4	4	BAS	
"	"	"	"	"	"	"	"	4	3	"	seeing 1."7, some motion slight breeze
"	"	"	"	"	"	"	"	"	"	"	images a little sharper, but still some motion
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	image motion small now.
"	"	"	"	"	"	"	"	"	4	"	nice images
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	1 turn counterclockwise focus screws [now at -3/4 turns focus of new plateholder re-adjusted. seeing 3" strong winds
"	"	"	"	"	"	"	"	"	2	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	3	"	"	clouds at end
"	"	"	"	"	"	"	"	4	4	"	somewhat humid
"	"	"	"	"	"	"	"	"	3	"	
"	"	"	"	"	"	"	"	"	4	"	plate cracked but not broken
"	"	"	"	"	"	"	"	"	3	"	
"	"	"	"	"	"	"	"	3	"	"	some clouds passing by
"	"	"	"	"	"	"	"	"	"	"	Fog over Lake
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	dawn light at end closed early
"	"	"	"	"	"	"	"	4	4	BAS? MW	bad slip in 5 mean end. MW = Martin Watt
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1982	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST	PLATE SIZE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING Trans.	SEEING STEAD	OBSV.	REMARKS
7084	(548) (1269) (1387), (1984), (2066), 76GM2, B9	$15^h 32.9^m$	-14.1°	U.T. APR 25.41007	$1^h 14^m W$	U.T. $9^h 35^m - 10^h 06^m$	WWV	13"	8 X 10 103a O	W	D19	5 min	68°	N	4	4	BAS & MW	thin clouds, seeing 1.5";
7085	B447, B451 - B453, W5, W7	$13^h 17.0^m$	-6.1°	U.T. APR 26.25625	$0^h 10^m E$	U.T. $5^h 59^m - 6^h 19^m$	"	"	"	"	"	"	"	"	3	"	BAS	No image motion
7086	B450, B454 - B457, W3, W4, W6, W8, W9	$13^h 41.1^m$	-4.2°	U.T. APR. 26.27361	$0^h 09^m E$	U.T. $6^h 24^m - 6^h 44^m$	"	"	"	"	"	"	"	"	"	"	"	
7087	B447, B451, B453, W5 W7	$13^h 17.0^m$	-6.1°	U.T. APR 26.29097	$0^h 40^m W$	U.T. $6^h 49^m - 7^h 09^m$	"	"	"	"	"	"	"	"	"	"	"	
7088	B450, B454 - B457, W3, W4, W6, W8, W9	$13^h 41.1^m$	-4.2°	U.T. APR 26.30694	$0^h 39^m W$	U.T. $7^h 12 - 7^h 32^m$	"	"	"	"	"	"	"	"	"	"	"	
7089	(56), (65), C124), (1862), (2417), 75 VF2	$14^h 19.4^m$	-9.2°	U.T. APR 28.31667	$0^h 21^m W$	U.T. $7^h 26^m - 7^h 46^m$	"	"	"	"	"	"	"	"	4	5	"	Phoenix fairly dim
7090	(455), (2397), 79 MF4, T17	$14^h 19.5^m$	-1.1°	U.T. APR. 28.33333	$0^h 45^m W$	U.T. $7^h 50^m - 8^h 10^m$	"	"	"	"	"	"	"	"	"	"	"	
7091	(56), (65), (124), (1862), (2417), 75 VF2	$14^h 19.4^m$	-9.2°	U.T. APR 28.35000	$1^h 09^m W$	U.T. $8^h 14^m - 8^h 34^m$	"	"	"	"	"	"	"	"	"	"	"	
7092	(455), (2397), 79 MF4, T17	$14^h 19.5^m$	-1.1°	U.T. APR 28.36597	$1^h 32^m W$	U.T. $8^h 37^m - 8^h 57^m$	"	"	"	"	"	"	"	"	4	"		
7093	B113, B122, W11	$14^h 34.8^m$	$+10.0^\circ$	U.T. APR. 28.38681	$1^h 53^m W$	U.T. $9^h 02^m - 9^h 32^m$	"	"	"	"	"	"	"	"	"	"		seeing 1."1, No image motion.
7094	(238), (1386), 78 QB2, 78 TB7	$15^h 47.6^m$	-3.7°	U.T. APR. 28.41042	$1^h 14^m W$	U.T. $9^h 36^m - 10^h 06^m$	"	"	"	"	"	"	"	"	"	5	"	plate incorrectly marked 7095 upper left: correct upper right
7095	B113, B122, W11	$14^h 34.8^m$	$+10.0^\circ$	U.T. APR. 28.43403	$3^h 01^m W$	U.T. $10^h 10^m - 10^h 40^m$	"	"	"	"	"	"	"	"	"	4	"	
7096	(238), (1386), 78 QB2, 78 TB7	$15^h 47.6^m$	-3.7°	U.T. APR 28.45972	$2^h 25^m W$	U.T. $10^h 47^m - 11^h 17^m$	"	"	"	"	"	"	"	"	"	"	"	
7097	C/BOWELL	$18^h 17.1^m$	-22.2°	U.T. APR 28.47708	$0^h 09^m W$	U.T. $11^h 22^m - 11^h 32^m$	"	"	"	"	"	"	"	"	"	3	"	some twilight
7098	B445	$12^h 37.0^m$	-10.6°	U.T. MAY 20.15903	$0^h 12^m E$	U.T. $3^h 34^m - 4^h 04^m$	"	"	"	"	"	"	"	"	"	5	"	much volcanic dust in atmosphere. PHX bright. OE 25 6 (p = 0.92 easily resolved.
7099	B454, B456, W3 - W5	$13^h 20.7^m$	-3.9°	U.T. MAY 20.18333	$0^h 27^m E$	U.T. $4^h 09^m - 4^h 39^m$	"	4x5	"	"	"	"	"	"	3	5	"	
7100	B471, B473, B475, B476	$13^h 54.9^m$	-7.2°	U.T. MAY 20.20694	$0^h 21^m E$	U.T. $4^h 43^m - 5^h 13^m$	"	8 X 10	"	"	"	"	"	"	"	"	"	
7101	B445	$12^h 37.0^m$	-10.6°	U.T. MAY 20.23125	$1^h 32^m W$	U.T. $5^h 18^m - 5^h 48^m$	"	"	"	"	"	"	"	"	"	"	"	
7102	B454, B456, W3 - W5	$13^h 20.7^m$	-3.9°	U.T. MAY 20.25833	$1^h 21^m W$	U.T. $5^h 57^m - 6^h 27^m$	"	4 x 5	"	"	"	"	"	"	"	"	"	finder field not familiar; set on nominal position.
7103	B471, B473, B475, B476	$13^h 54.9^m$	-7.2°	U.T. May 20.28194	$1^h 27^m W$	U.T. $6^h 31^m - 7^h 01^m$	"	8 x 10	"	"	"	"	"	"	"	"	"	
7104	NONE	$12^h 13.7^m$	-3.5°	U.T MAY 21.15833	$0^h 15^m W$	U.T. $3^h 33^m - 4^h 03^m$	"	"	"	"	"	"	"	"	"	"	"	Volcanic ash cloud less dense. PHX bright. seeing 0.9
7105	B445	$12^h 37.0^m$	-10.5°	U.T. MAY 21.18333	$0^h 26^m W$	U.T. $4^h 09^m - 4^h 39^m$	"	"	"	"	"	"	"	"	"	"	"	
7106	NONE	$12^h 13.7^m$	-3.5°	U.T. MAY 21.20764	$1^h 26^m W$	U.T. $4^h 44^m - 5^h 14^m$	"	4X5	"	"	"	"	"	"	"	"	"	
7107	B465, B466	$14^h 50.8^m$	-16.3°	U.T. MAY 21.22778	$0^h 49^m E$	U.T. $5^h 18^m - 5^h 38^m$	"	8 X 10	"	"	"	"	"	"	"	4	"	
7108	B445	$12^h 37.0^m$	-10.5°	U.T. MAY 21.24792	$1^h 59^m W$	U.T. $5^h 42^m - 6^h 12^m$	"	"	"	"	"	"	"	"	"	5	"	
7109	B465, B466	$14^h 50.8^m$	-16.3°	U.T. MAY 21.26806	$0^h 09^m W$	U.T. $6^h 16^m - 6^h 36^m$	"	4x5	"	"	"	"	"	"	"	"	"	
7110	76 GZ2, W10	$15^h 55.0^m$	-16.0°	U.T MAY 21.28403	$0^h 29^m E$	U.T. $6^h 39^m - 6^h 59^m$	"	8x10	"	"	"	"	"	"	"	"	"	
7111	79 QL1, B5, B114	$15^h 50.9^m$	-23.7°	U.T. MAY 21.30069	$0^h 04^m E$	U.T. $7^h 03^m - 7^h 23^m$	"	"	"	"	"	"	"	"	"	4	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1982	H.A. END	EXPOSURE MST-AM-PM	W.E.	INST.	PLATE SIZE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV	REMARKS
7112	76 GZ 2, W10	15h55.0	-16.0	U.T. MAY 21.31736	0h19mW	U.T. 7h27m-7h47	WWV	13"	8x10 103a0	W	D19	5 MIN	68°	N	3	5	BAS	
7113	79QL1, B5, B114	15h50.9	-23.7	U.T. MAY 21.33333	0h43mW	U.T. 7h50m-8h10m	"	"	" "	"	"	"	"	"	"	4	"	
7114	B 152	17h18.1	-27.2	U.T. MAY 21.35000	0h19mE	U.T. 8h14m-8h34m	"	"	4x5 "	"	"	"	"	"	"	"	"	
7115	C/ Bowell	18h19.0	-22.3	U.T. MAY 21.36563	1h00mE	U.T. 8h39m-8h54m	"	"	" "	"	"	"	"	"	"	"	"	
7116	B 152	17h18.1	-27.2	U.T. MAY 21.38472	0h31mW	U.T. 9h04m-9h24m	"	"	" "	"	"	"	"	"	"	"	"	Plate accidentally exposed to daylight. Discarded seeing 1.2. some Moonlight
7117	B440, W1	11h59.2	-3.5	U.T. MAY 26.15972	0h48mW	U.T. 3h35m-4h05m	"	"	8x10 "	"	"	"	"	"	4	"	"	
7118	B 432	12h14.7	+7.6	U.T. MAY 26.18403	1h10mW	U.T. 4h10m-4h40m	"	"	4x5 "	"	"	"	"	"	"	"	"	
7119	B469, B470, B472	14h16.2	-6.8	U.T. MAY 26.20833	0h16mE	U.T. 4h45m-5h15m	"	"	8x10 "	"	"	"	"	"	"	"	"	
7120	B440, W1	11h59.2	-3.5	U.T. MAY 26.23125	2h31mW	U.T. 5h18m-5h48m	"	"	" "	"	"	"	"	"	3	"	"	Moonset + 5h31m
7121	B 432	12h14.7	+7.6	U.T. MAY 26.25486	2h52mW	U.T. 5h52m-6h22m	"	"	4x5 "	"	"	"	"	"	"	"	"	Ralph's new shutter holding open nicely.
7122	B469, B470, B472	14h16.2	-6.8	U.T. MAY 26.27917	1h26mW	U.T. 6h27m-6h57m	"	"	8x10 "	"	"	"	"	"	4	"	"	
7123	B462 - B464	15h10.2	-14.4	U.T. MAY 26.30139	0h58mW	U.T. 7h04m-7h24m	"	"	" "	"	"	"	"	"	"	"	"	R.A. Slip near end. seeing 1.5. NO image motion
7124	78TB7	15h23.4	-1.1	U.T. MAY 26.31806	1h08mW	U.T. 7h28m-7h48m	"	"	" "	"	"	"	"	"	"	"	"	
7125	B462 - B464	15h10.2	-14.4	U.T. MAY 26.33472	1h46mW	U.T. 7h52m-8h12m	"	"	" "	"	"	"	"	"	"	"	"	
7126	78 TB7	15h23.4	-1.1	U.T. MAY 26.35069	1h55mW	U.T. 8h15m-8h35m	"	"	" "	"	"	"	"	"	"	"	"	
7127	B 152	17h14.0	-27.0	U.T. MAY 26.36806	0h31mW	U.T. 8h40m-9h00m	"	"	" "	"	"	"	"	"	"	"	"	
7128	B 152	"	"	U.T. MAY 26.40139	1h18mW	U.T. 9h28m-9h48m	"	"	4x5 "	"	"	"	"	"	3	"	"	
7129	(56)	14h10.0	-5.0	U.T. MAY 26.23723 26.35542 23750	0h26mW	U.T. 5h35m-5h37m 5h38m-5h40m 5h41m-5h43ms	"	"	" "	"	"	"	"	"	"	"	"	seeing 1.2, much image motion. Moonlight, windy, humid. Telescope moved south between exps.
7130	76 GZ2, W10	15h48.4	-17.9	U.T. MAY 28.30347	0h30mW	U.T. 7h07m-7h27m	"	"	8x10 "	"	"	"	"	"	3	"	"	Moonset 7h16m
7131	79QL1, B5, B114	15h43.7	-23.3	U.T. MAY 28.31944	0h58mW	U.T. 7h30m-7h50m	"	"	" "	"	"	"	"	"	"	"	"	old plate holder in nominal position. shutter flap not opening as wide as usual.
7132	76 GZ2, W10	15h48.8	-17.2	U.T. MAY 28.33542	1h16mW	U.T. 7h53m-8h13m	"	"	" "	"	"	"	"	"	"	"	"	Different guide star
7133	79QL1, B5, B114	15h43.7	-23.3	U.T. MAY 28.35208	1h45mW	U.T. 8h17m-8h37m	"	"	" "	"	"	"	"	"	"	"	"	New plateholder
7134	26 FG	17h34.0	-13.9	U.T. MAY 28.37153	0h24mW	U.T. 8h45m-9h05m	"	"	" "	"	"	"	"	"	2	"	"	seeing ~ 1.8. much image motion.
7135	NONE	19h02.0	-21.6	U.T. MAY 28.39097	0h36mW	U.T. 9h13m-9h33m	"	"	" "	"	"	"	"	"	"	"	"	guide star = 0 Sgr.
7136	26 FG	17h34.0	-13.9	U.T. MAY 28.40764	1h16mW	U.T. 9h37m-9h57m	"	"	" "	"	"	"	"	"	"	"	"	
7137	NONE	19h02.0	-21.6	U.T. MAY 28.42361	0h11mW	U.T. 10h00m-10h20m	"	"	" "	"	"	"	"	"	"	"	"	Wind stronger
7138	B 470	13h59.6	-7.7	U.T. JUN 17.18056	0h45mW	U.T. 4h05m-4h35m	"	"	" "	"	"	"	"	"	4	"	"	seeing 1.2. Some twilight at start, some cloud
7139	B 462-B 464	14h13.7	-11.5	U.T. JUN 17.20417	0h26mW	U.T. 4h39m-5h09m	"	"	" "	"	"	"	"	"	"	"	"	still some intermittent cloud

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1982	H.A. END	EXPOSURE MST OR U.T.	W.E.	INST. 13"	PLATE SIZE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD.	OBSV.	REMARKS
7140	W17 - W27	$15^h 52.3^m$	-21.5°	U.T. JUN 17.22778	$0^h 02^m$ W	U.T. $5^h 13^m - 5^h 43^m$	"	"	8x10 103a O	W	D19	5 MIN	68°	N	3	4	BAS	
7141	B 470	$13^h 59.6^m$	$-7.^\circ 7$	U.T. JUN 17.25139	$2^h 47^m$ W	U.T. $5^h 47^m - 6^h 17^m$	"	"	" "	"	"	"	"	"	"	3	"	
7142	B462 - B464	$14^h 53.7^m$	$-11.^\circ 5$	U.T. JUN 17.29535	$2^h 08^m$ W	U.T. $6^h 21^m - 6^h 52^m$	"	"	" "	"	"	"	"	"	"	"	"	
7143	W17 - W27	$15^h 52.3^m$	$-21.^\circ 5$	U.T. JUN 17.29931	$1^h 50^m$ W	U.T. $6^h 56^m - 7^h 26^m$	"	"	" "	"	"	"	"	"	"	"	"	
7144	B462 - B464	$14^h 54.3^m$	$-11.^\circ 3$	U.T. JUN 18.17708	$0^h 09^m$ E	U.T. $4^h 00^m - 4^h 30^m$	"	"	" "	"	"	"	"	"	4	4	"	weak twilight at start
7145	B482, W10	$15^h 39.5^m$	$-13.^\circ 0$	U.T. JUN 18.20069	$0^h 20^m$ E	U.T. $4^h 34^m - 5^h 04^m$	"	"	" "	"	"	"	"	"	"	"	"	
7146	B 212	$17^h 09.0^m$	$-10.^\circ 0$	U.T. JUN 18.22083	$1^h 25^m$ E	U.T. $5^h 08^m - 5^h 28^m$	"	"	" "	"	"	"	"	"	"	"	"	
7147	B462 - B464	$14^h 54.3^m$	$-11.^\circ 3$	U.T. JUN 18.24097	$1^h 21^m$ W	U.T. $5^h 32^m - 6^h 02^m$	"	"	" "	"	"	"	"	"	"	"	"	
7148	B482, W10	$15^h 39.5^m$	$-13.^\circ 0$	U.T. JUN 18.26528	$1^h 13^m$ W	U.T. $6^h 07^m - 6^h 37^m$	"	"	" "	"	"	"	"	"	"	"	"	
7149	B 212	$17^h 09.0^m$	$-10.^\circ 0$	U.T. JUN 18.28542	$0^h 08^m$ W	U.T. $6^h 41^m - 7^h 01^m$	"	"	" "	"	"	"	"	"	"	"	"	
7150	B471, B475	$13^h 46.0^m$	$-8.^\circ 0$	U.T. JUN 19.17708	$1^h 02^m$ W	U.T. $4^h 00^m - 4^h 30^m$	"	"	" "	"	"	"	"	"	3	3	"	
7151	B 152	$16^h 49.8^m$	$-25.^\circ 8$	U.T. JUN 19.21667	$1^h 07^m$ W	U.T. $5^h 02^m - 5^h 22^m$	"	"	" "	"	"	"	"	"	"	"	"	
7152	B471, B475	$13^h 46.0^m$	$-8.^\circ 0$	U.T. JUN 19.23681	$2^h 28^m$ W	U.T. $5^h 26^m - 5^h 56^m$	"	"	4x5 "	"	"	"	"	"	"	"	"	
7153	B 152	$16^h 49.8^m$	$-25.^\circ 8$	U.T. JUN 19.25625	$0^h 05^m$ E	U.T. $5^h 59^m - 6^h 19^m$	"	"	8x10 "	"	"	"	"	"	"	"	"	
7154	38GC, 78RZ5	$17^h 43.5^m$	$-15.^\circ 2$	U.T. JUN 19.27500	$0^h 38^m$ E	U.T. $6^h 26^m - 6^h 46^m$	"	"	4x5 "	"	"	"	"	"	"	"	"	Seeing 1."4
7155	B 232	$17^h 39.5^m$	$-31.^\circ 4$	U.T. JUN 19.29236	$0^h 10^m$ E	U.T. $6^h 51^m - 7^h 11^m$	"	"	" "	"	"	"	"	"	"	"	"	
7156	38GC, 78RZ5	$17^h 43.5^m$	$-15.^\circ 2$	U.T. JUN 19.31042	$0^h 13^m$ W	U.T. $7^h 17^m - 7^h 37^m$	"	"	4x5 "	"	"	"	"	"	"	"	"	
7157	B 232	$17^h 39.5^m$	$-31.^\circ 4$	U.T. JUN 19.32708	$0^h 04^m$ W	U.T. $7^h 41^m - 8^h 01^m$	"	"	8x10 "	"	"	"	"	"	"	"	"	
7158	B 184	$18^h 38.2^m$	$-26.^\circ 2$	U.T. JUN 19.34444	$0^h 06^m$ W	U.T. $8^h 06^m - 8^h 26^m$	"	"	4x5 "	"	"	"	"	"	"	"	"	First out of new box of plates. Exposed on same plate as 7159. Moved 3. between exposures. Exposed on same plate as 7157.
7159	AGK +21° 1949	$19^h 14.1^m$	$+21.^\circ 3$	U.T. JUN 19.35	$0^h 22^m$ E	U.T. $\sim 8^h 31$	10s exposure	"	" "	"	"	"	"	"	"	4	"	
7160	B 184	$18^h 38.2^m$	$-26.^\circ 2$	U.T. JUN 19.38750	$1^h 08^m$ W	U.T. $9^h 08^m - 9^h 28^m$	"	"	" "	"	"	"	"	"	"	3	"	
7161	B465, B481	$14^h 31.7^m$	$-18.^\circ 3$	U.T. JUN 20.17708	$0^h 21^m$ W	U.T. $4^h 00^m - 4^h 30^m$	"	"	" "	"	"	"	"	"	2	4	"	some clouds; seeing 1."2
7162	B 465, B481	"	"	U.T. JUN 20.24375	$1^h 57^m$ W	U.T. $5^h 36^m - 6^h 06^m$	"	"	8x10 "	"	"	"	"	"	4'	3	"	
7163	C/ Bowell	$18^h 11.1$	$-22.^\circ 5$	U.T. JUN 20.26424	$1^h 21^m$ E	U.T. $6^h 13^m - 6^h 28^m$	"	"	" "	"	"	"	"	"	"	"	"	
7164	AGK +21° 1949	$19^h 14.1^m$	$+21.^\circ 3$	U.T. JUN 20.27	$2^h 15^m$ E	U.T. $6^h 34^m.0$ $6^h 34^m.5$ $6^h 35^m.5$ 5s exps.	"	"	" "	"	"	"	"	"	"	"	"	
7165	(699)	$19^h 51.7^m$	$+1.^\circ 1$	U.T. JUN 21.30833	$1^h 52^m$ E	U.T. $7^h 14^m - 7^h 34^m$	"	"	4x5 "	"	"	"	"	"	3	5	"	seeing < 1."0
7166	(1370), B7	$19^h 16.2^m$	$-28.^\circ 7$	U.T. JUN 21.32500	$0^h 56^m$ E	U.T. $7^h 38^m - 7^h 58^m$	"	"	8x10 "	"	"	"	"	"	"	3	"	
7167	(699)	$19^h 51.7^m$	$+1.^\circ 1$	U.T. JUN 21.34306	$1^h 02^m$ E	U.T. $8^h 04^m - 8^h 24^m$	"	"	4x5 "	"	"	"	"	"	"	5	"	

1 plate (★)

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1982	H.A. END	EXPOSURE MST OR U.T.	W.E.	INST.	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
7168	(1370), B7	$19^h16.2^M$	$-28.^\circ7$	U.T. JUN 21.36042	$0^h05^M E$	U.T. $8^h29^m - 8^h49^m$	WWV	13"	8x10	103a-0	W	D19	5 MIN	68°	N	3	3	BAS	
7169	B482	$15^h36.5^M$	$-15.^\circ1$	U.T. JUL 10.17500	$0^h33^M W$	U.T. $3^h57^m - 4^h27^m$	"	"	4x5	"	"	"	"	"	"	"	4	"	some twilight seeing ≤ 1.0" at equator
7170	~~52~~ 52UZ1, 73UX5	$15^h46.0^M$	$-22.^\circ8$	U.T. JUL 10.19861	$0^h56^M W$	U.T. $4^h31^m - 5^h01^m$	"	"	"	"	"	"	"	"	"	5'	3	"	
7171	B 482	$15^h36.5^M$	$-15.^\circ1$	U.T. JUL 10.22708	$1^h48^M W$	U.T. $5^h12^m - 5^h42^m$	"	"	"	"	"	"	"	"	"	4	"	"	Moonrise ~ 5^h20^M
7172	52UZ1, 73UX5	$15^h44.5^M$	$-22.^\circ9$	U.T. JUL 12.17500	$0^h31^M W$	U.T. $3^h57^m - 4^h27^m$	"	"	"	"	"	"	"	"	"	5	"	"	
7173	C/Bowell	$18^h01.9^M$	$-22.^\circ7$	U.T. JUL 12.19340	$1^h08^M E$	U.T. $4^h31^m - 4^h46^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7174	52UZ1, 73UX5	$15^h44.5^M$	$-22.^\circ9$	U.T. JUL 12.21667	$1^h31^m W$	U.T. $4^h57^m - 5^h27^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7175	C/Hartley 1982h	$16^h50.2^M$	$-5.^\circ7$	U.T. JUL 15.17014	$0^h34^M E$	U.T. $3^h55^M - 4^h15^m$	"	"	8x10	"	"	"	"	"	"	4	4	"	seeing 1.0" at equator
7176	B 203	$19^h24.0^M$	$+0.^\circ6$	U.T. JUL 15.18819	$2^h40^M E$	U.T. $4^h21^m - 4^h41^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7177	C/Hartley 1982h	$16^h50.2^M$	$-5.^\circ7$	U.T. JUL 15.20556	$0^h17^M W$	U.T. $4^h46^m - 5^h06^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7178	B 203	$19^h24.0^M$	$+0.^\circ6$	U.T. JUL 15.22222	$1^h49^M E$	U.T. $5^h10^M - 5^h30^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7179	78 RDG, 78SPZ, 81JC2	$19^h59.0^M$	$+6.^\circ1$	U.T. JUL. 15.23889	$2^h03^M E$	U.T. $5^h34^m - 5^h54^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7180	" " "	"	"	U.T. JUL. 15.28125	$1^h02^m E$	U.T. $6^h35^m - 6^h55^m$	"	"	"	"	"	"	"	"	"	"	"	"	seeing 1.8" at equator. some lightning
7181	77 PW1, T37	$19^h55.7^M$	$-19.^\circ0$	U.T. JUL 17.25694	$1^h26^M E$	U.T. $6^h00^m - 6^h20^m$	"	"	4x5	"	"	"	"	"	"	3	"	"	
7182	2563P-L, B206, B219, T38	$20^h25.5^M$	$-18.^\circ0$	U.T. JUL 17.27292	$1^h35^m E$	U.T. $6^h23^m - 6^h43^m$	"	"	8x10	"	"	"	"	"	"	"	3	"	
7183	77 PW1, T37	$19^h55.7^M$	$-19.^\circ0$	U.T. JUL 17.28958	$0^h39^m E$	U.T. $6^h47^m - 7^h07^m$	"	"	4x5	"	"	"	"	"	"	"	4	"	
7184	2563P-L, 206, B219, T38	$20^h25.5^M$	$-18.^\circ0$	U.T. JUL 17.30486	$0^h49^M E$	U.T. $7^h09^m - 7^h29^m$	"	"	8x10	"	"	"	"	"	"	"	3	"	seeing 1.5" at equator
7185	(662), (954), (970), (1312), (1394), (1478), (1731), (2170), (2439)	$21^h23.9^M$	$-14.^\circ5$	U.T. JUL 17.32153	$1^h21^M E$	U.T. $7^h33^m - 7^h53^m$	"	"	"	"	"	"	"	"	"	"	4	"	
7186	(1136), (2000), B207	$21^h42.8^M$	$+4.^\circ6$	U.T. JUL 17.33681	$1^h18^M E$	U.T. $7^h55^m - 8^h15^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7187	(662), (954), (970), (1312), (1394), (1478), (1731), (2170), (2439)	$21^h23.9^M$	$-14.^\circ5$	U.T. JUL 17.35278	$0^h36^m E$	U.T. $8^h18^m - 8^h38^m$	"	"	"	"	"	"	"	"	"	4	"	"	lightning almost stopped
7188	(1136), (2000), B207	$21^h42.8^M$	$+4.^\circ6$	U.T. JUL 17.36806	$0^h33^M E$	U.T. $8^h40^m - 9^h00^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7189	(67), (903), (1585), (1855), 69TC3	$22^h24.0^M$	$-2.^\circ7$	U.T. JUL 18.38819	$0^h39^M E$	U.T. $9^h04^m - 9^h34^m$	"	"	"	"	"	"	"	"	"	"	"	"	Manually shutter binding, opened V
7190	(67), (903), (1585). (1855), 69TC3	$22^h24.0^M$	$-2.^\circ7$	U.T. JUL 17.43681	$0^h31^m W$	U.T. $10^h14^m - 10^h44^m$	"	"	"	"	"	"	"	"	"	"	"	"	seeing 1.2" at equator. lightning Low SW.
7191	B483, B484	$21^h20.8^M$	$-18.^\circ2$	U.T. JUL 24.29861	$1^h24^M E$	U.T. $7^h00^M - 7^h20^m$	"	"	"	"	"	"	"	"	"	3	3	"	
7192	B485, B486	$22^h18.3^M$	$-6.^\circ1$	U.T. JUL 24.31875	$1^h48^M E$	U.T. $7^h24^m - 7^h54^M$	"	"	"	"	"	"	"	"	"	"	"	"	
7193	B483, B484	$21^h20.8^M$	$-18.^\circ2$	U.T. JUL 24.33819	$0^h27^M E$	U.T. $7^h57^M - 8^h17^m$	"	"	"	"	"	"	"	"	"	4	"	"	
7194	B485, B486	$22^h18.3^M$	$-6.^\circ1$	U.T. JUL 24.35694	$0^h53^M E$	U.T. $8^h19^m - 8^h49^m$	"	"	"	"	"	"	"	"	"	4	"	"	More lightning, E to SW horizon
7195	(765), (1595), (2324), (2469), 78VQ5	$22^h46.9^M$	$-9.^\circ8$	U.T. JUL 24.38056	$0^h46^M E$	U.T. $8^h53^m - 9^h23^m$	"	"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC	DATE 1982	H.A. END	EXPOSURE MST or U.T.	W.E.	INST.	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS	SEEING STEAD	OBSV	REMARKS
7196	78 RR5	$23^h 20.7^m$	$-20.0°$	U.T. JUL 24 40278	$0^h 48^m E$	U.T. $9^h 25^m - 9^h 55^m$	"	13"	4X5	103a0	W	D19	5 MIN	68°	N	1	3	BAS	Clouds. Guide star obscured much of time
7197	(1765), (1545), (2324), (2469), 78VQ5	$22^h 46.9^m$	$-9°8$	U.T. JUL 24. 43611	$0^h 34^m W$	U.T. $10^h 13^m - 10^h 43^m$	"	"	8x10	"	"	"	"	"	"	2	"	"	more clouds some lightening N.E.
7198	C/ Bowell	$18^h 02.4^m$	$-23°0$	U.T. AUG 17.14271	$0^h 18^m E$	U.T. $3^h 18^m - 3^h 33^m$	"	"	4x5	"	"	"	"	"	"	3	4	"	Seeing 1.0 at equator
7199	(2216) (2385), B487, B488	$19^h 48.2^m$	$-16.5°$	U.T. AUG 17. 19931	$0^h 36^m E$	U.T. $4^h 32^m - 5^h 02^m$	"	"	8x10	"	"	"	"	"	"	"	"	"	Slight cloud
7200	(1568)(2170), B483	$20^h 39.7^m$	$-12°3$	U.T. AUG. 17.21875	$1^h 05^m E$	U.T. $5^h 05^m - 5^h 25^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7201	(2216), (2385), B487 B488	$19^h 48.2^m$	$-16.5°$	U.T. AUG 17.23750	$0^h 19^m W$	U.T. $5^h 27^m - 5^h 57^m$	"	"	"	"	"	"	"	"	"	"	"	"	clouds
7202	(1568), (2170), B483	$20^h 39.7^m$	$-12°3$	U.T. AUG 17. 26250	$0^h 02^m E$	U.T. $6^h 08^m - 6^h 28^m$	"	"	"	"	"	"	"	"	"	"	"	"	clouds
7203	(1568), (2170), B483	$20^h 32.4^m$	$-12°3$	U.T. AUG 26. 25833	$0^h 37^m W$	U.T. $6^h 02^m - 6^h 22^m$	"	"	"	"	"	"	"	"	"	"	"	"	Humid, lightning. Moonset $6^h 10^m$. Seeing 1.2 at equator
7204	(2185), (2215), (2315), (2428), 77CA, B118, B484	$21^h 24.8^m$	$-29°7$	U.T. AUG 26. 27431	$0^h 07^m W$	U.T. $6^h 25^m - 6^h 45^m$	"	"	"	"	"	"	"	"	"	"	3	"	
7205	(96), (903), (2410), (2542) (2697), 81GA, B489, B492	$21^h 54.6^m$	$-11°4$	U.T. AUG 26. 32917	$0^h 58^m W$	U.T. $7^h 44^m - 8^h 04^m$	"	"	"	"	"	"	"	"	"	"	4	"	fog coming up from Lake.
7206	(29), (122), (260), (710), (1481), (2153), (2270), 77RB, B233	$23^h 36.4^m$	$-6.0°$	U.T. AUG 26.34861	$0^h 11^m E$	U.T. $8^h 07^m - 8^h 37^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7207	(96), (903), (2410), (2542) (2697) 81GA, B489, B492	$21^h 54.6^m$	$-11.4°$	U.T. AUG 26.36875	$1^h 55^m W$	U.T. $8^h 41^m - 9^h 01^m$	"	"	"	"	"	"	"	"	"	3	3	"	Objective fogging
7208	(29), (122), (260), (716), (1481), (2153), (2270), 77RB, B233	$23^h 36.4^m$	$-6.0°$	U.T. AUG 26.38819	$0^h 46^m W$	U.T. $9^h 04^m - 9^h 34^m$	"	"	"	"	"	"	"	"	"	4	4	"	Objective fogged seeing 1.2 at equator. Windy
7209	C/ Bowell	$18^h 11.8^m$	$-23°2$	U.T. SEP 13.12535	$0^h 53^m W$	U.T. $2^h 53^m - 3^h 08^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7210	B 489	$21^h 39.0^m$	$-10.5°$	U.T. SEP 13. 14792	$1^h 54^m E$	U.T. $3^h 18^m - 3^h 48^m$	"	"	4X5	"	"	"	"	"	"	"	"	"	
7211	B 110	$21^h 55.2^m$	$+15.4°$	U.T. SEP 13. 16736	$1^h 48^m E$	U.T. $3^h 51^m - 4^h 11^m$	"	"	8x10	"	"	"	"	"	"	"	"	"	
7212	(2469), 66DH, 81JF2	$22^h 21.4^m$	$-9°3$	U.T. SEP 13. 18681	$1^h 51^m E$	U.T. $4^h 14^m - 4^h 34^m$	"	"	"	"	"	"	"	"	"	"	"	"	Clouds opaque for 10M.
7213	B 489	$21^h 39.0^m$	$-10.5°$	U.T. SEP 13. 21042	$0^h 24^m E$	U.T. $4^h 48^m - 5^h 18^m$	"	"	"	"	"	"	"	"	"	2	"	"	Clouds at start.
7214	B 110	$21^h 55.2^m$	$+15.4°$	U.T. SEP 13. 22917	$0^h 20^m E$	U.T. $5^h 20^m - 5^h 40^m$	"	"	"	"	"	"	"	"	"	3	"	"	
7215	(2469), 66DH, 81JF2	$22^h 15.7^m$	$-9°1$	U.T. SEP. 15.16042	$2^h 10^m E$	U.T. $3^h 41^m - 4^h 01^m$	"	"	"	"	"	"	"	"	"	4	"	"	Clouds again.
7216	78RF, 78RU, 78UC	$22^h 42.5^m$	$-8°5$	U.T. SEP 15. 17639	$2^h 13^m E$	U.T. $4^h 04^m - 4^h 24^m$	"	"	"	"	"	"	"	"	"	4	4	"	
7217	(2469), 66DH, 81JF2	$22^h 15.7^m$	$-9°1$	U.T. SEPT. 15.19444	$1^h 21^m E$	U.T. $4^h 30^m - 4^h 50^m$	"	"	"	"	"	"	"	"	"	"	"	"	seeing ~ 1.4 near this field
7218	78RF, 78RU, 78UC	$22^h 42.5^m$	$-8°5$	U.T. SEPT 15. 21042	$1^h 24^m E$	U.T. $4^h 53^m - 5^h 13^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7219	(2128), (2270), B 233	$23^h 16.2^m$	$-6°4$	U.T. SEPT 15. 22708	$1^h 34^m E$	U.T. $5^h 17^m - 5^h 37^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7220	B 161	$23^h 41.0^m$	$-13°8$	U.T. SEPT 15. 24653	$1^h 25^m E$	U.T. $5^h 40^m - 6^h 10^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7221	(2128), (2270), B233	$23^h 16.2^m$	$-6°4$	U.T. SEPT 15. 26597	$0^h 39^m E$	U.T. $6^h 13^m - 6^h 33^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7222	B 161	$23^h 41.0^m$	$-13°8$	U.T. SEPT. 15. 28472	$0^h 30^m E$	U.T. $6^h 35^m - 7^h 05^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7223	(2234), (2383), B190	$0^h 01.9^m$	$-0.5°$	V.T. SEPT. 15. 30347	$0^h 29^m E$	U.T. $7^h 07^m - 7^h 27^m$	"	"	"	"	"	"	"	"	"	"	"	"	

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7224	75 RB	$23^h52.6^m$	+13.°1	U.T. SEPT. 15.31944	0^h04^m W	U.T. 7^h30^m - 7^h50^m	WWV	13"	8 X 10	103a0	W	D19	68"	68°	N	4	4	BAS	
7225	(1011), 78 TQ7	$1^h47.5^m$	+ 1.°2	U.T. SEPT. 15.33889	1^h17^m E	U.T. 7^h53^m - 8^h23^m	"	"	"	"	"	"	5 min	"	"	"	"	"	
7226	(2234), (2383), B190	$0^h01.9^m$	-0.°5	U.T. SEPT. 15.35833	0^h50^m W	U.T. 8^h26^m - 8^h46^m	"	"	"	"	"	"	"	"	"	"	"	"	
7227	75 RB	$23^h57.6^m$	+13.°	U.T. SEPT 15.37361	1^h22^m W	U.T. 8^h48^m 9^h08^m	"	"	"	"	"	"	"	"	"	"	"	"	
7228	(2494), 42TJ, B225	$1^h01.3^m$	+21.°8	U.T. SEPT 15.38889	0^h35^m W	U.T. 9^h10^m - 9^h30^m	"	"	"	"	"	"	"	"	"	"	"	"	
7229	(1011), 78TQ7	$1^h47.5^m$	+1.°2	U.T. SEPT 15.40833	0^h23^m W	U.T. 9^h33^m - 10^h03^m	"	"	"	"	"	"	"	"	"	"	"	"	Phoenix glow to $\delta = 40°$
7230	(2494), 42TJ, B225	$1^h01.3^m$	+21.°8	U.T. SEPT 15.42708	1^h30^m W	U.T. 10^h05^m - 10^h25^m	"	"	"	"	"	"	"	"	"	"	"	"	seeing 1.5 nearly, images soft. Driving plate holder. wrong motion used.
7231	Shoemaker FMO	$19^h55.5^m$	-10.°6	U.T. SEPT 21.16042	0^h25^m W	U.T. 3^h41^m - 4^h01^m	"	"	4X5	"	"	"	"	"	"	"	"	"	Driving plateholder, wrong Motion used.
7232	Shoemaker FMO	$19^h55.5^m$	-10.°6	U.T. SEPT 21.17778	0^h50^m W	U.T. 4^h06^m - 4^h26^m	"	"	"	"	"	"	"	"	"	"	"	"	seeing 1.3" at equator Moderate breeze causing some image motion.
7233	B 110	$21^h47.0^m$	+15.°1	U.T. SEPT 21.19444	0^h27^m W	U.T. 4^h30^m - 4^h50^m	"	"	"	"	"	"	"	"	"	"	"	"	
7234	78UC, B506, B507	$22^h38.0^m$	- 6.°4	U.T. SEPT 21.20972	0^h56^m W	U.T. 4^h52^m - 5^h12^m	"	"	8 X10	"	"	"	"	"	"	3	"	"	
7235	B 492 - B 496	$23^h19.3^m$	-4.°6	U.T. SEPT. 21.23542	1^h00^m E	U.T. 5^h29^m - 5^h49^m	"	"	"	"	"	"	"	"	"	"	"	"	Jog in $\delta \sim 10'$ from start. gusty wind, clouds gathering image motion ~ 5."
7236	B 110	$21^h47.0^m$	+15.°1	U.T. SEPT 21.25139	1^h05^m W	U.T. 5^h52^m - 6^h12^m	"	"	4 X5	"	"	"	"	"	"	3	"	"	persistent clouds throughout exposure.
7237	78UC, B506, B507	$22^h38.0^m$	-6.°4	U.T. SEPT. 21.26667	0^h18^m W	U.T. 6^h14^m - 6^h34^m	"	"	8X10	"	"	"	"	"	"	"	"	"	twilight, moonlight
7238	B 492 - B496	$23^h19.3^m$	-4.°6	U.T. SEPT 21.28194	0^h07^m W	U.T. 6^h36^m - 6^h56^m	"	"	"	"	"	"	"	"	"	4	"	"	
7239	c/AUSTIN (82g)	$12^h47.6^m$	+39.°0	U.T. SEPT 22.10208	6^h15^m W	U.T. 2^h26^m - 2^h28^m	"	"	4X5	"	"	"	"	"	"	"	"	"	lightning N.E. Driving plateholder. $V = 36.9$ Hz, $\phi = 8.45 - 336°$
7240	c/AUSTIN (82g)	$12^h47.6^m$	+39.°0	U.T. SEPT 22.10938	6^h03^m W	U.T. 2^h35^m - 2^h40^m	"	"	"	"	"	"	"	"	"	"	4	"	GS 7241. Seeing 1."2 Nearly
7241	Shoemaker FMO	$19^h53.0^m$	-9.°1	U.T. SEPT 22.12639	0^h08^m E	U.T. 2^h52^m - 3^h12^m	"	"	"	"	"	"	"	"	"	"	"	"	Moonset during exposure
7242	"	"	"	U.T. SEPT 22.14514	0^h19^m W	U.T. 3^h19^m - 3^h39^m	"	"	8 X10	"	"	"	"	"	"	3	"	"	
7243	B 492 - B 496	$23^h18.6^m$	-4.°8	U.T. SEPT 22.16736	2^h49^m E	U.T. 3^h51^m - 4^h11^m	"	"	"	"	"	"	"	"	"	"	"	"	
7244	B161, B508-B512	$23^h41.0^m$	-10.°3	U.T. SEPT 22.18472	2^h31^m E	U.T. 4^h16^m - 4^h36^m	"	"	4X5	"	"	"	"	"	"	4	"	"	
7245	Shoemaker FMO	$19^h52.5^m$	-9.°0	U.T. SEPT 22.20208	2^h00^m W	U.T. 4^h41^m - 5^h01^m	"	"	8X10	"	"	"	"	"	"	"	"	"	
7246	B 492 - B 496	$23^h18.6^m$	-4.°8	U.T. SEPT 22.21806	1^h36^m E	U.T. 5^h04^m - 5^h24^m	"	"	"	"	"	"	"	"	"	"	"	"	
7247	B161, B508 - B512	$23^h41.0^m$	-10.°3	U.T. SEPT 22.23333	1^h21^m E	U.T. 5^h26^m - 5^h46^m	"	"	"	"	"	"	"	"	"	"	"	"	
7248	B 498	$23^h44.0^m$	+1.°2	U.T. SEPT 22.24861	0^h59^m E	U.T. 5^h48^m - 6^h08^m	"	"	"	"	"	"	"	"	"	"	"	"	
7249	72 RX3, B17	$0^h18.5^m$	-13.°0	U.T. SEPT. 22.26458	1^h13^m E	U.T. 6^h11^m - 6^h31^m	"	"	"	"	"	"	"	"	"	"	"	"	
7250	B 498	$23^h44.0^m$	+1.°2	U.T. SEPT. 22.27986	0^h46^m E	U.T. 6^h33^m - 6^h53^m	"	"	"	"	"	"	"	"	"	"	"	"	
7251	72 RX3, B17	$0^h18.5^m$	-13.°0	U.T. SEPT. 22.29514	0^h27^m E	U.T. 6^h55^m - 7^h15^m	"	"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1982	H.A. END	EXPOSURE MST OR UT.	W.E.	INST	PLATE SIZE	PLATE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSY.	REMARKS
7252	(2433), 75VD, 78 P03	$0^h 49.0^m$	$+5.8^\circ$	U.T. SEPT. 22.31389	$0^h 33^m E$	U.T. $7^h 22^m - 7^h 42^m$	WWV	13"	8x10	103a0	W	D19	5 MIN	68°	N	4	4	BAS	
7253	81JC, 81JU2	$1^h 06.5^m$	$+12.2^\circ$	U.T. SEPT 22.32917	$0^h 28^m E$	U.T. $7^h 44^m - 8^h 04^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7254	(1011), B502, B503	$1^h 56.6^m$	$+6.8^\circ$	U.T. SEPT 22.34861	$0^h 45^m E$	U.T. $8^h 07^m - 8^h 37^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7255	(2433), 75VD, 78P03	$0^h 49.0^m$	$+5.8^\circ$	U.T. SEPT 22.36736	$0^h 44^m W$	U.T. $8^h 39^m - 8^h 59^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7256	81 JC, 81 JU2	$1^h 06.5^m$	$+12.2^\circ$	U.T. SEPT 22.38264	$0^h 49^m W$	U.T. $9^h 01^m - 9^h 21^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7257	(1011), B502 & B503	$1^h 56.6^m$	$+6.8^\circ$	U.T. SEPT 22.40139	$0^h 31^m W$	U.T. $9^h 23^m - 9^h 53^m$	"	"	"	"	"	"	"	"	"	"	"	"	Driving plateholder. $\bar{v}=142$ km obs z 5.70 $\phi_{TIME}=67.9$
7258	P/Churyumov-Gerasimenko	$3^h 52.5^m$	$+12.6^\circ$	U.T. SEPT 22.42639	$0^h 49^m E$	U.T. $9^h 59^m - 10^h 29^m$	"	"	"	"	"	"	"	"	"	"	"	"	Weak aurora in progress to N. GS 7258
7259	P/Churyumov-Gerasimenko	"	"	U.T. SEPT 22.45417	$0^h 09^m E$	U.T. $10^h 39^m - 11^h 09^m$	"	"	4x5	"	"	"	"	"	"	"	"	"	Moonset $7^h 00^m$ Driving $\bar{v}=13.248$ plateholder ϕ dial = 61.6
7260	82 SA	$23^h 43.4^m$	$+9.7^\circ$	U.T. SEPT 26.29444	$0^h 25^m W$	U.T. $6^h 54^m - 7^h 14^m$	"	"	"	"	"	"	"	"	"	3	3	"	
7261	82 SA	"	"	U.T. SEPT 26.31458	$0^h 54^m W$	U.T. $7^h 23^m - 7^h 43^m$	"	"	"	"	"	"	"	"	"	"	"	"	As 7260 seeing 1".5 to 3".0. Plate out of focus
7262	C/Bowell	$18^h 34.8^m$	-23.2°	U.T. OCT 9.09063	$1^h 23^m W$	U.T. $2^h 03^m - 2^h 18^m$	"	"	"	"	"	"	"	"	"	4	2	"	
7263	B531 - B533	$23^h 27.8^m$	-0.1°	U.T. OCT 09.10972	$2^h 55^m E$	U.T. $2^h 23^m - 2^h 53^m$	"	"	"	"	"	"	"	"	"	"	3	"	Volcanic dust afterglow
7264	B509-B512, B521, B523	$23^h 21.7^m$	-12.7°	U.T. OCT 09.13264	$2^h 15^m E$	U.T. $2^h 56^m - 3^h 26^m$	"	"	8x10	"	"	"	"	"	"	"	"	"	SKy bright
7265	B531 - B533	$23^h 27.8^m$	-0.1°	U.T. OCT 09.17639	$1^h 19^m E$	U.T. $3^h 59^m - 4^h 29^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7266	B509-B512, B521, B523	$23^h 21.7^m$	-12.7°	U.T. OCT 09.19861	$0^h 40^m E$	U.T. $4^h 31^m - 5^h 01^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7267	(629), (1833), (2434), B498, B522, B526, B527	$23^h 44.1^m$	-12.7°	U.T. OCT 11.15694	$1^h 55^m E$	U.T. $3^h 31^m - 4^h 01^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7268	(13), G5UU1, B525 - B529	$0^h 09.6^m$	-15.8°	U.T. OCT 11.17986	$1^h 46^m E$	U.T. $4^h 04^m - 4^h 34^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7269	(2412), B536 - B538	$0^h 45.7^m$	$+14.3^\circ$	U.T. OCT 11.20000	$1^h 58^m E$	U.T. $4^h 38^m - 4^h 58^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7270	(629), (1833), (2434), B498, B522, B526, B527	$23^h 44.1^m$	-12.7°	U.T. OCT 11.22014	$0^h 24^m E$	U.T. $5^h 02^m - 5^h 32^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7271	(13), G5UU1, B525 - B529	$0^h 09.6^m$	-15.8°	U.T. OCT 11.24236	$0^h 16^m E$	U.T. $5^h 34^m - 6^h 04^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7272	(2412), B536 - B538	$0^h 45.7^m$	$+14.3^\circ$	U.T. OCT 11.26181	$0^h 29^m E$	U.T. $6^h 07^m - 6^h 27^m$	"	"	"	"	"	"	"	"	"	"	4	"	Driving plateholder $\phi_{TIME}=263°6$. $\bar{v}=23.1$ KE. Driven as 7273. Seeing 1".7 continuously, 1".1 intermittently some light cirrus. apparently dissipating.
7273	HeLin FMO	$23^h 43.8^m$	-0.7°	U.T. OCT 13.27778	$1^h 03^m W$	U.T. $6^h 30^m - 6^h 50^m$	"	"	4x5	"	"	"	"	"	"	"	"	"	
7274	" "	"	"	U.T. OCT 13.29722	$1^h 31^m W$	U.T. $6^h 58^m - 7^h 18^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7275	(1413), (1776), 78TQ7, B501, B502, B503	$1^h 31.5^m$	$+0.3^\circ$	U.T. OCT 13.31389	$0^h 10^m W$	U.T. $7^h 22^m - 7^h 42^m$	"	"	8x10	"	"	"	"	"	"	"	"	"	
7276	(1457), (1908), (2168), 78SW6, B220	$1^h 56.8^m$	$+18.2^\circ$	U.T. OCT 13.32986	$0^h 05^m W$	U.T. $7^h 45^m - 8^h 05^m$	"	"	"	"	"	"	"	"	"	"	"	"	Freezer $-14°C$. ambient $0°C$.
7277	(1413), (1776), 78TQ7, B501 - B503	$1^h 31.5^m$	$+0.3^\circ$	U.T. OCT 13.34583	$0^h 36^m W$	U.T. $8^h 08^m - 8^h 28^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7278	(1457) (1908), (2168), 78SW6, B220	$1^h 56.8^m$	$+18.2^\circ$	U.T. OCT 13.36111	$0^h 50^m W$	U.T. $8^h 30^m - 8^h 50^m$	"	"	"	"	"	"	"	"	"	"	"	"	
7279	(55), (395), (610), (1181), (1292), 78QW2, 78QB3, 80DA	$2^h 33.6^m$	$+20.2^\circ$	U.T. OCT 13.37639	$0^h 24^m W$	U.T. $8^h 52^m - 9^h 12^m$	"	"	"	"	"	"	"	"	"	"	"	"	

NEG	OBJECT OR	Position		DATE	H.A.	EXPOSURE		INST	PLATE		telescope	DEVELOPMENT			WRITING	SEEING		OBSV.	REMARKS
#	GUIDE	R.A.	DEC.	1982	END	MST OR U.T.	W.E.		size	Type	Position	KIND	TIME	TEMP		TRANS.	STEAD		
7280	(1530), (1712), (1885), (2358),	2h 43.2m	+28°.2	U.T. OCT. 13.39236	0h 50m W	U.T. 9h15m - 9h35m	WWV	13"	8x10	103aO	W	D19	6 MIN	68°	N	4	4	BAS	→
7281	(55), (395), (610), (1181), (1292), 78QW2, 78QB3, 80DA	2h 33.6m	+20°.2	U.T. OCT 13.40833	1h 10m W	U.T. 9h38m - 9h58m	"	"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	"	"	Weak Moonlight.
7282	(1530), (1712), (1885), (2358)	2h 43.2m	+28°.2	U.T. OCT 13.42361	1h 30m W	U.T. 10h00m - 10h20m	"	"	"	"	"	"	"	"	"	"	"	"	seeing ~1.3" at equater
7283	C/ Bowell	18h 41.7m	-23°.1	U.T. OCT 17.08576	1h 42m W	U.T. 1h56m - 2h11m	"	"	4x5	"	"	"	"	"	"	"	"	"	
7284	B 531 - B533	23h 25.8m	-1°.0	U.T. OCT 17.10625	2h 26m E	U.T. 2h18m - 2h48m	"	"	8x10	"	"	"	"	"	"	"	3	"	
7285	B509-B512, B521, B523	23h 19.0m	-13°.2	U.T. OCT 17.12847	1h 48m E	U.T. 2h50m - 3h20m	"	"	"	"	"	"	"	"	"	"	"	"	
7286	B498, B523	23h 44.0m	-12°.8	U.T. OCT 17.15069	1h 40m E	U.T. 3h22m - 3h52m	"	"	"	"	"	"	"	"	"	"	4	"	Driving plateholder. ν= 25.9Hz ΘTime = 264.2 Θdial = 95.8
7287	82TA	23h 27.7m	-1°.0	U.T. OCT 17.17153	0h 58m E	U.T. 3h57m - 4h17m	"	"	4x5	"	"	"	"	"	"	"	"	"	Driven as 7287
7288	82TA	"	"	U.T. OCT 17.18958	0h 32m E	U.T. 4h23m - 4h43m	"	"	"	"	"	"	"	"	"	"	"	"	
7289	B531 - B533	23h 25.8m	-1°.0	U.T. OCT 17.20833	0h 01m W	U.T. 4h45m - 5h15m	"	"	8x10	"	"	"	"	"	"	"	"	"	
7290	B509 - B512, B521, B523	23h 19.0m	-13°.2	U.T. OCT 17.23056	0h 39m W	U.T. 5h17m - 5h47m	"	"	"	"	"	"	"	"	"	"	"	"	
7291	B498, B523	23h 44.0m	-12°.8	U.T. OCT 17.25278	0h 47m W	U.T. 5h49m - 6h19m	"	"	"	"	"	"	"	"	"	"	"	"	
7292	(160), (1020), (1979), (2139), (2252), (2348), (2526)	1h 16.0m	+9°.2	U.T. OCT 17.27153	0h 22m E	U.T. 6h21m - 6h41m	"	"	"	"	"	"	"	"	"	"	"	"	Gegenschein conspicuous
7293	B501 - B503, B543 - B548	1h 28.0m	-0°.2	U.T. OCT 17.28681	0h 12m E	U.T. 6h43m - 7h03m	"	"	"	"	"	"	"	"	"	"	"	"	telescope breakdown
7294	(160), (1020), (1979), (2139), (2252), (2348), (2526).	1h 16.0m	+9°.2	U.T. OCT 17.30063	0h 22m W	U.T. 7h05m - 7h20m48s	"	"	"	"	"	"	"	"	"	"	"	"	seeing 1.2" on equator at 2h H.A.
7295	B519, B536, B537, B539 - B542	0h 36.2m	+13°.8	U.T. OCT 21.15278	2h 17m E	U.T. 3h30m - 3h50m	"	"	"	"	"	"	"	"	"	"	"	"	Driving plateholder. ν= 25.9 HZ, ΘTIME = 264°.2
7296	82TA	23h 11.6m	-1°.9	U.T. OCT 21.17014	0h 27m E	U.T. 3h55m - 4h15m	"	"	4x5	"	"	"	"	"	"	"	"	"	Driven as #7296
7297	82TA	"	"	U.T. OCT 21.18889	0h 00m	U.T. 4h22m - 4h42m	"	"	"	"	"	"	"	"	"	"	5	"	
7298	B17, B525 - B529	0h 02.9m	-15°.9	U.T. OCT 21.20833	0h 18m E	U.T. 4h45m - 5h15m	"	"	8x10	"	"	"	"	"	"	"	"	"	Plates 7300, 7301 exposed on same plate
7299	B519, B536, B537, B539 - B542	0h 36.2m	+13°.8	U.T. OCT 21.22778	0h 29m E	U.T. 5h18m - 5h38m	"	"	"	"	"	"	"	"	"	"	"	"	~~plate apparently Lost~~
7300	B17, B525 - B529	0h 02.9m	-15°.9	U.T. OCT 21.24653	0h 37m W	U.T. 5h40m - 6h10m	"	"	"	"	"	"	"	"	"	"	"	"	
7301	B501 - B503, B543 - B548	1h 24.3m	-0°.4	U.T. OCT 21.26806	0h 18m E	U.T. 6h16m - 6h36m	"	"	"	"	"	"	"	"	"	"	"	"	
7302	(481), (942), B35	1h 56.3m	-0°.2	U.T. OCT 21.28333	0h 28m E	U.T. 6h38m - 6h58m	"	"	"	"	"	"	"	"	"	"	"	"	
7303	B501 - B503, B543 - B548	1h 24.3m	-0°.4	U.T. OCT 21.30069	0h 29m W	U.T. 7h03m - 7h23m	"	"	"	"	"	"	"	"	"	"	"	"	
7304	(481), (942), B35	1h 56.3m	-0°.2	U.T. OCT 21.31597	0h 19m W	U.T. 7h25m - 7h45m	"	"	"	"	"	"	"	"	"	"	"	"	
7305	(525), (555), (906), (2196), (2282), (2411), 78SQ	2h 36.0m	+11°.8	U.T. OCT 21.33333	0h 02m W	U.T. 7h50m - 8h10m	"	"	"	"	"	"	"	"	"	"	"	"	
7306	(141), (353), (392), (625), (1115), (1220), (1932), (2443)	2h 46.1m	+1°.8	U.T. OCT 21.34861	0h 12m W	U.T. 8h12m - 8h32m	"	"	"	"	"	"	"	"	"	"	"	"	
7307	(525), (555), (906), (2196), (2282), (2411), 78SQ	2h 36.0m	+11°.8	U.T. OCT 21.36389	0h 46m W	U.T. 8h34m - 8h54m	"	"	"	"	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC.	DATE 1982	H.A. END	EXPOSURE MST - U.T.	W.E.
7308	(141), (353), (392), (625), (1115), (1220), (1732), (2943)	2h 46.1m	+1.°8	U.T. OCT 21.37917	0h56mW	U.T. 8h56m - 9h16m	"
7309	←1982g Transit	5h 27.3m	+21.°5	UT Oct 23.433333	0h22mE	10:20 - 10:28	"
7310	(160), (1020), (1979), (2139), (2252), (2348), (2526)	1h 09.7m	+8.°5	U.T. OCT 24.24444	0h27mE	U.T. 5h42m - 6h02m	"
7311	82TA	22h 55.9m	-2.°4	U.T. OCT 24.26181	2h11mW	U.T. 6h07m - 6h27m	"
7312	82TA	"	"	U.T. OCT 24.28056	2h38mW	U.T. 6h34m - 6h54m	"
7313	(160), (1020), (1979), (2139), (2252), (2348), (2526)	1h 09.7m	+8.°5	U.T. OCT. 24.30069	0h59mW	U.T. 6h58m - 7h28m	"
7314	B549, B550, B552	1h 48.6m	+21.°4	U.T. OCT 24.31979	0h48mW	U.T. ~7h40m? ~ 7h41m?	"
7315	B549, B550, B552	"	"	U.T. OCT 24.33681	1h06mW	U.T. 7h55m - 8h15m	"
7316	B220, B551	1h 33.7m	+11.°0	U.T. OCT. 24.35208	1h44mW	U.T. 8h17m - 8h37m	"
7317	B549, B550, B552	1h 48.6m	+21.°4	U.T. OCT 24.36736	1h50mW	U.T. 8h39m - 8h59m	"
7318	(168), (202), (256), (285), (484), (619), (1889), (1895)	3h 11.0m	+1.°5	UT. OCT 24.38681	1h02mW	U.T. 9h02m - 9h32m	"
7319	(877)	3h 59.6m	+13.°3	U.T. OCT 24.40972	1h02mW	U.T. 9h35m - 10h05m	"
7320	(168), (202), (256), (285), (484), (619), (1889), (1895)	3h 11.0m	+1.°5	U.T. OCT 24.43194	2h07mW	U.T. 10h07m - 10h37m	"
7321	(877)	3h 59.6m	+13.°3	U.T. OCT. 24.45417	2h06mW	U.T. 10h39m - 11h09m	"
7322	C/Bowell	19h 14.6m	-22.°1	U.T. NOV. 15.06215	2h27mW	U.T. 1h22m - 1h37m	"
7323	82TA	20h 59.1m	-2.°5	U.T. NOV 15.07778	1h08mW	U.T. 1h42m - 2h02m	"
7324	82TA	"	"	U.T. NOV 15.09792	1h37mW	U.T. 2h11m - 2h31m	"
7325	80 DC, B533	23h 27.7m	-0.°1	U.T. NOV 15.11667	0h19mE	U.T. 2h33m - 3h03m	"
7326	B547, B571, B574, B575, B579	1h 01.2m	+1.°4	U.T. NOV 15.13889	1h20mE	U.T. 3h05m - 3h35m	"
7327	(2526), B562, B563, B565-B569, B571, B572, B576	1h 01.3m	+9.°5	U.T. NOV 15.16111	0h48mE	U.T. 3h37m - 4h07m	"
7328	80 DC, B533	23h 27.7m	-0.°1	U.T. NOV 15.18333	1h18mW	U.T. 4h09m - 4h39m	"
7329	B547, B571, B574, B575, B579	1h 01.2m	+1.°4	U.T. NOV 15.20556	0h16mW	U.T. 4h41m - 5h11m	"
7330	(2526), B562, B563, B565-B569, B571, B572, B576	1h 01.3m	+9.°5	U.T. NOV 15.22778	0h48mW	U.T. 5h13m - 5h43m	"
7331	(1323), B556, B557, B579, B580, B582, B583	2h 02.6m	+10.°8	U.T. NOV 15.24792	0h11mW	U.T. 5h47m - 6h07m	"
7332	(774), (1896), (2178), (2496), 78546, B253	3h 13.8m	+18.°6	U.T. NOV 15.26389	0h41mE	U.T. 6h10m - 6h30m	"
7333	(1323), B556, B557, B579 B580, B582, B583	2h 02.6m	+10.°8	U.T. NOV 15.27986	0h57mW	U.T. 6h33m - 6h53m	"
7334	(774), (1896), (2178), (2496), 78546, B253	3h 13.8m	+18.°6	U.T. NOV 15.29514	0h04mW	U.T. 6h55m - 7h15m	"
7335	(1403), (4972), (938), (936), (4998), (1549), (1570), (1878), (1880), (2512), (2707), 78 PC	4h 45.3m	+18.°4	U.T. NOV 15.31042	0h01mE	U.T. 7h17m - 7h37m	"

INST	PLATE size type	Telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WEATHER	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
13"	8x10 103a-0	W	D19	6 min.	68°	N	4	5	BAS	
"	4x5 "	"	"	"	"	"	3±	4	H.G.	Comet Transit of SAD 077190
"	" "	"	"	"	"	"	3	4	BAS	Moonset ~ 5h38m. Some haze, Cirrus. Driving plateholder. V = 25.9 Hz, Obse = 264.°2
"	4X5 "	"	"	"	"	"	"	"	"	small slip in R.A. Driven as 7311.
"	" "	"	"	"	"	"	"	"	"	
"	8X10 "	"	"	"	"	"	"	"	"	plates 7314, 7315 exposed on same plate
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	thin cloud all over sky.
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	about ½ mag lost since 7h U.T.
"	" "	"	"	"	"	"	"	"	"	seeing ~ 1.″2 2h W
"	" "	"	"	"	"	"	4	"	"	near equator.
"	4X5 "	"	"	"	"	"	"	"	"	Driven 30.5 Hz, Θ dial = 88.°6.
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	Driven as 7323
"	" "	"	"	"	"	"	"	"	"	
"	8X10 "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	~ 45s break at start.
"	" "	"	"	"	"	"	"	"	"	Some cirrus low in S.
"	" "	"	"	"	"	"	"	"	"	cirrus passing through zenith = con trail?
"	" "	"	"	"	"	"	"	"	"	3x more image motion than in first of pair.
"	" "	"	"	"	"	"	"	"	"	Seeing ~ 1.″6 near zenith
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	Refrigerator temperature −16°C.

	NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC	DATE 1982	H.A. END	EXPOSURE MST – U.T.	W.E.
	7336	(500), B33	5h 17.1m	+36.4°	U.T. NOV. 15.32569	1h 10m E	U.T. 7h 39m – 7h 59m	WNW
	7337	(403), (936), (1314), (1411), (1630), (1661) (2423), 76GN3, 78UQ2	4h 45.3m	+18.4°	U.T. NOV 15.34097	0h 16m E	U.T. 8h 01m – 8h 21m	"
	7338	(500), B33	5h 17.1m	+36.1°	U.T. NOV 15.35625	0h 26m E	U.T. 8h 23m – 8h 43m	"
	7339	(72), (1716), 75XQ, 78ST6	6h 37.1m	+20.4°	U.T. NOV 15.37569	1h 13m E	U.T. 8h 46m – 9h 16m	"
	7340	(665), (1887), (2231), (2537), (2737)	6h 46.9m	+38.8°	U.T. NOV 15.39861	0h 30m E	U.T. 9h 19m – 9h 49m	"
	7341	77SP, B256	7h 43.0m	+18.1°	U.T. NOV. 15.42153	1h 12m E	U.T. 9h 52m – 10h 22m	"
	7342	(72), (1716), 75XQ, 78ST6	6h 37.1m	+20.4°	U.T. NOV 15.44444	0h 41m W	U.T. 10h 25m – 10h 55m	"
	7343	(665), (1887), (2231), (2537), (2737)	6h 46.9m	+38.8°	U.T. NOV 15.46545	1h 07m W	U.T. 10h 57m – 11h 23m 30s	"
	7344	41UP, 70AF1	3h 13.1m	+17.8°	U.T. DEC. 12.22431	0h 12m W	U.T. 5h 13m – 5h 33m	"
	7345	78TM7, 80MD, B40	3h 41.6m	+9.8°	U.T. DEC 12.24028	0h 10m W	U.T. 5h 36m – 5h 56m	"
Image on Plate #7348	7346 No Plate	41UP, 70AF1	3h 13.1m	+17.8°	U.T. DEC. 12.25694	0h 59m W	U.T. 6h 00m – 6h 20m	"
	7347	78TM7, 80MD, B40	3h 41.6m	+9.8°	U.T. DEC. 12.27292	0h 57m W	U.T. 6h 23m – 6h 43m	"
has image of 7346 →	7348	B552	1h 23.5m	+20.2°	U.T. DEC. 13.10069	0h 47m E	U.T. 2h 10m – 2h 40m	"
	7349	(942), B557, B583	1h 49.5m	+6.5°	U.T. DEC. 13.12361	0h 40m E	U.T. 2h 43m – 3h 13m	"
	7350	(1683)	2h 49.5m	+36.5°	U.T. DEC. 13.14653	1h 07m E	U.T. 3h 16m – 3h 46m	"
	7351	B552	1h 23.5m	+20.2°	U.T. DEC 13.16875	0h 51m W	U.T. 3h 48m – 4h 18m	"
	7352	(942), B557, B583	1h 49.5m	+6.5°	U.T. DEC. 13.19236	0h 59	U.T. 4h 22m – 4h 52m	"
	7353	(1683)	2h 49.5m	+36.5°	U.T. DEC. 13.21597	0h 33m W	U.T. 4h 56m – 5h 26m	"
	7354	(2550), B30	3h 08.3m	+2.3°	U.T. DEC. 14.21175	0h 13m W	U.T. 4h 49m 50s – 5h 20m	"
	7355	76GN3, 78UQ2	4h 05.7m	+26.0°	U.T. DEC. 14.23125	0h 22m E	U.T. 5h 23m – 5h 43m	"
	7356	(2277), 80DS	5h 19.1m	+13.5°	U.T. DEC. 14.24722	1h 12m E	U.T. 5h 46m – 6h 06m	"
	7357	(2550), B30	3h 08.3m	+2.3°	U.T. DEC 14.26667	1h 32m W	U.T. 6h 09m – 6h 39m	"
	7358	76GN3, 78UQ2	4h 05.7m	+26.0°	U.T. DEC 14.28542	0h 56m W	U.T. 6h 41m – 7h 01m	"
	7359	(2277), 80DS	5h 19.1m	+13.5°	U.T. DEC. 14.30069	0h 05m W	U.T. 7h 03m – 7h 23m	"
	7360	74RV1, 81JG2	5h 47.3m	+23.7°	U.T. DEC. 14.31875	0h 01m W	U.T. 7h 29m – 7h 49m	"
	7361	59VF, 81QU2	6h 51.8m	+23.2°	U.T. DEC. 14.33472	0h 39m E	U.T. 7h 52m – 8h 12m	"
	7362	74RV1, 81JG2	5h 47.3m	+23.7°	U.T. DEC 14.35069	0h 47m W	U.T. 8h 15m – 8h 35m	"
	7363	59VF, 81QU2	6h 51.8m	+23.2°	U.T. DEC. 14.36597	0h 06m W	U.T. 8h 37m – 8h 57m	"

INST.	PLATE SIZE TYPE	Telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV.	REMARKS
13"	8x10 103aO	W	D19	6 min.	68°	N	4	4	BAS	
"	" "	"	"	"	"	"	"	5	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	3	"	"	Cirrus coming
"	" "	"	"	"	"	"	"	"	"	less cloudy. Motor failure
"	" "	"	"	"	"	"	5	5	"	Fog on Lake & objective
"	" "	"	"	"	"	"	"	"	"	Poor guiding in α
"	" "	"	"	"	"	"	"	"	"	Image exposed on plate Marked 7348, guidescope objective frosted
"	" "	"	"	"	"	"	"	"	"	sol. d: 33cm O.K. contains image of 7346.
"	" "	"	"	"	"	"	"	4	"	Seeing 1.1
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	33cm 50% frosted. guidescope totally frosted inside and out.
"	" "	"	"	"	"	"	2	"	"	seeing ~3.4. Windy
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	Nearly Calm
"	" "	"	"	"	"	"	"	"	"	less image motion
"	" "	"	"	"	"	"	3	"	"	
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	Emulsion down
"	" "	"	"	"	"	"	"	"	"	Marked as 7362 on Plate
"	" "	"	"	"	"	"	"	"	"	
"	" "	"	"	"	"	"	"	"	"	Image exposed on plate marked 7364
"	" "	"	"	"	"	"	"	"	"	

NEG #	OBJECT OR GUIDE	Position R.A.	Position DEC	DATE 82 U.T.	H.A. END	EXPOSURE MST or U.T.	W.E.
7364	77JP, B256	7h47.6m	+15.7°	DEC 14. 413.89	0h25mW	U.T. 9h41m - 10h11m	WWV
7365	(1477)	9h20.9m	+25.4°	DEC 14. 43681	0h35mE	U.T. 10h14m - 10h44m	"
7366	77JP, B256	7h47.6m	+15.7°	DEC 14. 45825	1h21mW	U.T. 10h47m - 11h07m	"
7367	(1477)	9h20.9m	+25.4°	DEC 14. 49931	0h55mW	U.T. 11h44m - 12h14m	"
7368	B564	0h52.0m	+8.7°	DEC 15. 06597	0h58mE	U.T. 1h20m - 1h50m	"
7369	(2609), 385 D1	3h28.4m	+26.6°	DEC 15. 08542	3h11mE	U.T. 1h53m - 2h13m	"
7370	(2612), 64 VE	3h08.2m	-11.0°	DEC 15. 10556	2h32mE	U.T. 2h17m - 2h47m	"
7371	B 564	0h52.0m	+8.7°	DEC 15. 12847	0h28mE	U.T. 2h50m - 3h20m	"
7372	(2609), 385 D1	3h28.4h	+26.6°	DEC 15. 14722	1h41mE	U.T. 3h22m - 3h42m	"
7373	(2612), 64 VE	3h08.2m	-11.0°	DEC 15. 16667	1h04mE	U.T. 3h45m - 4h15m	"
7374	64 XA	3h28.8m	+56.0°	DEC 16. 27500	1h27mW	U.T. 6h26m - 6h46m	"
7375	48 PK	5h38.1m	+40.5°	DEC 16. 29306	0h17mE	U.T. 6h52m - 7h12m	"
7376	64 XA	3h28.8m	+56.0°	DEC 16. 31042	2h18mW	U.T. 7h17m - 7h37m	"
7377	48 PK	5h38.1m	+40.5°	DEC 16. 32708	0h32mW	U.T. 7h41m - 8h01m	"
7378	(2531), 71UMi, 78 RW1	7h16.1m	+20.1°	DEC 16. 34306	0h43mE	U.T. 8h04m - 8h24m	"
7379	" " "	"	"	DEC 16. 37778	0h07mW	U.T. 8h54m - 9h14m	"
7380	(2546)	7h16.1m	+32.6°	DEC 16. 39306	0h29mW	U.T. 9h16m - 9h36m	"
7381	(2525)	9h29.5m	+17.1°	DEC 16. 41389	1h09mE	U.T. 9h41m - 10h11m	"
7382	(2546)	7h16.1m	+32.6	DEC 16. 43403	1h28mW	U.T. 10h15m - 10h35m	"
7383	(2525)	9h29.m	+17.1°	DEC 16. 45486	0h10mE	U.T. 10h40m - 11h10m	"
7384	HeLin FMO	3h13.0m	+33.0°	DEC 17. 11875	2h05mE	U.T. 2h46m* - 2h56m*	"
7385	HeLin FMO	"	"	DEC 17. 13542	1h41mE	U.T. 3h10m* - 3h20m*	"
7386	"	"	"	DEC 17. 15139	1h18mE	U.T. 3h33m* - 3h43m*	"
7387	82 XB	4h00.0m	+42.9°	DEC 20. 12986	2h24mE	U.T. 3h02m* - 3h12m*	"
7388	82 XB	"	"	DEC 20. 14722	1h59mE	U.T. 3h27m* - 3h37m*	"
7389	"	"	"	DEC 20. 28681	1h22mW	U.T. 6h48m* - 6h58m*	"
7390	79 DF	7h25.3m	+43.8°	DEC 20. 31042	1h23mE	U.T. 7h17m - 7h37m	"
7391	"	"	"	DEC 20. 34028	0h40mE	U.T. 8h00m - 8h20m	"

INST.	PLATE SIZE TYPE	telescope Position	DEVELOPMENT KIND	DEVELOPMENT TIME	DEVELOPMENT TEMP	WRITING	SEEING TRANS.	SEEING STEAD	OBSV	REMARKS
13"	8x10 103a0	W	D19	6 MIN	68°	N	5	4	BAS	defrosted guidescope with blow dryer. 33CM OK contains image of 7363 7364
"	"	"	"	"	"	"	"	"	"	Image motion increased
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	temp -10°C at 12h twilight weak. Scattered cirrus west. Seeing 1."3
"	"	"	"	"	"	"	4	"	"	
"	"	"	"	"	"	"	"	"	"	Emulsion up
"	"	"	"	"	"	"	"	3	"	
"	"	"	"	"	"	"	"	4	"	different guide star
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	Scattered clouds south. Quitting due to Fatigue.
"	"	"	"	"	"	"	"	"	"	seeing 1.1 near zenith
"	4x5	"	"	"	"	"	5	"	"	
"	"	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	
"	8x10	"	"	"	"	"	"	"	"	
"	"	"	"	"	"	"	"	"	"	Particularly few guide stars available.
"	"	"	"	"	"	"	"	"	"	Some clouds
"	"	"	"	"	"	"	4	"	"	fearful of clouds
"	"	"	"	"	"	"	3	"	"	~2.5 mag observation by Cioni: false 2h43m00s → 2h43m15s; 48 Persei add'l = 346°.2 = 64".2
"	4x5	"	"	"	"	"	2	3	"	Driven as 7384. ~1.5 mag obser. also 3h07m → 3h07m15s; 3h22m45s → 3h23m.
"	"	"	"	"	"	"	"	"	"	Driven as 7384. also 3h30m → 3h30m15s; 3h45m45s → 3h46m00s.
"	"	"	"	"	"	"	5	5	"	additional notes in Ted's log
"	"	"	"	"	"	"	"	"	"	" " "
"	"	"	"	"	"	"	"	"	"	" " "
"	"	"	"	"	"	"	"	"	"	" " "
"	"	"	"	"	"	"	"	"	"	fine night