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DATE	Plate No	REGION	OBSERVER	Trans	Stead
1970 Nov. 19	4707	0 <sup>h</sup> 22.5 - 33°00'	H. Giclas	V Good	4
"	4708	1 <sup>h</sup> 00 <sup>m</sup> - 31°49'	"	"	"
1970 Nov 22	4709	N. POLE	N. Thomas	HAZE	3
1970 Dec 23	4710	0 <sup>h</sup> 22 - 33°05'	R. Burnham	V. Good	3+
"	4711	"	"	"	"
"	4712	1 <sup>h</sup> 00 - 31°49'	"	"	"
"	4713	"	"	"	"
1970 Dec 28	4714	0 <sup>h</sup> 22 - 33°05'	"	Good	3
"	4715	1 <sup>h</sup> 00 - 31°49'	"	"	3-2
1970 Dec 29	4716	0 <sup>h</sup> 15 - 22°10'	N. Thomas	V. "	3-4
"	4717	"	"	V. "	3
"	4718	"	"	V. "	3
"	4719	0 <sup>h</sup> 53 - 31°10'	"	" "	3-4
"	4720	" "	"	" "	"
1971 Jan 18	4721	0 <sup>h</sup> 15.5 - 22°10'	H. Giclas	V Good	4
" Jan 19	4722	0 <sup>h</sup> 53.6 - 21°00'	R. Burnham	V Good	3-4
" Jan 20	4723	0 <sup>h</sup> 15.5 - 22°10'	N. Thomas	good	4
" Jan 20	4724	0 <sup>h</sup> 53.6 - 21°00'	"	good	4
" Jan 22	4725	0 <sup>h</sup> 04.8 - 25°38'	R. Burnham	good	3
" Mar 16	4726	21 <sup>h</sup> 25 <sup>m</sup> + 21°30'	H. Giclas	Good	3
"	4727	" "	"	"	"
"	4728	21 <sup>h</sup> 44 + 18°40'	"	"	"
" Mar 18	4729	21 <sup>h</sup> 40 <sup>m</sup> + 21°24'	"	good	1 poor
"	4730	"	"	"	"
" Mar 30	4731	21 53.5 + 16°35'	"	good	2+
"	4732	"	"	"	"
" April 23	4733	22 <sup>h</sup> 09 <sup>m</sup> + 16°40'	"	Fair	3
"	4734	"	"	"	"
May 13	4735	9 <sup>h</sup> 11 <sup>m</sup> + 18°00'	"	Fair	3
" "	4736	" + 18°00'	"	+-	"
May 14	4737	9 <sup>h</sup> 09 + 18°15'	R. Burnham	Good	3-4
" "	4738	" "	"	"	"
" "	4739	" "	"	"	"
" "	4740	12 <sup>h</sup> 10 + 12°20'	"	"	"
" "	4741	" "	"	"	"
May 23	4742	22 <sup>h</sup> 21 <sup>m</sup> - 21°00'	H. Giclas	Fair	3
"	4743	" Toba R	"	"	"

1971-2

DATE	PLATE #	REGION	OBSERVER	TRANS	STEAD
Sept 20/1	4744	051.8 - 9°01'	N. Thomas	good	2-3
"	4745	"	"	"	3
"	4746	"	"	"	3-4
Oct 10/11	4747	0 <sup>h</sup> 30 <sup>m</sup> - 0°45'	H. Bickel	Good	4
"	4748	"	"	Fair to Poor	3
11/29/30	4749	2 <sup>h</sup> 01 <sup>m</sup> + 9°50'	"	Good	3
"	4750	"	"	"	"
"	4751	"	"	"	"
Nov. 9/10	4752	1 <sup>h</sup> 38 <sup>m</sup> + 10°	"	Good	3
"	4753	" "	"	"	"
" 19/20	4754	0 <sup>h</sup> 49 - 12°	"	Good	3
"	4755	"	"	"	"
Dec. 20	4756	1 28.2 - 5°13'	N. Thomas	Good	4
"	4757	" "	"	"	4-
"	4758	" "	"	"	4-
"	4759	5 <sup>h</sup> 33 <sup>m</sup> - 5°50'	H. Bickel	"	"

1972

Jan 6-7	4760	0 <sup>h</sup> 33.5 - 15°15'	N. Thomas	good	+3+
"	4761	"	"	"	"
"	4762	1 <sup>h</sup> 17.5 - 16°4'	"	"	+3+
"	4763	"	"	"	3-3-
Feb 3/4	4764	8 <sup>h</sup> 04 <sup>m</sup> + 27°27'	H. Bickel	Good	3+
"	4765	"	"	Good - Fair	Looks up 3+
Feb 5/6	4766	22 <sup>h</sup> 58 <sup>m</sup> - 7°N	"	Clouds near W	1-2
Sat eve	4767	23 <sup>h</sup> 44 <sup>m</sup> - 8°40'	"	"	"
Feb 10	4768	6 <sup>h</sup> 43 - 0°50'	"	Good	2
Mar 7/8	4769	10 <sup>h</sup> 25 + 7°18'	"	Good	3
"	4770	"	"	"	"
"	4771	12 <sup>h</sup> 16 + 10°10'	"	"	"
"	4772	"	"	"	"
Mar. 18/19	4773	11 <sup>h</sup> 26 <sup>m</sup> + 4°	"	Good	3
"	4774	"	"	"	"
"	4775	"	"	"	"
"	4776	12 <sup>h</sup> 04 - 3°15'	"	"	"
"	4777	"	"	"	"
"	4778	"	"	"	"

1972

DATE	PLATE No.	REGION	OBSERVER	TRANS	STEADINESS
March 20/21	4779	11 <sup>h</sup> 35 <sup>m</sup> + 15 <sup>o</sup> 00'	H Giclas	Good	3.7
"	4780	"	"	"	"
"	4781	12 <sup>h</sup> 01 - 2 <sup>o</sup> 30'	"	"	"
"	4782	"	"	"	"
Apr 3	4783	6 <sup>h</sup> 34.8 + 23 <sup>o</sup> 40'	R. Burnham	"	3+
"	4784	"	"	"	"
"	4785	"	"	"	"
April 7	4786	11 <sup>h</sup> 17 <sup>m</sup> + 11 <sup>o</sup> 20'	H Giclas	Good	3
"	4787	"	"	"	"
"	4788	11 <sup>h</sup> 42 <sup>m</sup> 0 <sup>o</sup> 00'	"	"	"
"	4789	"	"	"	"
May 12/13	4790	2 <sup>h</sup> 20 <sup>m</sup> + 30 30	"	Good	2-
"	4791	" Feyokan &	"	"	"
"	4792	"	"	"	"
May 15/16	4793	7 <sup>h</sup> 46 <sup>m</sup> - 19 30'	"	Good	1 (continued)
"	4794	" 1972 f	"	"	1
June 16/17	4795	15 <sup>h</sup> 26.7 + 21 <sup>o</sup> 28'	"	Good	3+ moon
"	4796	"	"	"	"
"	4797	"	"	"	"
"	4798	"	"	"	"
June 18/19	4799	15 <sup>h</sup> 22 + 22 36	"	Faint to Good	3 moon
"	4800	"	"	"	"
July 19/11	4801	15 <sup>h</sup> 12 <sup>m</sup> + 23 55'	H G + MLK	Faint to Good	3
"	4802	"	"	"	3
"	4803	"	"	"	3
July 21/22 Fri	4804	2 <sup>h</sup> 29 + 35 56	N. Thomas	good	2
<del>27/28</del>	4805	"	"	"	"
July 27/28	4806	15 <sup>h</sup> 10 <sup>m</sup> + 24.5'	H G	good	3
"	4807	Sandage &	"	"	" moon
"	4808	"	"	"	"
Aug 10/11	4809	14 <sup>h</sup> 34 <sup>m</sup> - 19 25'	"	good	3
"	4810	21 <sup>h</sup> 18 <sup>m</sup> - 19 0	"	Poor	2
" 13/14	4811	"	"	Good	2
" 14/15	4812	00 <sup>h</sup> 22 <sup>m</sup> + 1 <sup>o</sup> 38'	"	Good	3
Sept 7/8	4813	15 <sup>h</sup> 25 <sup>m</sup> + 24 12'	"	good	3+
"	4814	"	"	"	"
"	4815	19 <sup>h</sup> 18 <sup>m</sup> + 0 15'	"	"	"
"	4816	19 44 + 46 30	"	"	"
"	4817	"	"	"	"
"	4818	0 <sup>h</sup> 09 + 67 20'	"	"	"

DATE 1972	PLATE NO.	Region - Object	Observer	Trans.	Stead	
Sept 11/12	4819	♂ Sand. 15°30' + 24°10'	HG	Good	3+	
" 14/15	4820	Kleude 23 35 - J°	"	"	"	
" "	4821	"	"	"	"	
Oct 1/2	4822	♂ Sandage 15°38' + 23°40'	"	Good	3+	
"	4823	" "	"	Fair	"	
"	4824	AgulSA 19°00' + 5°	"	Good	"	
"	4825	" "	"	"	"	
"	4826	1972 RAK Kleude	"	Good	"	
"	4827	0447 <sup>m</sup> - 18°	"	"	"	
"	4828	"	"	"	"	
Oct 8/9	4829	23°38 <sup>m</sup> - 12°	"	Good	3	
Oct 8/9	4830	"	"	"	"	
Nov 2/3	4831	19°00' + J°	"	Good	2	
"	4832	2°44 <sup>m</sup> + 15°08'	"	"	3+	
"	4833	" "	"	"	"	
"	4834	3°19 <sup>m</sup> - 28°20'	"	"	"	
"	4835	" "	"	"	"	
Nov. 5/6	4836	Kojima ♂ 8°16' - 28°	"	Good	2	
"	4837	"	"	"	"	
Nov 9	4838	♂ SUSPECT 19°10' + 32'	RB	"	3-4	
"	4839	" "	"	"	"	
"	4840	" 18°32' + 37'	"	"	"	
"	4841	" "	"	"	"	
Nov 9/10	4842	♂ Kojima 8°09' - 20'	H Gickles	Good	3	
"	4843	"	"	"	"	
Nov 29/30	4844	Pg m photo (G272	N. Thomas	good	3-	
"	4845	Rec " } I cete	"	"	3- to 0	} Dec circle 418
"	4846	Pg m " } -16°12'	"	"	1	
"	4847	Lines ♂ Susp	"	"	1-2	
"	4848	1°21'00" + 3°00'12"	"	"	1-2	
Dec 3	4849	1°41.7' - 16°12'	R. Burnham	"	2	G272
"	4850	" "	"	"	"	"
Dec 3/4	4851	6°51 <sup>m</sup> - 24°10'	H Gickles	Fair	2	
"	4852	" "	"	"	"	
Dec 14/15	4853	1°35' + J°	"	Good	2+	
"	4854	" "	"	"	"	
"	4855	" "	"	"	"	
1973			"			
Jan 23	4856	14°48 <sup>m</sup> 00°00'	"	Good	2-	Moonlight
"	4859	" "	"	"	"	"



1973 DATE	Plate No	Region	Observer	Trans	Stead	Remarks
Feb 25/26	4858	2 <sup>h</sup> 25 <sup>m</sup> + 3 <sup>o</sup>	H. Gielas	Good	1	poor
"	4859	" "	"	"	"	"
"	4860	10 <sup>h</sup> 52 <sup>m</sup> + 39 <sup>o</sup>	"	"	"	"
"	4861	" "	"	"	"	"
Mar 3/4	4862	10 <sup>h</sup> 30 <sup>m</sup> + 42 <sup>o</sup>	"	Good	2	"
"	4863	" "	"	"	"	"
"	4864	10 <sup>h</sup> 54 <sup>m</sup> + 26 <sup>o</sup> 40'	"	"	"	"
"	4865	" "	"	"	"	"
Mar 25/26	4866	8 <sup>h</sup> 40 <sup>m</sup> + 48 <sup>o</sup> 25'	"	Good	3	"
"	67	" "	"	"	"	"
"	68	" "	"	"	"	"
"	69	" "	"	"	"	"
"	4870	10 <sup>h</sup> 07 <sup>m</sup> + 20 <sup>o</sup> 40'	"	"	"	"
"	4871	" "	"	"	"	"
April 8/9	4872	7 <sup>h</sup> 26 <sup>m</sup> + 55 <sup>o</sup>	"	Good	3	"
"	4873	" "	"	"	"	"
"	4874	" "	"	"	"	"
"	4875	8 <sup>h</sup> 07 <sup>m</sup> + 6 <sup>o</sup> 40'	"	"	"	"
"	4876	" "	"	"	"	"
April 22/23	4877	8 <sup>h</sup> 05 <sup>m</sup> + 7 <sup>o</sup> 30'	"	Good	2	"
"	4878	" "	"	"	"	"
"	4879	9 <sup>h</sup> 54 <sup>m</sup> + 12 <sup>o</sup> 10'	"	"	"	"
"	4880	" "	"	"	"	"
"	4881	13 <sup>h</sup> 22 <sup>m</sup> + 38 <sup>o</sup>	"	"	3	"
"	4882	" "	"	"	"	"
"	4883	" "	"	"	"	"
"	4884	" "	"	"	"	"
"	4885	" "	"	"	"	"
Apr. 28/29	4886	13 <sup>h</sup> 48.8 + 35 <sup>o</sup> 25'	"	Good	3	"
"	4887	13 <sup>h</sup> 31' + 34	"	"	4	"
May 10/11	4888	14 <sup>h</sup> 16 + 27 <sup>o</sup>	"	Good	3	"
"	4889	" "	"	"	4	"
" 22/23	4890	14 <sup>h</sup> 01 + 22 <sup>o</sup> 50'	"	Good	3	"
"	4891	" "	"	"	"	"
" 24/25	4892	14 <sup>h</sup> 00 + 21 <sup>o</sup> 40'	"	Good	3	"
"	4893	" "	"	"	"	"
June 18/19	4894	13 <sup>h</sup> 47 <sup>m</sup> + 10 <sup>o</sup> 30'	"	Good	3	"
"	4895	11 <sup>h</sup> 29 <sup>m</sup> + 20 <sup>o</sup> 49'	"	"	1	"
"	4896	" "	"	"	"	"
"	4897	13.47 + 10 <sup>o</sup> 30'	"	"	"	"

DATE	PLATE No.	Region	Observer	Trans.	Stead	Remarks
1973						
June 23/24	4898	13 <sup>h</sup> 47 <sup>m</sup> +10°40'	H. Gables	Good	3	
"	4899	"	"	"	"	
July 2/3	4900	12 <sup>h</sup> 30 <sup>m</sup> +16°17'	"	Good	3	
"	4901	"	"	"	"	
" 6/7	4902	21 <sup>h</sup> 11 <sup>m</sup> -36°10'	"	Poor	2	
"	4903	"	"	"	"	
"	4904	22 <sup>h</sup> 04 <sup>m</sup> +25°25'	"	"	"	
" 8/9	4905	21 14 -37°	"	Good	2	
"	4906	1 <sup>h</sup> 50 <sup>m</sup> +22°	"	"	"	
" 9/10	4907	21 <sup>h</sup> 14 <sup>m</sup> -37°	"	Good	2	
"	4908	1 <sup>h</sup> 50 <sup>m</sup> +22°	"	"	3	
" 20/21	4909	22 <sup>h</sup> 55 <sup>m</sup> +36°20'	"	Good	2	
"	4910	"	"	"	"	
" 21/22	4911	14 <sup>h</sup> 48 <sup>m</sup> +8°40'	"	Good	3	
"	4912	"	"	"	"	
July 25/26	4913	18 <sup>h</sup> 21 +14°40'	N. Thomas	"	"	
"	4914	"	"	"	"	
"	4915	18 <sup>h</sup> 59 +12°28'	"	"	3-4	
"	4916	"	"	"	4	
	4917	23 <sup>h</sup> 37 -14°30'	"	clouds on horizon	3	Drive "05"
	4918	"	"	Good	3-1	" 3" 1st 10 min; worst 2 and 10
Aug 31/Sept 1	4919	20 <sup>h</sup> 26 <sup>m</sup> -7°35'	H. Gables	Fair	3	
"	4920	"	"	"	"	
"	4921	22 <sup>h</sup> 31 <sup>m</sup> +2°	"	"	"	
"	4922	"	"	"	"	
Sept 17/18	4923	16 <sup>h</sup> 53 <sup>m</sup> -10°00'	"	Good	3+	
"	24	"	"	"	"	
"	25	"	"	"	"	
"	26	23 <sup>h</sup> 45 <sup>m</sup> +0°10'	"	"	"	
"	4927	"	"	"	"	
Sept 18/19	4928	16 <sup>h</sup> 53 -10°	"	Good	3+	
"	4929	22 <sup>h</sup> 16 <sup>m</sup> +8°	"	"	"	
"	4930	"	"	"	"	
Oct 2/3	4931	10 <sup>h</sup> 33 <sup>m</sup> -10°25'	"	Good	2	low by K. K. K. K.
"	4932	"	"	"	"	
Oct 7/8	4933	10 <sup>h</sup> 42 <sup>m</sup> -2°	"	Fair	2	
"	4934	"	"	"	"	
" 14/17	4935	10 <sup>h</sup> 42 -4°	"	Good	3	
"	4936	"	"	"	"	

DATE	PR #	$\alpha$	$\delta$	Trap	Seed	Owner	
1973 Oct 20	4937	4 <sup>h</sup> 02 <sup>m</sup>	+12 <sup>o</sup>	Good	4	#Gidas	
" / 21	4938	"	"	"	"	"	
"	4939	11 <sup>h</sup> 09 <sup>m</sup>	-5 <sup>o</sup> Khorutsk	"	2	"	
"	4940	"	"	"	"	"	
1973 Oct 22/23	4941	23 <sup>o</sup> 37 - 14 <sup>o</sup> 30	G273 Red	"	3-2	N. Thomas	515 better
"	4942	"	" blue	"	"	"	
"	4943	4 <sup>h</sup> 03 <sup>m</sup> + 12 <sup>o</sup>	mp lampend	"	3	#Gidas	
1973 Oct 22/9	4944	23 <sup>o</sup> 37 - 14 <sup>o</sup> 30	G273 Red	"	4-3-2	N. Thomas	512 Dr.
"	4945	"	" blue	"	3-4	"	"
1973 Oct 30/31	4946	22 <sup>h</sup> 55.5 - 18 <sup>o</sup> 40	G273 overbp	"	2	"	"
"	4947	23 <sup>h</sup> 28.2 - 27 <sup>o</sup> 34	" "	"	"	"	"
"	4948	1 <sup>h</sup> 20 <sup>m</sup> + 10 <sup>o</sup>	#1973 N	Good	2	#Gidas	
"	4949	"	"	"	"	"	
"	4950	"	"	"	"	"	
"	4951	4 <sup>h</sup> 06 <sup>m</sup> + 13 <sup>o</sup>	mp 1767	"	"	"	seed drive 509 have!!
Oct 31/Nov 1	4952	1 <sup>h</sup> 20 <sup>m</sup> + 10 <sup>o</sup>	Gehrels's	Good	2+	"	
"	4953	"	"	"	"	"	
"	4954	4 <sup>h</sup> 06 + 13 <sup>o</sup>	mp 1767	"	"	"	
"	4955	4 <sup>h</sup> 31 + 24 <sup>o</sup> 18	mp 15 N	"	"	"	
"	4956	"	"	"	"	"	
"	4957	11 <sup>h</sup> 35 - 8 <sup>o</sup>	Khorutsk	"	"	"	
"	4958	"	"	"	"	"	
"	4959	"	"	"	"	"	
Nov 4/5	4960	1 <sup>h</sup> 19 <sup>m</sup> + 9 <sup>o</sup> 18'	Gehrels's 73N	Good	3	"	
"	4961	"	"	"	"	"	
"	4962	4 <sup>h</sup> 35 <sup>m</sup> + 24 <sup>o</sup> 18'	mp 15 N	"	4	"	
"	4963	"	"	"	"	"	
"	4964	11 <sup>h</sup> 46 <sup>m</sup> - 9 <sup>o</sup> 30'	Khorutsk	"	3	"	
"	65	"	"	"	"	"	
"	66	"	"	"	"	"	
Nov. 8/9	4967	11 <sup>h</sup> 55 - 12 <sup>o</sup>	"	"	"	"	
"	68	12 <sup>h</sup> 12 <sup>o</sup> 40	"	Fair	2+	"	
"	69	"	"	"	"	"	
"	70	"	"	"	"	"	
Nov. 26/27	4971	13 <sup>h</sup> N <sup>m</sup> - 16 <sup>o</sup>	Khorutsk	Good	1	"	
"	4972	"	"	"	"	"	
"	4973	"	"	"	"	"	
Dec 7	4974	14 <sup>h</sup> 22 <sup>m</sup> - 23 <sup>o</sup>	"	Good	3	"	
"	4975	"	"	"	"	"	
"	4976	"	"	"	"	"	

Date	#	Req.	L S	Trans	Speed	Obs
Dec 9, 1973	4977	Kohoutek	14 <sup>h</sup> 38 <sup>m</sup> -24 <sup>o</sup>	Good	1	H-biclas
"	4978	"	"	"	"	"
"	4979	"	"	"	"	"
1974	<del>4980</del>		1974			
Jan 10/11	4980	"	21 <sup>h</sup> 31 <sup>m</sup> -10 <sup>o</sup>	Poor	2	"
"	4981	"	"	"	"	"
"	4982	"	"	"	"	"
Jan 11/12	83	"	21 <sup>h</sup> 41 <sup>m</sup> -9 <sup>o</sup> 15'	Poor to +	"	"
"	84	"	"	"	"	"
"	4985	"	"	Poor	"	"
" 13/14	4986	"	22 <sup>h</sup> 08 <sup>m</sup> -7 <sup>o</sup> 18'	Fair +	"	"
"	87	"	"	Good	"	"
"	4988	"	"	"	"	" Pnd
Jan 14/15	4989	"	22 <sup>h</sup> 20 <sup>m</sup> -6 <sup>o</sup>	"	3	"
"	90	"	"	"	"	"
"	91	"	"	"	"	"
Jan 15/16	4992	"	22 <sup>h</sup> 30 <sup>m</sup> -5 <sup>o</sup>	Good	3	"
"	93	"	"	"	"	"
"	94	"	"	"	"	"
"	95 <sup>a</sup> 96	"	"	"	"	"
"	4996	"	"	"	"	"
Jan 16/17	4997	"	22 <sup>h</sup> 41 <sup>m</sup> -4 <sup>o</sup>	Good	2	"
"	4998 <sup>a</sup> 99	"	"	Fair	"	"
Jan 19/20	4999 <sup>a</sup> 99	"	23 <sup>h</sup> 00 -1 <sup>o</sup> 24'	Poor	2	Burnham 13 <sup>h</sup> 5 <sup>m</sup>
Jan 21/22	5000	"	23 <sup>h</sup> 33 <sup>m</sup> 0 <sup>o</sup>	Good	2	H-biclas
"	5001	"	"	"	"	"
"	5002 <sup>a</sup> 99	"	"	"	"	"
Jan 22/23	5003	"	23 <sup>h</sup> 43 <sup>m</sup> +1 <sup>o</sup> 18'	Good	2	"
"	5004 <sup>a</sup> 99	"	"	"	"	"
" 23/24	5005	"	23 <sup>h</sup> 52 <sup>m</sup> +2 <sup>o</sup>	Fair	0	"
"	5006 <sup>a</sup> 99	"	"	"	"	"
Jan 24/25	5007	"	0 <sup>h</sup> 01 <sup>m</sup> +3 <sup>o</sup>	Good	3	"
"	5008 <sup>a</sup> 99	"	"	"	"	"
"	5009 <sup>a</sup> 99	"	"	"	"	"
"	5010	RV Lyucis	6 <sup>h</sup> 52 <sup>m</sup> +15 <sup>o</sup>	"	"	"
Jan 25/26	5011	W KOHOUTEK	0 <sup>h</sup> 08 +3 <sup>o</sup>	"	3	Burnham
Jan 27/28	5012	"	0 <sup>h</sup> 24 <sup>m</sup> +5 <sup>o</sup>	Good	3	H-biclas Moonlight
"	5013	"	"	"	"	"
"	5014	RV Lyucis	6 <sup>h</sup> 55 <sup>m</sup> +15 <sup>o</sup>	"	"	"
Feb 5/6	5015	W Kohoutek	1 <sup>h</sup> 24 +10 <sup>o</sup>	Good	1	" Moon

PLUTO CAMERA PLATE TAKING

	1970	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
JAN		5	4	2	(5000) 35	(5100) 23	18	4	8	4	17	(6400) 46	(6300) 73	(7400) 92	(8000) 60	(8100) 39
FEB		0	5	4	10	8	5	10	0	19	13	(7000) 37	(7500) 46	50	29	14
MAR		7	14	10	9	10	24	13	21	(5800) 22	20	(6500) 25	42	43	(8100) 59	46
APR		2	7	16	7	6	18	(5900) 26	10	5	17	22	55	29 <sup>(7600)</sup>	24	32 <sup>(8100)</sup>
MAY		9	5	6	2	2	(5300) 14	5	30	8	14	29	(7100) 40	49	21	22
JUN		<del>5</del>	(4800) 6	6	11	0	9	8	(5000) 9	20	(6100) 24	(6600) 59	31	19	16	21
JUL		0	8	(4900) 19	2	14	0	12	25	43	27	42	29	54 <sup>(7700)</sup>	∅ (clouds)	∅
AUG		0	4	4	9	18	7	6	26	(5900) 16	27	(6700) 65	(7200) 11	22	27 <sup>(8200)</sup>	30
SEPT		3	9	8	11	11	0	24	(5700) 47	12	(6200) 50	55	53	68 <sup>(7800)</sup>	40	20 <sup>(8100)</sup>
OCT		5	9	29	8	(5200) 33	<del>7</del>	17	23	27	36	(6800) 30	(7300) 60	59	59 <sup>(8300)</sup>	16
NOV	3	4	18	14	2	8	9	(5500) 26	24	16	(6300) 86	35	22	50 <sup>(7900)</sup>	62	6
DEC	(4710) 11	4	7	6	4	7	10	7	19	(6000) 45	68	36	48	42	∅ (clouds)	21
		39	96	124	110	140	121	158	242	237	399	481	510	577	397	267



DATE 1974	Date #	Reg	S	Trans	Steer	Owner	Remarks
Feb 5/6	5016	Kohoutek	+10 <sup>0</sup>	Good	1-	H. Gielas	Woorlight
"	5017	RVLynis 6 <sup>h</sup> 57 <sup>m</sup>	+J1 <sup>0</sup> 401	"	"	"	"
Feb 10/11	5018	K Kohoutek	1 <sup>h</sup> 50 <sup>m</sup> +10 <sup>0</sup>	Good	3+	"	"
"	5019	"	"	"	"	"	"
"	5020	RVLynis	6 <sup>h</sup> 52 <sup>m</sup> +52 <sup>0</sup>	"	"	"	"
"	5021	SA <sup>#</sup> 71	3 <sup>h</sup> 14 <sup>m</sup> +50	"	"	"	"
"	5022	6274 -58 <sup>0</sup> 541	-87 50	"	3	N Thomas	long 21st road
"	5023	6274 +441 -211022	-21 50	"	3+	"	"
"	5024	"	"	"	3	"	"
March 14/15	5025	Bradford E	1 <sup>h</sup> 42 <sup>m</sup> 11 <sup>0</sup>	Fair	1	H. Gielas	"
"	5026	Kohoutek	3 wts 7	Good	2	"	"
" 25/26	5027	Lovas	12 <sup>h</sup> 45 <sup>m</sup> 00	Fair	2	"	"
" "	5028	"	"	"	"	"	"
" 26/27	5029	Bradfield	2 <sup>h</sup> 13 <sup>m</sup> +18	Good	3	"	"
"	5030	E Bradford	2 <sup>h</sup> 13 +18	Good	3	"	"
"	5031	"	"	"	"	"	"
"	5032	E Kohoutek	3 <sup>h</sup> 57 +19	"	"	"	"
"	5033	RVLynis	6 <sup>h</sup> 52 +57	"	"	"	"
April 8/9	5034	Lovas	12 <sup>h</sup> 32	Poor	B	"	Woorlight
April 11/12	5035	Bradfield	"	good	"	"	"
"	5036	"	2 <sup>h</sup> 32 <sup>m</sup> +58	good	3	"	"
"	5037	"	"	"	"	"	"
"	5038	Lovas	12 <sup>h</sup> 52 <sup>m</sup> 00	"	"	"	"
Apr 18/19	5039	Bradfield	2 <sup>h</sup> 32 +66	Good	3	"	"
"	5040	Lovas	12 33 0 <sup>0</sup>	"	"	"	"
May 14/15	5041	Bradfield	9 <sup>h</sup> 00 +89	Good	2+	"	"
"	5042	Lovas	12 <sup>h</sup> 12 -10	"	4	"	"
June 8/9	5043	"	12 <sup>h</sup> 04 -2	Good	4	"	"
"	5044	Helin delj	14 <sup>h</sup> 44 -4	"	"	"	"
"	5045	"	"	"	"	"	"
"	5046	Bradfield	14 31 +7	"	"	"	"
June 11/12	5047	Helin delj	14 40 -5	Good	3	"	"
"	5048	"	"	"	"	"	"
"	5049	Epc Reg 5 Ep	17 <sup>h</sup> 44 +5	"	"	"	"
June 18/19	5050	Lovas North of	12 04 +20	Good	3	"	"
"	5051	Helin delj	14 <sup>h</sup> 42 -90	"	"	"	"
"	5052	"	"	"	"	"	"
"	5053	17 <sup>h</sup> 44 +50	17 <sup>h</sup> 44 +50	"	"	"	"
July 9/10	5054	14 41 -17 20	14 47	Good	3	"	"
"	5055	Helin delj	-17 0	"	"	"	"

Year	Date	Time	Speed	Oles	Time	Speed	Oles
1974	Aug 9/10	5056	16 <sup>h</sup> 26 <sup>m</sup> -35° 20'	Good	6000	3+	H. Gieseler
"	"	5057	" " " "	"	"	"	"
"	"	5058	15 <sup>h</sup> 34 <sup>m</sup> 45° 30'	Bad	"	"	"
"	"	5059	" " " "	"	"	"	"
"	"	5060	19 <sup>h</sup> 55 <sup>m</sup> 00°	Scale R	"	"	"
Aug 25/26	"	5061	23 37.2 -14 1/2	G273	"	3 ±	N. Thomas 0517
"	"	5062	" " " "	"	"	3 ±	"
"	"	5063	14 41.1 -27° 50'	G274	"	3	"
"	"	5064	" " " "	"	"	3	"
Sept 8/9	"	5068	20 <sup>h</sup> 04 <sup>m</sup> +35° 20'	Scale R	Good	3+	H. Gieseler
"	"	5069	16 <sup>h</sup> 10 <sup>m</sup> +35° 10'	Bad	"	"	"
"	13/14	5070	" " " "	"	"	"	"
"	"	5071	21 <sup>h</sup> 25 <sup>m</sup> +50°	Helin	Good	"	"
Sept 23/24	"	5072	1 41.4 -27 50	G274	Good	4	N. Thomas 0516
"	"	5073	" " " "	"	"	"	"
"	"	5074	5 18.6 -21 30	G274	"	"	"
"	"	5075	" " " "	"	"	"	0516
Sep 27/28	"	5076	4 <sup>h</sup> 06.2 +13 96	G7	"	3-2	Bunnham
"	"	5077	" " " "	"	"	"	"
"	"	5078	" " " "	"	"	"	"
Oct 15/16	"	5079	1 <sup>h</sup> 41.1 -27 50	G274	"	2-3	N. Thomas 515
"	"	5080	" " " "	"	"	"	"
"	"	5081	7 14 -22	G275A	"	2	"
"	"	5082	" " " "	"	"	"	"
Oct 24/25	"	5083	0 <sup>h</sup> 19 <sup>m</sup> +90° 48'	Helin	Fair +	3	H. Gieseler
"	"	5084	" " " "	Helin	"	"	"
"	"	5085	4 <sup>h</sup> 01 <sup>m</sup> +22° 12'	"	"	"	"
"	"	5086	" " " "	Helin	"	"	"
Nov 18	"	5087	11 <sup>h</sup> 22 <sup>m</sup> -34°	Good	Good	2	"
"	"	5088	" " " "	"	"	"	"
Dec 9/10	"	5089	1 41.1 -27 50	G274	Good	4-	N. Thomas 0519
"	"	5090	" " " "	"	"	4-	"
"	"	5091	6 28.8 31° 16'	G274	"	3	"
"	"	5092	" " " "	"	"	3	"
1975	Jan 4/5	5093	2 28 +35 30	Scale R	Good	2-	H. Gieseler
"	"	5094	" " " "	"	"	"	"
"	"	5095	7 28 +44 30	Good	"	"	"
"	"	5096	" " " "	"	"	"	"
"	"	5097	" " " "	"	"	"	"
"	"	5098	" " " "	"	"	"	"
"	"	5099	" " " "	"	"	"	"



1975

Date	Pl #		Reg.	Trans	Seed	Observer	Remarks
Jan 12/13	5101	SA 122	6 <sup>h</sup> 50 - 10	Good	2+	Thibodeau	
	5102	Eros	6 <sup>h</sup> 52 + 37	"	"	"	
	5103	RV Lynx	6 <sup>h</sup> 53 + 57	"	"	"	
	5104	K Gem	7 <sup>h</sup> 41 + 24	"	"	"	
	5105	"	"	"	"	"	
	5106	Eros	6 <sup>h</sup> 51 + 37	"	"	"	
Jan 14/15	5107	South West	23 <sup>h</sup> 21 + 2	Good	4	"	
"	5108	"	"	"	"	"	
"	5109	SA # 122	6 <sup>h</sup> 14 - 10	"	"	"	
"	5110	"	"	"	"	"	
"	5111	"	"	"	"	"	
Jan 14/15	5112	RV Lynx	6 <sup>h</sup> 51 + 51	"	"	"	
"	5113	Eros	7 <sup>h</sup> 50 + 37	"	"	"	
"	5114	"	"	"	"	"	
"	5115	Eros Reg	7 <sup>h</sup> 52 + 37	"	"	"	
Feb 2/3	5116	MP 1090	8 <sup>h</sup> 08 + 40	Good	3	"	
"	5117	"	"	"	"	"	
Feb 18/19	5118	"	8 <sup>h</sup> 10 + 17	Good	3+	"	
"	5119	"	"	"	"	"	
"	5120	Lampbrush	8 <sup>h</sup> 26 + 7	"	"	"	
"	5121	"	"	"	"	"	
"	5122	OA	9 <sup>h</sup> 18 + 45	"	"	"	
"	5123	"	"	"	"	"	
Mar 2/3	5124	619756	2 <sup>h</sup> 33 + 5	Good	3	"	
"	5125	621975C	3 <sup>h</sup> 04 + 23	"	"	"	
"	5126	mp 1767	8 <sup>h</sup> 20 + 8	"	"	"	
"	5127	"	"	"	"	"	
"	5128	RV Lynx	6 <sup>h</sup> 55 + 57	"	"	"	
Mar 3/4	5129	"	"	Poor	2	"	
" 4/5	5130	619756	3 <sup>h</sup> 02 + 18	Good	4	"	
"	5131	619756a	3 <sup>h</sup> 14 + 23	"	"	"	
"	5132	Lynx	6 <sup>h</sup> 57 + 51	"	"	"	
"	5133	1767a	8 <sup>h</sup> 20 + 78	"	"	"	
Apr 19/20	5134	"	18 <sup>h</sup> 00 - 40	Good	2	"	
" 29/30	5135	Lynx	6 <sup>h</sup> 55 + 51	Good	3	"	
"	5136	"	6 <sup>h</sup> 55 + 28	"	"	"	
"	5137	619756a	6 <sup>h</sup> 37 + 28	"	"	"	
"	5138	"	"	"	"	"	
"	5139	Lynx	6 <sup>h</sup> 51 + 51	"	"	"	

Date 1975	PR#	Region	$\angle, \epsilon$	Trans	Stead	Observe
May 3/4	5140	RVLynnes	$6^h 52^m + \sqrt{10}$	Good	3	Hickes
" 3/11	5141	Drum East	$13^h 59^m + 1^{\circ} 28'$	Good	3	"
July 15/16	5142	6197H	$20^h 28^m + 21^{\circ}$	Good	3	"
"	5143	"	"	"	"	"
"	5144	"	"	"	"	"
" 17/18	5145	"	$20^h 02^m + 33^{\circ}$	Good	3	"
"	5146	"	"	"	"	"
"	5147	"	"	"	"	"
" 28/29	5148	"	$14^h 53^m + 18^{\circ}$	Fair	2	"
" 30/31	5149	"	"	"	"	"
"	5150	"	$14^h 06^m + \sqrt{6}^{\circ}$	Good	3	"
"	5151	"	"	"	"	"
"	5152	"	"	"	"	"
July 31/Aug 1	5153	"	$13^h 58^m + \sqrt{6}^{\circ}$	Good	2	"
"	5154	"	"	Flamingo	"	"
"	5155	"	"	"	"	"
Aug 5/6	5156	"	$12^h 49^m + \sqrt{10}$	Fair	2	"
"	5157	"	"	"	"	"
Aug 15/16	5158	"	$11^h 51^m + 43.4^{\circ}$	Good	2	"
"	5159	"	"	"	"	"
"	5160	"	"	"	"	"
"	5161	6197H	$19^h 35^m + 1^{\circ} 30'$	"	"	"
"	5162	"	"	"	"	"
Aug 24/25	5163	6197H	$11^h 20^m + 38^{\circ}$	Good	3	"
"	5164	19 <sup>h</sup> 36 <sup>m</sup> 0 <sup>s</sup>	calab	"	"	"
Aug 25/26	5165	6197H	$11^h 15^m + 36^{\circ} 50'$	Good	2	"
"	5166	"	"	"	"	"
"	5167	"	"	"	"	"
"	5168	6197H	$19^h 28^m + 0.18^{\circ}$	"	"	"
Aug 30/31	5169	6197H	$11^h 00^m + 33^{\circ}$	Good	2	"
"	5170	Calab	$19^h 28^m + 0^{\circ}$	"	"	"
"	5171	Calab	"	"	"	"
"	5172	Nova Cygni	$21^h 10^m + 47^{\circ} 30'$	"	"	"
"	5173	"	"	"	"	"
Sept 10/11	5174	"	"	Fair	2	"
Sept 19/20	5175	6197H	$10^h 30^m + 10^{\circ}$	Good	2	"
"	5176	"	"	"	"	"
Sept 26/27	5177	Nova Cygni	$21^h 10^m + 49^{\circ}$	Good	3	"
"	5178	"	$21^h 10^m + 47^{\circ} 30'$	"	3	"
"	5179	Calab	" 00"	"	3	"

1975	PL							
Date	#	Region	L	S	Trans	Steel	Observer	
Sept 27/28	5180	S Caleb	21 <sup>h</sup> 32 <sup>m</sup>	00°	Good	3	H Gicles	
"	5181	"	"	"	"	"	"	
"	5182	44 Picum	0 <sup>h</sup> 23 <sup>m</sup>	+10° 40'	"	2	"	
Sept 29/30	5183	S Caleb	21 <sup>h</sup> 33 <sup>m</sup>	+0° 40'	Good	2	"	
"	5184	44 Picum	0 <sup>h</sup> 23 <sup>m</sup>	+10° 40'	"	"	"	
Oct 1/2	5185	CO-2716339	23 <sup>h</sup> 28.2	-27 34	"	3	N. Thomas	
"	5186	"	"	"	"	"	"	
Oct 2/3	5187	CO-2716339	23 28.2	-27 34	"	4-4+	"	518
"	5188	"	"	"	"	"	"	516
"	5189	CC263 CA	0 12.4	-9 51	"	4	"	514
"	5190	"	"	"	"	4-	"	
Oct 3/4	5191	G-233	22 <sup>h</sup> 48	+15° 40'	Good	3	H Gicles	
"	5192	44 Picu	0 <sup>h</sup> 23	+10° 40'	"	"	"	
"	5193	#1975H	10 <sup>h</sup> 28	-10	"	"	"	
"	5194	"	"	"	"	"	"	
Oct 6/7	5195	Johns Swamp	6 <sup>h</sup> 16 <sup>m</sup>	+12° 45'	Good	2	"	
"	5196	"	"	"	"	"	"	
"	5197	Maxden Swamp	8 <sup>h</sup> 10 <sup>m</sup>	-10	"	"	"	
"	5198	"	11 <sup>h</sup> 25 <sup>m</sup>	+45°	"	"	"	
Oct 9/10	5199		0 <sup>h</sup> 12 <sup>m</sup>	-9° 51	Good	2	"	
"	5200	44 Picu	0 <sup>h</sup> 23 <sup>m</sup>	+10° 40'	"	"	"	
"	5201		0 <sup>h</sup> 12 <sup>m</sup>	-9° 51	"	"	"	
Oct 10/11	5202		"	"	Good	2	"	
"	5203	44 Picu	0 23	+10 40	"	"	"	
Oct 11/12	5204	#1975J	8 <sup>h</sup> 25 <sup>m</sup>	+10	Good	1	"	
"	5205	1975K	11 <sup>h</sup> 17 <sup>m</sup>	+43°	"	"	"	
"	5206	"	"	"	"	"	"	
"	5207	#1975H	10 <sup>h</sup> 30 <sup>m</sup>	-13° 14'	"	"	"	
"	5208	"	"	"	"	"	"	
Oct 15/16	5209	#1975J	8 <sup>h</sup> 32	-40	Good	3	"	
"	5210	#1975K	11 <sup>h</sup> 25	+42	"	"	"	
"	5211	"	"	"	"	"	"	
"	5212	75H	10 <sup>h</sup> 32	-17	"	"	"	
Oct 26/29	5213	75J	8 35	-13	Good	3	"	
"	5214	"	"	"	"	"	"	
"	5215	#1975K	13 <sup>h</sup> 05	+15°	"	"	"	
"	5216	"	"	"	"	"	"	
"	5217	"	"	"	"	"	"	

1975-76 PL

DATE	#	Region	$\alpha$	$\delta$	Trans.	Stars	Observer	Comment
Nov 4/5	5218	C275	23 <sup>h</sup> 28.2	-27 <sup>o</sup> 34'	good	4-4 <sup>+</sup>	N. Thomas	S 18
" "	5219	"	"	"	"	4-4 <sup>+</sup>	"	"
Nov 5/6	5220	G273 A&B	23 <sup>h</sup> 37.2	-14 <sup>o</sup> 30'	good	3-4	"	"
" "	5221	G273	23 38.2	-27 <sup>o</sup> 34'	"	4-3-2	"	Seeing 1/3
" "	5222	G273 A&B	23 37.2	-14 30	"	3	"	"
Nov. 13/14	5223	44 Tauri	3 <sup>h</sup> 40	+19 <sup>o</sup> 1/2	good	3-	H. Gies	"
" "	5224	1975J	8 42	-32 1/2	"	"	"	"
" "	5225	1975P	11 19	-39 <sup>o</sup>	"	"	"	"
Dec 5/6	5226	1975N	20 <sup>h</sup> 33	-38 <sup>o</sup>	Good	2	"	"
" "	5227	"	"	"	"	"	"	"
" "	5228	Nova Cygni	21 <sup>h</sup> 10 <sup>m</sup>	+47 <sup>o</sup> 40'	"	"	"	"
" 9/10	5229	1975g	12 <sup>h</sup> 19	+11 <sup>o</sup>	Good	4	"	"
" "	5230	"	"	"	"	"	"	"
" 11/12	5231	"	12 20	0 <sup>o</sup> 11'	Good	3	"	"
" "	5232	"	"	"	"	"	"	"
<u>1976</u>								
Jan 3/4	5233	Kovell Obj	21:26	+58 40	Good	3	"	"
" "	5234	"	"	"	"	"	"	"
Jan 8/9	5235	Helix Obj	6 <sup>h</sup> 25	+22 <sup>o</sup> 48'	Good	2	"	"
" "	5236	"	"	"	"	"	"	"
" "	5237	"	"	"	"	"	"	"
Jan 10/11	5238	"	6 <sup>h</sup> 25	+24 <sup>o</sup>	Good	"	"	"
" "	5239	"	"	"	"	"	"	"
Jan 19/20	5240	"	5 <sup>h</sup> 26	+43 <sup>o</sup>	Good	2	"	"
" "	5241	"	"	"	"	"	"	"
Jan 20/21	5242	Kovell Obj	21 <sup>h</sup> 25	+48 <sup>o</sup> 10'	Good	3	"	"
" "	5243	"	"	"	"	"	"	"
" "	5244	Helix Obj	5 <sup>h</sup> 18 <sup>m</sup>	+45 <sup>o</sup>	"	"	"	"
" "	5245	"	"	"	"	"	"	"
Jan 27/28	5246	SA71	3 <sup>h</sup> 14	+15 <sup>o</sup>	Good	3	"	"
" "	5247	1976AA	0 <sup>h</sup> 19	+55 <sup>o</sup>	"	"	"	"
" "	5248	"	"	"	"	"	"	"
Jan 30/31	5249	mp 197	0 <sup>h</sup> 44	-20	Fair	3	"	"
" "	5250	1976AA	3 <sup>h</sup> 45	+13 <sup>o</sup>	"	"	"	"
Feb 2/3	5251	mp 197	0 44	-20	good	2	"	"
" "	5252	1976AA	3 <sup>h</sup> 36	+59 <sup>o</sup>	"	"	"	"
Feb 20/21	5253	1976A	2 <sup>h</sup> 03	-32 1/2	good	2	"	"
" "	5254	"	"	"	"	"	"	"

1976	PL #	Object	$\alpha$	$\delta$	Transp	Speed	Owner
Feb 24/25	5255	1976a	2 <sup>h</sup> 20 <sup>m</sup>	-30	Good	3	Hbides
Mar 5/6	5256	1975m	21 44	+70	Poor	-	"
Mar 6/7		"			clouds - snow		N. Thomas
" 7/8	5257	"		+120	Good	2	H. Biela
" 8/9	5258 <sup>a</sup>	"			Fair	"	"
" "	5259	"			"	"	"
" "	5260	"			"	"	"
" 9/10	5261 <sup>a</sup>	"	21 <sup>h</sup> 10 <sup>m</sup>	+130	Good	2+	"
"	5262	"	"	"	"	"	"
"	5263	"	21 25	+848	"	"	"
Mar 12/13	5264	"	21 03	+1440	Good	2	"
"	5265	"	"	"	"	"	"
"	5266	"	21 19	+10	"	"	"
Mar 13/14	5267 <sup>a</sup>	"	20 59	+15	FAIR	3	Burnham
" 14/15	5268 <sup>a</sup>	"	21 58	+15	Good	2	Hbides
"	5269	"	21 13	+10 1/2	"	"	"
"	5270	"	"	"	"	"	"
Mar 19/20	5271	"	21 04	+1040	Good	1	"
"	5272 <sup>a</sup>	"	"	"	"	"	"
" 21/22	5273	"	21 <sup>h</sup> 01 <sup>m</sup>	+120	Good	2	"
" "	5274	"	"	"	"	"	"
" 28/29	5275	"	21 50	+14	Poor	"	"
" 29/30	5276	"	"	"	Good	2-	"
"	5277	"	20 40	+1338	"	"	"
"	5278	"	"	"	"	"	"
April 7/8	5279 <sup>a</sup>	"	20 <sup>h</sup> 40 <sup>m</sup>	+150	Good	2	"
"	5280	"	"	"	"	"	"
"	5281	"	"	"	"	"	"
"	5282	"	"	"	"	"	"
Apr 9/10	5283	"	20 38	+1508	Good	2	"
"	5284	"	"	"	"	"	"
"	5285	"	"	"	"	"	"
Apr 27/26	5286	"	20 16	+17	Good	1	"
"	5287	"	"	"	"	"	"
"	5288	"	"	"	"	"	"
Apr 27/28	5289	SAO 153844	8 <sup>h</sup> 04 <sup>m</sup>	-13 31	Good	2	"
"	5290	"	"	"	"	"	"
"	5291	"	"	"	"	"	"
"	5292	RV Lynx	6 <sup>h</sup> 24 <sup>m</sup>	+57	"	"	"

Date	PR#	Object	$\alpha$	$\delta$	Trans	Glad	Observed	Run
Apr 30/May 1	5293	SA0153844	$8^h 04^m -13^s 31'$		Good	2	H. G. G. G.	
"	5294	"	"	"	"	"	"	"
"	5295	"	"	"	"	"	"	"
"	5296	R/Lynx	$6^h 51^m + 51^s$		"	"	"	"
May 9/10	5297	West 1925	$19^h 49^m + 18^s$		Good	3	"	"
"	5298	"	"	"	"	"	"	"
"	5299	"	"	"	"	"	"	"
May 10/11	5300	SA0153844	$7^h 58^m -12^s 12'$		Good	2	"	"
"	5301	"	"	"	"	"	"	"
"	5302	61925 Harlan	$13^h 21^m + 4^s 0'$		"	"	"	"
"	5303	"	"	"	"	"	"	"
"	5304	Harlan E	$13^h 12^m + 4^s 3'$		Good	3	" 83.7-83.5	
"	5305	"	"	"	"	"	"	"
May 22/23	5306	"	$13^h 09^m + 4^s 1/2'$		Good	3	"	"
"	5307	"	"	"	"	"	"	"
"	5308	SA 57	$13^h 06^m + 29^s 30'$		"	"	" 83.5, 6	
May 31/June 1	5309	Harlan E	$13^h 08^m + 39^s 17'$		Good	3	"	"
"	5310	"	"	"	"	"	"	"
June 1/2	5311	Scorpius	$12^h 29^m + 14^s 45'$		Good	3	"	"
"	5312	"	"	"	"	"	"	"
"	5313	Nov. Scorpius	$15^h 42^m + 37^s 18'$		"	"	"	"
"	5314	SA 57	$13^h 06^m + 29^s 38'$		"	"	"	"
June 6/7	5315	West	$18^h 41^m + 16^s 40'$		Good	3	"	"
"	5316	"	"	"	"	"	"	"
June 15/16	5317	"	$18^h 22^m + 14^s 50'$		Good	2	"	"
" 17/18	5318	G 164	$12^h 57^m + 34^s 40'$		Good	3	"	"
" 22/23	5319	West	$18^h 06^m + 13^s 24'$		Good	3	"	"
Aug 6/7	5320	G 157	$23^h 26^m - 40^s$		Good	4	"	"
" 18/19	5321	West	$17^h 15^m + 0^s 50'$		Good	4	"	"
" "	5322	Direct	$22^h 25^m - 22^s 10'$		"	"	"	"
Aug 26/27	5323	West	$17^h 5^m - 0^s 50'$		Good	4	"	"
"	5324	"	"	"	"	"	"	"
"	5325	"	"	"	"	"	"	"
"	5326	"	"	"	"	"	"	"
Oct. 14/15	5327	#44 P. V. V.	$00^h 23^m + 1^s 40'$		Good	3	" ~ 83.7 to 83.7	
" 16/17	5328	"	"	"	Fair	3	"	"
Oct 26/27	5329	Helix Obj.	$00^h 05^m \pm 0^s$		Good	2	"	"
"	5330	" UA	"	"	"	"	"	"
" 28/29	5331	1976 UA	$00^h 13^m - 3^s 0'$		Good	3	"	"
" "	5332	"	"	"	"	3	"	"

1976	R#	Obj.	RA	Dec	Trans	Star	Observer
Oct 30/31	J333	1976UA	00 <sup>h</sup> 13	-3°	Good	3	Hbridal
Nov 2/3	J334	mp197	7 <sup>h</sup> 21 <sup>m</sup>	+25°	Good	3	"
" 3/4	J335	"	"	"	Good	3	"
Nov 18/19	J336	#1604	6 <sup>h</sup> 40 <sup>m</sup>	+31°50'	Good	4	"
" "	J337	#197	7 <sup>h</sup> 21 <sup>m</sup>	+24°34'	"	"	"
Nov 19/20	J338	1976AV	4 <sup>h</sup> 17 <sup>m</sup>	+20°	Good	3+	"
"	J339	"	"	"	"	"	"
"	J340	"	"	"	"	"	"
"	J341	mp1604	6 <sup>h</sup> 40	+31°45'	"	"	"
"	J342	#197	7 <sup>h</sup> 22 <sup>m</sup>	+24°35'	"	"	"
Dec 20/21	J343	1976UA	2 <sup>h</sup> 32	-25	Good	3	"
"	J344	"	"	"	"	"	"
"	J345	mp1604	6 <sup>h</sup> N	+31°20'	"	"	"
"	J346	"	"	"	"	"	"
"	J347	197mp	7°03	+26°30'	"	"	"
"	J348	"	"	"	"	"	"
Dec 21/22	J349	2 <sup>h</sup> 32-25	2 <sup>h</sup> 32-25		Good	3	"
"	J350	6 <sup>h</sup> 1604	6 <sup>h</sup> 16	+43°	"	"	"
"	J351	"	7:03	+16	"	"	"
"	J352	mp:97	7:03	+26°30'	"	"	"
1977		1977		1977			"
Jan 11/12	J353	mp1604	5 <sup>h</sup> 55	+31°	Good	3+	"
"	J4	"	"	"	"	"	"
"	J5	Arct 197	6 <sup>h</sup> 40 <sup>m</sup>	+28	"	"	"
"	J356	"	"	"	"	"	"
Feb 2/3	J357	SAD-Mans	14 <sup>h</sup> 35	-15°	Good	2	"
"	J358	"	"	"	"	"	"
"	J359	"	"	"	"	"	"
Feb 11/12	J360	197Arct	6 <sup>h</sup> 19 <sup>m</sup>	+28½	Good	2-	"
"	61	"	"	"	"	"	"
"	62	RV Lynx	6 <sup>h</sup> 54	+52	"	"	"
"	J363	"	"	"	"	"	"
"	J364	197 Arct			Good	3	"
"	J365	RV Lynx			"	"	"
"	J366	"			"	"	"
Mar 11/12	J368	197 Arct	6 <sup>h</sup> 22 <sup>m</sup>	+28½	Good	3	"
"	J369	RV Lynx	6 <sup>h</sup> 52 <sup>m</sup>	+52	"	"	"
Mar 14/15	J370	Arct	6 <sup>h</sup> 21	+29	Good	4	"
"	J371	RV Lyn	6 <sup>h</sup> 54	+51°	"	"	"

Date	R#	Out	Pos	Trav	Steer	Owner
1977 Mar 14/15	5372	1976 YB	6 <sup>h</sup> 52 <sup>m</sup> + 59 <sup>o</sup>	Good	4	H. Bickel
"	5373	"	"	"	"	"
"	5374	RV Lynce	"	"	"	"
Mar 22/23	5375	RV Lynce	"	Good	3	"
"	76	"	"	"	"	"
"	5377	"	"	"	"	"
"	5378	197 Arete	6 <sup>h</sup> 24 <sup>m</sup> + 27 <sup>o</sup> 40'	"	"	"
Mar 30/31	5379	RV Lynce	6 <sup>h</sup> 52 <sup>m</sup> + 51 <sup>o</sup>	Poor	3	"
"	5391	"	"	"	"	"
April 3/4	5392	Wannfield	14 <sup>h</sup> 33 <sup>m</sup> - 14 <sup>h</sup> 40	Good	0	"
"	5393	"	"	"	"	"
April 7/8	5394	RV Lynce	6 <sup>h</sup> 54 <sup>m</sup> + 51 <sup>o</sup>	Good	3	"
"	55	Jen, Plates here	"	"	"	"
"	55	"	"	"	"	"
"	5403	"	"	"	"	"
April 13/14	5404	RV Lynce	6 <sup>h</sup> 54 <sup>m</sup> + 57 <sup>o</sup>	Good	3	"
"	5405	"	"	"	"	"
"	5406	"	"	"	"	"
"	5407	"	"	"	"	"
Apr. 18/19	5408	Helin Old	12 <sup>h</sup> 57 <sup>m</sup> + 35 <sup>o</sup>	Fair	3	"
"	5409	"	12 <sup>h</sup> 30 <sup>m</sup> - 8 <sup>o</sup> 30'	"	"	"
"	5410	"	"	"	"	"
"	5411	"	12 <sup>h</sup> 59 <sup>m</sup> + 35 <sup>o</sup>	"	"	"
Apr 21/22	5412	61977e Helin	12 <sup>h</sup> 51 <sup>m</sup> - 11 <sup>o</sup>	Good	3	"
"	5413	"	"	"	"	"
"	5414	Helin m.p	13 <sup>h</sup> 12 <sup>m</sup> + 35 <sup>o</sup>	"	"	"
"	5415	"	"	"	"	"
Apr 24/25	5416	1977 HA Helin	1319 + 5430	Good	"	"
"	5417	"	"	"	"	"
Apr 25/26	5418	Rouel m.p	13 <sup>h</sup> 53 <sup>m</sup> - 13 <sup>o</sup> 38'	Poor	3	"
"	5419	"	"	"	"	"
"	5420	"	"	"	"	"
Apr. 28/29	5421	"	13 39 - 14 18	Good	3	"
"	5422	"	"	"	"	"
"	5423	"	"	"	"	"
May 4/5	5424	Helin	12 <sup>h</sup> 15 <sup>m</sup> - 20 <sup>o</sup> 40'	Good	3	"
"	5425	"	"	"	"	"
May 17/18	5426	"	7 <sup>h</sup> 50 <sup>m</sup> + 31	Good	2	"
"	5427	"	"	"	"	"
"	5428	1977 HB	"	"	"	"
"	5429	"	13 <sup>h</sup> 00 - 17 <sup>o</sup>	"	3	"



1977	P2#	Reg	$\alpha$	$\delta$	Trans	Head	Comment
June 10/11	5430	Sagg	18 <sup>h</sup> 25	-16°	good	5	Hoblas
"	5431	"	"	"	"	"	"
"	5432	M.P.	19 <sup>h</sup> 26	-7°07'	"	"	"
June 12/13	5433	"	"	"	good	4	"
" 14/15	5434	"	"	"	good	3	"
"	5435	Einke	3 <sup>h</sup> 21 <sup>m</sup>	+25°	"	"	"
June 19/20	5436	"	3 <sup>h</sup> 41 <sup>m</sup>	+26	Good	3+	"
" 26/27	5437	"	4 04	+28	Fair	1	"
July 5/6	5438	Pallas	10 <sup>h</sup> 58 <sup>m</sup>	+12°19'	Good	2	"
"	5439	"	"	"	"	"	"
"	5440	"	"	"	"	"	"
"	5441	"	"	"	"	"	"
July 6/7	5442	"	10 <sup>h</sup> 59.0	+12°0'	Poor	"	"
"	5443	"	"	"	"	"	"
"	5444	"	"	"	"	"	"
July 7/8	5445	1960 UA	17 <sup>h</sup> 32 <sup>m</sup>	-13°40'	Good	3	"
" 9/10	5446	"	"	"	Good	3	"
"	5447	Lampson	19 <sup>h</sup> 07	-7°00'	"	"	"
July 18/19	5448	Euler	6 <sup>h</sup> 10 <sup>m</sup>	+29°	Good	2	"
" 19/20	5449	"	6 <sup>h</sup> 18 <sup>m</sup>	"	"	2	"
Aug 1	5450	"	"	"	"	"	"
Aug 4/5	5451	85009	17 <sup>h</sup> 17 <sup>m</sup>	+27 1/2°	Good	3	"
"	5452	SAO	"	"	"	"	"
"	5453	"	"	"	"	"	"
"	5454	"	"	"	Poor	"	"
Aug 7/8	5455	#1767 mp	18 <sup>h</sup> 50 <sup>m</sup>	-8°	Good	4	"
Sept 3/4	5456	G22	19 04	+0038	Good-	3	"
Sept 5/6	5457	#1741	23 <sup>h</sup> 33	-7 12	Good	3	"
"	5458	"	"	"	Poor	"	"
Sept 6/7	5459	Kohler	15 <sup>h</sup> 28	+2830	Good	3	"
"	5460	"	"	"	Poor	"	"
Sept 7/8	5461	mp Gides	23 <sup>h</sup> 33	"	Good	3	"
"	5462	#1977L	00 <sup>h</sup> 25	-4°00'	Good	"	"
Sept 8/9	5463	#1977 M	15 <sup>h</sup> 31	+28°	Good	3	"
"	5464	Kohler	"	"	"	"	"
Sept 14/15	5465	"	"	+2940	Good-	3-	"
" 15/16	5466	1977RA	00 <sup>h</sup> 00	+17 1/2	✓	2	"
"	5467	1977L	00 13	-540	✓	✓	"

1977	Q#	Object	RA	Dec	Trans	Sted	Observer
Sept 17/18	5468	1977M Koller	15 <sup>h</sup> 52 <sup>m</sup>	+25 <sup>o</sup> 00'	Good	3+	H. Gielas
"	5469	"	"	"	"	"	"
"	5470	#1741 Gides	23 25	-8 25	"	"	"
"	5471	Helix Obj	23 43	+12 18	"	"	"
"	5472	"	"	"	"	"	"
"	5473	1977L Chaykin	00 11 <sup>m</sup>	-5 <sup>o</sup> 25'	"	"	"
"	5474	"	"	"	"	"	"
Sept 18/19	75	Wido amp	23 <sup>h</sup> 46 <sup>m</sup>	+17 <sup>o</sup> 40'	Good	4	"
"	76	Helix Obj	"	"	"	"	"
"	77	"	23 43 <sup>m</sup>	+12 <sup>o</sup> 18'	"	"	"
"	78	Gielas 1960BC	23 25	-8 20'	"	"	"
"	5479	1977L	00 10 <sup>m</sup>	-5 <sup>o</sup> 25'	"	3	"
Oct 3/4	5480	Gielas 1960BC	23 <sup>h</sup> 10 <sup>m</sup>	-9 <sup>o</sup> 40'	Fair	3	"
"	5481	1977L	00 03 <sup>m</sup>	-6 48'	"	"	"
Oct 4/5	5482	Gielas 1960BC	23 <sup>h</sup> 10 <sup>m</sup>	-9 <sup>o</sup> 40'	Fair	3	"
"	5483	1977L	00 02	-6 38'	"	"	"
Oct 11/12	5486	G276 -13 <sup>o</sup> 386	2 <sup>h</sup> 05.8	-12 34	Good	3	N. Thomas
"	5487	"	"	"	"	"	"
Oct 10/11	5484	Koller	16 <sup>h</sup> 56 <sup>m</sup>	+15 50	Good	3	H. Gielas
"	5485	"	"	"	"	"	"
Oct 12/13	5488	G276 -13 <sup>o</sup> 386	2 <sup>h</sup> 05.8	-12 34	Good	3	N. Thomas
"	5489	"	"	"	"	3-4	"
Oct 13/14	5490	Koller 71 <sup>m</sup>	17 <sup>h</sup> 11	+11 <sup>o</sup> 40'	Good	3	H. Gielas
"	5491	"	"	"	"	"	"
Oct 17/18	5492	1960BC Gide	23 07	-9 20	Good	3	"
"	5493	1977L	23 55	-7 30	"	"	"
Oct 30/31	5494	1977m Koller	18 <sup>h</sup> 18 <sup>m</sup>	-0 <sup>o</sup> 20'	Good	3	"
"	5495	"	"	"	"	"	"
"	5496	"	"	"	"	"	"
Nov 3/4	5497	1977M Koller	18 <sup>h</sup> 39	-4 <sup>o</sup> 20'	Good	3	"
"	98	"	"	"	"	"	"
"	99	"	"	"	"	"	"
"	5500	1977L Chaykin	23 <sup>h</sup> 52 <sup>m</sup>	-8 <sup>o</sup> 00'	"	"	"
Nov 8/9	5501	G276 -13 <sup>o</sup> 386	2 <sup>h</sup> 05.8	-12 34	"	"	N. Thomas
"	5502	"	"	"	"	"	"
Nov 9/10	5503	Helix # 2	14 15 <sup>m</sup>	+8 22	Good	3	H. Gielas
"	5504	"	"	"	"	"	"
"	5505	1977U A	21 29	+13 53	"	"	"
"	5506	Helix # 4	3 05	+19 20	"	"	"
"	5507	"	"	"	"	"	"
Nov 10/11	5508	1977Q	105.4 144		Var.	+4	N. Thomas

1977	PL#	Object	R.A	Dec	Trans	Seeing	Observer
Nov 10/11	5509	1977 Q BC 1374	1 <sup>h</sup> 05.4	+1° 44'	Fair	+4-3	N. Thomas
"	5510	? MP/6276	2 05.8	+2 34	"	+3	"
"	5511	" (6276)	"	"	"	+3	"
Nov 12/13	5512	1977 Q	1 <sup>h</sup> 07	+2° 20'	Good	3	H. Gickas
"	5513	1977 VB	1 <sup>h</sup> 17 <sup>m</sup>	+6 28	"	"	"
"	5514	"	"	"	"	"	"
"	5515	1977 VA	2 <sup>h</sup> 37 <sup>m</sup>	+13 40	"	"	"
"	5516	m.p.	3 <sup>h</sup> 05 <sup>m</sup>	+19° 50'	"	"	"
Nov 14/15	5517	1977 Q	0 <sup>h</sup> 59 <sup>m</sup>	+1°	Good	3	"
"	5518	1977 VB	1 <sup>h</sup> 20 <sup>m</sup>	+5° 10'	Fair	"	"
"	5519	m.p.	2 <sup>h</sup> 5 <sup>m</sup>	+20 40	Poor	0	"
Nov 15/16	5520	"	"	"	Good	2	"
Nov 28/29	5501	MP 36 VD	1 <sup>h</sup> 50.7	-12 10	"	2	N. Thomas
"	5522	"	"	"	"	"	"
Dec 6/7	5523	1977 N	21 41	-28 40	Good	3	H. Gickas
"	5524	TP Cap	20 26	-18° 20'	"	"	"
"	5525	1977 L	00 05	-5° 55'	"	"	"
"	5526	1977 VC	2 <sup>h</sup> 27 <sup>m</sup>	+22° 50'	"	"	"
"	5527	"	"	"	"	"	"
Dec 12/13	5528	MP 6716 II	1 <sup>h</sup> 50	-9°	"	"	N. Thomas
"	5529	"	1 <sup>h</sup> 50	-9°	"	"	"
<b>1978</b>							
Jan 7/8	5530	6241	23 <sup>h</sup> 11 <sup>m</sup>	+64 40	Good	3	H. Gickas
" 8/9	5531	"	"	"	Good	3	"
" "	5532	GD-52	22 <sup>h</sup> 47	+63 08	"	"	"
"	5533	Thoresup	2 <sup>h</sup> 04	-20 20	"	"	"
"	5534	1977 VC	2 <sup>h</sup> 17	+27 31	"	"	"
Jan 24/27	5535	44 Pirc	0 <sup>h</sup> 23	+11 45	Good	3	"
"	5536	6246	3 <sup>h</sup> 06 <sup>m</sup>	+63 45	"	"	"
"	5537	1978 B	5 <sup>h</sup> 12 <sup>m</sup>	+30° 00'	"	"	"
Mar 7/8	5538	6246	3 <sup>h</sup> 09	+63 40	Good	3+	"
"	5539	Wild(2)	5 34	+21 54	"	"	"
"	5540	Bernia	6 <sup>h</sup> 49	+21 37	"	"	" + Old Fris
"	5541	1313	"	"	"	"	"
"	5542	78 CA	9 <sup>h</sup> 56	+28 00	"	"	"
"	5543	"	"	"	"	"	"
"	5544	78 DA	12 <sup>h</sup> 42	-6° 00'	"	"	"
"	5545	"	"	"	"	"	" T. Powell

1978	PR No	Object	RA	Dec	Trans	Stood	Observer
March 7/8							
"	5546	Vesta	16 <sup>h</sup> 53 <sup>m</sup>	-15 <sup>o</sup> 28'	Good	3+	H. Gielos
"	5547	"	"	"	"	"	"
"	5548	Pallas	17 <sup>h</sup> 21 <sup>m</sup>	+10 <sup>o</sup> 30'	"	"	"
"	5549	"	"	"	"	"	"
Mar 14/15	5550	Vesta	16 <sup>h</sup> 58 <sup>m</sup>	-15 <sup>o</sup> 30'	Good	3	"
"	5551	"	"	"	"	"	"
"	5552	Pallas	17 <sup>h</sup> 28	+12 <sup>o</sup>	"	"	"
Mar 16/17	5553	Vesta	16 <sup>h</sup> 58	-15 <sup>o</sup> 36	Good	2	"
"	5554	Pallas	17 <sup>h</sup> 28	+12 <sup>o</sup> 20	"	"	"
"	5555	Vesta	16 <sup>h</sup> 58	-15 <sup>o</sup> 36	"	"	"
"	5556	Bradfield	22 22	+12 <sup>o</sup> 24	"	"	"
March 17/18	5557	Vesta	16 <sup>h</sup> 58	-15 <sup>o</sup> 40	Good	"	"
April 11/12	5558	Pallas	17 <sup>h</sup> 38	+17 <sup>o</sup> 46	Good	3	"
"	5559	"	"	"	"	"	"
Apr 18/19	5560	"	17 <sup>h</sup> 38	+22 <sup>o</sup> 30	Good	3	"
"	61	"	"	"	"	"	"
"	62	"	"	"	"	"	"
Apr 26/27	5563	Comet Snp	7 <sup>h</sup> 18 <sup>m</sup>	+54 <sup>o</sup> 0	Good	3	Shooting!
"	5564	"	"	"	"	"	"
Apr 27/28	5565	"	"	"	Good	"	"
"	5566	"	"	"	"	"	"
"	5567	Arctes	11 <sup>h</sup> 24	+16 <sup>o</sup> 05	"	"	"
May 3/4	5568	Meier &	7 <sup>h</sup> 17 <sup>m</sup>	+52 <sup>o</sup> 40	Good	"	"
"	5569	"	"	"	"	"	"
"	5570	Arctes	11 <sup>h</sup> 23	+16 <sup>o</sup> 08	"	"	"
"	5571	Pallas	17 <sup>h</sup> 26	+23 <sup>o</sup> 30	Fair	"	"
"	5572	"	"	"	Poor	"	"
May 7/8	5573	Meier &	7 <sup>h</sup> 31	+51 <sup>o</sup> 20	Good	"	"
"	5574	"	"	"	"	"	"
"	5575	Arctes	11 <sup>h</sup> 21	+16 <sup>o</sup> 09	"	"	"
May 8/9	5576	Pallas	17 <sup>h</sup> 24	+24 <sup>o</sup> 20	Good	"	"
"	5577	"	"	"	"	"	"
May 9/10	5578	& Meier	7 <sup>h</sup> 34	+50 <sup>o</sup> 40	Good	"	"
"	5579	"	"	"	"	"	"
"	5580	Arctes	11 <sup>h</sup> 20	+16 <sup>o</sup> 05	"	"	"
"	5581	786D	13 <sup>h</sup> 54	-10 <sup>o</sup> 00	"	"	"
May 11/12	5582	Pallas	17 <sup>h</sup> 24	+24 <sup>o</sup> 20	Good	"	"
May 12/13	5583	& Meier	7 <sup>h</sup> 38	+49 <sup>o</sup> 40	Good	"	"
"	5584	"	"	"	"	"	"

1978

Date	R#	Obj.	RA	Dec	Trans	Steer	Observed	
May 15/6	5585	Pallas	17 <sup>h</sup> 23	+24 20	Good	2	H. Beck	
"	5586	"	"	"	"	4	"	
May 16/17	5589	"	17 <sup>h</sup> 17.5	+25 32	Good	3	"	
May 17/18	5588	"	17 17	+25 21	Good	2	"	
" 21/22	5589	"	"	"	"	"	"	Moodlight
" 25/26	5590	"	"	"	Good	3	"	"
" 27/28	5591	Mieie &	8 <sup>h</sup> 00 <sup>m</sup>	+46 20	Good	3	"	
"	92	Debgk mp.	13 <sup>h</sup> 47	-10 <sup>o</sup>	"	01	"	
"	93	Region	17 47	+25 40	"	"	"	
"	94	Pallas	17 18	"	"	0	0	
May 28/29	5595	"	"	"	Good	3	"	
"	96	"	"	"	"	"	"	
"	5597	"	"	"	"	"	"	
June 1/2	5598	de Meier	8 <sup>h</sup> 07	+4 50	Good	3	"	
June 2/3	5599	"	"	"	Good	3	"	
"	5600	Cereto	11 <sup>h</sup> 27	+14 N	"	"	"	
"	5601	1978 GD	13 30	-10 <sup>o</sup> 00	"	"	"	
"	5602	Pallas	17 15	+26 <sup>o</sup>	"	"	"	
June 25/26	5603	1978 F	8 <sup>h</sup> 44	+38 40	Good	3	"	
"	5604	"	"	"	"	"	"	
June 30/Jul 1	5605	"	8 54	+37	Good	1	"	
"	5606	Regulus	10 <sup>h</sup> 06	+12 12	"	"	"	
July 3/4	5607	Meier &	9 <sup>h</sup> 00	+36 39	Good	3	"	
"	5608	m p's	16 41	-14 <sup>o</sup> 50'	"	"	"	
July 7/8	5609	SAO/HAS 2	15 25	-9 10'	Good	3	"	
"	5610	"	"	"	"	"	"	
"	5611	m p's	16 <sup>h</sup> 40	-15 <sup>o</sup> 00'	"	"	"	
July 11/12	5612	ACK 3	2 <sup>h</sup> 26	+13 50	Good	3	"	
"	5613	"	"	"	"	"	"	
July 27/28	5614	Nept.	17 <sup>h</sup> 24	-21 25	Good	"	"	
"	5615	"	"	"	"	"	"	
"	5616	"	"	"	"	"	"	
"	5617	"	16 58	-21 10	Good	"	"	
"	5618	"	"	"	"	"	"	
"	5619	"	"	"	"	"	"	
"	5620	m p's	20 28	-27 50	"	"	"	
July 29/30	5621	Uranus &	15 12	-17 40	Good	3	"	
"	5622	"	"	"	"	"	"	
"	5623	"	"	"	"	"	"	

Date	Obs #	Region	RA	Dec	Trans	Stand	Observed
July 29/30	5624	Uranus	14 <sup>h</sup> 39	-15° 10'	Good	2	H. G. G. G.
"	5625	"	"	"	"	"	"
"	5626	Ur Reg	15 30	-18° 28'	"	2	"
"	5627	"	"	"	"	"	"
"	5628	"	"	"	"	"	"
"	5629	"	"	"	"	"	"
29/30	5630	m. p. s.	20 28	-28 50	"	"	"
Aug 4/5	5631	& Meier	9 57	+24°	Good	2	"
"	5632	Pluto	17 58	+10°	"	"	"
"	5633	"	"	"	"	"	"
"	5634	"	"	"	"	"	"
"	5635	A region	13 <sup>h</sup> 48	+8° 30'	"	"	"
"	5636	"	"	"	"	"	"
"	5637	"	"	"	"	"	"
"	5638	m. p. s.	20 <sup>h</sup> 16 <sup>m</sup>	-28° 10'	"	"	"
"	5639	"	21 30	-19 00	"	"	"
Aug 9/10	5640	"	"	"	"	"	"
Aug 17/18	5641	Herculina	15 <sup>h</sup> 22.9	-8° 44'	"	3	R. B.
"	5642	"	"	"	"	"	"
"	5643	"	"	"	"	"	"
Aug 22/23	5644	m. p. s.	21 <sup>h</sup> 05 <sup>m</sup>	-19° 10'	Good	2	H. G. G. G.
"	5645	"	"	"	"	"	"
"	5646	"	19 <sup>h</sup> 36 <sup>m</sup>	-26° 00'	"	"	"
25/26	5647	"	"	"	Good	3+	"
"	5648	"	"	"	"	"	"
"	5649	"	"	"	"	"	"
"	5650	"	21 <sup>h</sup> 05 <sup>m</sup>	-19° 10'	"	"	"
"	5651	"	"	"	"	"	"
26/27	5652	"	20 <sup>h</sup> 44 <sup>m</sup>	-19° 45'	Good	3+	"
"	5653	"	"	"	"	"	"
29/30	5654	1960 AD	19 <sup>h</sup> 36 <sup>m</sup>	-25° 30'	Good	3	"
"	5655	m. p. reg	20 44	-19 40	"	"	"
"	5656	"	21 05	"	"	"	"
Sept 1/2	5657	"	20 44	-19 40	Good	1	"
"	5658	"	"	"	"	"	"
"	5659	"	21 <sup>h</sup> 04	"	"	"	"
"	5660	"	"	"	"	"	"
"	5661	G 276	00 <sup>h</sup> 12 <sup>m</sup>	+9° 30'	"	"	"
"	5662	& Ash-jac	00 34	+1° 00'	"	"	"

1978 Date	PR#	Obj	RA	Dec	Trans	Stead	Observer
Sept 2/3	5663	1978 J	20 <sup>h</sup> 53	-38 <sup>o</sup> 20	Good	3	H. G. G.
"	5664	"	"	"	"	"	"
"	5665	6275	00 <sup>h</sup> 12 <sup>m</sup>	-9 <sup>o</sup> 40'	"	"	"
"	5666	"	"	"	"	"	"
Sept 3/4	5667	1978 J	20 <sup>h</sup> 53	-31 <sup>o</sup> 00	Good	"	"
Sept 7/8	5668	21 <sup>h</sup> 04 <sup>m</sup>	-19 40		Good	3	"
"	5669	1978 J	21 03	-33 00	"	"	"
"	5670	m p.	21 04	-29 40	"	"	"
"	5671	Serp	00 20	-6 50	"	"	"
"	5672	"	"	"	"	"	"
"	5673	Ash-juk	00 29	+1 <sup>o</sup> 20'	"	"	"
"	5674	"	"	"	"	"	"
Sept 9/10	5675	Serp	00 01.6	-10 40	Good	3	"
"	5676	"	"	"	"	"	"
Sept 10/11	5677	Helix Obj	23 <sup>h</sup> 14 <sup>m</sup>	+3 <sup>o</sup> 00	Good	3	"
"	5678	"	"	"	"	"	"
"	5679	Serp	00 <sup>h</sup> 01.6	-10 40	"	"	"
Sept 11/12	5680	Helix	23 <sup>h</sup> 08	-10 30	Good	4	"
"	5681	"	"	"	"	"	"
"	5682	Serp	00 08	-9 30	"	"	"
"	5683	"	"	"	"	"	"
Sept 19/20	5684	mp 511	21 53	-27 30	Good	3	"
"	5685	"	"	"	"	"	"
"	5686	"	"	"	"	"	"
"	5687	1978 RA	22 30	-14 20	"	"	"
"	5688	"	"	"	"	"	"
Sept 22/23	5689	"	22 <sup>h</sup> 19	-17 <sup>o</sup> 40	Good	2	"
"	5690	"	"	"	"	"	"
"	5691	1978 K	00 05	-11 <sup>o</sup> 48	"	"	"
"	5692	"	"	"	"	"	"
"	5693	1978 J	22 00	-41 31	"	"	"
"	5694	"	22 00	"	"	"	"
Sept 26/27	5695	1978 J	21 <sup>h</sup> 31	-43 <sup>o</sup>	Good	3	"
"	5696	Helix Obj	22 02	-22 31	"	"	"
"	5697	"	"	"	"	"	"
"	5698	1978 K	00 <sup>h</sup> 04 <sup>m</sup>	-12 <sup>o</sup> 22	"	"	"
Sept 29/30	5699	Helix	21 19	-25 30	Good	3	"
"	5700	"	"	"	"	"	"
"	5701	1978 J	22 49	-44 <sup>o</sup>	"	"	"
"	5702	1978 K	00 03	-13 <sup>o</sup> 00	"	"	"

DATE 1978	PE#	Obj.	RA	Dec	Trans	Stead	Observer
Sept 29/30	5703	Ash-Saded	00 <sup>h</sup> 13	+2°30'	Good	3+	H. Gikas
Oct 1/2	5704	#1978 L	6 <sup>h</sup> 14 <sup>m</sup>	-35°30'	"	1+	"
"	5705	"	"	"	"	1+	"
Oct 2/3	5706	"	6 <sup>h</sup> 10 <sup>m</sup>	-38°30'	Good	3	"
"	5707	"	"	"	"	"	"
Oct 3/4	5708	G158 GC283 Cetus	0 12.3	-9 51	"	3+	N. Thomas
"	5709	"	"	"	"	"	"
Oct 4/5	5710	#1978 L	6 <sup>h</sup> 08	-40°22'	Good	3-	H. Gikas
Oct 6/7	5711	#1978 K	00 01	-14 00	Good	4	"
"	5712	"	"	"	"	"	"
"	5713	"	"	"	"	"	"
"	5714	"	"	"	"	"	"
Oct 9/10	5715	# " "	00 00	-13°30'	Good	3+	"
"	5716	Helix Obj	00 32	+41°30'	"	"	"
"	5717	m.p. #18	6 <sup>h</sup> 36 <sup>m</sup>	+8°24'	"	"	"
"	5718	"	"	"	"	"	"
"	5719	"	"	"	"	"	"
"	5720	#1978 M	10 <sup>h</sup> 25 <sup>m</sup>	+5°25'	"	"	"
Oct 12/13	5721	"	10 <sup>h</sup> 20 <sup>m</sup>	+7 30	Good	3	"
"	5722	#1978 O	11 01	-19 09	"	"	"
Oct 27/28	5723	#1978 K	00 01.5	-15°10'	Good	3	"
"	5724	Lampard	2 <sup>h</sup> 08.5	+7°20'	"	4	"
"	5725	"	"	"	"	4	"
"	5726	#1978 J	2 <sup>h</sup> 12.9	-30°	"	4	"
Nov 3/4	5727	m.p. Melpomene	6 <sup>h</sup> 39.6	+7 27	Good	2	"
"	5728	"	"	"	"	"	"
"	5729	"	"	"	"	"	"
"	5730	#1978 J	10 <sup>h</sup> 17 <sup>m</sup>	+19°30'	"	"	"
Nov 5/6	5731	mp Lampard	2 <sup>h</sup> 00 <sup>m</sup>	+7 25	Good	3	"
"	5732	"	"	"	"	"	"
Nov 8/9	5733	mp Millis	6 <sup>h</sup> 43	+7 13	Good	3	" & Millis
"	5734	"	"	"	"	"	"
Nov. 16/17	5735	"	2 <sup>h</sup> 54 <sup>m</sup>	-26°43'	"	"	" & "
Nov 18/19	5736	Davidson	21 <sup>h</sup> 54 <sup>m</sup>	-26°43'	"	3	Millis
"	5737	"	"	"	"	"	"
"	5738	"	"	"	"	"	"
Nov 19/20	5739	#1978 K	00 <sup>h</sup> 17 <sup>m</sup>	-12°30'	Good	4	H. Gikas
"	5740	mp Lampard	1 <sup>h</sup> 46 <sup>m</sup>	+7°30'	"	"	"
"	5741	"	"	"	"	"	"
Nov 27/28	5742	Melpomene	6 <sup>h</sup> 40 <sup>m</sup>	+6°46'	"	3	RL Millis



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Nov 27/28	5743	Meltemene	6 <sup>h</sup> 46 <sup>m</sup>	+6°46'	Good	3	R.L. Mullis
Nov 28/29	5744	1978K	0 <sup>h</sup> 29 <sup>m</sup>	-11°04'	Good	2	H. Giclas
"	5745	Meltemene	6 <sup>h</sup> 40 <sup>m</sup>	+6°46'	"	3	R.L. Mullis
"	5746	"	"	"	"	"	" / O.G. Franzy
Nov 29/30	5747	"	"	"	"	"	"
"	5748	"	"	"	"	"	"
Nov 30/Dec 1	5749	"	"	"	Poor	"	"
"	5750	"	"	"	"	"	"
Dec 2/3	5751	"	"	"	Good	3	"
"	5752	"	"	"	"	"	"
Dec 3/4	5753	"	"	"	"	"	"
"	5754	"	"	"	"	"	"
Dec 4/5	5755	mp1741	6 <sup>h</sup> 48 <sup>m</sup>	+21°40'	Good	3	H. Giclas
"	5756	"	"	"	"	"	"
Dec 7/8	5757	Meltemene	6 <sup>h</sup> 40 <sup>m</sup>	+6°46'	"	"	R.L. Mullis / O.G. Franzy
"	5758	"	"	"	"	"	"
Dec 7/8	5759	"	"	"	"	"	"
"	5760	"	"	"	"	"	"
Dec 23/24	5761	G77	3 <sup>h</sup> 10 <sup>m</sup>	-00°24'	Good	2	H. Giclas
"	5762	mp1741	6 <sup>h</sup> 30 <sup>m</sup>	+26°10'	"	3	"
"	5763	"	"	"	"	"	"
Dec 26/27	5764	1968K	1 <sup>h</sup> 08 <sup>m</sup>	-5°06'	Good	3	"
"	5765	"	"	"	"	"	"
"	5766	mp1741	6 <sup>h</sup> 30 <sup>m</sup>	+26°20'	"	"	"
Dec 31/Jan 1	5767	"	00 <sup>h</sup> 45 <sup>m</sup>	-6°15'	Good	2	"
"	5768	"	1 04	-7°00'	"	"	"
"	5769	"	1 22	-6°10'	"	"	"
Jan 23/24	5770	1978K	2 <sup>h</sup> 00 <sup>m</sup>	+1°00'	Good	4	"
"	5771	1741mp	6 <sup>h</sup> 08 <sup>m</sup>	+26°21'	"	"	"
"	5772	"	"	"	"	"	"
Jan 27/28	5773	Ceres Obs	1 <sup>h</sup> 21 <sup>m</sup>	-4°20'	"	"	R.L. Mullis
Feb 06/7	5774	Summit	2 <sup>h</sup> 36 <sup>m</sup>	+13°35'	"	"	"
Feb 6/7	5775	"	12 <sup>h</sup> 42 <sup>m</sup>	+12°21'	Good	2	H. Giclas
Feb 18/19	5776	RV Lyra	6 <sup>h</sup> 53 <sup>m</sup>	+5°10'	Good	3	"
"	5777	"	"	"	"	"	"
"	5778	"	"	"	"	"	"
Feb 25/26	5779	"	"	"	Fair	3	"
"	5780	"	"	"	Fair	"	"

1979 DATE	Plate No	Object	RA	Dec	Trans	Stab	Observer
Feb 25/26	5781	RV Lyndis	6 <sup>h</sup> 54 <sup>m</sup>	+51 <sup>o</sup> 00	Good	3	H Gicles
"	5782	"	"	"	Poor	"	"
"	5783	"	"	"	Fair	"	"
"	5784	"	"	"	Poor	"	"
Feb 27/28	5785	1978K	3 <sup>h</sup> 12 <sup>m</sup>	+10 <sup>o</sup> 0	Good	3+	"
"	5786	mp nq	8 <sup>h</sup> 44	+28 <sup>o</sup> 12	"	4	"
"	5787	"	"	"	"	"	"
"	5788	"	9 <sup>h</sup> 06 <sup>m</sup>	+26 <sup>o</sup> 45	"	"	"
"	5789	"	8 "	"	"	"	"
"	5790	1979AB	10 <sup>h</sup> 22 <sup>m</sup>	+33 <sup>o</sup> 12'	"	"	"
"	5791	GC15908	11 <sup>h</sup> 33.9	+25 <sup>o</sup> 18'	Good	4	N. Thomas 1978VF
"	5792	"	"	"	"	4	" "
Mar 3/4	5793	mp 609	8 <sup>h</sup> 49 <sup>m</sup>	+17 <sup>o</sup> 40	Good	4	H Gicles
"	5794	"	"	"	"	"	"
"	5795	mp ps	9 06	+26 40	"	"	"
"	5796	1979BA	10 10	+37 35	"	"	"
"	5797	<sup>500</sup> 81833	11 24.5	+25 <sup>o</sup> 18	Good	3	N. Thomas
"	5798	"	"	"	"	"	"
Mar 22/23	5799	<sup>500</sup> 81720	11 10.4	+27 <sup>o</sup> 19	"	2-3	" 3 500 " cloud return
"	5800	"	"	"	fair	3	"
Mar 23/24	5801	Fulva	7 <sup>h</sup> 49	+18 22	Fair	3	H Gicles
"	112	"	"	"	"	"	"
"	5803	#JTB	11 <sup>h</sup> 45 <sup>m</sup>	-8 <sup>o</sup> 40'	Good	"	"
"	5804	"	"	"	"	"	"
Nov 24/25	5805	AGK3 D1022	7 <sup>h</sup> 45 <sup>m</sup>	+0 <sup>o</sup> 36'	"	"	R. L. Millis
"	5806	"	"	"	"	"	"
"	5807	"	"	"	"	"	"
Mar 26/27	5808	mp 609	7 <sup>h</sup> 50 <sup>m</sup>	+17 <sup>o</sup> 40	Fair	3	H Gicles
"	5809	"	"	"	Fair	3	"
"	5810	#JTB	11 <sup>h</sup> 45 <sup>m</sup>	-8 40	Poor	"	"
Mar 31/1	5811	<sup>500</sup> 81755	11 <sup>h</sup> 15.0	+25 <sup>o</sup> 44	Good	3-4	N. Thomas
"	5812	<sup>500</sup> 81542	10 47.3	+28 14	"	3	"
"	5813	#JTB	11 <sup>h</sup> 35	-10 <sup>o</sup> 00	"	"	H Gicles
"	5814	"	"	"	"	"	"
Apr 14/15	5815	A1 JTB	11 <sup>h</sup> 22 <sup>m</sup>	-8 <sup>o</sup> 10'	Good	3	"
"	5816	"	"	"	"	"	"
Apr 18/19	5817	"	"	"	Good	2	"
Apr 27/28	5818	1068 <sup>xx</sup>	13 <sup>h</sup> 25 <sup>m</sup>	-18 30	Good	2	"
"	5819	"	"	"	"	"	"

1979 DATE	PLATE NO.	Guide Object	R.A.	Decl	Trans	Stead.	Observer; Remarks
May 1/2	5820	5A081704	11 07.8	+26 47	Fair	2	N. Thomas (1979 DE)
"	5821	"	"	"	"	2	" "
May 21/22	5822	mp	13 <sup>h</sup> 09	-17 35	Good	3	H. Gielas Ted Bowell
"	113	"	"	"	"	"	" "
"	5824	mp	15 01	+6 00	"	"	" "
"	5825	"	"	"	"	"	" "
"	5826	Arctis	18 09	-23 02	"	"	" "
"	5827	"	"	"	"	"	" "
June 1/2	5828	"	18 02	-23 40	Good	3	H. Gielas
"	5829	"	"	"	"	3	"
"	5830	"	18 09	-23 02	Poor	3	"
June 15/16	5831	♀ A	9 11	+15 00	Good	2	"
"	5832	"	"	"	"	"	"
June 16/17	5833	Arctis	17 <sup>h</sup> 48	-24 50	Good	2	"
"	5834	"	"	"	"	"	"
"	5835	Hel	17 48	-37 38	"	"	"
"	5836	"	"	"	"	"	"
"	5837	Hel	18 <sup>h</sup> 03	-8 32	"	"	"
"	5838	"	"	"	"	"	"
June 24/25	5839	Regulus	10 <sup>h</sup> 45 <sup>m</sup>	+12 13	Good	3	"
"	5840	"	"	"	"	"	"
June 25/26	5841	"	"	"	Good	2	"
June 27/28	5842	mp	20 <sup>h</sup> 00	-5 00	Good	4	E. Bowell
"	5843	mp	20 <sup>h</sup> 25	-5 00	"	"	"
"	5844	mp	20 <sup>h</sup> 00	-5 00	"	"	"
"	5845	mp	20 <sup>h</sup> 25	-5 00	"	"	"
"	5846	Landscape field	22 <sup>h</sup> 40	0°	"	"	"
"	5847	Ceres	1 <sup>h</sup> 17	-4 0.8	"	"	"
Jul 01/02	5848	Purgatholer field	18 <sup>h</sup> 57	+4 0.8	Fair	2	E. Bowell
"	5849	m.p.	19 <sup>h</sup> 54	-7 0.5	"	"	"
"	5850	Purgatholer	18 <sup>h</sup> 57	+4 0.8	"	"	"
"	5851	m.p.	19 <sup>h</sup> 54	-7 0.5	"	"	"
July 2/3	5852	197	17 <sup>h</sup> 34	-25 40	Good	3	H. L. Gielas
"	3852	"	"	"	"	"	"
"	54	mp	20 <sup>h</sup> 00	-00 05	"	3	"
"	5855	"	"	"	"	"	"
July 14/15	5856	mp 407	16 <sup>h</sup> 48	-27 42	Good	3	"
"	5857	"	"	"	"	"	"
"	5858	Arctis	17 24	-26 10	"	"	"
"	5859	"	"	"	"	"	"

1979 Date	Plate No.	Region - Obj	RA	Dec	Trans.	Steel	Observer
July 14/15	5860	mp 1105	20 <sup>h</sup> 41	-19.40	Fair	3	H. Gielas
"	5861	"	"	"	"	"	"
July 21/22	5862	mp	19 <sup>h</sup> 22	-7.0	Good	3	E. BOWELL
"	5863	mp	19 <sup>h</sup> 48	-6.7	"	"	"
"	5864	mp	19 <sup>h</sup> 22	-7.0	"	"	"
"	5865	mp	19 <sup>h</sup> 48	-6.7	"	"	"
July 22/23	5866	mp	19 <sup>h</sup> 20	-7.2	Good	3	E. BOWELL
"	5867	mp	19 <sup>h</sup> 45	-7.2	"	"	"
"	5868	mp	19 <sup>h</sup> 20	-7.2	"	"	"
"	5869	mp	19 <sup>h</sup> 45	-7.2	"	"	"
"	5870	mp	21 <sup>h</sup> 36	-0.2	"	"	"
"	5871	mp	21 <sup>h</sup> 29	+4.0	"	"	"
"	5872	mp	21 <sup>h</sup> 36	-0.2	"	"	"
"	5873	mp	21 <sup>h</sup> 29	+4.0	"	"	"
July 23/24	5874	mp	21 <sup>h</sup> 31	-1.7	Good	3	E. BOWELL
"	5875	mp	22 <sup>h</sup> 31	+10.4	"	"	"
"	5876	mp	21 <sup>h</sup> 31	-1.7	"	"	"
"	5877	mp	22 <sup>h</sup> 31	+10.4	"	"	"
July 24/25	5878	mp 949	17 <sup>h</sup> 20	-34.0	Good	3	H. Gielas
"	5879	"	"	"	"	"	"
"	5880	197 Arel 0	17 <sup>h</sup> 25	-26.0	"	"	"
"	5881	"	"	"	"	"	"
"	5882	B6	21 <sup>h</sup> 31	-1.5	"	"	E. BOWELL
"	5883	mp	22 <sup>h</sup> 30	+2.7	"	"	"
"	5884	B6	21 <sup>h</sup> 31	-1.5	"	"	"
"	5885	mp	22 <sup>h</sup> 30	+2.7	"	4	"
"	5886	B6	21 <sup>h</sup> 31	-1.5	"	"	"
"	5887	Ceres	1 <sup>h</sup> 24	-3.8	"	"	"
July 29/30	5888	B3, 2145	19 <sup>h</sup> 24	-8.9	Good	2	E. BOWELL
"	5889	B1, B2	19 <sup>h</sup> 45	-8.0	"	3	"
"	5890	666, B5, B6	21 <sup>h</sup> 35	+1.3	"	"	"
"	5891	666, B5, B6	21 <sup>h</sup> 35	+1.3	"	"	"
"	5892	B4	22 <sup>h</sup> 30	+2.7	"	2	"
"	5893	B4	22 <sup>h</sup> 30	+2.7	"	"	"
July 31/Aug 1	5894	B4 = 197908	22 <sup>h</sup> 30	+2.7	"	3	E. BOWELL
Aug 22/23	5895	1886 Lowell	19 <sup>h</sup> 56	-57.2	Good	3	H. Gielas
"	5896	"	"	"	"	"	"
"	5897	#710	20 24	-19.00	"	"	"
"	5898	"	"	"	"	"	"
Aug 26/27	5899	B1, B3	19 <sup>h</sup> 18	-10.3	Good	3	E. BOWELL

1971 DATE	PLATE NO.	GUIDE OBJECT	RA	Dec	Trans	Stand	Observer	Remarks
Aug 26/27	5900	B2	19 <sup>h</sup> 41 <sup>m</sup>	+15.3	Good	B	E. Bowell	
"	5901	B1, B3	19 <sup>h</sup> 18 <sup>m</sup>	-10.3	"	"	"	
"	5902	B2	19 <sup>h</sup> 41 <sup>m</sup>	+15.3	"	"	"	
"	5903	B6	20 <sup>h</sup> 53 <sup>m</sup>	+7.6	"	"	"	
"	5904	B5	21 <sup>h</sup> 13 <sup>m</sup>	-2.3	"	"	"	
"	5905	B6	20 <sup>h</sup> 58 <sup>m</sup>	+7.6	"	"	"	
"	5906	B5	21 <sup>h</sup> 13 <sup>m</sup>	-2.3	"	"	"	
"	5907	B4	22 <sup>h</sup> 29 <sup>m</sup>	-2.8	"	"	"	
"	5908	asteroid search	0 <sup>h</sup> 30 <sup>m</sup>	-10.0	"	"	"	
"	5909	B4	22 <sup>h</sup> 29 <sup>m</sup>	-2.8	"	"	"	
"	5910	search	0 <sup>h</sup> 30 <sup>m</sup>	-10.0	"	"	"	
Sept 17/18	5911	1979QB	22 <sup>h</sup> 04 <sup>m</sup>	-8° 34'	Good	3	H. Giclas	
"	5912	"	"	"	"	"	"	
"	5913	mp pag	23 <sup>h</sup> 25 <sup>m</sup>	+6° 34'	"	"	"	
"	5914	"	"	"	"	"	"	
Sept 18/19	5915	1979QB	22 <sup>h</sup> 04 <sup>m</sup>	-8° 34'	Good	4	"	
"	5916	OPisc	23 26	+6 28	"	"	"	
"	5917	"	"	"	"	"	"	
Sept 19/20	5918	♄ New	13 <sup>h</sup> 32 <sup>m</sup>	+68°	Good	3	"	
"	5919	"	"	"	"	"	"	
"	5920	OPisc	23 26	+6 28	"	"	"	
Sept 21/22	5921	1979 I	13 <sup>h</sup> 30 <sup>m</sup>	+68°	Good	3	"	
"	5922	"	12.59	+60 22	Good	3	"	
Oct 14/15	5923	"	"	"	Good	3	"	
"	5924	"	"	"	"	"	"	
"	5925	mp pag	22 <sup>h</sup> 49 <sup>m</sup>	+3° 32'	Good	2	"	
"	5926	"	"	"	"	"	"	
Oct 16/17	5927	1979MB	19 <sup>h</sup> 37 <sup>m</sup>	-14.9	"	3	E. Bowell	
"	5928	"	"	"	"	"	"	
"	5929	"	22 50	+3 32	"	3	H. Giclas	
"	5930	1979OC	21 <sup>h</sup> 07 <sup>m</sup>	-4.4	"	"	E. Bowell	
"	5931	"	"	"	"	"	"	
"	5932	1979OB, 1542	22 <sup>h</sup> 34 <sup>m</sup>	-7.7	"	"	"	
"	5933	"	"	"	"	"	"	
"	5934	11, 382, 1200	23 <sup>h</sup> 11 <sup>m</sup>	0.0	"	"	"	
"	5935	"	"	"	"	"	"	
"	5936	1831	1 <sup>h</sup> 13 <sup>m</sup>	-0.9	"	"	"	
"	5937	486, 1914	3 <sup>h</sup> 25 <sup>m</sup>	+7.9	"	"	"	
"	5938	1831	1 <sup>h</sup> 13 <sup>m</sup>	-0.9	"	"	"	
"	5939	612	4 <sup>h</sup> 07 <sup>m</sup>	+3.4	"	"	"	

1979 DATE	PLATE NO.	GUIDE OBJECT	RA	Dec	Trans	stead	Observer	Remarks
Oct 16/17	5940	486, 1914	3 <sup>h</sup> 25	+7° 9	Good	3	E. Bowell	Cloud in
"	5941	612	4 <sup>h</sup> 07	+3° 4	"	"	"	South at end.
Oct 21/22	5942	imp neg.	22 50	+3 32	Good	3	H. Giclas	
"	5943	"	"	"	"	"	"	
Oct 27/28	5944	612	4 <sup>h</sup> 00 <sup>m</sup>	+4° 0	Good	4	E. Bowell	
"	5945	B7, B8, B9	3 <sup>h</sup> 17 <sup>m</sup>	+8° 8	"	"	"	
"	5946	"	"	"	"	"	"	
"	5947	612	4 <sup>h</sup> 00 <sup>m</sup>	+4° 0	"	"	"	Almost perfect
Oct 28/29	5948	B10, B11	0 <sup>h</sup> 58 <sup>m</sup>	-0° 1	Good	4	E. Bowell.	
"	5949	"	"	"	"	"	"	
Nov 15/16	5950	1979 VA	1 <sup>h</sup> 38	+25° 08	Good	3	H. Giclas	
"	5951	"	"	"	"	"	"	
"	5952	"	"	"	"	"	"	
Nov 16/17	5953	"	1 <sup>h</sup> 46 <sup>m</sup>	+25°	Good	3	"	
"	5954	"	"	"	"	"	"	
"	5955	612 Veronika	3 <sup>h</sup> 42 <sup>m</sup>	+3° 16	"	4	"	
"	5956	"	"	"	"	"	"	
Nov 21/22	5957	B10, B11, B14	0 <sup>h</sup> 46 <sup>m</sup>	+1° 3	Good	2	E. Bowell	
"	5958	1979 VA	2 <sup>h</sup> 14 <sup>m</sup>	+23° 9	"	"	"	
"	5959	"	"	"	"	"	"	
"	5960	B10, B11, B14	0 <sup>h</sup> 46 <sup>m</sup>	+1° 3	"	"	"	
"	5961	B7, B8, B9	2 <sup>h</sup> 50 <sup>m</sup>	+9° 9	"	"	"	
"	5962	"	"	"	"	"	"	
"	5963	B12, B13	3 <sup>h</sup> 41 <sup>m</sup>	+2° 7	"	"	"	
"	5964	Hyades	4 <sup>h</sup> 27 <sup>m</sup>	+16° 2	"	"	E. Bowell + O. Franz	
"	5965	B12, B13	3 <sup>h</sup> 41 <sup>m</sup>	+2° 7	"	"	E. Bowell	
Dec 6/7	5966	" 1482	0 <sup>h</sup> 08 <sup>m</sup>	+2° 3	Good	4	E. Bowell	
"	5967	B11	1 <sup>h</sup> 01 <sup>m</sup>	-1° 3	"	"	"	
"	5968	35501, 2009	2 <sup>h</sup> 18 <sup>m</sup>	+11° 8	"	"	"	
"	5969	B7, B8, B9	2 <sup>h</sup> 42 <sup>m</sup>	+10° 2	"	"	"	
"	5970	77E2	3 <sup>h</sup> 02 <sup>m</sup>	+39° 0	"	"	"	
"	5971	79VA	3 <sup>h</sup> 07 <sup>m</sup>	+21° 9	"	"	"	
"	5972	77E2	3 <sup>h</sup> 02 <sup>m</sup>	+39° 0	"	"	"	
Dec 07/8	5973	B11	1 <sup>h</sup> 02 <sup>m</sup>	+0° 7	Good	3	E. Bowell	
"	5974	B12, B13, 612	3 <sup>h</sup> 32 <sup>m</sup>	+1° 4	"	"	"	
Dec 13/14	5975	Bus object	2 <sup>h</sup> 26 <sup>m</sup>	+13° 9	Good	4	E. Bowell	
"	5976	"	2 <sup>h</sup> 26 <sup>m</sup>	+13° 9	"	"	"	
"	5977	1122	7 <sup>h</sup> 45 <sup>m</sup>	+26° 3	"	"	"	
"	5978	873	8 <sup>h</sup> 52 <sup>m</sup>	+14° 2	"	"	"	
"	5979	1122	7 <sup>h</sup> 45 <sup>m</sup>	+26° 3	"	"	"	

1979 DATE	PLATE #	GUIDE OBJECT	RA	DEC	TRANS	STEAD	OBSERVER	REMARKS
DEC 13/14	5980	873	8 <sup>h</sup> 52 <sup>m</sup>	+14° 2'	Good	4	E. Bowell	
DEC 14/15	5981	79XA	2 <sup>h</sup> 28	+14° 0'	Good	3	E. Bowell	
"	5982	79VA	3 <sup>h</sup> 19	+21 2'	"	3	"	
Dec 15/16	5983	79XA	2 28	+14 02	Good	3	H. Gickas	
"	5984	79XA	"	"	"	"	"	
"	5985	79VA	3 <sup>h</sup> 20	+25°	"	"	"	
"	5986	"	"	"	"	"	"	
"	5987	873	8 <sup>h</sup> 52	+14° 2'	Good	3	E. Bowell	
"	5988	"	"	"	"	"	"	
Dec 16/17	5989	79XA	2 <sup>h</sup> 14 <sup>m</sup>	+13° 03'	Good	3	H. Gickas	
"	5990	"	"	"	"	"	"	
"	5991	"	"	"	"	"	"	
"	5992	79VA	3 <sup>h</sup> 24	+21° 05'	"	"	"	
"	5993	"	"	"	"	"	"	
Dec 17/18	5994	79XA	2 <sup>h</sup> 09	+12 38'	Good	3	"	
"	5995	"	"	"	"	"	"	
"	5996	79VA	3 22	+21 20	"	"	"	
Dec 18/19	5997	79XA	2 <sup>h</sup> 04	+12 15'	Good	3+	"	
"	5998	"	"	"	"	"	"	
"	5999	79VA	3 27	+21 15'	"	"	"	
Dec 19/20	6000	79XA	1 <sup>h</sup> 58 <sup>m</sup>	+12° 3'	"	4	E. Bowell	
1980			1980				1980	
Jan 4/5	6001	79XA	00 <sup>h</sup> 11 <sup>m</sup>	+3 20'	Poor Fair	2	H. Gickas	
"	6002	"	"	"	"	"	"	
Jan 15/16	6003	"	22 <sup>h</sup> 40 <sup>m</sup>	-3° 40'	Fair+	2	"	
"	6004	80AA	"	"	"	"	"	divide in motion
"	6005	"	17 <sup>h</sup> 19 <sup>m</sup>	+27 45'	"	"	"	"
Jan 21/22	6006	79UJ	3 <sup>h</sup> 14 <sup>m</sup>	+2° 3'	Good	2	E. Bowell	
"	6007	"	"	"	"	"	"	
"	6008	15XY	5 <sup>h</sup> 55 <sup>m</sup>	+15° 4'	"	"	"	
"	6009	"	"	"	"	"	"	
"	6010	80AA	8 <sup>h</sup> 00 <sup>m</sup>	+18° 0'	"	"	"	
"	6011	"	"	"	"	"	"	
"	6012	873, etc.	8 <sup>h</sup> 30 <sup>m</sup>	+17° 1'	"	"	"	
"	6013	"	"	"	"	"	"	
"	6014	1904	9 <sup>h</sup> 41 <sup>m</sup>	+23° 1'	"	"	"	
"	6015	77QV	10 <sup>h</sup> 37 <sup>m</sup>	+28° 9'	"	"	"	
"	6016	1904	9 <sup>h</sup> 41 <sup>m</sup>	+23° 1'	"	"	"	
"	6017	77QV	10 <sup>h</sup> 37 <sup>m</sup>	+28° 9'	"	"	"	

1930 DATE	PLATE #	GUIDE OBJECT	RA	DEC	TRANS.	STEAD.	OBSERVER	REMARKS
FEB 10/11	6018	Ceres field #1	7 <sup>h</sup> 06 <sup>m</sup>	+23 <sup>o</sup> 8	GOOD	4	E. Bowell	
"	6019	" #2	7 <sup>h</sup> 12 <sup>m</sup>	+31 <sup>o</sup> .9	"	"	"	
"	6020	" #3	7 <sup>h</sup> 30 <sup>m</sup>	+23 <sup>o</sup> .1	"	"	"	
"	6021	" #4	7 <sup>h</sup> 34 <sup>m</sup>	+30 <sup>o</sup> .0	"	"	"	
"	6022	" #5	7 <sup>h</sup> 55 <sup>m</sup>	+27 <sup>o</sup> .7	"	"	"	
"	6023	873, etc.	8 <sup>h</sup> 09 <sup>m</sup>	+17 <sup>o</sup> .9	"	"	"	
"	6024	873, etc.	8 <sup>h</sup> 05 <sup>m</sup>	+17 <sup>o</sup> .9	"	"	"	
"	6025	Vesta field #1	10 <sup>h</sup> 05 <sup>m</sup>	+17 <sup>o</sup> .0	"	"	"	
"	6026	" #2	10 <sup>h</sup> 12 <sup>m</sup>	+21 <sup>o</sup> .4	"	"	"	
"	6027	" #3	10 <sup>h</sup> 31 <sup>m</sup>	+15 <sup>o</sup> .3	"	"	"	
"	6028	" #4	10 <sup>h</sup> 55 <sup>m</sup>	+14 <sup>o</sup> .8	"	"	"	
"	6029	1778	10 <sup>h</sup> 45 <sup>m</sup>	+9 <sup>o</sup> .5	"	"	"	
"	6030	"	10 <sup>h</sup> 45 <sup>m</sup>	+9 <sup>o</sup> .5	"	"	"	Beautiful night
MAR 04/5	6031	873, etc	7 <sup>h</sup> 58 <sup>m</sup>	+20 <sup>o</sup> .0	Good	2	E. Bowell	
"	6032	"	"	"	"	"	"	
MAR 12/13	6033	79XE	8 <sup>h</sup> 10 <sup>m</sup>	+23 <sup>o</sup> .5	Good	3	E. Bowell	
"	6034	1778, etc.	10 <sup>h</sup> 31 <sup>m</sup>	+12 <sup>o</sup> .6	"	"	"	
"	6035	1975BU	12 <sup>h</sup> 35 <sup>m</sup>	+19 <sup>o</sup> .2	"	"	"	
"	6036	1778, etc.	10 <sup>h</sup> 31 <sup>m</sup>	+12 <sup>o</sup> .6	"	"	"	
"	6037	1975BU	12 <sup>h</sup> 35 <sup>m</sup>	+19 <sup>o</sup> .2	"	"	"	
MAR 13/14	6038	1778, etc.	10 <sup>h</sup> 19 <sup>m</sup>	+12 <sup>o</sup> .6	Good	4	E. Bowell	
"	6039	"	"	"	"	"	"	
"	6040	1975WMI	14 <sup>h</sup> 52 <sup>m</sup>	+1 <sup>o</sup> .3	"	5	E. Bowell	
"	6041	"	"	"	"	"	"	Best seeing "ever"
Mar 14/15	6042	RV Lyncis	6 <sup>h</sup> 44 <sup>m</sup>	+51 <sup>o</sup> 08	Good	4	H. Giclas	
"	6043	"	"	"	"	"	"	
"	6044	"	"	"	"	"	"	
"	6045	"	"	"	"	"	"	
MAR 15/16	6046	1778, etc	10 <sup>h</sup> 09 <sup>m</sup>	+13 <sup>o</sup> .6	Good	4	E. Bowell	
"	6047	"	10 <sup>h</sup> 21 <sup>m</sup>	+13 <sup>o</sup> .2	"	"	"	
"	6048	"	"	"	"	"	"	
MAR 20/21	6049	1980b, etc	10 <sup>h</sup> 17 <sup>m</sup> .4	+13 <sup>o</sup> .7	Good	4	E. Bowell	
"	6050	"	"	"	"	"	"	
April 9/10	6051	1741 imp.	12 <sup>h</sup> 12 <sup>m</sup>	+1 <sup>o</sup> 58'	Good	3	H. Giclas	
"	6052	"	"	"	"	4	"	
"	6053	imp	13 <sup>h</sup> 54 <sup>m</sup>	+5 <sup>o</sup> 36'	"	"	"	
"	6054	"	"	"	"	"	"	
APR 13/14	6055	1980b, etc	10 <sup>h</sup> 09 <sup>m</sup>	+13 <sup>o</sup> .6	Good	4	E. Bowell	
"	6056	"	"	"	"	"	"	
"	6057	Photo comp stars	13 <sup>h</sup> 53 <sup>m</sup>	+7 <sup>o</sup> .8	Good	4	"	



1980 DATE	PLATE #	GUIDE OBJECT	RA.	DEC.	TRANS.	STEAD.	OBSERVER.	REMARKS
APR 13/14	6058	B30	14 <sup>h</sup> 47 <sup>m</sup>	+4 <sup>o</sup> .2	GOOD	4	E. Bowell.	
"	6059	"	"	"	"	"	"	
APR 14/15	6060	B30	14 <sup>h</sup> 40 <sup>m</sup> .3	+4 <sup>o</sup> .8	GOOD	4	E. Bowell	
"	6061	"	"	"	"	"	"	
APR 15/16	6062	B33	14 <sup>h</sup> 40 <sup>m</sup> .5	+2 <sup>o</sup> .2	GOOD	4	E. Bowell	
"	6063	"	"	"	"	"	"	
Apr 17/18	6064	1741	12 <sup>h</sup> 08	+2 <sup>o</sup> 30'	Good	4	H. Gelas	
"	6065	"	"	"	"	"	"	
APR 18/19	6066	80GA	14 <sup>h</sup> 36 <sup>m</sup> .4	+2 <sup>o</sup> .7	Good	4	E. Bowell	
"	6067	80GA	"	"	"	"	"	
MAY 07/08	6068	1980b	10 <sup>h</sup> 13 <sup>m</sup> .9	+13 <sup>o</sup> .9	GOOD	3	E. Bowell	
"	6069	"	"	"	"	"	"	
"	6070	1980GA	14 <sup>h</sup> 03 <sup>m</sup> .3	+1 <sup>o</sup> .8	"	"	"	
"	6071	B39, etc	14 <sup>h</sup> 28 <sup>m</sup> .4	+3 <sup>o</sup> .8	"	"	"	Cloud at end
May 8/9	6072	1980C	5 <sup>h</sup> 20 <sup>m</sup>	+16 <sup>o</sup> 00'	Good	1-	H. Gelas	near horizon
"	6073	Wild	13 <sup>h</sup> 09 <sup>m</sup> .3	+11 <sup>o</sup> 30'	"	3+	"	
MAY 9/10	6074	1980d	13 <sup>h</sup> 10 <sup>m</sup> .5	+11 <sup>o</sup> .8	GOOD	2	E. Bowell	Very windy
"	6075	1980GA	14 <sup>h</sup> 04 <sup>m</sup> .0	+1 <sup>o</sup> .8	"	"	"	
"	6076	1980d	13 <sup>h</sup> 10 <sup>m</sup> .5	+11 <sup>o</sup> .8	"	"	"	
"	6077	B39, etc	14 <sup>h</sup> 26 <sup>m</sup> .6	+3 <sup>o</sup> .9	"	"	"	
"	6078	1980GA	14 <sup>h</sup> 04 <sup>m</sup> .0	+1 <sup>o</sup> .8	"	"	"	
"	6079	1950DS	16 <sup>h</sup> 53 <sup>m</sup> .0	-8 <sup>o</sup> .2	"	"	"	
"	6080	1980GE	14 <sup>h</sup> 26 <sup>m</sup> .6	+3 <sup>o</sup> .9	"	"	"	
"	6081	1950DS	16 <sup>h</sup> 53 <sup>m</sup> .0	-8 <sup>o</sup> .2	"	"	"	Still windy
JUN 10/11	6082	1980GC	14 <sup>h</sup> 14 <sup>m</sup> .9	+5 <sup>o</sup> .0	GOOD	4	E. Bowell	
"	6083	1980GA	13 <sup>h</sup> 41 <sup>m</sup> .4	-7 <sup>o</sup> .3	"	"	"	
"	6084	1980GC	14 <sup>h</sup> 14 <sup>m</sup> .9	+5 <sup>o</sup> .0	"	"	"	
"	6085	1980GA	13 <sup>h</sup> 41 <sup>m</sup> .4	-7 <sup>o</sup> .3	"	"	"	
"	6086	1977RA	18 <sup>h</sup> 01 <sup>m</sup> .0	-29 <sup>o</sup> .7	"	3	"	
"	6087	1977RA	18 <sup>h</sup> 01 <sup>m</sup> .0	-29 <sup>o</sup> .7	"	3	"	
"	6088	1977RF	18 <sup>h</sup> 42 <sup>m</sup> .9	-26 <sup>o</sup> .8	"	2	"	Windy
"	6089	1977RF	18 <sup>h</sup> 42 <sup>m</sup> .9	-26 <sup>o</sup> .8	"	2	"	
"	6090	460	20 <sup>h</sup> 28 <sup>m</sup> .0	-12 <sup>o</sup> .2	"	3	"	calmer
"	6091	1162	20 <sup>h</sup> 27 <sup>m</sup> .9	-20 <sup>o</sup> .2	"	"	"	
"	6092	460	20 <sup>h</sup> 28 <sup>m</sup> .0	-12 <sup>o</sup> .2	"	"	"	
"	6093	1162	20 <sup>h</sup> 27 <sup>m</sup> .9	-20 <sup>o</sup> .2	"	"	"	
JUN 13/14	6094	B32	20 <sup>h</sup> 20 <sup>m</sup> .2	-5 <sup>o</sup> .0	GOOD	3	E. Bowell	
"	6095	B38, B41	20 <sup>h</sup> 31 <sup>m</sup> .6	-23 <sup>o</sup> .1	"	"	"	
"	6096	B32	20 <sup>h</sup> 20 <sup>m</sup> .2	-5 <sup>o</sup> .0	"	"	"	
"	6097	B38, B41	20 <sup>h</sup> 31 <sup>m</sup> .6	-23 <sup>o</sup> .1	"	"	"	

1980 DATE	PLATE #	GUIDE OBJECT	R.A.	DEC.	TRANS.	STEAD.	OBSERVER	REMARKS
JUN 16/17	6098	20 <sup>h</sup> 19 <sup>m</sup> .5	-6°5	B43	GOOD	3	E. Bowell	Some Cirrus
..	6099	B41	20 <sup>h</sup> 29 <sup>m</sup> .1	-22°6	..	2	..	
..	6100	B43	20 <sup>h</sup> 19 <sup>m</sup> .5	-6°5	..	3	..	
..	6101	B41	20 <sup>h</sup> 29 <sup>m</sup> .1	-22°6	..	2	..	
JUN 17/18	6102	B43	20 <sup>h</sup> 20 <sup>m</sup> .0	-6°5	GOOD	4	E. Bowell	Good night
..	6103	B41	20 <sup>h</sup> 30 <sup>m</sup> .0	-24°7	..	2	..	
..	6104	B43	20 <sup>h</sup> 20 <sup>m</sup> .0	-6°5	..	3	..	
..	6105	B41	20 <sup>h</sup> 30 <sup>m</sup> .0	-24°7	..	3	..	
JUL 04/05	6106	B43	20 <sup>h</sup> 02 <sup>m</sup> .7	+2°6	GOOD	4	E. Bowell	
..	6107	B32	20 <sup>h</sup> 22 <sup>m</sup> .2	-8°7	..	3	..	
..	6108	B43	20 <sup>h</sup> 02 <sup>m</sup> .7	+2°6	..	4	..	
..	6109	B41	20 <sup>h</sup> 17 <sup>m</sup> .0	-25°2	..	3	..	
..	6110	B32	20 <sup>h</sup> 22 <sup>m</sup> .2	-8°7	..	4	..	
..	6111	B47	20 <sup>h</sup> 35 <sup>m</sup> .5	-31°2	..	3	..	
..	6112	B41	20 <sup>h</sup> 17 <sup>m</sup> .0	-25°2	..	4	..	
..	6113	B47	20 <sup>h</sup> 35 <sup>m</sup> .5	-31°2	..	3	..	Good night
JUL 13/14	6114	B43	19 <sup>h</sup> 55 <sup>m</sup> .3	+4°6	GOOD	4	E. Bowell	
..	6115	B32	20 <sup>h</sup> 18 <sup>m</sup> .6	-9°6	..	3	..	
..	6116	B43	19 <sup>h</sup> 55 <sup>m</sup> .3	+4°6	..	4	..	
..	6117	B32	20 <sup>h</sup> 18 <sup>m</sup> .6	-9°6	..	3	..	
..	6118	B41	20 <sup>h</sup> 23 <sup>m</sup> .9	-32°2	..	3	..	
..	6119	B41	..	..	..	..	..	
..	6120	228,1721	22 <sup>h</sup> 14 <sup>m</sup> .2	-10°4	..	..	..	10x16 plate holder
..	6121	228,1721	..	..	..	..	..	..
..	6122	228,1721	..	..	..	..	..	..
..	6123	228,1721	..	..	..	..	..	..
JUL 16/17	6124	B43	19 <sup>h</sup> 49 <sup>m</sup> .7	+7°6	GOOD	4	E. Bowell	
..	6125	B38, B42	20 <sup>h</sup> 04 <sup>m</sup> .9	-23°7	..	3	..	
..	6126	..	..	..	..	..	..	
..	6127	228,1721	22 <sup>h</sup> 12 <sup>m</sup> .0	-11°1	..	..	..	
..	6128	864,1187	22 <sup>h</sup> 55 <sup>m</sup> .7	-5°7	..	..	..	
..	6129	228,1721	22 <sup>h</sup> 12 <sup>m</sup> .0	-11°1	..	4	..	
..	6130	864,1187	22 <sup>h</sup> 55 <sup>m</sup> .7	-5°7	..	..	..	
JUL 18/19	6131	B45	22 <sup>h</sup> 29 <sup>m</sup> .7	-10°8	GOOD	4	E. Bowell	
..	6132	B51	22 <sup>h</sup> 54 <sup>m</sup> .1	-5°2	..	..	..	Cirrus
AUG 03/04	6133	B43	19 <sup>h</sup> 28 <sup>m</sup> .2	+12°9	GOOD	3	E. Bowell	
..	6134	B43	19 <sup>h</sup> 28 <sup>m</sup> .2	+12°9	..	..	..	
..	6135	B32	19 <sup>h</sup> 52 <sup>m</sup> .0	-12°2	..	..	..	
..	6136	B38, B42	19 <sup>h</sup> 44 <sup>m</sup> .5	-23°7	..	..	..	
..	6137	B41, B47	19 <sup>h</sup> 56 <sup>m</sup> .8	-35°2	..	2	..	

1980 DATE	PLATE #	GUIDE OBJECT	R.A.	DEC.	TRANS.	STEAD.	OBSERVER	REMARKS
AUG 03/04	6138	B32	19 <sup>h</sup> 52 <sup>m</sup> .0	-12° 2	GOOD	3	E. Bowell	
"	6139	B38, B42	19 <sup>h</sup> 44 <sup>m</sup> .5	-23° 7	"	"	"	
"	6140	B41, B47	19 <sup>h</sup> 56 <sup>m</sup> .8	-35° 2	"	"	"	Good night
AUG 05/06	6141	B43	19 <sup>h</sup> 26 <sup>m</sup> .7	+13° 0	GOOD	4	E. Bowell.	
"	6142	B32	19 <sup>h</sup> 50 <sup>m</sup> .0	-11° 2	"	"	"	
"	6143	B43	19 <sup>h</sup> 26 <sup>m</sup> .7	+13° 0	"	"	"	
"	6144	B32	19 <sup>h</sup> 50 <sup>m</sup> .0	-11° 2	"	"	"	
"	6145	B45	22 <sup>h</sup> 09 <sup>m</sup> .3	-7° 0	"	"	"	
"	6146	B46	22 <sup>h</sup> 11 <sup>m</sup> .4	-15° 1	"	"	"	
"	6147	B45	22 <sup>h</sup> 09 <sup>m</sup> .3	-7° 0	"	"	"	
"	6148	B48	22 <sup>h</sup> 47 <sup>m</sup> .7	-0° 5	"	"	"	
"	6149	B46	22 <sup>h</sup> 11 <sup>m</sup> .4	-15° 1	"	"	"	
"	6150	B48	22 <sup>h</sup> 47 <sup>m</sup> .7	-0° 5	"	"	"	very good night
AUG 07/08	6151	B41	19 <sup>h</sup> 38 <sup>m</sup> .8	-38° 3	GOOD	3	E. Bowell	
"	6152	B41	"	"	"	"	"	
"	6153	B53, B54	22 <sup>h</sup> 30 <sup>m</sup> .3	-9° 0	"	4	"	
"	6154	B52, B55, B56	22 <sup>h</sup> 56 <sup>m</sup> .1	-8° 2	"	"	"	
"	6155	B53, B54	22 <sup>h</sup> 30 <sup>m</sup> .3	-9° 0	"	"	"	
"	6156	B52, B55, B56	22 <sup>h</sup> 56 <sup>m</sup> .1	-8° 2	"	"	"	
"	6157	80PA	23 <sup>h</sup> 31 <sup>m</sup> .4	+5° 6	"	"	"	Driven. Cloud at end.
Aug 16/17	6158	A0PA	00 02	+11° 15	Good	3	H. Gables.	
"	6159	"	"	"	"	"	"	
SEP 01/02	6160	B43	19 <sup>h</sup> 14 <sup>m</sup> .5	+15° 4	GOOD	4	E. Bowell	
"	6161	B38, B42	19 <sup>h</sup> 35 <sup>m</sup> .9	-23° 9	GOOD	4	"	
"	6162	B41	19 <sup>h</sup> 22 <sup>m</sup> .0	-44° 1	"	2	"	Driven
"	6163	B38, B42	19 <sup>h</sup> 35 <sup>m</sup> .9	-23° 9	"	4	"	
"	6164	B47	19 <sup>h</sup> 48 <sup>m</sup> .3	-35° 2	"	3	"	
"	6165	B53, etc.	22 <sup>h</sup> 16 <sup>m</sup> .4	-11° 5	"	"	"	
"	6166	"	"	"	"	"	"	Good night
SEP 03/04	6167	B45	21 <sup>h</sup> 40 <sup>m</sup> .0	-8° 3	GOOD	3	E. Bowell.	
"	6168	B46, etc	21 <sup>h</sup> 53 <sup>m</sup> .1	-20° 3	"	"	"	
"	6169	B53, etc	22 <sup>h</sup> 13 <sup>m</sup> .7	-11° 8	"	"	"	
"	6170	B45	21 <sup>h</sup> 40 <sup>m</sup> .0	-8° 3	"	"	"	
"	6171	B46, etc	22 <sup>h</sup> 55 <sup>m</sup> .7	-20° 3	"	"	"	
"	6172	B53, etc	22 <sup>h</sup> 13 <sup>m</sup> .7	-11° 8	"	"	"	
"	6173	B55, etc	22 <sup>h</sup> 39 <sup>m</sup> .2	-12° 5	"	"	"	Cloud at end.
SEP 06/87	6174	B45, B83	21 <sup>h</sup> 41 <sup>m</sup> .0	-7° 3	GOOD	4	E. Bowell	
"	6175	B59, B84	22 <sup>h</sup> 02 <sup>m</sup> .1	-20° 3	"	"	"	lightning in south
"	6176	B52, etc.	22 <sup>h</sup> 09 <sup>m</sup> .8	-11° 6	"	"	"	
"	6177	B49, etc.	22 <sup>h</sup> 19 <sup>m</sup> .4	-3° 8	"	"	"	

1980 DATE	PLATE #	TARGET OBJECT	R.A.	DEC.	TRANS.	STEAD.	OBSERVER	REMARKS
SEP 06/07	6178	B55, etc.	22 <sup>h</sup> 35 <sup>m</sup> .1	-13 <sup>o</sup> .2	GOOD	4	E. BOWELL	
"	6179	B52, etc.	22 <sup>h</sup> 09 <sup>m</sup> .8	-11 <sup>o</sup> .6	"	"	"	cloud at end.
"	6180	B49, etc.	22 <sup>h</sup> 19 <sup>m</sup> .4	-3 <sup>o</sup> .8	"	"	"	
"	6181	B55, etc.	22 <sup>h</sup> 35 <sup>m</sup> .1	-13 <sup>o</sup> .2	"	"	"	
"	6182	80PA	1 <sup>h</sup> 54 <sup>m</sup> .6	+27 <sup>o</sup> .9	"	"	"	Driven.
SEP 08/09	6183	C/CEKNIS-P	14 <sup>h</sup> 45 <sup>m</sup> .5	+24 <sup>o</sup> .3	GOOD	4	E. BOWELL + B. SKIFF	
SEP 10/11	6184	B59, B84	21 <sup>h</sup> 58.3	-20.5	GOOD	3	B. SKIFF	occasional lightning
"	6185	B52 etc	22 <sup>h</sup> 05.0	-10.5	"	3	"	ESE
"	6186	B59, B84	21 <sup>h</sup> 58.3	-20.5	"	4	"	
"	6187	B52 etc	22 <sup>h</sup> 05.0	-10.5	"	4	"	
SEP 13/14	6188	B77 etc	22 <sup>h</sup> 11.0	-15.2	"	3	B. SKIFF	
	6189	B55 etc	22 <sup>h</sup> 32.0	-11.5	"	3	"	
	6190	B77 etc	22 <sup>h</sup> 11.0	-15.2	"	3	"	
	6191	B55 etc	22 <sup>h</sup> 32.0	-11.5	"	3	"	
	6192	B49, B50 etc	22 <sup>h</sup> 14 <sup>m</sup> .3	-4.5	"	4	"	
	6193	B49, B50 etc	22 <sup>h</sup> 14.3	-4.5	"	4	"	
Sep. 16/17	6194	" "	22 11.4	-4.2	GOOD	2-3	N. THOMAS	
"	6195	" "	22 11.4	-4.2	GOOD	2	"	
"	6196	10(80/81) #1	3 26.8	+21.0	Excellent	3	"	
"	6197	10(80/81) #2	3 48.9	+22.5	Excellent	3	"	
"	6198	10(80/81) #3	4 11.5	+26.1	Excellent	2-3	"	
Sept 17/18	6199	1980 PA	3 3J	+31 <sup>o</sup> 20'	Good	3	H. GICLAS	
"	6200	"	"	"	"	"	"	
"	6201	mp 51	4 <sup>h</sup> 49 <sup>m</sup>	+12 <sup>o</sup> 50'	"	4	"	
SEP 29/30	6202	C/CEKNIS-P	15 <sup>h</sup> 44.7	+10 <sup>o</sup> 47'	FAIR	3	B. SKIFF	dusty sky at
"	6203	C/CEKNIS-P	15 <sup>h</sup> 44.7	+10 <sup>o</sup> 47'	FAIR	3	B. SKIFF	twilight
"	6204	$\lambda$ AQR	22 <sup>h</sup> 48.7	-07 <sup>o</sup> 15'	FAIR	3	B. SKIFF	
"	6205	$\lambda$ AQR	22 <sup>h</sup> 48.7	-07 <sup>o</sup> 15'	FAIR	3	B. SKIFF	
SEP 30/OCT 1	6206	S3, S4 etc	23 <sup>h</sup> 02.3	-03 <sup>o</sup> 40'	FAIR	4	B. SKIFF	dusty again
	6207	S5	22 <sup>h</sup> 59.7	-07 <sup>o</sup> 25'	FAIR	4	"	
	6208	S3, S4 etc	23 02.3	-03 <sup>o</sup> 40'	"	4	"	
	6209	S5	22 <sup>h</sup> 59.7	-07 <sup>o</sup> 25'	"	4	"	warm night seeing very good
OCT 01/02	6210	1980 LA	19 <sup>h</sup> 46 <sup>m</sup> .1	+14 <sup>o</sup> .3	GOOD	4	E. BOWELL	
"	6211	B45, etc	21 <sup>h</sup> 39 <sup>m</sup> .4	-6 <sup>o</sup> .6	"	"	"	
"	6212	B53, etc	21 <sup>h</sup> 59 <sup>m</sup> .8	-14 <sup>o</sup> .3	"	"	"	
"	6213	B45, etc	21 <sup>h</sup> 39 <sup>m</sup> .4	-6 <sup>o</sup> .6	"	"	"	
"	6214	B53, etc	21 <sup>h</sup> 59 <sup>m</sup> .8	-14 <sup>o</sup> .3	"	"	"	
"	6215	B62, B84	22 <sup>h</sup> 16 <sup>m</sup> .2	-22 <sup>o</sup> .8	"	"	"	
"	6216	B48, etc	22 <sup>h</sup> 09 <sup>m</sup> .7	-5 <sup>o</sup> .1	"	"	"	
"	6217	B62	22 <sup>h</sup> 20 <sup>m</sup> .8	-20 <sup>o</sup> .6	"	"	"	

1980 DATE	PLATE #	TARGET OBJECT(S)	R.A.	DEC.	TRANS.	STEAD.	OBSERVER	REMARKS
OCT 01/02	6218	B48, etc.	22 <sup>h</sup> 09 <sup>m</sup> .7	-5° 1'	GOOD	4	E. BOWEN	V. Good sky.
OCT 03/04	6219	B48, B89	22 <sup>h</sup> 00.5	-0° 55'	GOOD	4	BSKIFF	
"	6220	B91	22 <sup>h</sup> 20.8	-08° 35'	"	"	"	
"	6221	B48, B89	22 <sup>h</sup> 00.5	-04° 55'	"	"	"	
"	6222	B91	22 <sup>h</sup> 20.8	-08° 35'	"	"	"	
OCT 04/05	6223	B88	22 <sup>h</sup> 14.0	-01° 50'	FAIR	3	BSKIFF	Polyn 9.30
"	6224	1957HJ	22 <sup>h</sup> 49.5	+04° 07'	"	3	"	
"	6225	B88	22 <sup>h</sup> 14.0	-01° 50'	"	3	"	
"	6226	1957HJ	22 <sup>h</sup> 49.5	+04° 07'	"	"	"	
OCT 07/08	6227	B91	22 <sup>h</sup> 14.4	-08° 00'	GOOD	3	BSKIFF	
"	6228	B65	22 23.1	-11° 05'	"	"	"	
"	6229	B91	22 <sup>h</sup> 14.4	-08° 00'	"	"	"	
"	6230	B65	22 <sup>h</sup> 23.1	-11° 05'	"	"	"	
"	6231	S1	23 <sup>h</sup> 11.0	-13° 25'	"	"	"	
"	6232	ARETE	03 <sup>h</sup> 57.7	+12° 25'	"	"	"	
"	6233	S1	23 <sup>h</sup> 11.0	-13° 25'	"	"	"	
OCT 09/10	6234	1931TV	23 <sup>h</sup> 12.6	-01° 45'	GOOD	3	BSKIFF	
"	6235	1969RY	23 <sup>h</sup> 58.6	+16° 50'	"	"	"	
"	6236	1931TV	23 <sup>h</sup> 12.6	-01° 45'	"	"	"	
"	6237	1969RY	23 <sup>h</sup> 58.6	+16° 50'	"	"	"	
"	6238	1976UH1	23 <sup>h</sup> 47.8	-16° 43'	"	"	"	
"	6239	1976UH1	23 <sup>h</sup> 47.8	-16° 43'	"	"	"	
"	6240	<sup>(197)</sup> ARETE	03 <sup>h</sup> 57.0	+12° 40'	"	2	"	
OCT 28/29	6241	<sup>(2145)</sup> BLAAUW	23 <sup>h</sup> 06.4	+15° 20'	GOOD	2	BSKIFF	
"	6242	<sup>(2145)</sup> BLAAUW	23 <sup>h</sup> 06.4	+15° 20'	"	"	"	
"	6243	<sup>1627</sup> IVAR	03 <sup>h</sup> 18.3	-02° 25'	"	"	"	
"	6244	<sup>1627</sup> IVAR	03 <sup>h</sup> 18.3	-02° 25'	"	"	"	
"	6245	<sup>197</sup> ARETE	03 <sup>h</sup> 45.5	+12° 25'	"	"	"	
Nov 1/2	6246	C/STEPH-Ot	05 <sup>h</sup> 15.0	+07° 15'	GOOD	3	BSKIFF	
"	6247	<sup>197</sup> ARETE	03 <sup>h</sup> 43.2	+12° 10'	"	4	"	
"	6248	<sup>534</sup> NASSOVIA	05 <sup>h</sup> 39.3	+21° 30'	"	3	"	
"	6249	1965QC	03 <sup>h</sup> 47.5	-04° 45'	"	4	"	
"	6250	1965QC	03 <sup>h</sup> 47.5	-04° 45'	"	4	"	
Nov 2/3	6251	A Regia	12 45	+35°	Good	3	H. Gielas	
"	6252	"	"	"	"	"	"	
Nov 3/4	6253	ε Eucly	13 <sup>h</sup> 03	+29	"	2	"	
"	6254	"	"	"	"	"	"	
"	6255	"	"	"	"	"	"	
Nov 5/6	6256	1978GD	01 <sup>h</sup> 46.0	-01° 10'	GOOD	4	BSKIFF	
"	6257	1974DS	01 <sup>h</sup> 45.0	+19° 35'	"	4	"	

1980 DATE	PLATE #	TARGET OBJECT(S)	R.A.	DEC.	TRANS.	STEAD.	OBSERVER	REMARKS
Nov 5/6	6258	1978GD	00 <sup>h</sup> 46.0	-0 <sup>o</sup> 10'	GOOD	4	B SKIFF	
"	6259	1974DS	00 <sup>h</sup> 45.0	+19.30'	"	"	"	
"	6260	7631P-L	01 <sup>h</sup> 27.3	+03.40'	"	"	"	
"	6261	ARETE	03 <sup>h</sup> 38	+12.00'	"	"	"	
"	6262	7631P-L	01 <sup>h</sup> 27.9	+03.40'	"	"	"	
"	6263	NEW COMET	18 <sup>h</sup> 06.0	+42°	-	-	H. GILLES	
"	6264	σ/STEPHAN 10	5 <sup>h</sup> 18.8	+08.20'	"	3	B SKIFF	
"	6265	NASSOVA	5 <sup>h</sup> 38.1	+21.20'	"	3	B SKIFF	
NOV 07/08	6266	1862	17 <sup>h</sup> 45 <sup>m</sup> .1	-14 <sup>o</sup> .8	GOOD	3	E. BOWELL, B, SKIFF	
"	6267	C/MEIER	18 <sup>h</sup> 03 <sup>m</sup> .1	+40 <sup>o</sup> .6	"	4	" "	
"	6268	765C	0 <sup>h</sup> 53 <sup>m</sup> .6	+15 <sup>o</sup> .7	"	"	E. BOWELL	
"	6269	766U2, 765Q2	1 <sup>h</sup> 57 <sup>m</sup> .6	+6 <sup>o</sup> .2	"	"	"	
"	6270	765C	0 <sup>h</sup> 53 <sup>m</sup> .6	+15 <sup>o</sup> .7	"	"	"	
"	6271	766U2, 765Q2	1 <sup>h</sup> 57 <sup>m</sup> .6	+6 <sup>o</sup> .2	"	"	"	
"	6272	1865	2 <sup>h</sup> 34 <sup>m</sup> .5	-0 <sup>o</sup> .6	"	"	"	
"	6273	69TQ4 40GH	2 <sup>h</sup> 49 <sup>m</sup> .8	+10 <sup>o</sup> .0	"	"	"	
"	6274	197	3 <sup>h</sup> 34 <sup>m</sup> .3	+12 <sup>o</sup> .1	"	"	"	
"	6275	69TQ4 40GH	2 <sup>h</sup> 49 <sup>m</sup> .8	+10 <sup>o</sup> .0	"	"	"	
"	6276	534	5 <sup>h</sup> 35 <sup>m</sup> .7	+21 <sup>o</sup> .4	"	"	"	Very good night
NOV 08/09	6277	C/MEIER	18 <sup>h</sup> 02 <sup>m</sup> .4	+40 <sup>o</sup> .3	GOOD	4	E. BOWELL	
"	6278	78GD, S7	0 <sup>h</sup> 47 <sup>m</sup> .5	-0 <sup>o</sup> .2	"	"	"	
"	6279	74VK, 39PM	1 <sup>h</sup> 26 <sup>m</sup> .4	+13 <sup>o</sup> .9	"	"	"	
"	6280	78GD, S7	0 <sup>h</sup> 47 <sup>m</sup> .5	-0 <sup>o</sup> .2	"	"	"	
"	6281	74VK, 39PM	1 <sup>h</sup> 26 <sup>m</sup> .4	+13 <sup>o</sup> .9	"	"	"	
"	6282	76TA, 1715	2 <sup>h</sup> 00 <sup>m</sup> .1	+12 <sup>o</sup> .7	"	"	"	
"	6283	79KA	3 <sup>h</sup> 11 <sup>m</sup> .2	+3 <sup>o</sup> .7	"	"	"	
"	6284	76TA, 1715	2 <sup>h</sup> 00 <sup>m</sup> .1	+12 <sup>o</sup> .7	"	"	"	
"	6285	79KA	3 <sup>h</sup> 11 <sup>m</sup> .2	+3 <sup>o</sup> .7	"	"	"	
"	6286	197	3 <sup>h</sup> 34 <sup>m</sup> .3	+12 <sup>o</sup> .1	"	5	"	
"	6287	75UD	3 <sup>h</sup> 52 <sup>m</sup> .6	+24 <sup>o</sup> .2	"	5	"	
"	6288	7006	4 <sup>h</sup> 26 <sup>m</sup> .3	-5 <sup>o</sup> .2	"	"	"	
"	6289	75UD	3 <sup>h</sup> 52 <sup>m</sup> .6	+24 <sup>o</sup> .2	"	"	"	
"	6290	7006	4 <sup>h</sup> 26 <sup>m</sup> .3	-5 <sup>o</sup> .2	"	"	"	
"	6291	534	5 <sup>h</sup> 35 <sup>m</sup> .8	+21 <sup>o</sup> .3	"	"	"	First-rate night
NOV 10/11	6292	1862	18 <sup>h</sup> 58 <sup>m</sup> .3	-5 <sup>o</sup> .8	GOOD	4	E. BOWELL	Driven
"	6293	1862	18 <sup>h</sup> 58 <sup>m</sup> .3	-5 <sup>o</sup> .8	"	3	"	"
"	6294	C/MEIER	18 <sup>h</sup> 02 <sup>m</sup> .0	+39 <sup>o</sup> .0	"	3	B SKIFF	
"	6295	1978GD, S7	00 <sup>h</sup> 47 <sup>m</sup> .0	-0 <sup>o</sup> 20'	"	3	"	
"	6296	1978GD, S7	00 <sup>h</sup> 47 <sup>m</sup> .0	-0 <sup>o</sup> 20'	"	2	"	
"	6297	B77	00 <sup>h</sup> 53.0	+15.30'	"	2	"	

1980 DATE	PLATE #	TARGET OBJECT(S)	RA.	DEC.	TRANS.	STEAD.	OBSERVER	REMARKS
Nov 10/11	6298	1978GD	0 <sup>h</sup> 47.0	-0°20'	GOOD	2	BSKIFF	
"	6299	87	0 <sup>h</sup> 52.7	+15°30'	"	"	"	
"	6300	(1865) CERBERUS	2 <sup>h</sup> 24.0	-5°00'	"	"	"	driven
NOV 11/12	6301	1862	19 <sup>h</sup> 31 <sup>m</sup> .4	+0°4'	GOOD	3	E-BOWELL	cloud all around
"	6302	1862	19 <sup>h</sup> 31 <sup>m</sup> .4	+0°4'	"	"	"	Driven
"	6303	C/MEIER	18 <sup>h</sup> 00 <sup>m</sup> .4	+38°3'	"	"	"	
NOV 12/13	6304	1862	20 <sup>h</sup> 58 <sup>m</sup> .3	+4°5'	GOOD	3	E. BOWELL	Driven
"	6305	"	"	"	"	"	"	"
"	6306	C/MEIER	18 <sup>h</sup> 00 <sup>m</sup> .8	+38°0'	"	"	"	
"	6307	B92, B95, B96	1 <sup>h</sup> 58 <sup>m</sup> .2	+12°9'	"	"	"	
"	6308	"	"	"	"	"	"	Windy
NOV 14/15	6309	1862	20 <sup>h</sup> 45 <sup>m</sup> .2	+9°9'	GOOD	3	E. BOWELL	Driven, 5 exps.
"	6310	B95, etc	1 <sup>h</sup> 57.0	+13°05'	"	4	BSKIFF	
"	6311	1976GUZ	1 <sup>h</sup> 49.0	+7°55'	"	"	"	
"	6312	B95 etc	1 <sup>h</sup> 57.0	+13°05'	"	"	"	
"	6313	1976GUZ	1 <sup>h</sup> 49.0	+7°55'	"	"	"	
"	6314	197	3 <sup>h</sup> 30 <sup>m</sup> .4	+12°00'	"	"	"	
"	6315	534	5 <sup>h</sup> 37.0	+22°20'	"	"	"	
NOV 16/17	6316	C/MEIER	17 <sup>h</sup> 57.3	+36°1'	GOOD	3	E. BOWELL	
"	6317	1862	22 <sup>h</sup> 39 <sup>m</sup> .7	+22°2'	"	"	"	Driven, 3 exposures
NOV 16/17	6318	C/Tuttle	10 25.0	421°	Good	2↑	N. Thomas	
"	6319	C/Bowell	12 06.0	+1°	"	↓	"	
NOV 18/19	6320	C/MEIER	17 <sup>h</sup> 57 <sup>m</sup> .3	+35°1'	GOOD	3	E. BOWELL	
"	6321	1862	23 <sup>h</sup> 33 <sup>m</sup> .8	+26°1'	"	"	"	Driven, 2 exps.
NOV 28/29	6322	B77, 58	0 <sup>h</sup> 44 <sup>m</sup> .7	+15°5'	GOOD	4	E. BOWELL	
"	6323	1862	1 <sup>h</sup> 32 <sup>m</sup> .9	+29°4'	"	"	"	Driven, 3 exps.
"	6324	B77, 58	0 <sup>h</sup> 44 <sup>m</sup> .7	+15°5'	"	"	"	
"	6325	B95, B96	1 <sup>h</sup> 46 <sup>m</sup> .7	+14°2'	"	"	"	
"	6326	495A1, B87, B93, B94	2 <sup>h</sup> 32 <sup>m</sup> .0	+9°1'	"	"	"	
"	6327	B95, B96	1 <sup>h</sup> 46 <sup>m</sup> .7	+14°2'	"	"	"	
"	6328	495A1, B87, B93, B94	2 <sup>h</sup> 32 <sup>m</sup> .0	+9°1'	"	"	"	
"	6329	B98	2 <sup>h</sup> 48 <sup>m</sup> .4	+3°8'	"	"	"	
"	6330	197	3 <sup>h</sup> 16 <sup>m</sup> .3	+12°0'	"	"	"	
"	6331	B98	2 <sup>h</sup> 48 <sup>m</sup> .4	+3°8'	"	"	"	Excellent night
DEC 03/04	6332	58, B77, (B102), B103	0 <sup>h</sup> 47 <sup>m</sup> .8	+15°4'	MODERATE	4	E. BOWELL	Traces of cirrus
"	6333	(B92), B95 B96, B104	1 <sup>h</sup> 45 <sup>m</sup> .3	+14°7'	"	"	"	
"	6334	58, B77 (B102), B103	0 <sup>h</sup> 47 <sup>m</sup> .8	+15°4'	POOR	"	"	Cirrus in field
"	6335	(B92), B95 B96, B104	1 <sup>h</sup> 45 <sup>m</sup> .3	+14°7'	"	3	"	" " "
"	6336	B97, B93, B94 B105, B106	2 <sup>h</sup> 26 <sup>m</sup> .5	+10°4'	MODERATE	3	"	Clear
"	6337	B97, B98, B107 B108, B109	2 <sup>h</sup> 44 <sup>m</sup> .6	+3°4'	"	3	"	Becoming windy

1980 DATE	PLATE #	TARGET OBJECT(S)	R.A.	DEC.	TRANS.	STEAD.	OBSERVER	REMARKS
DEC 03/04	6338	B87, (B93), B94 B105, B106	2 <sup>h</sup> 26 <sup>m</sup> .5	+10 <sup>o</sup> .4	MODERATE	3	E. Bowell	
"	6339	B97, B98, B107, B108, B109	2 <sup>h</sup> 44 <sup>m</sup> .6	+3 <sup>o</sup> .4	"	"	"	
"	6340	197	3 <sup>h</sup> 13 <sup>m</sup> .8	+12 <sup>o</sup> .9	"	"	"	3 exps.
"	6341	79QE	5 <sup>h</sup> 43 <sup>m</sup> .5	+28 <sup>o</sup> .8	"	3	"	
"	6342	534	5 <sup>h</sup> 19 <sup>m</sup> .1	+22 <sup>o</sup> .6	"	"	"	
"	6343	79QE	5 <sup>h</sup> 43 <sup>m</sup> .5	+28 <sup>o</sup> .8	"	"	"	
"	6344	B8	8 <sup>h</sup> 42 <sup>m</sup> .1	+25 <sup>o</sup> .6	"	"	"	
"	6345	79UJ	8 <sup>h</sup> 40 <sup>m</sup> .8	-0 <sup>o</sup> .2	"	"	"	
"	6346	B8	8 <sup>h</sup> 42 <sup>m</sup> .1	+25 <sup>o</sup> .6	"	"	"	
"	6347	79UJ	8 <sup>h</sup> 40 <sup>m</sup> .8	-0 <sup>o</sup> .2	"	"	"	
DEC 09/10	6348	76JQ2	1 <sup>h</sup> 45.3	+03 <sup>o</sup> .8	Good	4	B SKIFF	windy
"	6349	R104	1 <sup>h</sup> 41.7	+14 <sup>o</sup> .5	"	"	"	
"	6350	76JQ2	1 <sup>h</sup> 45.3	+03 <sup>o</sup> .8	"	"	"	
"	6351	B104	1 <sup>h</sup> 47.7	+14 <sup>o</sup> .5	"	"	"	
"	6352	36EA	2 <sup>h</sup> 47.0	+18 <sup>o</sup> .2	"	"	"	
"	6353	700G	4 <sup>h</sup> 00.5	-4 <sup>o</sup> .8	"	"	"	
"	6354	36EA	2 <sup>h</sup> 47.0	+18 <sup>o</sup> .2	"	"	"	
"	6355	700G	4 <sup>h</sup> 00.5	-4 <sup>o</sup> .8	"	"	"	friid
Dec 11/12	6356	80WF	4 <sup>h</sup> 46	+4 <sup>o</sup> 00	Poor	1	M. Geiler	
"	6357	B8	8 <sup>h</sup> 43	+26.0	fair-poor	3	N. Thomas	Fog
"	6358	79UJ	8 42	+0.5	fair	2	"	Fog
"	6359	B8	8 43	+26.0	good-poor	2	"	Fog
DEC 14/15	6360	80WF	4 <sup>h</sup> 59 <sup>m</sup> .1	+0 <sup>o</sup> .9	GOOD	2	E. Bowell	Driven
"	6361	"	"	"	"	"	"	"
DEC 15/16	6362	80XB	5 <sup>h</sup> 22.4	+38 <sup>o</sup> .5	GOOD	2	B SKIFF	moon up
"	6363	80XB	5 <sup>h</sup> 22.4	+38.5	"	3	"	"
"	6364	79UJ	8 <sup>h</sup> 37.9	-1.1	"	3	"	
"	6365	65[80/81]	9 <sup>h</sup> 27.7	+2 <sup>o</sup> .5	"	2	"	
"	6366	79UJ	8 <sup>h</sup> 37.9	-1.1	"	2	"	
"	6367	65[80/81]	9 <sup>h</sup> 27.7	+12.5	"	2	"	windy
DEC 29/30	6368	B96, B104	1 <sup>h</sup> 49 <sup>m</sup> .9	+14 <sup>o</sup> .2	GOOD	3	E. Bowell	
"	6369	B98, 1627	2 <sup>h</sup> 35 <sup>m</sup> .9	+3 <sup>o</sup> .4	"	2	"	
"	6370	B96, B104	1 <sup>h</sup> 49 <sup>m</sup> .9	+14 <sup>o</sup> .2	"	3	"	
"	6371	B98, 1627	2 <sup>h</sup> 35 <sup>m</sup> .9	+3 <sup>o</sup> .4	"	2	"	
"	6372	197	2 <sup>h</sup> 58 <sup>m</sup> .8	+13 <sup>o</sup> .1	"	3	"	4 xps.
"	6373	534	4 <sup>h</sup> 53 <sup>m</sup> .2	+21 <sup>o</sup> .7	"	3	"	4 xps.
"	6374	80XB	5 <sup>h</sup> 01 <sup>m</sup> .1	+45 <sup>o</sup> .9	"	"	"	
"	6375	"	"	"	"	"	"	
"	6376	36TK, 685B	6 <sup>h</sup> 11 <sup>m</sup> .5	+27 <sup>o</sup> .8	"	"	"	
"	6377	1867	6 <sup>h</sup> 41 <sup>m</sup> .2	+25 <sup>o</sup> .2	"	4	"	



1980/81 DATE	PLATE #	TARGET OBJECT(S)	R.A.	DEC.	TRANS.	STEAD.	OBSERVER	REMARKS
DEC 29/30	6378	36TK, 6858	6 <sup>h</sup> 11 <sup>m</sup> .5	+27 <sup>o</sup> .8	GOOD	4	E. BOWEN	
"	6379	1867	6 <sup>h</sup> 41 <sup>m</sup> .2	+25 <sup>o</sup> .2	"	"	"	
"	6380	B8, B118, B119, T2	8 <sup>h</sup> 32 <sup>m</sup> .1	+26 <sup>o</sup> .8	"	"	"	
"	6381	"	"	"	"	"	"	
DEC 30/31	6382	C/PANTHER	18 <sup>h</sup> 49 <sup>m</sup> .2	+39 <sup>o</sup> .6	GOOD	2	E. BOWEN	
"	6383	"	"	"	"	"	"	
"	6384	43EP	3 <sup>h</sup> 29 <sup>m</sup> .3	+29 <sup>o</sup> .6	EXCELLENT	4	"	
"	6385	74QE1	3 <sup>h</sup> 46 <sup>m</sup> .9	+42 <sup>o</sup> .3	"	"	"	
"	6386	43EP	3 <sup>h</sup> 29 <sup>m</sup> .3	+29 <sup>o</sup> .6	"	"	"	
"	6387	74QE1	3 <sup>h</sup> 46 <sup>m</sup> .9	+42 <sup>o</sup> .3	"	"	"	
"	6388	1600	6 <sup>h</sup> 02 <sup>m</sup> .6	+50 <sup>o</sup> .3	"	"	"	
"	6389	1600	"	"	"	"	"	Beautiful night
1981		1981					1981	
DEC 31/JAN 01	6390	79SF, BS	7 <sup>h</sup> 44 <sup>m</sup> .8	+15 <sup>o</sup> .9	GOOD	4	E. BOWEN.	Cirrus in south
"	6391	P/LOVAS	8 <sup>h</sup> 54 <sup>m</sup> .0	+33 <sup>o</sup> .2	"	4	"	
"	6392	79SF, BS	7 <sup>h</sup> 44 <sup>m</sup> .8	+15 <sup>o</sup> .9	"	"	"	
"	6393	P/LOVAS	8 <sup>h</sup> 54 <sup>m</sup> .0	+33 <sup>o</sup> .2	"	"	"	
"	6394	77T53	7 <sup>h</sup> 32 <sup>m</sup> .8	-17 <sup>o</sup> .3	"	"	"	
"	6395	"	"	"	"	"	"	
"	6396	B116, 75V03, 76GQ1, 78RP	9 <sup>h</sup> 35 <sup>m</sup> .7	+17 <sup>o</sup> .1	"	"	"	
"	6397	77RB	10 <sup>h</sup> 22 <sup>m</sup> .6	+42 <sup>o</sup> .9	"	"	"	
"	6398	B116, 75V03, 76GQ1, 78RP	9 <sup>h</sup> 35 <sup>m</sup> .7	+17 <sup>o</sup> .1	"	"	"	
"	6399	77RB	10 <sup>h</sup> 22 <sup>m</sup> .6	+42 <sup>o</sup> .9	"	"	"	Cirrus still present.
JAN 02/03	6400	79SF	6 <sup>h</sup> 28 <sup>m</sup> .7	+34 <sup>o</sup> .8	GOOD	4	E. BOWEN	
"	6401	79SQ	8 <sup>h</sup> 20 <sup>m</sup> .3	+20 <sup>o</sup> .1	"	"	"	
"	6402	79SF	6 <sup>h</sup> 28 <sup>m</sup> .7	+34 <sup>o</sup> .8	"	"	"	
"	6403	79SQ	8 <sup>h</sup> 20 <sup>m</sup> .3	+20 <sup>o</sup> .1	"	5	"	
"	6404	B115, 79UJ	8 <sup>h</sup> 32 <sup>m</sup> .0	+1 <sup>o</sup> .7	"	"	"	
"	6405	B113, 66PD, 79UN	9 <sup>h</sup> 16 <sup>m</sup> .2	+10 <sup>o</sup> .9	"	"	"	
"	6406	280	11 <sup>h</sup> 10 <sup>m</sup> .8	+10 <sup>o</sup> .7	"	4	"	
"	6407	B115, 79UJ	8 <sup>h</sup> 32 <sup>m</sup> .0	+1 <sup>o</sup> .7	"	5	"	
"	6408	B113, 66PD, 79UN	9 <sup>h</sup> 16 <sup>m</sup> .2	+10 <sup>o</sup> .9	"	"	"	
"	6409	280	11 <sup>h</sup> 10 <sup>m</sup> .8	+10 <sup>o</sup> .7	"	"	"	Beautiful night
JAN 05/06	6410	α Tau	4 <sup>h</sup> 33 <sup>m</sup> .0	+16 <sup>o</sup> .4	GOOD	3	E. BOWEN + O.G. FRAY.	4 exps.
"	6411	1	7 <sup>h</sup> 40 <sup>m</sup> .1	+30 <sup>o</sup> .1	"	"	"	"
JAN 07/08	6412	1	7 <sup>h</sup> 39 <sup>m</sup> .5	+30 <sup>o</sup> .3	GOOD	4	E. BOWEN + O.G. FRAY.	4 exps.
"	6413	"	"	"	"	"	"	"

1981 DATE	PLATE #	TARGET OBJECT(S)	R.A.	DEC.	TRANS.	SEEING	OBSERVER	REMARKS
JAN 08/09	6414	C/BRADFIELD	20 <sup>h</sup> 22 <sup>m</sup>	-02.0	GOOD	2	B SKIFF	some twilight
" "	6415	B128, 129	3 <sup>h</sup> 29 <sup>m</sup>	+28.0	GOOD	5	"	
" "	6416	B136, 137	6 <sup>h</sup> 34 <sup>m</sup>	+24.0	"	4	"	
" "	6417	B128, 129	3 <sup>h</sup> 29 <sup>m</sup>	+28.0	"	5	"	
" "	6418	B136, 137	6 <sup>h</sup> 34 <sup>m</sup>	+24.1	"	5	"	
" "	6419	B122 etc	7 <sup>h</sup> 36 <sup>m</sup>	+16.6	"	5	"	
" "	6420	B136, 137	6 <sup>h</sup> 34 <sup>m</sup>	+24.1	"	5	"	
" "	6421	B122 etc	7 <sup>h</sup> 36 <sup>m</sup>	+16.6	"	5	"	
" "	6422	B138 etc	8 <sup>h</sup> 31.6	+27.0	"	5	"	
" "	6423	B138 etc	8 <sup>h</sup> 31.6	+27.0	"	5	"	remarkably clear
JAN 09/10	6424	1	7 <sup>h</sup> 39.5	+30.3	GOOD	4	E. BOWELL + D.G. FRANS. 6exps	
"	6425	B114, 119, 78RP	9 <sup>h</sup> 23.9	+16.8	"	"	E. BOWELL	
"	6426	65(80/81)#2	9 <sup>h</sup> 48.2	+12.1	"	"	"	
"	6427	B114, B119, 78RP	9 <sup>h</sup> 23.9	+16.8	"	"	"	
"	6428	65(80/81)#2	9 <sup>h</sup> 48.2	+12.1	"	"	"	
JAN 13/14	6429	B122 etc	7 <sup>h</sup> 30.9	+21.1	FAIR	3	B SKIFF	lenticularis in west
"	6430	B143	9 <sup>h</sup> 46.0	+12.6	"	"	"	
"	6431	B122 etc	7 <sup>h</sup> 30.9	+21.1	"	"	"	
"	6432	B143	9 <sup>h</sup> 46.0	+12.6	GOOD	3	"	
JAN 18/19	6433	B150	7 <sup>h</sup> 50.3	+28.2	GOOD	4	E. BOWELL	stray moonlight
"	6434	"	"	"	"	"	E. BOWELL	" "
JAN 27/28	6435	T8 etc	5 <sup>h</sup> 41	+32.0	GOOD	3-4	N. THOMAS	
"	6436	"	"	"	"	3	"	ENDEOG
"	6437	B150	7 <sup>h</sup> 38.2	+31.6	"	3-4	"	ENDEOG
JAN 29/30	6438	B140 etc	7 <sup>h</sup> 50.2	+20.5	GOOD	3	B SKIFF	gusty W wind
" "	6439	B122 etc	7 <sup>h</sup> 15.3	+22.8	"	"	"	
" "	6440	B140 etc	7 <sup>h</sup> 50.2	+20.5	"	"	"	
" "	6441	B122 etc	7 <sup>h</sup> 15.0	+22.8	"	"	"	
" "	6442	B150	7 <sup>h</sup> 35.8	+32.2	"	"	"	
" "	6443	B146	8 <sup>h</sup> 02.5	+25.0	"	"	"	
" "	6444	B150	7 <sup>h</sup> 35.3	+32.2	"	"	"	
" "	6445	B146	8 <sup>h</sup> 02.5	+25.0	"	"	"	
FEBRUARY 4/5	6446	T9-12	5 <sup>h</sup> 33.0	+25.0	GOOD	2	B SKIFF	
" "	6447	T4, T8	5 <sup>h</sup> 50.0	+34.0	"	"	"	
" "	6448	T9-12	5 <sup>h</sup> 33.0	+25.0	"	3	"	
" "	6449	T4, T8	5 <sup>h</sup> 50.0	+34.0	"	3	"	
" "	6450	T13	8 <sup>h</sup> 38.2	+03.0	"	3	"	
" "	6451	T16-18	8 <sup>h</sup> 51.6	+14.9	"	"	"	
" "	6452	T13	8 <sup>h</sup> 38.2	+03.0	"	"	"	
" "	6453	T16-18	8 <sup>h</sup> 51.6	+14.9	"	"	"	

1981 DATE	DATE #	TARGET OBJECT	RA	Dec	Trans.	Seeing	Observer	Remarks
Feb 5/6	6454	T4, T8, T9	5 <sup>h</sup> 36	+30°	good	4	N. Thomas	
"	6455	T8, T9	6 <sup>h</sup> 13	+34	"	4+	"	
"	6456	T4, 6, 26	5 36	+30	"	4-3	"	
"	6457	T8, T9	6 <sup>h</sup> 13	+34	"	4-3	"	
"	6458	B?	10 <sup>h</sup> 40	+17	"	3	"	
"	6459	"	"	"	"	3-4	"	Good Nite
Feb 7/8	6460	T20, 21, 23	8 <sup>h</sup> 52	+17°	good	3	N. Thomas	
"	6461	T9, 22	9 16	+21	"	3	"	
"	6462	T20, 21, 23	8 <sup>h</sup> 52	+17°	good	3	"	
"	6463	T19, 22	9 16	+21	"	3-4	"	
FEB 22/23	6464	1915	8 <sup>h</sup> 51 <sup>m</sup> .8	-24°0	4	4	E. Bowell	Driven
"	6465	"	"	"	"	"	"	"
FEB 25/26	6466	B150	7 <sup>h</sup> 02 <sup>m</sup> .0	+38°9	3	4	BSKIFF	very windy
"	6467	B150	7 <sup>h</sup> 24.4	+38°9	3	4	"	"
"	6468	B150	7 <sup>h</sup> 02 <sup>m</sup> .0	+38°9	3	4	"	"
"	6469	B150	7 <sup>h</sup> 34.9	+38°9	3	4	"	"
"	6470	B140	7 <sup>h</sup> 23.8	+16°2	3	4	"	"
FEB 27/28	6471	T41	6 <sup>h</sup> 43.0	+33°1	4	4	BSKIFF	driven
"	6472	B140	7 <sup>h</sup> 24.0	+16°3	4	4	"	"
"	6473	B122	7 <sup>h</sup> 28.0	+27.1	4	5	"	"
"	6474	B140	7 <sup>h</sup> 24.0	+6.3	4	5	"	"
"	6475	B122	7 <sup>h</sup> 28.0	+27.1	4	5	"	"
MAR 8/9	6476	T41	7 <sup>h</sup> 14.7	+33.2	3	4	BSKIFF	driven
"	6477	T41	7 <sup>h</sup> 14.7	+33.2	3	4	"	driven
"	6478	B115	7 <sup>h</sup> 49.0	+24.4	3	4	"	"
"	6479	B113	8 <sup>h</sup> 45.0	+21.8	4	5	"	"
"	6480	B115	7 <sup>h</sup> 49.0	+24.4	4	5	"	"
"	6481	B113	8 <sup>h</sup> 45.0	+21.8	4	5	"	"
"	6482	T30	10 <sup>h</sup> 07.5	+21.5	4	5	"	"
"	6483	d/Bowell	12 325	-01.1	4	3	"	"
"	6484	T30	10 <sup>h</sup> 07.5	+21.5	4	5	"	"
MAR 09/10	6485	RV Lync	6 <sup>h</sup> 44 <sup>m</sup>	+51°08	Good	3-	H. Giclas	
"	6486	"	"	"	"	"	"	
"	6487	"	"	"	Poor	3	"	
MAR 11/12	6488	T41	7 <sup>h</sup> 31 <sup>m</sup> .1	+33°3	3	3	E. Bowell	Driven
"	6489	"	"	"	"	"	"	"
"	6490	B150	7 <sup>h</sup> 32 <sup>m</sup> .8	+38°2	3	4	"	"
"	6491	"	"	"	+	3	"	"
MAR 12/13	6492	T41	7 <sup>h</sup> 35 <sup>m</sup> .5	+33.2	2	3	BSKIFF	driven, cloud at end

DATE 1981	Plate No.	Object	RA	Dec	Trans.	Stood	Observer - Remarks
MAR 24/25	6493	B148	7 <sup>h</sup> 46 <sup>m</sup> .9	+27°7	3	4	ELGB
"	6494	B120, etc.	9 <sup>h</sup> 55 <sup>m</sup> .6	+22°6	4	4	E. BOWELL
"	6495	B119, etc.	10 <sup>h</sup> 19 <sup>m</sup> .8	+15°6	4	4	"
"	6496	B148	7 <sup>h</sup> 46 <sup>m</sup> .9	+27°7	4	4	"
"	6497	B120, etc.	9 <sup>h</sup> 55 <sup>m</sup> .6	+22°6	4	4	"
"	6498	B119, etc.	10 <sup>h</sup> 19 <sup>m</sup> .8	+15°6	4	4	"
29/30 MAR	6499	B118 etc	9 <sup>h</sup> 58.7	+22°0	4	3	BSKIFF - windy
" "	6500	C/BOWELL	12 <sup>h</sup> 11.5	-01°3	4	3	"
" "	6501	B118 etc.	9 <sup>h</sup> 58.7	+22°0	4	2	"
" "	6502	C/BOWELL	12 <sup>h</sup> 11.5	-01°3	4	3	"
" "	6503	1964VM1	13 <sup>h</sup> 09.0	-03°2	4	4	"
" "	6504	1976JF2	14 <sup>h</sup> 05.4	-01°4	4	4	"
" "	6505	1964VM1	13 <sup>h</sup> 09.0	-03°2	4	4	"
" "	6506	1976JF2	14 <sup>h</sup> 05.4	-01°4	4	4	"
" "	6507	C/MEIER	16 <sup>h</sup> 00.0	+23°0	4	3	"
31 MAR / 1 APR	6508	C/BOWELL	12 <sup>h</sup> 15 <sup>m</sup> .0	-02°6	4	4	BSKIFF
" "	6509	C/BOWELL	12 <sup>h</sup> 15.0	-02°6	4	4	"
4/5 APR	6510	B148	7 <sup>h</sup> 52 <sup>m</sup> .9	+28°3	4	4	BSKIFF
" "	6511	B148	7 <sup>h</sup> 52 <sup>m</sup> .9	+28°3	4	4	"
" "	6512	C/BOWELL	12 <sup>h</sup> 10°0	-01°6	4	4	"
" "	6513	1976YS1	12 <sup>h</sup> 35.9	-01°5	4	4	"
" "	6514	C/BOWELL	12 <sup>h</sup> 10°0	-01.6	4	4	"
" "	6515	1976YS1	12 <sup>h</sup> 35.9	-01°5	4	4	"
" "	6516	B172	13 <sup>h</sup> 03.1	-02.1	4	4	"
" "	6517	B161	13 <sup>h</sup> 41.1	-04.2	4	4	"
" "	6518	B172	13 <sup>h</sup> 03.1	-02.1	4	4	"
" "	6519	B161	13 <sup>h</sup> 41.1	-04.2	4	4	"
6/7 APR	6520	76YS1	12 <sup>h</sup> 34.7	-2°0	4	4	E. BOWELL
"	6521	"	"	"	"	3	"
8/9 APR	6522	B160, etc	12 <sup>h</sup> 05 <sup>m</sup> .1	-2°8	4	4	E. BOWELL
"	6523	B164, etc	12 <sup>h</sup> 29 <sup>m</sup> .2	-3°4	4	4	"
"	6524	B160, etc	12 <sup>h</sup> 05 <sup>m</sup> .1	-2°8	4	4	"
"	6525	B164, etc	12 <sup>h</sup> 29 <sup>m</sup> .2	-3°4	4	4	" Good night
9/10 APR	6526	B175 etc	12 <sup>h</sup> 57.0	-2°9	4	4	BSKIFF
"	6527	B161 etc	13 <sup>h</sup> 40.0	-3°9	4	4	"
"	6528	B175 etc	12 <sup>h</sup> 57.0	-2°9	4	4	"
"	6529	B161 etc	13 <sup>h</sup> 40.0	-3°9	4	4	"
22/23 Apr.	6530	Halley Req	9 <sup>h</sup> 50	-4°40'	Good	3	H. Giclas
"	6531	Pole	11 <sup>h</sup> 05	+90	"	"	"

DATE 1981	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
1/2 MAY	6532	B163 etc	12 <sup>h</sup> 02.0	-02.1	MODERATE	3	BSKIFF
"	6533	B148	08 <sup>h</sup> 14.5	+27.7	POOR	1	" some cloud
"	6534	B148	08 <sup>h</sup> 14.5	+27.7	POOR	1	" some cloud
"	6535	1981CA	11 <sup>h</sup> 04.4	+22.3	MODERATE	4	"
"	6536	B163 etc	12 <sup>h</sup> 02.0	-02.1	GOOD	4	"
"	6537	1981CA	11 <sup>h</sup> 04.4	+22.3	GOOD	4	"
2/3 MAY	6538	1981CB	10 <sup>h</sup> 44.0	+14.4	GOOD	2	BSKIFF
"	6539	B161 etc	13 <sup>h</sup> 21.4	-03.4	OK	3	" some cloud
"	6540	1981CB	10 <sup>h</sup> 44.0	+14.4	GOOD	2	" windy
"	6541	B161 etc	13 <sup>h</sup> 21.4	-03.4	GOOD	4	"
"	6542	91 etc	14 <sup>h</sup> 15.2	-13.8	"	4	"
"	6543	1975FW etc	14 <sup>h</sup> 47.1	-14.5	"	"	"
"	6544	91 etc	14 <sup>h</sup> 15.2	-13.8	"	"	"
"	6545	1975FW etc	14 <sup>h</sup> 47.1	-14.5	"	"	"
"	6546	659 etc	15 <sup>h</sup> 11.2	-20.0	"	"	"
"	6547	659 etc	15 <sup>h</sup> 11.2	-20.0	"	3	"
4/5 May	6548	SA 51	7 <sup>h</sup> 27 <sup>m</sup>	+30 <sup>o</sup>	Good	4	H. Giclas
"	6549	← Meyer 800	13 <sup>h</sup> 39 <sup>m</sup>	+16 10	"	"	"
"	6550	← BUS	14 47	-5 <sup>o</sup> 30'	"	"	"
"	6551	76GC8, etc	15 <sup>h</sup> 47.4	-20.1	S	3	E. Bowell
"	6552	"	"	"	"	"	"
"	6553	2270, etc	16 <sup>h</sup> 49.9	-22.7	S	3	"
"	6554	72TF2, B27	17 <sup>h</sup> 17.4	-17.8	"	"	"
"	6555	2270, etc	16 <sup>h</sup> 49.9	-22.7	"	"	"
"	6556	72TF2, B27	17 <sup>h</sup> 17.4	-17.8	S	4	"
7/8 MAY	6557	1975FX etc	14 <sup>h</sup> 41.8	-10.7	3	4	BSKIFF
"	6558	1972TF2	17 <sup>h</sup> 15.8	-17.7	3	3	"
"	6559	1975FX etc	14 <sup>h</sup> 41.8	-10.7	3	3	"
"	6560	1972TF2	17 <sup>h</sup> 15.8	-17.7	3	3	"
1/2 JUNE	6561	C/MEIER	12 <sup>h</sup> 42.0	+7.1	3	4	BSKIFF
"	6562	B161 etc	13 <sup>h</sup> 16.9	-2.3	3	4	"
"	6563	B205, B209	14 <sup>h</sup> 14.5	-12.5	3	4	"
"	6564	B161 etc	13 <sup>h</sup> 16.9	-2.3	3	4	"
"	6565	B205, B209	14 <sup>h</sup> 14.5	-12.5	3	4	" paddle malfunction
3/4 JUNE	6566	B204 etc	14 <sup>h</sup> 40.0	-11.1	4	3	BSKIFF
"	6567	B212 etc	14 <sup>h</sup> 46.0	-18.9	4	3	"
"	6568	B204 etc	14 <sup>h</sup> 40.0	-11.1	4	4	"
"	6569	B212 etc	14 <sup>h</sup> 46.0	-18.9	4	4	"
"	6570	B218 etc	15 <sup>h</sup> 17.	-19.4	4	4	"

DATE 1981	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
3/4 JUNE	6571	B219 etc	15 <sup>h</sup> 38 <sup>m</sup> .1	-18.5	4	3	BSKIFF
" "	6572	B218 etc	15 <sup>h</sup> 17.0	-19.4	4	3	BSKIFF
" "	6573	B219 etc	15 <sup>h</sup> 38.1	-18.5	4	3	"
" "	6574	"NEPTUNE ASTEROID"	17 <sup>h</sup> 22.7	-19.5	4	4	"
" "	6575	(395), 1974KB	19 <sup>h</sup> 57.5	-22.0	4	4	"
" "	6576	"NEPTUNE ASTEROID"	17 <sup>h</sup> 22.7	-19.5	4	4	"
" "	6577	(395), 1974KB	19 <sup>h</sup> 57.5	-22.0	4	4	"
4/5 JUNE	6578	(565), B166	12 <sup>h</sup> 03.1	-05.7	4	3	BSKIFF, new plateholder
" "	6579	(565), B166	12 <sup>h</sup> 03.1	-05.7	4	2	" " "
" "	6580	B224	16 <sup>h</sup> 13.2	-23.3	4	3	"
" "	6581	1965 WR etc	16 <sup>h</sup> 44.9	-23.5	4	3	" new plateholder
" "	6582	B224	16 <sup>h</sup> 13.2	-23.3	4	3	"
" "	6583	1965 WR etc	16 <sup>h</sup> 44.9	-23.5	4	3	"
" "	6584	B39	17 <sup>h</sup> 05.4	+4.4	4	4	"
" "	6585	1965 WR etc	16 <sup>h</sup> 44.9	-23.5	4	3	"
" "	6586	B39	17 <sup>h</sup> 05.4	+4.4	4	4	"
5/6 JUNE	6587	B35	20 <sup>h</sup> 16.9	-3.7	3	3	E. Bowell
"	6588	(395), 74KB	19 <sup>h</sup> 57.2	-22.1	4	2	"
"	6589	B35	20 <sup>h</sup> 16.9	-3.7	4	3	"
"	6590	(395), 74KB	19 <sup>h</sup> 57.2	-22.1	4	3	"
8/9 JUNE	6591	B205, B209	14 <sup>h</sup> 12.6	-12.0	5	4	E. Bowell
"	6592	B212, B214	14 <sup>h</sup> 42.9	-18.8	5	4	"
"	6593	B218, 220, 221, 223	15 <sup>h</sup> 10.0	-19.4	5	4	"
"	6594	B205, B209	14 <sup>h</sup> 12.6	-12.0	5	4	"
"	6595	B212, B214	14 <sup>h</sup> 42.9	-18.8	5	4	"
"	6596	B218, 220, 221, 223	15 <sup>h</sup> 10.0	-19.4	5	4	"
"	6597	B219, B222, B229, B231, B232, B233	15 <sup>h</sup> 34.0	-18.2	5	4	"
"	6598	"	"	"	5	4	"
"	6599	B225, B226, B227, B228	14 <sup>h</sup> 56.6	-22.1	5	4	"
"	6600	"	"	"	5	3	" Excellent night
22/23 JUNE	6601	B212, B214	14 <sup>h</sup> 41.2	-17.8	4	3	BSKIFF
"	6602	B182, 184	13 <sup>h</sup> 22.5	-03.6	4	3	"
"	6603	B182, 184	13 <sup>h</sup> 22.5	-03.6	4	3	"
"	6604	B204 etc	14 <sup>h</sup> 15.5	-09.2	4	3	"
"	6605	B212, B214	14 <sup>h</sup> 41.2	-17.8	4	3	"
"	6606	B204, etc	14 <sup>h</sup> 15.5	-09.2	4	2	"
23/24 JUNE	6607	B204 etc	14 <sup>h</sup> 16.3	-09.1	4	4	BSKIFF
"	6608	1741, B230	17 <sup>h</sup> 18.6	-24.4	4	3	"
"	6609	1967 J0	17 <sup>h</sup> 45.7	-26.7	4	3	"

DATE 1981	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER-REMARKS
23/24 JUNE	6610	B204, B205, B207	14 <sup>h</sup> 16 <sup>m</sup> .3	-09.1	4	4	BSKIFF
"	6611	1741, B230	17 <sup>h</sup> 18 <sup>m</sup> .6	-24.4	4	4	"
"	6612	1967JO, etc	17 <sup>h</sup> 45.7	-26.7	4	4	"
24/25 JUNE	6613	B219 etc	15 <sup>h</sup> 32.1	-16.0	3	4	BSKIFF
"	6614	(646), B217	16 <sup>h</sup> 14.7	-27.0	3	3	"
"	6615	(488) etc	18 <sup>h</sup> 22.9	-25.6	3	3	"
"	6616	B219, etc	15 <sup>h</sup> 32.1	-16.0	3	3	"
"	6617	(646), B217	16 <sup>h</sup> 14.7	-27.0	3	3	" cut short by clouds
28/29 JUNE	6618	(157), 1980DC	16 <sup>h</sup> 57.0	-33.3	3	2	BSKIFF some cloud
29/30 JUNE	6619	B204, B205, B207	14 <sup>h</sup> 22.9	-09.6	3	2	BSKIFF
2/3 JULY	6620	B204, B205, B207	14 <sup>h</sup> 18.8	-09.7	3	4	BSKIFF
"	6621	(157), 1980DC	16 <sup>h</sup> 53.5	-33.2	4	2	"
"	6622	(157), 1980DC	16 <sup>h</sup> 53.5	-33.2	4	2	"
"	6623	B204, B205, B207	14 <sup>h</sup> 18.8	-09.7	4	3	"
"	6624	(395) etc	19 <sup>h</sup> 41.3	-21.6	4	3	"
"	6625	B226	19 <sup>h</sup> 43.9	-31.0	4	1	" low altitude
"	6626	(395) etc	19 <sup>h</sup> 41.3	-21.6	4	3	"
"	6627	B226	19 <sup>h</sup> 43.9	-31.0	4	2	"
"	6628	1974MA (+0.6σ)	21 <sup>h</sup> 55.0	-23.0	4	3	"
"	6629	1974MA (+0.4σ)	22 <sup>h</sup> 20.0	-18.0	4	3	"
"	6630	1974MA (+0.6σ)	21 <sup>h</sup> 55.0	-23.0	4	3	"
"	6631	1974MA (+0.4σ)	22 <sup>h</sup> 20.0	-18.0	4	3	" good night
23/24 JULY	6632	B232	15 <sup>h</sup> 28.4	-16.4	3	4	BSKIFF
	6633	B230	16 <sup>h</sup> 53.5	-26.6	3	4	"
	6634	B232	15 <sup>h</sup> 28.4	-16.4	3	2	" very low
	6635	B230	16 <sup>h</sup> 53.5	-26.6	3	3	" " "
24/25 JULY	6636	786C	18 <sup>h</sup> 46.0	+29.2	4	4	E. Bawell
	6637	786C	18 <sup>h</sup> 46.0	+29.2	4	4	"
	6638	395, B225, B227	19 <sup>h</sup> 26.4	-28.2	4	3	"
	6639	B226	19 <sup>h</sup> 07.9	-37.8	4	2	"
	6640	395, B225, B227	19 <sup>h</sup> 26.4	-28.2	4	3	"
	6641	B226	19 <sup>h</sup> 07.9	-37.8	4	3	"
	6642	1772, B228, B237	19 <sup>h</sup> 19.8	-26.0	4	3	"
	6643	B35, B234	19 <sup>h</sup> 54.8	-6.7	4	4	"
	6644	1772, B228, B237	19 <sup>h</sup> 19.8	-26.0	4	4	"
	6645	B35, B234	19 <sup>h</sup> 54.8	-6.7	4	4	"
	6646	2100	0 <sup>h</sup> 19.6	+54.8	4	3	D. W. H.
	6647	2100	0 <sup>h</sup> 19.6	+54.8	4	3	D. W. H.
25/26 JUL	6648	B182	14 <sup>h</sup> 05.0	-1.8	4	4	E. Bawell
	6649	B182	14 <sup>h</sup> 05.0	-1.8	4	4	"

DATE 1981	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS	
25/26 JUL	6650	(488), 77HC	18 <sup>h</sup> 06 <sup>m</sup> .2	-26 <sup>o</sup> .7	4	4	E. DOWELL	
	6651	(1020)	18 <sup>h</sup> 52 <sup>m</sup> .5	-17 <sup>o</sup> .1	4	4		
	6652	(488), 77HC	18 <sup>h</sup> 06 <sup>m</sup> .2	-26 <sup>o</sup> .7	4	4		
	6653	(1020)	18 <sup>h</sup> 52 <sup>m</sup> .5	-17 <sup>o</sup> .1	4	4		
	6654	39BF, 75BU	20 <sup>h</sup> 09 <sup>m</sup> .3	-18 <sup>o</sup> .7	4	4		
	6655	(2078)	20 <sup>h</sup> 51 <sup>m</sup> .2	-1 <sup>o</sup> .2	4	4		
	6656	39BF, 75BU	20 <sup>h</sup> 09 <sup>m</sup> .3	-18 <sup>o</sup> .7	4	4		
	6657	(2078)	20 <sup>h</sup> 51 <sup>m</sup> .2	-1 <sup>o</sup> .2	4	4		
	6658	785P	21 <sup>h</sup> 36 <sup>m</sup> .4	-15 <sup>o</sup> .5	4	4		
	6659	74RV1, 77P21, 78RW1	22 <sup>h</sup> 06 <sup>m</sup> .3	-9 <sup>o</sup> .3	4	4		
	6660	785P	21 <sup>h</sup> 36 <sup>m</sup> .4	-15 <sup>o</sup> .5	4	4		
02/03 AUGUST	6661	74RV1, 77P21, 78RW1	22 <sup>h</sup> 06 <sup>m</sup> .3	-9 <sup>o</sup> .3	4	4	Good night	
	6662	(1583), B2J2	14 <sup>h</sup> 58 <sup>m</sup> .9	-10 <sup>o</sup> .9	3	4	BSKIFF some cloud, Moon	
	6663	B2J7	16 <sup>h</sup> 13 <sup>m</sup> .2	-28 <sup>o</sup> .0	4	3	moonset	
	6664	(1583), B2J2	14 <sup>h</sup> 58 <sup>m</sup> .9	-10 <sup>o</sup> .9	4	3		
	6665	B2J7	16 <sup>h</sup> 13 <sup>m</sup> .2	-28 <sup>o</sup> .0	4	3	pretty low	
	6666	(1465), 1976GX2	18 <sup>h</sup> 01 <sup>m</sup> .3	-07 <sup>o</sup> .8	4	4		
	6667	1980HB	19 <sup>h</sup> 46 <sup>m</sup> .3	+14 <sup>o</sup> .1	4	4		
	6668	(1465), 1976GX2	18 <sup>h</sup> 01 <sup>m</sup> .3	-07 <sup>o</sup> .8	4	3		
	6669	1980HB	19 <sup>h</sup> 46 <sup>m</sup> .3	+14 <sup>o</sup> .1	4	4		
	6670	1976UP20	20 <sup>h</sup> 35 <sup>m</sup> .1	-11 <sup>o</sup> .0	4	4		
	6671	76UH16, 77PY1	21 <sup>h</sup> 26 <sup>m</sup> .0	-01 <sup>o</sup> .0	4	4		
03/04 AUGUST	6672	1976UP20	20 <sup>h</sup> 35 <sup>m</sup> .1	-11 <sup>o</sup> .0	4	4		
	6673	76UH16, 77PY1	21 <sup>h</sup> 26 <sup>m</sup> .0	-01 <sup>o</sup> .0	4	4	fine skies	
	6674	1951RL	19 <sup>h</sup> 58 <sup>m</sup> .0	-33 <sup>o</sup> .2	4	3	BSKIFF	
	6675	1978SY2	20 <sup>h</sup> 30 <sup>m</sup> .8	-22 <sup>o</sup> .2	4	2		
	6676	1975EE3	20 <sup>h</sup> 40 <sup>m</sup> .9	+15 <sup>o</sup> .2	4	3		
	6677	1951RL	19 <sup>h</sup> 58 <sup>m</sup> .0	-33 <sup>o</sup> .2	3	3	some cloud	
	6678	1978SY2	20 <sup>h</sup> 30 <sup>m</sup> .8	-22 <sup>o</sup> .2	3	2	some cloud	
	6679	1975EE3	20 <sup>h</sup> 40 <sup>m</sup> .9	+15 <sup>o</sup> .2	3	2	some cloud	
	04/05 AUGUST	6680	B238	21 <sup>h</sup> 55 <sup>m</sup> .6	-19 <sup>o</sup> .5	4	3	BSKIFF
		6681	B241	21 <sup>h</sup> 52 <sup>m</sup> .3	-29 <sup>o</sup> .9	4	3	
		6682	B238	21 <sup>h</sup> 55 <sup>m</sup> .6	-19 <sup>o</sup> .5	4	3	
6683		B241	21 <sup>h</sup> 52 <sup>m</sup> .3	-29 <sup>o</sup> .9	4	3		
6684		B239, B240	22 <sup>h</sup> 21 <sup>m</sup> .9	-23 <sup>o</sup> .4	4	2		
6685		B239, B240	22 <sup>h</sup> 21 <sup>m</sup> .9	-23 <sup>o</sup> .4	4	2		
25/26 AUGUST	6686	198JQA	20 <sup>h</sup> 22 <sup>m</sup> .9	+01 <sup>o</sup> .8	2	3	BSKIFF drive motor rough	
	6687	198JQA	20 <sup>h</sup> 22 <sup>m</sup> .9	+01 <sup>o</sup> .8	3	3		
	6688	1973QV1 etc	21 <sup>h</sup> 51 <sup>m</sup> .2	-16 <sup>o</sup> .7	3	3		
	6689	1979DE	22 <sup>h</sup> 12 <sup>m</sup> .5	-20 <sup>o</sup> .1	3	3		



DATE 1981	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
25/26 August	6690	1973 QYL etc	21 <sup>h</sup> 51 <sup>m</sup> .2	-16.7	3	3	BSKIFF
"	6691	1979 DE	22 <sup>h</sup> 12 <sup>m</sup> .5	-20.1	3	3	Hi! Henry KING.
"	6692	Fast Asteroid	5 <sup>h</sup> 51.6	+27 30	Good	3	H.L. Giclas Crescent Moon
"	6693	"	"	"	"	"	"
26/27 August	6694	1939 BF, etc	19 <sup>h</sup> 47 <sup>m</sup> .4	-19.1	4	4	BSKIFF some lightning
	6695	(1565), (2105)	19 <sup>h</sup> 41 <sup>m</sup> .7	+13.7	4	4	
	6696	(1565), (2105)	19 <sup>h</sup> 41 <sup>m</sup> .7	+13.7	4	4	
	6697	1939 BF, etc	19 <sup>h</sup> 47 <sup>m</sup> .4	+13.7	4	4	
	6698	B238, B244, B258	21 <sup>h</sup> 23 <sup>m</sup> .0	-21.5	4	4	
	6699	B240, B245, B246	22 <sup>h</sup> 03 <sup>m</sup> .7	-28.0	5	4	
	6700	B238, B244, B258	21 <sup>h</sup> 23 <sup>m</sup> .0	-21.5	5	4	
	6701	B240, B245, B246	22 <sup>h</sup> 03 <sup>m</sup> .7	-28.0	5	4	beautiful night
27/28 August	6702	1981 QA	20 <sup>h</sup> 27 <sup>m</sup> .6	+01.6	3	4	BSKIFF
	6703	B248, B249, B253	20 <sup>h</sup> 12 <sup>m</sup> .2	-19.4	3	4	some lightning
	6704	1976 UH 16, B256, B257	21 <sup>h</sup> 00 <sup>m</sup> .2	-06.5	3	4	
	6705	1976 UH 16, B256, B257	21 <sup>h</sup> 00 <sup>m</sup> .2	-06.5	3	4	
	6706	B248, B249, B253	20 <sup>h</sup> 12 <sup>m</sup> .2	-19.4	3	3	pretty low
29/30 August	6707	(395), 70 AFI, B225	19 <sup>h</sup> 04 <sup>m</sup> .0	-16.2	3	3	BSKIFF
	6708	B235, B251	20 <sup>h</sup> 05 <sup>m</sup> .4	-08.2	3	4	
	6709	1981 QA	20 <sup>h</sup> 37 <sup>m</sup> .0	-00.2	4	4	
	6710	B258, B262	21 <sup>h</sup> 26 <sup>m</sup> .0	-25.0	4	3	
	6711	(395), 70 AFI, B225	19 <sup>h</sup> 04 <sup>m</sup> .0	-16.2	4	4	
	6712	B258, B262	21 <sup>h</sup> 26 <sup>m</sup> .0	-25.0	4	4	
	6713	B235, B251	20 <sup>h</sup> 05 <sup>m</sup> .4	-08.2	4	4	
	6714	B243, B259, B261	21 <sup>h</sup> 48 <sup>m</sup> .4	-17.8	4	4	
	6715	(975), 64 TAI, 78 CH	23 <sup>h</sup> 02 <sup>m</sup> .2	-42.2	4	4	
	6716	B243, B259, B261	21 <sup>h</sup> 48 <sup>m</sup> .4	-17.8	4	4	
	6717	(975), 64 TAI, 78 CH	23 <sup>h</sup> 02 <sup>m</sup> .2	-12.2	4	4	E. Bowell
	6718	(1043)	23 <sup>h</sup> 26 <sup>m</sup> .9	-8.7	4	4	
	6719	75 NY, 76 QGI, 77 UR	0 <sup>h</sup> 05 <sup>m</sup> .9	-2.2	4	4	
	6720	B38	1 <sup>h</sup> 40 <sup>m</sup> .1	-5.1	4	4	
	6721	(1043)	23 <sup>h</sup> 26 <sup>m</sup> .9	-8.7	4	4	
	6722	75 NY, 76 QGI, 77 UR	0 <sup>h</sup> 05 <sup>m</sup> .9	-2.2	4	4	
	6723	B38	1 <sup>h</sup> 40 <sup>m</sup> .1	-5.1	4	4	excellent night
30/31 Aug	6724	B255, B256	20 <sup>h</sup> 57 <sup>m</sup> .6	+1.8	3	4	E. Bowell
	6725	B238, B244	21 <sup>h</sup> 21 <sup>m</sup> .5	-19.7	3	4	
	6726	B255, B256	20 <sup>h</sup> 57 <sup>m</sup> .6	+1.8	3	4	clouds near end.
1/2 Sept.	6727	(942), B228	18 52.1	-29.8	Good	4	N. Thomas
	6728	<del>B248, B253</del>	<del>19, 59.5</del>	<del>-79.5</del>	"	"	(cloud interrupt the
	6729	81 7 B	21 32.1	-15.5	"	"	942 etc) N.T. E.B.

DATE 1981	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - (REMARKS)
1/2 Sept	6730	(442), B208	18 52.1	-29.8	Good	4	N. Thomas (clouds)
2/3 Sept	6731	B248, B253	19 59.5	-19.5	GOOD	3-2	N. Thomas
" "	6732	812A, B255, 256	20 54.0	0.0	"	4	"
" "	6733	B248, B253	19 59.5	-19.5	"	3	"
" "	6734	812A, B255, 256	20 54.0	0.0	"	4-3	"
" "	6735	B262 - B273	23 56.3	-2.3	"	3-4	"
" "	6736	Howell	0 35.1	-8.0	"	4	"
" "	6737	B262 - B273	23 56.3	-2.3	"	4	"
" "	6738	Howell	0 35.1	-8.0	"	4-5	"
3/4 Sept	6739	81PG	20 34.3	-14.24	fair-p	3-2	N. Thomas
" "	6740	81PG	"	"	"	"	"
" "	6741	812A, B257	20 53.3	-5.5	poor	3	" some cloud 511 to 521
" "	6742	812A, B257	"	"	fair	3	" some cloud 542 - 554
5/6 SEPTEMBER	6743	B241, B247	21 <sup>h</sup> 28 <sup>m</sup> .0	-32.3	3	3	BSKIFF fog on Lake Mead
	6744	(2161), 1932BH	01 <sup>h</sup> 05 <sup>m</sup> .7	-0.6	3	3	
	6745	B241, B247	21 <sup>h</sup> 28 <sup>m</sup> .0	-32.3	3	3	pretty low
	6746	(2162), 1976YX1	01 <sup>h</sup> 22 <sup>m</sup> .8	+08.5	4	4	
	6747	(1991), 1980KJ	01 <sup>h</sup> 32 <sup>m</sup> .7	+16.5	4	4	
	6748	(2161), 1932BH	01 <sup>h</sup> 05 <sup>m</sup> .7	-0.6	4	4	
	6749	(2162), 1976YX1	01 <sup>h</sup> 22 <sup>m</sup> .8	+08.5	4	4	objective fogged
	6750	(1991), 1980KJ	01 <sup>h</sup> 32 <sup>m</sup> .7	+16.5	4	4	objective fogged
9/10 SEPTEMBER	6751	comet suspect	01 <sup>h</sup> 58 <sup>m</sup> .0	+30.0	4	3	BSKIFF
	6752	comet suspect	01 <sup>h</sup> 58 <sup>m</sup> .0	+30.0	4	3	
21/22 SEPTEMBER	6753	C/Howell	00 <sup>h</sup> 19 <sup>m</sup> .0	-09.2	5	4	BSKIFF
	6754	C/STATTMEYER	01 <sup>h</sup> 40 <sup>m</sup> .8	+39.7	5	4	
24/25 SEPTEMBER	6755	T3, T14	20 <sup>h</sup> 15 <sup>m</sup> .0	-15.7	5	3	BSKIFF
	6756	B255, B256	20 <sup>h</sup> 47 <sup>m</sup> .0	-02.6	5	4	
	6757	B244, T39	20 <sup>h</sup> 55 <sup>m</sup> .7	-13.1	5	4	
	6758	B238, B261	21 <sup>h</sup> 28 <sup>m</sup> .6	-24.6	5	4	
	6759	T3, T14	20 <sup>h</sup> 15 <sup>m</sup> .0	-15.7	5	4	
	6760	B255, B256	20 <sup>h</sup> 47 <sup>m</sup> .0	-02.6	5	4	
	6761	B244, T39	20 <sup>h</sup> 55 <sup>m</sup> .7	-13.1	5	4	
	6762	B238, B261	21 <sup>h</sup> 28 <sup>m</sup> .6	-24.6	5	3	a little low
	6763	B262 etc	23 <sup>h</sup> 45 <sup>m</sup> .0	-0.8	5	4	midnight temp: 7°C
	6764	B263 etc	0 <sup>h</sup> 02 <sup>m</sup> .4	-4.3	5	4	
	6765	B262 etc	23 <sup>h</sup> 45 <sup>m</sup> .0	-0.8	5	4	
	6766	B263 etc	0 <sup>h</sup> 02 <sup>m</sup> .4	-4.3	2	4	clouds!
25/26 SEPTEMBER	6767	B235, B271-280	22 <sup>h</sup> 37 <sup>m</sup> .3	-13.6	4	4	
	6768	B281-286	23 <sup>h</sup> 03 <sup>m</sup> .2	-9.8	4	4	

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25/26 SEPTEMBER	6769	B263 etc	0 <sup>h</sup> 01 <sup>m</sup> .8	-4 <sup>o</sup> .2	4	4	BSKIFF
	6770	B235, B271-280	22 <sup>h</sup> 37 <sup>m</sup> .3	-13 <sup>o</sup> .6	4	4	
	6771	B281-B286	23 <sup>h</sup> 03 <sup>m</sup> .2	-9 <sup>o</sup> .8	4	4	
	6772	B263 etc	0 <sup>h</sup> 01 <sup>m</sup> .8	-4 <sup>o</sup> .2	5	4	midnight temp: 7 <sup>o</sup> C
	6773	T10, T11	0 <sup>h</sup> 17 <sup>m</sup> .1	-9 <sup>o</sup> .3	5	4	
	6774	(2162), 6AVY, 76XXI	1 <sup>h</sup> 12 <sup>m</sup> .2	+5 <sup>o</sup> .0	5	4	
	6775	T10, T11	0 <sup>h</sup> 17 <sup>m</sup> .1	-9 <sup>o</sup> .3	5	4	
	6776	(2162), 6AVY, 76XXI	1 <sup>h</sup> 12 <sup>m</sup> .2	+5 <sup>o</sup> .0	5	4	
27/28 SEPTEMBER	6777	B49	4 <sup>h</sup> 34 <sup>m</sup> .9	-4 <sup>o</sup> .9	5	4	BSKIFF 2am temp: 10 <sup>o</sup> C
	6778	B38, B270	1 <sup>h</sup> 28 <sup>m</sup> .0	-7 <sup>o</sup> .9	5	4	
	6779	B38, B270	1 <sup>h</sup> 28 <sup>m</sup> .0	-7 <sup>o</sup> .9	5	3	
	6780	B49	4 <sup>h</sup> 34 <sup>m</sup> .9	-4 <sup>o</sup> .9	5	4	
3/4 OCTOBER	6781	T3, T14	20 <sup>h</sup> 15 <sup>m</sup> .9	-15 <sup>o</sup> .8	4	4	BSKIFF
	6782	B235, B271-B280	22 <sup>h</sup> 33 <sup>m</sup> .5	-13 <sup>o</sup> .7	4	4	
	6783	T3, T14	20 <sup>h</sup> 15 <sup>m</sup> .9	-15 <sup>o</sup> .8	3	4	
	6784	B281-B286	22 <sup>h</sup> 58 <sup>m</sup> .1	-10 <sup>o</sup> .5	4	4	midnight temp: 4 <sup>o</sup> C
	6785	B235, B271-B280	22 <sup>h</sup> 33 <sup>m</sup> .5	-13 <sup>o</sup> .7	3	4	
	6786	B281-B286	22 <sup>h</sup> 58 <sup>m</sup> .1	-10 <sup>o</sup> .5	3	4	
	6787	(2162), 6AVY, 76XXI	1 <sup>h</sup> 04 <sup>m</sup> .1	+3 <sup>o</sup> .9	4	4	
	6788	B38, B270	1 <sup>h</sup> 23 <sup>m</sup> .5	-7 <sup>o</sup> .2	4	4	
	6789	(2162), 6AVY, 76XXI	1 <sup>h</sup> 04 <sup>m</sup> .1	+3 <sup>o</sup> .9	4	4	
	6790	B38, B270	1 <sup>h</sup> 23 <sup>m</sup> .5	-7 <sup>o</sup> .2	4	4	
4/5 OCTOBER	6791	B262 etc	23 <sup>h</sup> 35 <sup>m</sup> .5	-1 <sup>o</sup> .3	3	3	BSKIFF
	6792	B263, B267, T47	23 <sup>h</sup> 53 <sup>m</sup> .0	-4 <sup>o</sup> .8	4	3	midnight temp: 4 <sup>o</sup> C
	6793	B262 etc	23 <sup>h</sup> 35 <sup>m</sup> .5	-1 <sup>o</sup> .3	4	3	
	6794	B263, B267, T47	23 <sup>h</sup> 53 <sup>m</sup> .0	-4 <sup>o</sup> .8	4	3	
	6795	B49	4 <sup>h</sup> 36 <sup>m</sup> .0	-6 <sup>o</sup> .2	4	3	
	6796	B49	4 <sup>h</sup> 36 <sup>m</sup> .0	-6 <sup>o</sup> .2	4	4	
6/7 October	6797	52 Eur. Field	7 <sup>h</sup> 58 <sup>m</sup> .0	+19 <sup>o</sup> 10'	2-3	3-4	N. Thomas
	6798	"	8 <sup>h</sup> 22 <sup>m</sup> .0	+18 <sup>o</sup> 30'	"	"	"
	6799	OLD PLATE TEST SIRIUS FIELD	6 <sup>h</sup> 50	-23	"	"	"
18/19 Oct	6800	451 Pst. field	18 15	-29	3-4	2-3	N. Thomas
	6801	511 Davida	18 54	-26	4	3	"
	6802	65 Cybele	20 32	-17	3	3-4	"
	6803	1 Ceres Field	21 34	-28	4	3	"
	6804	" " "	22 04	-24 10	4	3	"
19/20 Oct	6805	451 Pst. Field	18 <sup>h</sup> 36	-28 <sup>o</sup>	3-4	3	"
	6806	511 Davida Field	19 <sup>h</sup> 12	-22	3-4	3	"
	6807	" " "	" 30	-19 <sup>o</sup> 30'	3-4	3	"
	6808	1 Ceres field	21 <sup>h</sup> 46	-22 <sup>o</sup> 45'	3-4	3-4	N. Thomas

DATE 1981	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
22/23 OCT	6809	451 Pat. entis field	18 <sup>h</sup> 52	-23°	3-4	3	N. Thomas
11 11	6810	65 Lybde field	20 6.5	-18°30	3-4	3	"
23/24 OCTOBER							midnight temp: 3°C
1/2 NOVEMBER	6811	FIELD A	0 <sup>h</sup> 34 <sup>m</sup> .4	+1.9	5	4	BSKIFF moonlight
	6812	FIELD B	0 <sup>h</sup> 47 <sup>m</sup> .2	+4.3	5	4	"
	6813	FIELD A	0 <sup>h</sup> 34 <sup>m</sup> .4	+1.9	5	4	Moonsset at end
	6814	FIELD B	0 <sup>h</sup> 47 <sup>m</sup> .2	+4.3	5	4	
	6815	FIELD B	0 <sup>h</sup> 47 <sup>m</sup> .2	+4.3	5	4	
	6816	FIELD AT OPPOSITION	2 <sup>h</sup> 28 <sup>m</sup> .2	+14.0	5	4	
	6817	FIELD C	4 <sup>h</sup> 24 <sup>m</sup> .0	-7.8	5	3	midnight temp: 1°C
	6818	FIELD AT OPPOSITION	2 <sup>h</sup> 28 <sup>m</sup> .2	+14.0	5	4	
	6819	FIELD C	4 <sup>h</sup> 24 <sup>m</sup> .0	-7.8	5	4	beautiful night
2/3 NOVEMBER	6820	fast-moving object	<del>02<sup>h</sup>45<sup>m</sup>.0</del> <sup>23<sup>h</sup></sup> 45 <sup>m</sup> .0	-15.0	5	3	BSKIFF moonlight
	6821	fast-moving object	<del>02<sup>h</sup>45<sup>m</sup>.0</del> <sup>23<sup>h</sup></sup> 45 <sup>m</sup> .0	-15.0	5	3	"
4/5 NOVEMBER	6822	FIELD OF OPPOSITION 2	2 <sup>h</sup> 26 <sup>m</sup> .3	+13.6	4	4	BSKIFF midnight temp: 3°C
	6823	FIELD OF OPPOSITION 2	2 <sup>h</sup> 26 <sup>m</sup> .3	+13.6	4	4	
7/8 NOVEMBER	6824	198JVA	2 <sup>h</sup> 42 <sup>m</sup> .0	+47.9	3	4	BSKIFF 3am temp: 0°C
	6825	198JVA	2 <sup>h</sup> 42 <sup>m</sup> .0	+47.9	3	4	
19/20 NOVEMBER	6826	ST2, ST3, ST6, ST7	0 <sup>h</sup> 34 <sup>m</sup> .4	+02.0	4	4	BSKIFF
	6827	B289, S21-25	2 <sup>h</sup> 09 <sup>m</sup> .2	+8.2	4	4	
	6828	ST2, ST3, ST6, ST7	0 <sup>h</sup> 34 <sup>m</sup> .4	+02.0	4	4	
	6829	B289, S21-25	2 <sup>h</sup> 09 <sup>m</sup> .2	+08.2	4	4	10pm temp: -2°C
23/24 NOVEMBER	6830	B288 etc	2 <sup>h</sup> 14 <sup>m</sup> .4	+15.5	4	4	BSKIFF
	6831	(1494) etc	3 <sup>h</sup> 23 <sup>m</sup> .0	+13.8	4	3	
	6832	B288 etc	2 <sup>h</sup> 14 <sup>m</sup> .4	+15.5	4	4	
	6833	(1494) etc	3 <sup>h</sup> 23 <sup>m</sup> .0	+13.8	4	3	
	6834	(1723) etc	3 <sup>h</sup> 38 <sup>m</sup> .5	+3.8	4	4	
	6835	T48 <sup>+</sup>	3 <sup>h</sup> 58 <sup>m</sup> .5	-9.5	4	3	
	6836	(1723) etc	3 <sup>h</sup> 38 <sup>m</sup> .5	+3.8	4	3	
	6837	T43	3 <sup>h</sup> 58 <sup>m</sup> .5	-9.5	4	4	
	6838	B90	5 <sup>h</sup> 00 <sup>m</sup> .2	+36.4	4	4	
	6839	1979FR2, B53	5 <sup>h</sup> 57 <sup>m</sup> .6	+25.5	4	4	
	6840	B90	5 <sup>h</sup> 00 <sup>m</sup> .2	+36.4	4	4	
	6841	1979FR2, B53	5 <sup>h</sup> 57 <sup>m</sup> .6	+25.5	4	4	
	6842	B47, B65	7 <sup>h</sup> 05 <sup>m</sup> .4	+23.8	4	4	
	6843	B81	7 <sup>h</sup> 13 <sup>m</sup> .8	+40.8	4	4	
	6844	B47, B65	7 <sup>h</sup> 05 <sup>m</sup> .4	+23.8	4	4	
	6845	B81	7 <sup>h</sup> 13 <sup>m</sup> .8	+40.8	4	4	
1/2 DECEMBER	6846	B289, S21-25	2 <sup>h</sup> 03 <sup>m</sup> .2	+7.3	4	2	BSKIFF moonlight
	6847	B288 etc	2 <sup>h</sup> 18 <sup>m</sup> .1	+15.4	4	2	moonlight

DATE 1981	PLATE NUMBER	OBJECT	RA	Dec	TRANS	SEEING	OBSERVER - REMARKS
21/2 DECEMBER	6848	B289, S21-25	2 <sup>h</sup> 03. <sup>m</sup> 2	+7. <sup>o</sup> 3	4	4	BSKIFF
	6849	B288 etc	2 <sup>h</sup> 11. <sup>m</sup> 1	+15. <sup>o</sup> 6	4	4	
	6850	(148A) etc	3 <sup>h</sup> 15. <sup>m</sup> 7	+14. <sup>o</sup> 0	4	3	
	6851	(1723), 1976 WBI	3 <sup>h</sup> 31. <sup>m</sup> 9	+3. <sup>o</sup> 5	4	3	light cirrus
	6852	(148A) etc	3 <sup>h</sup> 15. <sup>m</sup> 7	+14. <sup>o</sup> 0	2	3	" "
	6853	(1723), 1976 WBI	3 <sup>h</sup> 31. <sup>m</sup> 9	+3. <sup>o</sup> 5	3	3	
	6854	1979 FR2	5 <sup>h</sup> 50. <sup>m</sup> 7	+25. <sup>o</sup> 5	4	3	
	6855	1979 FR2	5 <sup>h</sup> 50. <sup>m</sup> 7	+25. <sup>o</sup> 5	4	3	
25/6 DECEMBER	6856	FMO	3 <sup>h</sup> 33. <sup>m</sup> 7	+8. <sup>o</sup> 8	4	4	BSKIFF moonlight
	6857	FMO	3 <sup>h</sup> 33. <sup>m</sup> 7	+8. <sup>o</sup> 8	4	4	moonlight
17/13 DECEMBER	6858	B300 etc	2 <sup>h</sup> 13. <sup>m</sup> 0	+16. <sup>o</sup> 2	2	4	BSKIFF cirrus
	6859	B297	2 <sup>h</sup> 16. <sup>m</sup> 2	+6. <sup>o</sup> 6	2	4	"
	6860	B314, B317	3 <sup>h</sup> 14. <sup>m</sup> 2	+5. <sup>o</sup> 7	2	4	"
	6861	B300 etc	2 <sup>h</sup> 13. <sup>m</sup> 0	+15. <sup>o</sup> 2	2	4	"
	6862	B297	2 <sup>h</sup> 16. <sup>m</sup> 2	+6. <sup>o</sup> 6	2	4	"
	6863	B314, B317	3 <sup>h</sup> 14. <sup>m</sup> 1	+5. <sup>o</sup> 7	2	4	"
19/20 DECEMBER	6864	B302 etc	3 <sup>h</sup> 05. <sup>m</sup> 2	+14. <sup>o</sup> 3	4	4	BSKIFF
	6865	(560)	4 <sup>h</sup> 39. <sup>m</sup> 3	+15. <sup>o</sup> 6	4	4	
	6866	B330 etc	5 <sup>h</sup> 39. <sup>m</sup> 6	+27. <sup>o</sup> 2	4	4	
	6867	(560)	4 <sup>h</sup> 39. <sup>m</sup> 3	+15. <sup>o</sup> 6	4	4	
	6868	B302 etc	3 <sup>h</sup> 05. <sup>m</sup> 2	+14. <sup>o</sup> 3	4	4	
	6869	B330 etc	5 <sup>h</sup> 39. <sup>m</sup> 8	+27. <sup>o</sup> 2	4	4	
	6870	(730) etc	6 <sup>h</sup> 41. <sup>m</sup> 7	+22. <sup>o</sup> 3	4	4	
	6871	B58, B96	7 <sup>h</sup> 34. <sup>m</sup> 4	+41. <sup>o</sup> 6	4	4	cirrus?
	6872	(730) etc	6 <sup>h</sup> 41. <sup>m</sup> 7	+22. <sup>o</sup> 3	3	4	some cirrus
	6873	B58, B96	7 <sup>h</sup> 34. <sup>m</sup> 4	+41. <sup>o</sup> 6	3	4	" "
	6874	B41, B54	7 <sup>h</sup> 42. <sup>m</sup> 4	+14. <sup>o</sup> 0	2	4	thicker...
	6875	B41, B54	7 <sup>h</sup> 42. <sup>m</sup> 4	+14. <sup>o</sup> 0	2	4	overcast at end
29/30 DECEMBER	6876	B300 etc	2 <sup>h</sup> 17. <sup>m</sup> 2	+16. <sup>o</sup> 2	3	4	BSKIFF moonlight, breezy
	6877	B302 etc	3 <sup>h</sup> 07. <sup>m</sup> 3	+13. <sup>o</sup> 6	3	4	some cirrus
	6878	B330 etc	5 <sup>h</sup> 29. <sup>m</sup> 5	+27. <sup>o</sup> 2	3	3	<del>BSKIFF moonlight</del>
	6879	B300 etc	2 <sup>h</sup> 17. <sup>m</sup> 2	+16. <sup>o</sup> 2	3	3	Moonset at start
	6880	B302 etc	3 <sup>h</sup> 07. <sup>m</sup> 3	+13. <sup>o</sup> 6	3	3	
	6881	B330 etc	5 <sup>h</sup> 29. <sup>m</sup> 5	+27. <sup>o</sup> 2	3	3	

DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
13/14 January 1982	6882	SAD *	8 <sup>h</sup> 56	+26 05	good	4	N. Thomas - Hercules Field
	6883	"	"	"	"	4	"
	6884	"	"	"	"	"	"
	6885	"	"	"	"	"	"
15/16 JANUARY	6886	B302 etc	3 <sup>h</sup> 11.3	+12.9	4	3	BSKIFF scattered very
	6887	B330, B351	5 <sup>h</sup> 06.9	+26.6	4	3	light cirrus during
	6888	B302 etc	3 <sup>h</sup> 11.3	+12.9	4	4	twilight
	6889	78PA, 80TF	5 <sup>h</sup> 43.8	+17.8	4	4	
	6890	B330, B351	5 <sup>h</sup> 06.9	+26.6	4	4	10pm temp: -4°C
	6891	78PA, 80TF	5 <sup>h</sup> 43.8	+17.8	4	4	
	6892	1980PG	6 <sup>h</sup> 56.4	+40.2	4	4	
	6893	74QL, 80LB	7 <sup>h</sup> 03.4	+26.1	4	4	
	6894	1980PG	6 <sup>h</sup> 56.4	+40.2	4	4	
	6895	74QL, 80LB	7 <sup>h</sup> 03.4	+26.1	4	4	midnight temp: -5°C
17/18 JANUARY	6896	79PB, 80TOS	7 <sup>h</sup> 55.0	+8.7	5	4	BSKIFF strong wave cloud
	6897	1975VW3	7 <sup>h</sup> 57.2	+8.9	5	4	over Peaks, cirri illuminated
	6898	79PB, 80TOS	7 <sup>h</sup> 55.0	+8.7	5	5	by PHX lights; otherwise
	6899	1975VW3	7 <sup>h</sup> 57.2	+8.9	5	5	very clear
	6900	77QF4, B98	8 <sup>h</sup> 06.5	+23.4	5	5	midnight temp: -4°C
	6901	1977QX	8 <sup>h</sup> 10.2	+15.4	5	5	
	6902	77QF4, B98	8 <sup>h</sup> 06.5	+23.4	5	5	
	6903	1977QX	8 <sup>h</sup> 10.2	+15.4	5	4	2am temp: -4°C
	6904	B46 etc	8 <sup>h</sup> 59.9	+17.5	5.4	3	moonrise at start
	6905	1976YQ2 etc	9 <sup>h</sup> 07.5	+11.3	3	3	cirrus
	6906	B46 etc	8 <sup>h</sup> 59.9	+17.5	3	3	
	6907	1976YQ2 etc	9 <sup>h</sup> 07.5	+11.3	4	3	some improvement; windy
	6908	80VW, 80XM	10 <sup>h</sup> 28.3	+24.3	4	3	4am temp: -2°C
	6909	P Leo	10 <sup>h</sup> 31.1	+9.6	3	3	cirrus at end
	6910	80VW, 80XM	10 <sup>h</sup> 28.3	+24.3	2	2	here it comes
22/23 Jan	6911	Hercules Field	13 17.5	-13 49	4	3-2	N. Thomas T=9°F
	6912	" "	13 40.5	-15 00	4	3-2	"
	6913	Enkaimia Field	13 12	-29 30	4	3	"
	6914	Ceres Field	14 54	-11 20	4	3	" T=10°F
23/24 JANUARY	6915	1977RX7, etc	9 <sup>h</sup> 20.1	+9.7	4	3	BSKIFF
	6916	B86	9 <sup>h</sup> 21.6	+1.7	4	3	
	6917	(197), 1975W01	9 <sup>h</sup> 31.0	+28.6	4	3	midnight temp: -3°C
	6918	1977RX7, etc	9 <sup>h</sup> 20.1	+9.7	4	3	
	6919	B86	9 <sup>h</sup> 21.6	+1.7	4	3	
	6920	(197), 1975W01	9 <sup>h</sup> 31.0	+28.6	4	3	
	6921	(2357), 1976G88	9 <sup>h</sup> 56.2	+11.8	4	3	

DATE 1982	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
23/24 JANUARY	6922	$\rho$ LEONIS	10 <sup>h</sup> 31 <sup>m</sup> .2	+9 <sup>o</sup> .6	4	3	BSKIFF
	6923	1979QE, B104	11 <sup>h</sup> 33 <sup>m</sup> .0	-14 <sup>o</sup> .2	4	3	
	6924	(2357), 1976GBB	9 <sup>h</sup> 56 <sup>m</sup> .8	+11 <sup>o</sup> .8	4	3	3am temp: -4 <sup>o</sup> C
	6925	$\rho$ LEONIS	10 <sup>h</sup> 31 <sup>m</sup> .2	+9 <sup>o</sup> .6	4	3	
	6926	1979QE, B104	11 <sup>h</sup> 33 <sup>m</sup> .0	-14 <sup>o</sup> .2	4	3	
25/26 JANUARY	6927	Asteroid 704 Field	13 11.0	-29 40	4	3-4	N. Thomas
	6928	" " "	13 41.0	-31 12	4	3-4	4 a.m. T = 33 <sup>o</sup> F Hst?
	6929	Ceres Field	15 09.2	-9 18	4	3-2	
	6930	" "	15 35.6	-9 27	4	3	
29/30 JANUARY	6931	1976YQ2, etc	8 <sup>h</sup> 55 <sup>m</sup> .7	+12 <sup>o</sup> .1	5	3	BSKIFF very windy (NE)
	6932	1977RX7, etc	9 <sup>h</sup> 14 <sup>m</sup> .9	+9 <sup>o</sup> .9	5	3	midnight temp: -4 <sup>o</sup> C
	6933	(2357), 1976GBB	9 <sup>h</sup> 48 <sup>m</sup> .2	+12 <sup>o</sup> .0	5	3	
	6934	1976YQ2, etc	8 <sup>h</sup> 55 <sup>m</sup> .7	+12 <sup>o</sup> .1	5	3	
	6935	1977RX7, etc	9 <sup>h</sup> 14 <sup>m</sup> .9	+9 <sup>o</sup> .9	5	3	
	6936	(2357), 1976GBB	9 <sup>h</sup> 48 <sup>m</sup> .2	+12 <sup>o</sup> .0	5	3	
	6937	$\rho$ LEONIS	10 <sup>h</sup> 21 <sup>m</sup> .7	+13 <sup>o</sup> .8	5	3	2am temp: -6 <sup>o</sup> C
	6938	1982BB	10 <sup>h</sup> 45 <sup>m</sup> .7	+18 <sup>o</sup> .8	5	3	
	6939	1979QE, B104	11 <sup>h</sup> 31 <sup>m</sup> .5	-14 <sup>o</sup> .7	5	3	calm now
	6940	$\rho$ LEONIS	10 <sup>h</sup> 21 <sup>m</sup> .7	+13 <sup>o</sup> .8	5	3	4am temp: -7 <sup>o</sup> C
	6941	1982BB	10 <sup>h</sup> 45 <sup>m</sup> .7	+18 <sup>o</sup> .8	5	3	breeze resumes
	6942	1979QE, B104	11 <sup>h</sup> 31 <sup>m</sup> .5	-14 <sup>o</sup> .7	5	3	
30/31 JANUARY	6943	FMO	5 <sup>h</sup> 56 <sup>m</sup> .5	+43 <sup>o</sup> .1	3	4	BSKIFF moonlight and some cirrus
	6944	1979QL, 1980LB	6 <sup>h</sup> 49 <sup>m</sup> .7	+27 <sup>o</sup> .5	3	4	
	6945	FMO	5 <sup>h</sup> 55 <sup>m</sup> .5	+43 <sup>o</sup> .1	3	4	8pm temp: -4 <sup>o</sup> C
	6946	1979QL, 1980LB	6 <sup>h</sup> 49 <sup>m</sup> .7	+27 <sup>o</sup> .5	3	4	
	6947	1977QP4, B98	7 <sup>h</sup> 45 <sup>m</sup> .4	+20 <sup>o</sup> .8	3	4	
	6948	1975VW3	7 <sup>h</sup> 44 <sup>m</sup> .7	+36 <sup>o</sup> .7	3	4	10pm temp: -6 <sup>o</sup> C
	6949	1977QP4, B98	7 <sup>h</sup> 45 <sup>m</sup> .4	+20 <sup>o</sup> .8	3	4	
	6950	1975VM3	7 <sup>h</sup> 44 <sup>m</sup> .7	+36 <sup>o</sup> .7	2	4	cirrus generally thicker
	6951	B86	9 <sup>h</sup> 26 <sup>m</sup> .9	+2 <sup>o</sup> .2	2	4	Moonset during exposure
	6952	(197), 1975W01	9 <sup>h</sup> 35 <sup>m</sup> .3	+24 <sup>o</sup> .3	2	4	
	6953	B86	9 <sup>h</sup> 26 <sup>m</sup> .9	+2 <sup>o</sup> .2	2	4	
	6954	(197), 1975W01	9 <sup>h</sup> 35 <sup>m</sup> .3	+24 <sup>o</sup> .3	2	4	
31/1 FEBRUARY	6955	74 Field	13 17.0	-24 20	4-5	2-1	N. THOMAS, East wind
	6956	Ceres Field	15 13.8	-16 20	4-5	2-1	" " " "
13/14 Feb	6957	meridian focus plate	+20 <sup>o</sup>		4	3	E. BOWEN
19/20 FEBRUARY	6958	B374	7 <sup>h</sup> 18 <sup>m</sup> .6	+43 <sup>o</sup> .6	4	4	BSKIFF
	6959	B378	7 <sup>h</sup> 33 <sup>m</sup> .3	+34 <sup>o</sup> .4	4	4	8pm temp: +3 <sup>o</sup> C
	6960	B359-361	7 <sup>h</sup> 42 <sup>m</sup> .7	+22 <sup>o</sup> .7	4	4	
	6961	FMO	6 <sup>h</sup> 01 <sup>m</sup> .5	+45 <sup>o</sup> .1	4	4	

too tired  
that night

DATE 1982	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
19/20 FEBRUARY	6962	FMO	6 <sup>h</sup> 01. <sup>m</sup> 5	+45. <sup>o</sup> 1	3	4	BSKIFF
	6963	B374	7 <sup>h</sup> 18. <sup>m</sup> 6	+43. <sup>o</sup> 4	3	4	clouds spreading
	6964	B378	7 <sup>h</sup> 33. <sup>m</sup> 3	+34. <sup>o</sup> 4	3	4	10pm temp: -1°C
	6965	B359-361	7 <sup>h</sup> 42. <sup>m</sup> 7	+22. <sup>o</sup> 7	3	4	clearing
	6966	(2224) etc	8 <sup>h</sup> 39. <sup>m</sup> 4	+17. <sup>o</sup> 7	4	4	midnight temp: -1°C
	6967	(197)	9 <sup>h</sup> 09. <sup>m</sup> 3	+27. <sup>o</sup> 3	4	4	double exposure
	6968	(2224) etc	8 <sup>h</sup> 39. <sup>m</sup> 4	+17. <sup>o</sup> 7	4	4	
	6969	B384 etc	10 <sup>h</sup> 02. <sup>m</sup> 0	+17. <sup>o</sup> 6	4	4	
	6970	(1452) etc	11 <sup>h</sup> 17. <sup>m</sup> 0	+18. <sup>o</sup> 4	4	4	
	6971	B384 etc	10 <sup>h</sup> 02. <sup>m</sup> 0	+17. <sup>o</sup> 6	4	4	2Am temp: -2°C
	6972	(1452) etc	11 <sup>h</sup> 17. <sup>m</sup> 0	+18. <sup>o</sup> 4	4	4	
	6973	(1863)	12 <sup>h</sup> 16. <sup>m</sup> 2	+4. <sup>o</sup> 1	4	4	
	6974	(887)	13 <sup>h</sup> 52. <sup>m</sup> 6	+7. <sup>o</sup> 9	4	4	
	6975	C/HARTLEY (1982b,c)	13 <sup>h</sup> 07. <sup>m</sup> 8	-12. <sup>o</sup> 8	4	3	4Am temp: -2°C
	6976	(1863)	12 <sup>h</sup> 16. <sup>m</sup> 2	+4. <sup>o</sup> 1	4	3	
	6977	C/HARTLEY (1982b,c)	13 <sup>h</sup> 07. <sup>m</sup> 8	-12. <sup>o</sup> 8	4	3	
	6978	(887)	13 <sup>h</sup> 52. <sup>m</sup> 6	+7. <sup>o</sup> 9	4	4	Moonrise at end
	6979	C/BOWELL	17 <sup>h</sup> 19. <sup>m</sup> 6	-22. <sup>o</sup> 0	4	3	
20/21 FEBRUARY	6980	(197)	9 <sup>h</sup> 08. <sup>m</sup> 5	+27. <sup>o</sup> 5	4	5	BSKIFF double exposure
	6981	B373	9 <sup>h</sup> 01. <sup>m</sup> 6	+27. <sup>o</sup> 7	4	5	
	6982	B365 etc	8 <sup>h</sup> 59. <sup>m</sup> 7	+4. <sup>o</sup> 1	4	5	
	6983	B373	9 <sup>h</sup> 01. <sup>m</sup> 6	+27. <sup>o</sup> 7	4	5	10pm temp: +3°C
	6984	B365 etc	8 <sup>h</sup> 59. <sup>m</sup> 7	+4. <sup>o</sup> 1	4	5	
	6985	B367 etc	9 <sup>h</sup> 24. <sup>m</sup> 9	+15. <sup>o</sup> 3	4	5	
	6986	1980XM etc	10 <sup>h</sup> 15. <sup>m</sup> 5	+23. <sup>o</sup> 6	4	5	
	6987	B367 etc	9 <sup>h</sup> 24. <sup>m</sup> 9	+15. <sup>o</sup> 3	4	5	
	6988	1980XM etc	10 <sup>h</sup> 15. <sup>m</sup> 5	+23. <sup>o</sup> 6	4	5	midnight temp: +1°C
	6989	1976JQ2, B391	10 <sup>h</sup> 33. <sup>m</sup> 2	+17. <sup>o</sup> 1	4	5	
	6990	1971TZ, 1980RB1	11 <sup>h</sup> 57. <sup>m</sup> 0	-4. <sup>o</sup> 6	4	4	
	6991	1976JQ2, B391	10 <sup>h</sup> 33. <sup>m</sup> 2	+17. <sup>o</sup> 1	4	5	nice night
	6992	1971TZ, 1980RB1	11 <sup>h</sup> 57. <sup>m</sup> 0	-4. <sup>o</sup> 6	4	5	2Am temp: +1°C
27/28 FEBRUARY	6993	B367 etc	9 <sup>h</sup> 18. <sup>m</sup> 9	+15. <sup>o</sup> 7	2	5	BSKIFF fairly hazy
	6994	B384 etc	9 <sup>h</sup> 55. <sup>m</sup> 5	+18. <sup>o</sup> 3	2	5	midnight temp: -1°C
	6995	B367 etc	9 <sup>h</sup> 18. <sup>m</sup> 9	+15. <sup>o</sup> 7	2	5	
	6996	B384 etc	9 <sup>h</sup> 55. <sup>m</sup> 5	+18. <sup>o</sup> 3	23	5	a little clearer
	6997	1971TZ, 1980RB1	11 <sup>h</sup> 55. <sup>m</sup> 3	-9. <sup>o</sup> 5	3	5	
	6998	(887)	13 <sup>h</sup> 54. <sup>m</sup> 5	+10. <sup>o</sup> 5	3	5	
	6999	1971TZ, 1980RB1	11 <sup>h</sup> 55. <sup>m</sup> 5	-9. <sup>o</sup> 5	3	5	2Am temp: -1°C
	7000	(887)	13 <sup>h</sup> 54. <sup>m</sup> 5	+10. <sup>o</sup> 5	3	5	



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3/4 MARCH	7001	B367 etc	9 <sup>h</sup> 15 <sup>m</sup> .5	+16 <sup>o</sup> .3	4	4	BSKIFF moonlight
	7002	B384 etc	9 <sup>h</sup> 52 <sup>m</sup> .0	+18 <sup>o</sup> .5	4	4	
	7003	B367 etc	9 <sup>h</sup> 15 <sup>m</sup> .5	+16 <sup>o</sup> .3	4	3	
	7004	B384 etc	9 <sup>h</sup> 52 <sup>m</sup> .0	+18 <sup>o</sup> .5	4	3	2Am temp: -5 <sup>o</sup> C
	7005	(887) etc	13 <sup>h</sup> 54 <sup>m</sup> .3	+10 <sup>o</sup> .8	4	4	Moonset at end
	7006	T976JQ2 etc	10 <sup>h</sup> 24 <sup>m</sup> .0	+18 <sup>o</sup> .7	4	3	
	7007	FMO	13 <sup>h</sup> 33 <sup>m</sup> .7	+18 <sup>o</sup> .4	4	3	
	7008	T976JQ2 etc	10 <sup>h</sup> 24 <sup>m</sup> .0	+18 <sup>o</sup> .7	4	3	
	7009	FMO	13 <sup>h</sup> 33 <sup>m</sup> .7	+18 <sup>o</sup> .4	4	3	4Am temp: -4 <sup>o</sup> C
	7010	(887) etc	13 <sup>h</sup> 54 <sup>m</sup> .3	+10 <sup>o</sup> .8	4	4	
20/21 MAR	7011	B386, etc.	9 <sup>h</sup> 36 <sup>m</sup> .2	+20 <sup>o</sup> .6	4	4	E. BOWELL
	7012	B403-B405	10 <sup>h</sup> 59 <sup>m</sup> .0	+22 <sup>o</sup> .2	4	4	
	7013	(701), etc.	11 <sup>h</sup> 29 <sup>m</sup> .6	-5 <sup>o</sup> .4	4	4	
	7014	B386, etc.	9 <sup>h</sup> 36 <sup>m</sup> .2	+20 <sup>o</sup> .6	4	4	
	7015	B403-B405	10 <sup>h</sup> 59 <sup>m</sup> .0	+22 <sup>o</sup> .2	4	4	
	7016	(701), etc.	11 <sup>h</sup> 29 <sup>m</sup> .6	-5 <sup>o</sup> .4	4	4	
	7017	(1192), etc.	12 <sup>h</sup> 27 <sup>m</sup> .5	-9 <sup>o</sup> .3	4	4	
	7018	(1854), etc.	12 <sup>h</sup> 38 <sup>m</sup> .3	-1 <sup>o</sup> .3	4	4	
	7019	(1192), etc.	12 <sup>h</sup> 27 <sup>m</sup> .5	-9 <sup>o</sup> .3	4	4	
	7020	(1854), etc.	12 <sup>h</sup> 38 <sup>m</sup> .3	-1 <sup>o</sup> .3	4	4	
21/22 MARCH	7021	(1503), B427	11 <sup>h</sup> 19 <sup>m</sup> .5	-13 <sup>o</sup> .0	2	5	BSKIFF moderate cirrus
	7022	(567), B406	11 <sup>h</sup> 54 <sup>m</sup> .5	+10 <sup>o</sup> .9	2	5	midnight temp: -3 <sup>o</sup> C
	7023	(1503), B427	11 <sup>h</sup> 19 <sup>m</sup> .5	-13 <sup>o</sup> .0	2	4	
	7024	(567), B406	11 <sup>h</sup> 54 <sup>m</sup> .5	+10 <sup>o</sup> .9	2	5	
22/23 MARCH	7025	(682) etc	13 <sup>h</sup> 47 <sup>m</sup> .2	-5 <sup>o</sup> .4	3	4	BSKIFF some clouds
	7026	(682) etc	13 <sup>h</sup> 47 <sup>m</sup> .2	-5 <sup>o</sup> .4	3	4	2Am temp: -2 <sup>o</sup> C
27/28 MARCH	7027	B370, B419	9 <sup>h</sup> 08 <sup>m</sup> .1	+17 <sup>o</sup> .2	4	4	BSKIFF new plateholder
	7028	B405	11 <sup>h</sup> 00 <sup>m</sup> .2	-21 <sup>o</sup> .4	4	3	Moonset at start
	7029	(1503), B427	11 <sup>h</sup> 12 <sup>m</sup> .9	-13 <sup>o</sup> .0	4	3	10pm temp: 0 <sup>o</sup> C
	7030	B405	11 <sup>h</sup> 00 <sup>m</sup> .2	-21 <sup>o</sup> .4	4	3	
	7031	B370, B419	9 <sup>h</sup> 08 <sup>m</sup> .1	+17 <sup>o</sup> .2	3	4	new plateholder
	7032	(1503), B427	11 <sup>h</sup> 12 <sup>m</sup> .9	-13 <sup>o</sup> .0	3	3	
	7033	B436	12 <sup>h</sup> 47 <sup>m</sup> .2	+3 <sup>o</sup> .3	3	4	
	7034	B436	12 <sup>h</sup> 47 <sup>m</sup> .2	+3 <sup>o</sup> .3	3	4	damn! objective fogged
30/31 MARCH	7035	B436	12 <sup>h</sup> 34 <sup>m</sup> .4	+4 <sup>o</sup> .5	3	4	BSKIFF
	7036	T941FN etc	13 <sup>h</sup> 16 <sup>m</sup> .8	-13 <sup>o</sup> .7	3	4	
	7037	B436	12 <sup>h</sup> 34 <sup>m</sup> .4	+4 <sup>o</sup> .5	3	3	2Am temp: -4 <sup>o</sup> C
	7038	T941FN etc	13 <sup>h</sup> 16 <sup>m</sup> .8	-13 <sup>o</sup> .7	3	3	
	7039	(682) etc	13 <sup>h</sup> 46 <sup>m</sup> .5	-8 <sup>o</sup> .0	3	3	objective frosted

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31 MARCH/1 APRIL	7040	B407	13 <sup>h</sup> 53 <sup>m</sup> .3	+14.3	3	3	BSKIFF windy
	7041	B407	13 <sup>h</sup> 53 <sup>m</sup> .3	+14.3	3	3	2am temp: 0°C
	7042	C/BOWELL	18 <sup>h</sup> 00 <sup>m</sup> .3	-21.3	3	1	very low
12/13 APRIL	7043	(155), (134A), B405	10 <sup>h</sup> 53 <sup>m</sup> .9	+18.8	3	2	BSKIFF windy
	7044	(134) etc etc	11 <sup>h</sup> 18 <sup>m</sup> .5	-5.0	3	2	8am temp: 8°C
	7045	B386	9 <sup>h</sup> 49 <sup>m</sup> .3	+23.5	3	2	
	7046	B386	9 <sup>h</sup> 49 <sup>m</sup> .3	+23.5	3	2	10pm temp: 7°C
	7047	(155), (134A), B405	10 <sup>h</sup> 53 <sup>m</sup> .9	+18.8	3	2	
	7048	(134) etc etc	11 <sup>h</sup> 18 <sup>m</sup> .5	-5.0	3	2 3	Moons during exposure
13/14 APRIL	7049	(571) etc	12 <sup>h</sup> 07 <sup>m</sup> .4	-2.1	4	4	MWATT/BSKIFF
	7050	(146) etc	12 <sup>h</sup> 32 <sup>m</sup> .3	+10.7	4	4	
	7051	(571) etc	12 <sup>h</sup> 07 <sup>m</sup> .4	-2.1	3	4	thin cirrus
	7052	(146) etc	12 <sup>h</sup> 32 <sup>m</sup> .3	+10.7	3	4	midnight temp: 2°C
17/18 APRIL	7053	(671) etc	12 <sup>h</sup> 56 <sup>m</sup> .3	-12.3	4	3	BSKIFF
	7054	(1770) etc	13 <sup>h</sup> 16 <sup>m</sup> .4	-4.3	4	3	10pm temp: 5°C
	7055	(671) etc	12 <sup>h</sup> 56 <sup>m</sup> .3	-12.3	4	4	
	7056	(1770) etc	13 <sup>h</sup> 16 <sup>m</sup> .4	-4.3	4	3	
	7057	(288) etc	13 <sup>h</sup> 43 <sup>m</sup> .2	-4.7	4	3	
	7058	1974XX, B407	13 <sup>h</sup> 46 <sup>m</sup> .1	+13.4	4	3	midnight temp: 4°C
	7059	(288) etc	13 <sup>h</sup> 43 <sup>m</sup> .2	-4.7	4	3	
	7060	1974XX, B407	13 <sup>h</sup> 46 <sup>m</sup> .1	+13.4	4	3	
	7061	(451) etc	14 <sup>h</sup> 16 <sup>m</sup> .3	+7.5	4	4	
	7062	(56) etc	14 <sup>h</sup> 30 <sup>m</sup> .5	-9.9	4	4	
	7063	(451) etc	14 <sup>h</sup> 16 <sup>m</sup> .3	+7.5	4	4	2am temp: 2°C
	7064	(56) etc	14 <sup>h</sup> 30 <sup>m</sup> .5	-9.9	4	4	nice night
20/21 APRIL	7065	(455) etc	14 <sup>h</sup> 20 <sup>m</sup> .7	-1.6	4	2	BSKIFF strong E wind
	7066	B113, B122	14 <sup>h</sup> 40 <sup>m</sup> .4	+9.6	4	2	midnight temp: -4°C
	7067	(455) etc	14 <sup>h</sup> 20 <sup>m</sup> .7	-1.6	3	2	getting cloudy
	7068	B113, B122	14 <sup>h</sup> 40 <sup>m</sup> .4	+9.6	3	2	never mind
23/24 APRIL	7069	(51) etc	15 <sup>h</sup> 00 <sup>m</sup> .2	-5.5	4	4	BSKIFF
	7070	(180) etc	15 <sup>h</sup> 03 <sup>m</sup> .0	-15.5	4	3	
	7071	(51) etc	15 <sup>h</sup> 00 <sup>m</sup> .2	-5.5	4	4	2am temp: 1°C
	7072	(180) etc	15 <sup>h</sup> 03 <sup>m</sup> .0	-15.5	4	3	
	7073	(203) etc	17 <sup>h</sup> 30 <sup>m</sup> .8	-24.1	3	3	
	7074	(995) etc	16 <sup>h</sup> 14 <sup>m</sup> .0	-19.9	3	3	
	7075	(995) etc	16 <sup>h</sup> 14 <sup>m</sup> .0	-19.9	3	3	4am temp: 0°C
	7076	(203) etc	17 <sup>h</sup> 30 <sup>m</sup> .8	-24.1	3	3	
24/25 APRIL	7077	(571) etc	12 <sup>h</sup> 02 <sup>m</sup> .6	-4.0	4	4	BSKIFF/MWATT
	7078	(671) etc	12 <sup>h</sup> 53 <sup>m</sup> .2	-12.7	4	4	
	7079	(571) etc	12 <sup>h</sup> 02 <sup>m</sup> .6	-4.0	4	3	midnight temp: 2°C

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24/25 APRIL	7080	(671) etc	12 <sup>h</sup> 53 <sup>m</sup> .2	-12 <sup>o</sup> .9	4	4	BSKIFF/MWATT
	7081	(451) etc	14 <sup>h</sup> 17 <sup>m</sup> .4	+6 <sup>o</sup> .9	4	4	
	7082	(548) etc	15 <sup>h</sup> 32 <sup>m</sup> .9	-14 <sup>o</sup> .1	4	4	2am temp: 3°C
	7083	(451) etc	14 <sup>h</sup> 17 <sup>m</sup> .4	+6 <sup>o</sup> .9	4	4	
	7084	(548) etc	15 <sup>h</sup> 32 <sup>m</sup> .9	-14 <sup>o</sup> .1	4	3	
25/26 APRIL	7085	(1770) etc	13 <sup>h</sup> 18 <sup>m</sup> .0	-6 <sup>o</sup> .1	3	4	BSKIFF thin clouds
	7086	(288) etc	13 <sup>h</sup> 41 <sup>m</sup> .1	-4 <sup>o</sup> .2	3	4	
	7087	(1770) etc	13 <sup>h</sup> 17 <sup>m</sup> .0	-6 <sup>o</sup> .1	3	4	midnight temp: 5°C
	7088	(288) etc	13 <sup>h</sup> 41 <sup>m</sup> .1	-4 <sup>o</sup> .2	3	4	too cruddy
27/28 APRIL	7089	(56) etc	14 <sup>h</sup> 19 <sup>m</sup> .4	-9 <sup>o</sup> .2	4	5	BSKIFF
	7090	(455) etc	14 <sup>h</sup> 19 <sup>m</sup> .5	-1 <sup>o</sup> .1	4	5	
	7091	(56) etc	14 <sup>h</sup> 19 <sup>m</sup> .4	-9 <sup>o</sup> .2	4	5	
	7092	(455) etc	14 <sup>h</sup> 19 <sup>m</sup> .5	-1 <sup>o</sup> .1	4	4	2am temp: 5°C
	7093	B113, B122	14 <sup>h</sup> 34 <sup>m</sup> .8	+10 <sup>o</sup> .0	4	4	
	7094	(238) etc	15 <sup>h</sup> 47 <sup>m</sup> .6	-3 <sup>o</sup> .7	4	5	
	7095	B113, B122	14 <sup>h</sup> 34 <sup>m</sup> .8	+10 <sup>o</sup> .0	4	4	
	7096	(238) etc	15 <sup>h</sup> 47 <sup>m</sup> .6	-3 <sup>o</sup> .7	4	4	4am temp: 5.5°C
	7097	C/BOWELL	18 <sup>h</sup> 17 <sup>m</sup> .1	-22 <sup>o</sup> .2	4	3	nice night
19/20 MAY	7098	B445	12 <sup>h</sup> 37 <sup>m</sup> .0	-10 <sup>o</sup> .6	3	5	BSKIFF 8pm temp: 11°
	7099	B454	13 <sup>h</sup> 20 <sup>m</sup> .7	-3 <sup>o</sup> .9	3	5	
	<del>7100</del>	<del>B471</del>	<del>13<sup>h</sup> 54<sup>m</sup>.9</del>	<del>-7<sup>o</sup>.2</del>	<del>3</del>	<del>5</del>	10pm temp: 9°
	7101	B471	13 <sup>h</sup> 54 <sup>m</sup> .9	-7 <sup>o</sup> .2	3	5	
	<del>8001</del>	<del>B445</del>	<del>12<sup>h</sup> 37<sup>m</sup>.0</del>	<del>-10<sup>o</sup>.6</del>	<del>3</del>	<del>5</del>	
	7102	B445	12 <sup>h</sup> 37 <sup>m</sup> .0	-10 <sup>o</sup> .6	3	5	
	<del>8002</del>	<del>B454</del>	<del>13<sup>h</sup> 20<sup>m</sup>.7</del>	<del>-3<sup>o</sup>.9</del>	<del>3</del>	<del>5</del>	
	7103	B454	13 <sup>h</sup> 20 <sup>m</sup> .7	-3 <sup>o</sup> .9	3	5	
	<del>8003</del>	<del>B471</del>	<del>13<sup>h</sup> 54<sup>m</sup>.9</del>	<del>-7<sup>o</sup>.2</del>	<del>3</del>	<del>5</del>	midnight temp: 6°
20/21 MAY	7104	<del>B471</del> ANON	12 <sup>h</sup> 37 <sup>m</sup> .0	-10 <sup>o</sup> .6	3	5	BSKIFF 8pm temp: 13°
	7105	B445	12 <sup>h</sup> 37 <sup>m</sup> .0	-10 <sup>o</sup> .6	3	5	
	7106	ANON	12 <sup>h</sup> 13 <sup>m</sup> .7	-3 <sup>o</sup> .5	3	5	10pm temp: 10°
	7107	B465-66	14 <sup>h</sup> 50 <sup>m</sup> .8	-16 <sup>o</sup> .3	3	4	
	7108	B445	12 <sup>h</sup> 37 <sup>m</sup> .0	-10 <sup>o</sup> .6	3	5	
	7109	B465-66	14 <sup>h</sup> 50 <sup>m</sup> .8	-16 <sup>o</sup> .3	3	5	
	7110	W10, comet susp	15 <sup>h</sup> 55 <sup>m</sup> .0	-16 <sup>o</sup> .0	3	5	midnight temp: 9°
	7111	1979QL1 etc	15 <sup>h</sup> 50 <sup>m</sup> .9	-23 <sup>o</sup> .7	3	4	
	7112	W10, comet susp	15 <sup>h</sup> 55 <sup>m</sup> .0	-16 <sup>o</sup> .0	3	5	
	7113	1979QL1 etc	15 <sup>h</sup> 50 <sup>m</sup> .9	-23 <sup>o</sup> .7	3	4	
	7114	B152	17 <sup>h</sup> 18 <sup>m</sup> .1	-27 <sup>o</sup> .2	3	4	
	7115	C/BOWELL	18 <sup>h</sup> 19 <sup>m</sup> .0	-22 <sup>o</sup> .3	3	4	2am temp: 7°
	7116	B152	17 <sup>h</sup> 18 <sup>m</sup> .1	-27 <sup>o</sup> .2	3	4	pretty nice night
25/26 MAY	7117	B440, W1	11 <sup>h</sup> 59 <sup>m</sup> .2	-3 <sup>o</sup> .5	4	4	BSKIFF 8pm temp: 15°
	7118	B432	12 <sup>h</sup> 14 <sup>m</sup> .7	+7 <sup>o</sup> .6	4	4	moonlight
	7119	B469 etc	14 <sup>h</sup> 16 <sup>m</sup> .1	-6 <sup>o</sup> .8	4	4	10pm temp: 11°

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25/26 MAY	7120	B440, W1	11 <sup>h</sup> 59 <sup>m</sup> .2	-3.5	4	3	BSKIFF moonset during exp
	7121	B432	12 14.7	+7.6	4	3	
	7122	B469 etc	14 16.2	-6.8	4	4	midnight temp: 10°
	7123	B462 etc	15 10.2	-14.4	4	4	
	7124	1978TB7	15 23.4	-1.1	4	4	
	7125	B462 etc	15 10.2	-14.4	4	4	
	7126	1978TB7	15 23.4	-1.1	4	4	
	7127	B152	17 14.0	-27.1	4	3	2Am temp: 9°
	7128	B152	17 14.0	-27.1	4	3	good night
27/28 MAY	7129	(56)	14 10.0	-5.0	3	3	BSKIFF Moonlight, windy
	7130	W10 etc	15 48.4	-17.9	3	3	midnight temp: 6°
	7131	1979QL1 etc	15 43.7	-23.3	3	3	
	7132	W10 etc	15 48.4	-17.9	3	3	
	7133	1979QL1 etc	15 43.7	-23.3	3	2	
	7134	1926FG	17 34.0	-13.9	3	2	2Am temp: 6°
	7135	FIELD A	19 02.0	-21.6	3	2	
	7136	1926FG	17 34.0	-13.9	3	2	
	7137	FIELD A	19 02.0	-21.6	3	2	
16/17 JUNE	7138	B470	13 59.6	-07.7	3	4	BSKIFF some clouds
	7139	B462-464	14 53.7	-11.5	3	4	10pm temp: 16°
	7140	W17-27	15 52.3	-21.5	3	4	
	7141	B470	13 59.6	-07.7	3	3	
	7142	B462-464	14 53.7	-11.5	3	3	midnight temp: 13°
	7143	W17-27	15 52.3	-21.5	3	3	
17/18 JUNE	7144	B462-464	14 54.3	-11.3	4	4	BSKIFF
	7145	B482, W10	15 39.5	-13.0	4	4	10pm temp: 14°
	7146	B212	17 09.0	-10.0	4	4	
	7147	B462-464	14 54.3	-11.3	4	4	
	7148	B482, W10	15 39.5	-13.0	4	4	
	7149	B212	17 09.0	-10.0	4	4	midnight temp: 12°
18/19 JUNE	7150	B471, B475	13 46.0	-8.0	3	3	BSKIFF
	7151	B152	16 49.8	-25.8	3	3	10pm temp: 11°
	7152	B471, B475	13 46.0	-8.0	3	3	
	7153	B152	16 49.8	-25.8	3	3	
	7154	1938GC, 1978R25	17 43.5	-15.2	3	3	
	7155	B232	17 39.5	-31.4	3	3	midnight temp: 10°
	7156	1938GC, 1978R25	17 43.5	-15.2	3	3	
	7157	<del>B152</del> B232	18 39.8	-21.4	3	3	
	7158	B184	18 38.2	-26.2	3	3	
	7159	AGK 121 1949	19 14.1	+21.3	3	4	3 exposures
	7160	B184	18 38.2	-26.2	3	3	2Am temp: 8°

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19/20 JUNE	7161	B465, B481	14 <sup>h</sup> 31.7	-18.3	2	4	BSKIFF	
	7162	B465, B481	14 31.7	-18.3	4	3	10pm temp: 13°	
	7163	C/BOWELL	18 11.1	-22.5	4	3		
	7164	AGK +21° 1949	19 14.1	+21.3	4	3	3 midnight temp: 12° 3 exposures	
20/21 JUNE	7165	(699)	19 51.7	+1.1	3	5	BSKIFF midnight temp: 12°	
	7166	(1370), B7	19 16.2	-28.7	3	3		
	7167	(699)	19 51.7	+1.1	3	5		
	7168	(1370), B7	19 16.2	-28.7	3	3	2AM temp: 11°	
9/10 JULY	7169	B482	15 36.5	-15.1	5	4	BSKIFF	
	7170	1952UX1, 1973UX5	15 46.0	-22.8	5	4	10am temp: 16°	
	7171	B482	15 36.5	-15.1	4	3	Moonrise during exposure	
10/12 JULY						10pm temp: 19°		
11/12 JULY	7172	1952UX1, 1973UX5	15 44.5	-22.9	5	3	BSKIFF	
	7173	C/BOWELL	18 01.9	-22.7	5	3	10pm temp: 18°	
	7174	1952UX1, 1973UX5	15 44.5	-22.9	5	3		
14/15 JULY	7175	C/HARTLEY	16 50.2	-5.7	4	4	BSKIFF	
	7176	B203	19 24.0	+0.6	4	4		
	7177	C/HARTLEY	16 50.2	-5.7	4	4	10pm temp: 18°	
	7178	B203	19 24.0	+0.6	4	4		
	7179	1978RD6 etc	19 59.0	+6.1	4	4		
	7180	1978RD6 etc	19 59.0	+6.1	4	4	midnight temp: 15°	
	16/17 JULY	7181	1977PW1, T37	19 55.7	-19.0	3	4	BSKIFF lightning
		7182	2563P-L, etc	20 25.5	-18.0	3	3	
7183		1977PW1, T37	19 55.7	-19.0	3	3	midnight temp: 16°	
7184		2563P-L etc	20 25.5	-18.0	3	4		
7185		(662) etc	21 23.9	-14.5	3	3		
7186		(1136) etc	21 42.8	+4.6	3	4		
7187		(662) etc	21 23.9	-14.5	4	4		
7188		(1136) etc	21 42.8	+4.6	4	4	2AM temp: 14°	
7189		(67) etc	22 24.0	-2.7	4	4	Moonrise at end	
7190		(67) etc	22 24.0	-2.7	4	4	4AM temp: 14°	
23/24 JULY	7191	B483	21 20.8	-18.2	3	3	BSKIFF	
	7192	FMO etc	22 18.3	-6.1	3	3	midnight temp: 14°	
	7193	B483	21 20.8	-18.2	4	3		
	7194	FMO etc	22 18.3	-6.1	4	4		
	7195	(765) etc	22 46.9	-9.8	4	4	2AM temp: 13°	
	7196	1978RRS	23 20.7	-20.0	81	3	some clouds	
	7197	(765) etc	22 46.9	-9.8	2	3	more clouds	
16/17 AUGUST	7198	C/BOWELL	18 02.4	-23.0	3	4		
	7199	(2216) etc	19 48.2	-16.5	3	4	BSKIFF 8pm temp: 18°	
	7200	(1568) etc	20 39.6	-12.3	3	4	10pm temp: 16°	

DATE 1982	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
16/17 AUGUST	7201	(2216) etc	19 <sup>h</sup> 48.2	-16.5	3	4	BSKIFF clouds
	7202	(1568) etc	20 39.7	-12.3	3	4	clouds midnight temp 15°
25/26 AUGUST	7203	(1568) etc	20 32.4	-12.3	3	4	BSKIFF some moon
	7204	(2185) etc	21 24.8	-29.7	3	3	pretty low
	7205	<del>(1568) etc</del>	<del>20 32.4</del>	<del>-12.3</del>	<del>3</del>	<del>3</del>	midnight temp: 11°
	7206	<del>(2185) etc</del>	<del>21 24.8</del>	<del>-29.7</del>	<del>3</del>	<del>3</del>	
	7207	(96) etc	21 54.6	-11.4	3	4	2am temp: 11°
	7208	(29) etc	23 36.4	-6.0	4	4	objective fogged
12/13 SEPTEMBER	7209	C/BOWELL	18 11.8	-23.2	4	4	BSKIFF 8pm temp: 9°
	7210	B489	21 39.0	-10.5	4	4	
	7211	B110	21 55.2	+15.4	4	4	
	7212	(2469) etc	22 21.4	-9.3	2	4	clouds
	7213	B489	21 39.0	-10.5	3	4	clouds at start. 10pm: 8°
	7214	B110	21 55.2	+15.4	4	4	clouds again, forget it
14/15 SEPTEMBER	7215	(2469) etc	22 18.7	-9.0	4	4	BSKIFF 8pm temp: 10°
	7216	1978RF etc	22 45.5	-8.5	4	4	
	7217	(2469) etc	22 18.7	-9.0	4	4	
	7218	1978RF etc	22 45.5	-8.5	4	4	10pm temp: 8°
	7219	(2128) etc	23 22.7	-6.2	4	4	
	7220	B161	23 47.5	-13.8	4	4	
	7221	(2128) etc	23 22.7	-6.2	4	4	
	7222	B161	23 47.5	-13.8	4	4	midnight temp: 7°
	7223	(2234) etc	0 08.4	-0.4	4	4	
	7224	1975RB	23 59.1	+13.2	4	4	
	7225	(1011) etc	1 54.0	+1.2	4	4	
	7226	(2234) etc	0 08.4	-0.4	4	4	
	7227	1975RB	23 59.1	+13.2	4	4	2AM temp: 6.5°
	7228	(2494) etc	1 07.8	+21.8	4	4	
	7229	(1011) etc	1 54.0	+1.2	4	4	
	7230	(2494) etc	1 07.8	+21.8	4	4	
20/21 SEPTEMBER	7231	SHOEMAKER FMO	19 55.5	-10.6	4	4	BSKIFF 8pm temp: 15°
	7232	SHOEMAKER FMO	19 55.5	-10.6	4	4	both with driving plateholder
	7233	B110	21 47.0	+15.1	4	4	
	7234	1978UC etc	22 38.0	-6.4	4	4	10pm temp: 13°
	7235	B492-496	23 19.3	-4.6	4	3	
	7236	B110	21 47.0	+15.1	4	3	
	7237	1978UC etc	22 38.0	-6.4	3	3	some clouds
	7238	B492-496	23 19.3	-4.6	3	3	more clouds
21/22 SEPTEMBER	7239	C/AUSTIN	12 47.6	+39.0	4	3	BSKIFF twilight/moonlight
	7240	C/AUSTIN	12 47.6	+39.0	4	3	twilight/moonlight

DATE 1982	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
21/22 SEPTEMBER	7241	SHOEMAKER FMO	19 <sup>h</sup> 53.0	-9.1	4	4	BSKIFF 8am temp: 15°
	7242	SHOEMAKER FMO	19 53.0	-9.1	4	4	moonlight
	7243	B492-496	23 18.6	-4.8	4	4	Moonset during exposure
	7244	B161 etc	23 41.0	-10.3	4	3	
	7245	SHOEMAKER FMO	19 52.5	-9.0	4	3	10pm temp: 13°
	7246	B492-496	23 18.6	-4.8	4	4	
	7247	B161 etc	23 41.0	-10.3	4	4	
	7248	B498	23 44.0	+1.2	4	4	
	7249	1972RX3, B17	0 18.5	-13.0	4	4	
	7250	B498	23 44.0	+1.2	4	4	
	7251	1972RX3, B17	0 18.5	-13.0	4	4	midnight temp: 12.5°
	7252	(2433) etc	0 49.0	+5.8	4	4	
	7253	1981JC, JU2	1 06.5	+12.2	4	4	
	7254	(1011) etc	1 56.6	+6.8	4	4	
	7255	(2433) etc	0 49.0	+5.8	4	4	
	7256	1981JC, JU2	1 06.5	+12.2	4	4	2am temp: 11.5°
	7257	(1011) etc	1 56.6	+6.8	4	4	
	7258	P/Churyumov-G	3 52.5	+12.6	4	4	weak aurora
	7259	P/Churyumov-G	3 52.5	+12.6	4	4	4am temp: 11.5°
25/26 SEPTEMBER	7260	HELIN FMO3	23 43.4	+9.7	3	3	BSKIFF midnight temp:
	7261	HELIN FMO3	23 43.4	+9.7	3	3	both driven
8/9 OCTOBER	7262	C/BOWELL	18 34.8	-23.2	4	2	BSKIFF 7am temp: 3.5°
	7263	B531-533	23 27.8	-0.1	4	3	
	7264	B509-512 etc	23 21.7	-12.7	4	3	8pm temp: 2°
	7265	B531-533	23 27.8	-0.1	4	3	
	7266	B509-512 etc	22 21.7	-12.7	4	3	10pm temp: -0.5°
10/11 OCTOBER	7267	(629) etc	23 44.1	-12.7	4	3	BSKIFF 8am temp: 2°
	7268	(13) etc	0 09.6	-15.8	4	3	
	7269	(2412) etc	0 45.7	+14.3	4	3	
	7270	(629) etc	23 44.1	-12.7	4	3	10pm temp: 1.5°
	7271	(13) etc	0 09.6	-15.8	4	3	
	7272	(2412) etc	0 45.7	+14.3	4	3	
12/13 OCTOBER	7273	HELIN FMO	23 43.8	-0.7	4	4	BSKIFF some vthin clouds
	7274	HELIN FMO	23 43.8	-0.7	4	4	midnight temp: 0°
	7275	(1413) etc	1 31.5	+0.3	4	4	no clouds?
	7276	(1457) etc	1 56.8	+18.2	4	4	
	7277	(1413) etc	1 31.5	+0.3	4	4	
	7278	(1457) etc	1 56.8	+18.2	4	4	
	7279	(55) etc	2 33.6	+20.2	4	4	
	7280	(7530) etc	2 43.2	+28.2	4	4	2am temp: 0°

DATE 1982	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
12/13 OCTOBER	7281	(55) etc	2 <sup>h</sup> 33 <sup>m</sup> .6	+20° 2	4	4	BSKIFF
	7282	(1530) etc	2 43.2	+28.2	4	4	nice night
16/17 OCTOBER	7283	C/BOWELL B531-533	18 41.7	-23.1	4	4	BSKIFF 7pm temp: 10°
	7284	<del>B509-512 etc</del>	23 25.8	- 1.0	4	4	
	7285	B509-512 etc	23 19.0	-13.2	4	3	8pm temp: 10°
	7286	B498, B523	23 44.0	-12.8	4	3	
	7287	1982TA	23 27.7	- 1.1	4	4	driven
	7288	1982TA	23 27.7	- 1.1	4	4	driven
	7289	B531-533	23 25.8	- 1.0	4	4	10pm temp: 7°
	7290	B509-512 etc	23 19.0	-13.2	4	4	
	7291	B498, B523	23 44.0	-12.8	4	4	
	7292	(160) etc	1 16.0	+ 9.2	4	4	
	7293	B501-503 etc	1 28.0	+ 0.2	4	4	midnight temp: 7.5°
	7294	(160) etc	1 16.0	+ 9.2	4	4	motor failure
20/21 OCTOBER	7295	B519 etc	0 36.2	+13.8	4	4	BSKIFF 8pm temp: 7.5°
	7296	1982TA	23 11.6	-1.9	4	4	driven
	7297	1982TA	23 11.6	-1.9	4	4	driven
	7298	B17, B525-529	0 2.9	-15.9	4	4	10pm temp: 5°
	7299	B519 etc	0 36.2	+13.8	4	4	
	7300	B17, B525-529	0 2.9	-15.9	4	4	
	7301	B501-503 etc	1 24.3	- 0.4	4	4	
	7302	(481) etc	1 56.3	- 0.6	4	4	
	7303	B501-503 etc	1 24.3	- 0.4	4	4	midnight temp: 3.5°
	7304	(481) etc	1 56.3	- 0.6	4	4	
	7305	(525) etc	2 36.0	+11.8	4	5	
	7306	(141) etc	2 46.1	+ 1.8	4	5	
	7307	(525) etc	2 36.0	+11.8	4	5	
	7308	(141) etc	2 46.1	+ 1.8	4	5	2am temp: 3°
22/23 Oct.	7309	← 1982 g	5 <sup>h</sup> 27.3	+21 26	Good -	5	H. Giolas
23/24 OCTOBER	7310	(160) etc	1 09.7	+ 8.5	3	4	BSKIFF 10am temp: 10°
	7311	1982TA	22 55.9	- 2.4	3	4	driven cloudy most of the night
	7312	1982TA	22 55.9	- 2.4	3	4	driven
	7313	(160) etc	1 09.7	+ 8.5	3	4	12am temp: 8.5°
	7314	B220, B551	1 33.6	+11.0	3	4	
	7315	B549 etc	1 48.6	+21.4	3	4	
	7316	B220, B551	1 33.6	+11.0	3	4	
	7317	B549 etc	1 48.6	+21.4	3	4	
	7318	(168) etc	3 11.0	+ 1.5	3	4	2am temp: 7.5°
	7319	(877)	3 59.6	+13.3	3	4	
	7320	(168) etc	3 11.0	+ 1.5	3	4	



DATE 1982	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
23/24 OCTOBER	7321	(871)	3 <sup>h</sup> 59.6	+13.3	3	4	BSKIFF 4am temp: 7°
14/15 NOVEMBER	7322	C/BOWELL	19 14.6	-22.1	4	4	BSKIFF 6pm temp: -1°
	7323	1982 TA	20 59.1	- 2.5	4	4	driven
	7324	1982 TA	20 59.1	- 2.5	4	4	driven
	7325	1980 DC, B533	23 27.7	- 0.1	4	4	8pm temp: -3°
	7326	B547 etc	1 01.2	+ 1.4	4	5	
	7327	(2526) etc	1 01.3	+ 9.5	4	4	
	7328	1980 DC, B533	23 27.7	- 0.1	4	4	clouds threatening
	7329	B547 etc	1 01.2	+ 1.4	4	4	10pm temp: -4°
	7330	(2526) etc	1 01.3	+ 9.5	4	4	
	7331	(1323) etc	2 02.5	+10.8	4	4	
	7332	(774) etc	3 13.8	+18.6	4	4	
	7333	(1323) etc	2 02.6	+10.8	4	4	
	7334	(774) etc	3 13.8	+18.6	4	4	midnight temp: -3.5°
	7335	(403) etc	4 45.3	+18.4	4	4	
	7336	(500), B33	5 17.1	+36.4	4	4	
	7337	(403) etc	4 45.3	+18.4	5 → 4	4	
	7338	(500), B33	5 17.1	+36.4	5	4	
	7339	(72) etc	6 37.1	+20.4	5	4	2am temp: -3°
	7340	(665) etc	6 46.9	+38.8	5	4	
	7341	1977 JT, B256	7 43.0	+18.1	5 → 4	4	
	7342	(72) etc	6 37.1	+20.4	3	5	clouds
	7343	(665) etc	6 46.9	+38.8	3	5	4am temp: -2°. motor cuts
11/12 DECEMBER	7344	1940 UP, 1970 AF1	3 13.1	+17.8	5	5	BSKIFF 10pm: -1°
	7345	1978 TM7 etc	3 41.6	+ 9.8	5	5	
	7346	1940 UP, 1970 AF1	3 13.1	+17.8	5	5	
	7347	1978 TM7 etc	3 41.6	+ 9.8	5	5	midnight: -4°. guide scope frosted
12/13 DECEMBER	7348	B552	1 23.5	+20.2	5	4	BSKIFF
	7349	(942) etc	1 49.5	+ 6.5	5	4	8pm: -3°
	7350	(1683)	2 49.5	+35.5	5	4	
	7351	B552	1 23.5	+20.2	5	4	
	7352	(942) etc	1 49.5	+ 6.5	5	4	
	7353	(1683)	2 49.5	+35.5	5	4	10pm: -3°. everything frosted
13/14 DECEMBER	7354	(2550), B30	3 08.3	+ 2.3	5	2	BSKIFF 10pm: -4° windy
	7355	1976 GN3, 1978 UQ2	4 05.6	+26.0	5	2	
	7356	(2277), 1980 DS	5 19.1	+13.5	5	2	nearly calm
	7357	(2550), B30	3 08.3	+ 2.3	5	2	
	7358	1976 GN3, 1978 UQ2	4 05.7	+26.0	5	3	midnight: -7°
	7359	(2277), 1980 DS	5 19.1	+13.5	5	3	
	7360	1974 RV1, 1981 J62	5 17.3	+23.7	5	3	

DATE 1982/83	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
13/14 DECEMBER	7361	1959VF, 1981QU2	6 <sup>h</sup> 51.8	+23.2	5	3	BSKIFF
	7362	1974RV1, 1981JG2	5 47.3	+23.7	5	3	
	7363	1959VF, 1981QU2	6 51.8	+23.2	5	3	2am: -9.5
	7364	1977JP, B256	7 47.6	+15.7	5	4	
	7365	(1477)	9 20.9	+25.4	5	4	
	7366	1977JP, B256	7 47.6	+15.7	5	4	4am: -10°
	7367	(1477)	9 20.9	+25.4	5	4	6am: -9°
14/15 DECEMBER	7368	B56A	0 52.0	+8.7	4	4	BSKIFF 6pm: -1°
	7369	(2609), 1938SD1	3 28.4	+26.6	4	4	
	7370	(2612), 1964VE	3 08.2	-11.0	4	3	
	7371	B56A	0 52.0	+8.7	4	4	8pm: -4.5
	7372	(2609), 1938SD1	3 28.4	+26.6	4	4	
	7373	(2612), 1964VE	3 08.2	-11.0	4	4	
15/16 DECEMBER	7374	1964XA	3 28.8	+56.0	5	4	BSKIFF
	7375	1948PK	5 38.1	+40.5	5	4	midnight: -4°
	7376	1964XA	3 28.8	+56.0	5	4	
	7377	1948PK	5 38.1	+40.5	5	4	
	7378	(2531) etc	7 16.1	+20.1	5	4	
	7379	(2531) etc	7 16.1	+20.1	5	4	2am: -4°
	7380	(2546)	7 16.1	+32.6	5	4	
	7381	(2525)	9 29.5	+17.1	5	4	
	7382	(2546)	7 16.1	+32.6	4	4	some clouds
	7383	(2525)	9 29.5	+17.1	3	4	4am: -3.5
16/17 DECEMBER	7384	HELIN FMO <sup>=82XB</sup>	3 13.3	+33.0	2	3	BSKIFF driven, 3 exposures
	7385	HELIN FMO	3 13.3	+33.0	2	3	driven [8pm: 2 <sup>nd</sup> ] 3 exposures
	7386	HELIN FMO	3 13.3	+33.0	2	3	driven, 3 exposures
19/20 DECEMBER	7387	1982XB	4 00.0	+42.9	5	5	BSKIFF driven, 3 exposures
	7388	1982XB	4 00.0	+42.9	5	5	driven, 3 exposures. 8pm: 0.5
	7389	1982XB	4 00.0	+42.9	5	5	driven, 3 exposures. 12am: -1°
	7390	1979DF	7 25.3	+43.8	5	5	
	7391	1979DF	7 25.3	+43.8	5	5	fine night
3/4 JANUARY	7392	B605	4 51.8	+16.6	3	4	BSKIFF 6pm: -1°, clouds
	7393	B613	6 48.0	+41.3	3	4	some clouds 8pm: -4.5
	7394	1982YA	5 48.0	-7.2	4	4	driven
	7395	1982YA	5 48.0	-7.2	4	4	driven
	7396	B605	4 51.8	+16.6	4	4	10pm: -5°
	7397	B613	6 48.0	+41.3	4	4	
4/5 JANUARY	7398	1982XB	10 09.7	+50.3	4	4	BSKIFF driven
	7399	1982XB	10 09.7	+50.3	4	4	driven nice night
5/6 JANUARY	7400	82YA	5 <sup>h</sup> 51.7	-3.9	5	4	driven. E. BOWELL

DATE 1983	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
5/6 JANUARY	7401	82YA	5 <sup>h</sup> 51 <sup>m</sup> .7	-3° 9'	5	4	E. BOWELL, driven
	7402	82XB	10 <sup>h</sup> 13 <sup>m</sup> .9	+50° 0'	5	5	Driven
	7403	82XB	10 <sup>h</sup> 13 <sup>m</sup> .9	+50° 0'	5	5	Driven
6/7 JANUARY	7404	(147) etc	3 30.7	+18.3	4	5	BSKIFF
	7405	(125) etc	5 06.2	+16.6	4	4	
	7406	(2231), (2537)	5 45.0	+38.2	4	4	8pm: 1°
	7407	(147) etc	3 30.7	+18.3	4	4	some clouds
	7408	(125) etc	5 06.2	+16.6	3	4	
	7409	(2231), (2537)	5 45.0	+38.2	3	4	
8/9 JANUARY	7410	(172) etc	7 00.8	+32.8	4	4	BSKIFF 8pm: 3°
	7411	(927) ... B673	7 05.0	+42.1	4	4	
	7412	(172) etc	7 00.8	+32.8	4	4	
	7413	(927) etc	7 05.0	+42.1	4	4	
	7414	(170) etc	7 25.0	+27.5	4	3	
	7415	B611	7 30.3	+51.6	4	3	10pm: 0°
	7416	(170) etc	7 25.0	+27.5	4	3	
	7417	B611	7 30.3	+51.6	4	3	
	7418	(38) etc	7 54.6	+23.1	5	3	
	7419	(63) etc	8 44.0	+20.7	5	3	midnight: 2°
	7420	(38) etc	7 54.6	+23.1	5	3	
	7421	(63) etc	8 44.0	+20.7	5	3	
	7422	(115) etc	9 19.6	+14.5	5	3	
	7423	(71) etc	9 50.5	+17.4	5	3	
	7424	(130) etc	10 22.8	+9.1	5	3	2am: 3°
	7425	(115) etc	9 19.6	+14.5	5	3	
	7426	(599) etc	9 59.5	+33.3	5	3	
	7427	(71) etc	9 50.5	+17.4	5	3	clouds?
	7428	(130) etc	10 22.5	+9.1	5	2	4am: 0° clouds
	7429	(599) etc	9 59.5	+33.3	5	3	clouds
11/12 JANUARY	7430	C/JOHNSTON (1982a)	23 11.6	- 6.6	5	4	BSKIFF driven. windy
	7431	C/JOHNSTON (1982a)	23 11.6	- 6.6	5	4	driven
	7432	(809), (1107), (2760)	7 43.7	+37.8	5	4	
	7433	(84) etc	7 52.4	+31.6	5	4	10pm: 1°
	7434	(806), (1106), (2760)	7 43.7	+37.8	5	4	
	7435	(84) etc	7 52.4	+31.6	5	4	
	7436	(52) etc	8 06.8	+15.4	5	4	
	7437	(79) etc	8 25.8	+7.3	5	4	
	7438	(52) etc	8 06.8	+15.4	5	4	
	7439	(79) etc	8 25.8	+7.3	5	4	midnight: -1°
	7440	(137) etc	9 04.2	+2.3	5	4	

DATE 1983	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
11/12 JANUARY	7441	(520), (1540)	9 <sup>h</sup> 19 <sup>m</sup> .4	+30.9	5	4	BSKIFF
	7442	(137) etc	9 04.2	+2.3	5	4	
	7443	(520), (1540)	9 19.4	+30.9	5	4	
	7444	(235) etc	10 39.8	+22.8	5	4	2Am: -1.5
	7445	(213) etc	9 33.8	+2.9	5	4	
	7446	1982XB	10 51.2	+43.7	5	4	driven
	7447	53 LEONIS	10 47.6	+10.8	5	4	
	7448	(213) etc	9 33.8	+2.9	5	4	
	7449	(235) etc	10 39.8	+22.8	5	4	4Am: -2°
	7450	53 LEONIS	10 47.6	+10.8	5	4	
15/16 JANUARY	7451	(1378) etc	6 57.8	+31.1	4	4	BSKIFF 8am: -1°
	7452	B615, B616	7 <del>04.6</del>	+38.7	4	4	
	7453	(1378) etc	6 57.8	+31.1	4	4	
	7454	B615, B616	7 04.6	+38.7	5	4	
	7455	(2190) etc	7 13.9	+24.1	5	5	
	7456	(2278) etc	7 46.1	+23.1	5	5	10pm: -0.5
	7457	(2190) etc	7 13.9	+24.1	5	5	
	7458	(2278) etc	7 46.1	+23.1	5	5	
	7459	S45, S46	7 40.0	+37.9	5	5	
	7460	1982XB	11 01.9	+41.0	5	5	driven, midnight: -1°
	7461	S45, S46	7 40.0	+37.9	5	5	beautiful night
20/21 JANUARY	7462	B626 etc	6 51.0	+29.0	3	5	BSKIFF moonlight strong
	7463	(639) etc	7 08.6	+21.5	3	5	10pm: -9°
	7464	B626 etc	6 51.0	+29.0	3	5	
	7465	(639) etc	7 08.6	+21.5	3	5	
	7466	(530) etc	7 31.8	+16.4	3	5	
	7467	S45-S48	7 43.6	+38.0	3	5	Moonset during exposure midnight: -10.5
	7468	(530) etc	7 31.8	+16.4	3	5	some clouds
	7469	S45-S48	7 43.6	+38.0	3	5	
	7470	B617 etc	7 44.0	+28.9	3	4	
	7471	S51-S55	7 59.6	+15.6	3	4	
	7472	B617 etc	7 44.0	+28.9	4	4	
	7473	S51-S55	7 59.6	+15.6	4	4	2Am: -11°
21/22 JANUARY	7474	S56-S59	8 16.2	+9.3	3	4	BSKIFF some moonlight
	7475	T81	9 02.0	+8.9	4	4	dark now
	7476	S56-S59	8 16.2	+9.3	4	4	
	7477	T81	9 02.0	+8.9	4	4	2Am: -10°
	7478	T82	9 02.0	+30.9	4	4	
	7479	(537) etc	10 26.7	+16.7	4	4	
	7480	T82	9 02.0	+30.9	4	4	

DATE 1983	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
21/22 JANUARY	7481	T84, T85	10 <sup>h</sup> 30. <sup>m</sup> 5	+28.9	4	4	BSKIFF
	7482	(537) etc	10 26.7	+16.7	4	4	4am: -8.5
	7483	T84, T85	10 30.5	+28.9	4	4	los endos!
10/11 FEBRUARY	7484	B615, B616	6 35.2	+41.7	4	4	BSKIFF 7pm: -0.5
	7485	(170), S36	6 51.8	+22.3	4	4	8pm: -1°
	7486	S44	7 17.8	+11.1	4	4	
	7487	B615, B616	6 35.2	+41.7	4	4	
	7488	S44	7 17.8	+11.1	4	5	
	7489	(170), S36	6 51.8	+22.3	4	5	
	7490	B617 etc	7 47.3	+30.5	4	5	10pm: -2.5
	7491	S52, S58	7 51.2	+22.9	4	5	
	7492	B617 etc	7 47.3	+30.5	4	5	
	7493	S52, S58	7 51.2	+22.9	4	5	
	7494	(745), T88	9 35.7	+21.4	4	5	
	7495	1964 TR2 etc	10 00.5	+18.0	4	5	midnight: -3°
	7496	(745), T88	9 35.7	+21.4	4	5	
	7497	1964 TR2 etc	10 00.5	+18.0	4	5	BSKIFF
11/15 FEBRUARY	7498	S 38	6 40.0	+32.0	4	5	BSKIFF
	7499	B617, S40	7 18.9	+31.0	4	5	
	7500	B634, S47	7 20.9	+39.0	4	5	8pm: -1°
	7501	B617, S40	7 18.9	+31.0	5	5	
	7502	S 38	6 40.0	+32.0	5	5	
	7503	B634, S47	7 20.9	+39.0	5	5	
	7504	B624 etc	7 30.8	+19.8	5	5	10pm: -2°
	7505	B619 etc	7 56.3	+12.1	5	5	
	7506	B624 etc	7 30.8	+19.8	5	5	
	7507	B619 etc	7 56.3	+12.1	5	5	
	7508	(745) etc (W)	9 17.4	+20.8	5	5	
	7509	(745) etc (E)	9 44.4	+20.8	5	5	
	7510	(745) etc (W)	9 17.4	+20.8	5	5	midnight: -3°
	7511	(745) etc (E)	9 44.4	+20.8	5	5	
	7512	B327 etc	10 16.2	+13.1	5	4	
	7513	B 326	10 49.2	+12.2	5	4	
	7514	B 327 etc	10 16.2	+13.1	5	4	
	7515	B 326	10 49.2	+12.2	5	4	2am: -4.5
	7516	1935OK, 1981VL2	11 19.3	- 2.6	5	4	
	7517	(1727)	13 41.2	+16.7	5	4	
	7518	1935OK, 1981VL2	11 19.3	- 2.6	5	4	
	7519	(1727)	13 41.2	+16.7	5	4	
	7520	P	14 21.4	+ 5.0	5	4	4am: -4.5

DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS	
17/18 FEBRUARY	7521	B634, S47	7 <sup>h</sup> 19. <sup>m</sup> 1	+39. <sup>s</sup> 2	3	5	BSKIFF cloudy, Moonlight	
	7522	B617 etc	7 42.7	+30.5	3	5	8pm: 2° too cloudy	
18/19 FEBRUARY	7523	(745) etc (W)	9 10.2	+21.0	3	3	BSKIFF Moonlight	
	7524	(745) etc (E)	9 35.9	+21.0	4	3		
	7525	196ATR2 etc	9 52.0	+18.0	4	3	Moonset during exposure	
	7526	(745) etc (W)	9 10.2	+21.0	4	4	midnight: -3.5	
	7527	(745) etc (E)	9 35.9	+21.0	4	4		
	7528	196ATR2 etc	9 52.0	+18.0	4	4		
	7529	(196), B280	10 32.0	+20.2	4	4		
	7530	(1620)	11 22.3	+11.8	4	4		
	7531	(196), B280	10 32.0	+20.2	4	3	2am: -4.5	
	7532	(1620)	11 22.3	+11.8	4	4		
	7533	P	14 12.1	+5.0	4	4	nice night	
	8/9 MARCH	7534	(489)	6 27.6	+11.0	3	5	BSKIFF
		7535	(377)	6 55.5	+14.1	3	5	
7536		S42, S50	7 28.1	+30.8	3	5	8pm: 3.5	
7537		P/Bowell-Skiff etc	9 09.5	+20.0	3	5		
7538		B661	9 31.4	+26.6	3	5		
7539		S42, S50	7 28.1	+30.8	3	5		
7540		P/Bowell-Skiff etc	9 09.5	+20.0	3	5	10pm: 0°	
7541		B661	9 31.4	+26.6	4	5		
7542		B664 - B669	10 59.2	+11.8	4	5		
7543		B226	11 30.3	+52.9	4	5		
7544		B664 - B669	10 59.2	+11.8	4	4		
7545		B226	11 30.3	+52.8	4	3	midnight: -0.5	
7546		(2223) etc	12 29.2	-10.9	4	2	worst seeing "ever" (~15")	
7547		B344	13 00.5	+18.5	4	3		
9/10 MARCH		7548	(1036)	10 07.2	-18.6	4	4	BSKIFF 8pm: 5°
		7549	1981VL2 etc	11 02.7	+ 2.6	4	4	10pm: 4°
		7550	(1036)	10 07.2	-18.6	4	4	
	7553	1981VL2 etc	11 02.7	+ 2.6	4	4		
	7554	(346)	11 39.1	+16.1	4	4		
	7555	1980RM2	11 48.8	+ 1.8	4	4		
	7556	(346)	11 39.1	+16.1	4	4	midnight: 3.5	
	7557	1980RM2	11 48.8	+ 1.8	4	4		
	7548	(2223) etc	12 29.2	-10.9	4	2		
	7549	B344	13 00.5	+ 2.6	4	3		
15/16 MARCH	7558	B633	7 47.9	+12.3	4	3	BSKIFF 8pm: -3.5	
<del>15/16 MARCH</del>	7559	B664 - B669	10 53.5	+12.1	4	3		
	7560	B633	7 47.9	+12.3	4	3	10pm: -5°	

pair not recorded on 8/9 MARCH

DATE 1983	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
15/16 MARCH	7561	B664-B669	10 <sup>h</sup> 53.5	+12.1	4	3	BSKIFF
	7562	1981VL2 etc	10 56.8	+ 2.8	4	3	
	7563	(346)	11 33.7	+16.8	4	3	
	7564	1981VL2 etc	10 56.8	+ 2.8	4	3	
	7565	(346)	11 33.7	+16.8	4	3	
	7566	(2390), B42	11 42.8	- 6.1	4	3	midnight: -6°
	7567	(2316), (2500)	12 42.6	+ 1.6	4	3	
	7568	(2390), B42	11 42.8	- 6.1	4	3	
	7569	(2316), (2500)	12 42.6	+ 1.6	4	3	
16/17 MARCH	7570	P/BOWELL-SKIFF	9 19.0	+16.9	4	5	BSKIFF
	7571	1980RM2	11 42.2	+ 1.9	4	4	
	7572	P/BOWELL-SKIFF	9 19.0	+16.9	4	5	10pm: -3°
	7573	1980RM2	11 42.2	+ 1.9	4	4	
	7574	(2363), 1981UL	11 57.5	-20.1	4	4	
	7575	(2363), 1981UL	11 57.5	-20.1	4	4	midnight: -4°
	7576	1980TB5	13 22.2	-19.0	4	3	
	7577	1980TB5	13 22.2	-19.0	4	3	
3/4 APRIL	7578	B673	10 13.3	+18.0	4	3	E Barr - BSKIFF
	7579	T103	10 21.0	+10.8	4	3	
	7580	E7	12 40.0	+20.9	4	3	
	7581	B673	10 13.3	+18.0	4	3	10pm: 1°
9/10 APRIL	7582	T103	10 15.7	+11.0	4	4	BSKIFF windy
	7583	E1-E3	11 23.5	+ 2.7	4	4	10pm: 1°
	7584	E4-E6	11 23.5	+ 5.7	4	4	
	7585	T103	10 15.7	+11.0	4	4	clouds approaching from W
	7586	E1-E3	11 23.5	+ 2.7	3	4	
	7587	E4-E6	11 23.5	- 5.7	3	4	midnight: 0°
17/18 APRIL	7588	E8-E11	12 10.8	+ 3.3	4	5	BSKIFF 8pm: 7.5 Moonlight
	7589	B344, E7	12 25.0	+20.8	4	5	
	7590	E8-E11	12 10.8	+ 3.3	4	5	
	7591	B344, E7	12 25.0	+20.8	4	5	
	7592	(1646), (2569), (2600)	12 50.0	+ 11.4	4	5	10pm: 5°
	7593	(2106) etc	13 39.2	- 3.0	4	5	
	7594	(1646), (2569), (2600)	12 50.0	+ 11.4	4	5	
	7595	(2106) etc (2659), 1980VK1	13 39.2 <del>50.3</del>	- 3.0 <del>11.4</del>	4	5	Moonset during exposure
	7596	(2659), 1980VK1	13 50.3	-11.1	5	5	
	7597	(369) etc	14 26.3	- 0.3	5	4	midnight: 3.5
	7598	(2659), 1980VK1	13 50.3	-11.1	5	4	
	7599	(369) etc	14 26.3	- 0.3	5	4	clouds approaching
18/19 APRIL	7600	(612), B315	14 28.2	- 7.3	4	4	BSKIFF some clouds

DATE 1983	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
4/19 APRIL	7601	B 383	14 <sup>h</sup> 38.8 <sup>m</sup>	+12.6	3	4	BSKIFF scattered clouds
	7602	(612), B315	14 28.2	-7.3	3	4	2am: -0.5
	7603	B 383	14 38.8	+12.6	3	4	
	7604	P/KOFF etc	15 35.7	-11.1	3	4	
	7605	P/KOFF etc	15 35.7	-11.1	4	4	4am: -2° clear
	7606	(2)	19 15.2	+15.5	2	4	many clouds
4/5 MAY	7607	C/IRAS-ARAKI-ALCOCK	18 48.7	+54.5	3	3	BSKIFF hazy. short exp.
	7608	C/IRAS-ARAKI-ALCOCK	18 48.7	+54.5	3	3	long exposure
	7609	C/IRAS-ARAKI-ALCOCK	18 48.7	+54.5	3	3	short exposure. midnight: 6°
5/6 MAY	7610	B673	10 15.3	+17.4	3	5	BSKIFF 8pm: 6.5 very windy
	7611	B691, T103	10 22.3	+9.9	3	5	
	7612	B673	10 15.3	+17.4	3	5	
	7613	B691, T103	10 22.3	+9.9	3	5	
	7614	E1, E2	11 22.0	+5.6	3	5	10pm: 5°
	7615	T 121 etc	13 32.9	-9.7	3	5	
	7616	C/IRAS-ARAKI-ALCOCK	18 42.5	+56.8	3	4	
	7617	E1, E2	11 22.0	+5.6	3	4	
	7618	T 121 etc	13 32.9	-9.7	3	4	midnight: 4°
	7619	1932CK, 1977QB1	15 16.3	-15.9	3	4	
	7620	(2603), B351	16 08.2	-20.2	3	3	
	7621	1932CK, 1977QB1	15 16.3	-15.9	3	4	
	7622	(2603), B351	16 08.2	-20.2	3	3	
	7623	GC 2295A	16 58.9	+45.9	3	4	2am: 2° $\mu$ PLATE
	7624	C/IRAS-ARAKI-ALCOCK	18 39.5	+58.0	3	4	still very windy
6/7 MAY	7625	E4 - E6	11 15.7	-4.9	4	5	BSKIFF 8pm: 8°
	7626	T129 - T133	14 03.1	-0.5	4	5	
	7627	C/IRAS-A-A	18 28.2	+59.2	4	4	
	7628	E4 - E6	11 15.7	-4.9	4	5	10pm: 4°
	7629	T 129 - T 133	14 03.1	-0.5	4	5	
	7630	(2359) etc	14 26.1	-15.9	4	4	midnight: 4°
	7631	(2359) etc	14 26.1	-15.9	4	4	
	7632	C/IRAS-A-A	18 27.5	+59.6	4	5	
8/9 MAY	7633	C/IRAS-A-A	17 10.2	+69.2	4	4	BSKIFF midnight: 6°
	7634	C/IRAS-A-A	17 10.0	+69.3	4	4	guided on nucleus for 5"
	7635	C/IRAS-A-A	17 10.0	+69.3	4	4	manual guide on nucleus for 10"
	7636	C/IRAS-A-A	16 56.4	+70.2	4	4	2am: 3.3° manual guide on nucleus
	7637	C/IRAS-A-A	16 56.4	+70.2	4	4	manual guide on nucleus
	7638	C/1983d <small>SUBANO IwouSA FujiKAWA</small>	1 33.9	+39.7	4	2	thin Moon rising very low, twilight. 4am: 3°
9/10 MAY	7639	C/IRAS-A-A	12 <sup>h</sup> 48	+73.0	4	4	BSKIFF guide on nucleus
	7640	C/IRAS-A-A	12 <sup>h</sup> 48	+73.0	4	4	very fast!



DATE 1983	PLATE NUMBER	OBJECT	RA	Dec	TRANS	SEEING	OBSERVER - REMARKS
9/10 May	7641	c/SUGANO-SUGANO-FUJIKAWA	1 <sup>h</sup> 33. <sup>m</sup> 8	+39. <sup>o</sup> 6	4	2	BSKIFF. very low. 4 AM: 2.5
11/12 May	7642	C/IRAS-A-A	8 40.5	+14.9	4	4	BSKIFF. guided on nucleus
	7643	C/IRAS-A-A	8 40.3	+14.9	4	4	guided on nucleus
	7644	C/IRAS-A-A	8 40.0	+13.8	4	4	long exposure (5 <sup>m</sup> ). guided
14/15 May	7645	T 121 etc	13 29.3	-9.2	4	4	BSKIFF weak twilight, Moonlight
	7646	T129-T133	14 00.0	+0.2	4	4	
	7647	(2359) etc	14 19.5	-15.2	4	4	Moonset during exposure
	7648	T 121 etc	13 29.3	-9.2	4	4	10 pm: 4.5
	7649	T129-T131	14 00.0	+0.2	4	4	
	7650	(2359) etc	14 19.5	-15.2	4	4	
16/17 May	7651	IRAS unknown	9 16.0	-14.2	4	4	BSKIFF Moonlight
	7652	IRAS unknown	9 16.0	-14.2	4	3	Moonlight
21/22 May	7653	← 1983 d	00 <sup>h</sup> 57 <sup>m</sup> 2	+41 <sup>o</sup> 05'	4	3	H.G. Gales
23/24 "	7654	A Region etc	00 53	+41 00	4	4	"
"	7655	"	"	"	4	4	"
4/5 June	7656	← 1983 e	23 <sup>h</sup> 56 <sup>m</sup> 2	+39. <sup>o</sup> 0	4	3	" LQ Moon
"	7657	"	"	"	"	"	"
6/7 Jun	7658	40YF	13 <sup>h</sup> 42 <sup>m</sup> 2	-7. <sup>o</sup> 4	4	4	E. Bowell
"	7659	350, etc	15 <sup>h</sup> 52 <sup>m</sup> 9	-1. <sup>o</sup> 9	"	"	
	7660	40YF	13 <sup>h</sup> 42 <sup>m</sup> 2	-7. <sup>o</sup> 4	4	5	
	7661	350, etc	15 <sup>h</sup> 52 <sup>m</sup> 9	-1. <sup>o</sup> 9	"	"	
	7662	1685, etc	15 <sup>h</sup> 53 <sup>m</sup> 0	-29. <sup>o</sup> 0	4	3	
	7663	2421, etc	16 <sup>h</sup> 51 <sup>m</sup> 8	-21. <sup>o</sup> 4	4	4	
	7664	1685, etc	15 <sup>h</sup> 53 <sup>m</sup> 0	-29. <sup>o</sup> 0	4	3	
"	7665	2421, etc	16 <sup>h</sup> 51 <sup>m</sup> 8	-21. <sup>o</sup> 4	4	4	circus at end
"	7666	← 1983 e	23 <sup>h</sup> 27 <sup>m</sup> 2	+37. <sup>o</sup> 20'	3-	4	moonlight H.G. Gales
11/12 June	7667	"	19 49	+33 <sup>o</sup> 0	4	3	H.G. Gales - Windy
16/17 "	7668	Helix Obj	16 <sup>h</sup> 22 <sup>m</sup> 2	-22. <sup>o</sup> 00'	4	4	" - moonlight
"	7669	"	"	"	"	"	"
17/18 June	7670	1983 LD	17 <sup>h</sup> 21 <sup>m</sup> 2	-59. <sup>o</sup> 7'	5	4	"
"	7671	"	"	"	5	4	"
"	7672	← 1983 i Russell	20 <sup>h</sup> 35 <sup>m</sup> 2	-3. <sup>o</sup> 20'	5	4	"
27/28 June	7673	2201 Ojato	13 <sup>h</sup> 28 <sup>m</sup> 2	-11. <sup>o</sup> 12'	5	3	" + Hub Barch
"	7674	"	"	"	5	3	" "
1/2 July	7675	1983 LC	13 <sup>h</sup> 50 <sup>m</sup> 2	+8. <sup>o</sup> 42'	4	3	"
	7676	"	"	"	4	4	"
	7677	2201 Ojato	14 <sup>h</sup> 12 <sup>m</sup> 2	-15. <sup>o</sup> 50'	4	4	"
	7678	"	"	"	4	3	"
3/4 July	7679	(2201)	14 30.0	-17. <sup>o</sup> 50'	3	5	H. Gales driven, some circi
	7680	(2201)	14 30.0	-17. <sup>o</sup> 50'	4	5	driven

DATE 1983	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER-REMARKS
3/4 July	7681	(2328), 1978PA	17 <sup>h</sup> 48 <sup>m</sup> .2	-7.2	4	5	BSKIFF 10pm: 16°
	7682	B 52	18 08.5	-24.6	4	3	
	7683	(2328), 1978PA	17 48.2	-7.2	4	5	
	7684	B 52	18 08.5	-24.6	4	4	
	7685	B 343	18 21.3	+7.0	4	5	
	7686	B 212	19 19.4	+0.6	4	5	midnight: 15°
	7687	B 343	18 21.3	+7.0	4	5	
	7688	B 212	19 19.4	+0.6	4	5	Moonrise during exposure
9/10 July	7689	2201 Oljato	15 <sup>h</sup> 13 <sup>m</sup>	-20°42'	✓	✓	H/Gicles
"	7690	"	"	-20°	"	"	"
	7691	1932BG, 1980R02	19 41.2	-19.3	4.5	3	BSKIFF lightning E
	7692	(1139)	20 22.7	+5.6	5	3	
	7693	1932BG, 1980R02	19 41.2	-19.3	3	3	midnight: 13° clouds approaching
	7694	(1139)	20 22.7	+5.6	3	3	improving
	7695	(2683) etc	20 29.7	-19.8	4	3	
	7696	(2684), 1974SP	20 57.7	-8.0	4	3	
	7697	(2683) etc	20 29.7	-19.8	4	3	
	7698	(2684), 1974SP	20 57.7	-8.0	4	3	2Am: 13°
	7699	(276)	21 19.8	+13.8	4	3	
	7700	(276)	21 19.8	+13.8	4	3	soggy night
10/11 July	7701	(1104), B 387	21 26.9	-14.7	5	3	BSKIFF midnight: 15°
	7702	B 150	21 41.0	-25.9	4	3	
	7703	1979SV11, B401	21 52.8	-14.5	5	3	
	7704	(1104), B 387	21 26.9	-14.7	5	4	2Am: 14°
	7705	B 150	21 41.0	-25.9	5	3	
	7706	1979SV11, B401	21 52.8	-14.5	5	4	
	7707	C/IRAS 2	1 34.1	-17.5	4	3	4Am: 10.5° fine night
12/13 July	7708	SHOEMAKER OBJECT	<del>20</del> 19 55.7	+1.7	3	3	BSKIFF
	7709	(2683) etc	20 27.4	-17.4	3	3	
	7710	SHOEMAKER OBJECT	19 55.7	+1.7	3	3	midnight: 14°
	7711	(2683) etc	20 27.4	-17.4	4	3	
	7712	(2684), 1974SP	20 50.9	-6.0	4	3	
	7713	(1104), B 387	21 32.1	-18.3	4	3	
	7714	1979SV11, B401	21 58.2	-10.5	4	3	2Am: 13°
	7715	(2684), 1974SP	20 50.9	-6.0	4	3	
	7716	(1104), B 387	21 32.1	-18.3	4	3	
	7717	1979SV11, B401	21 58.2	-10.5	4	3	
	7718	C/IRAS 2	1 34.6	-16.3	4	3	4Am: 12.5°
13/14 July	7719	2201 Oljato	15 35	-22°0'	0-3	4	H/Gicles clouds
14/15 "	7720	"	15 39	-22°20'	5	5	"

DATE 1983	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS	
16/17 July	7721	comet suspect	21 <sup>h</sup> 37. <sup>m</sup> 0	-18.0	4	4	BSKIFF midnight: 13"	
	7722	(5A) etc	22 22.4	-9.2	4	3	2 AM: 11.5"	
	7723	comet suspect	21 37.0	-18.0	4	4		
	7724	(5A) etc	22 22.4	-9.2	4	4		
	7725	C/IRAS 2	1 37.4	-15.1	3	3		
	7726	C/IRAS suspect	2 45.3	+3.5	3	3	4 AM: 10° driven <sup>some</sup> twilight	
12/13 August	7727	(1590) etc	19 37.8	-12.8	3	4	BSKIFF 8pm: 19° Moonlight	
	7728	B 697	20 02.9	+1.5	3	4		
	7729	(647) etc	20 28.0	-8.1	3	4		
	7730	(1590) etc	19 37.8	-12.8	3	4	10pm: 16.5"	
	7731	B 697	20 02.9	+1.5	4	4		
	7732	(647) etc	20 28.0	-8.1	4	4		
	7733	(627) etc	21 00.5	-19.2	4	3		
	7734	B401, B698, B707	21 27.3	-17.1	4	3		
	7735	(627) etc	21 00.5	-19.2	4	4		
	7736	B401, B698, B707	21 27.3	-17.1	4	4	midnight: 14.5"	
	7737	(893) etc	21 46.7	-8.7	4	4		
	7738	C/BOWELL, etc	22 18.5	-14.0	4	4		
	7739	(893) etc	21 46.7	-8.7	4	4		
	7740	C/BOWELL etc	22 18.5	-14.0	4	4		
	7741	(288) etc	22 39.3	-10.1	4	4	2 AM: 14°	
	7742	(229) etc	23 09.3	-6.0	4	4		
	7743	(288) etc	22 39.3	-10.1	4	3		
	7744	(229) etc	23 09.3	-6.0	4	3	nice night	
	30/31 August	7745	(2204) etc	21 59.1	-3.5	4	4	BSKIFF
		7746	(709), 1976 GNB	21 51.7	-12.7	4	4	
7747		(2204) etc	21 59.1	-3.5	4	4		
7748		(709), 1976 GNB	21 51.7	-12.7	4	4	10pm: 15°	
1/2 SEPTEMBER	7749	(288) etc	22 22.0	-13.4	3	4	BSKIFF 8pm: 19° vthin clouds	
	7750	(163) etc	22 54.4	-8.8	3	4	10pm: 16°	
	7751	(288) etc	22 22.0	-13.4	3	4		
	7752	(163) etc	22 54.4	-8.8	3	4		
	7753	(2625) etc	23 19.8	+3.1	3	4		
	7754	(2709), 1981 EY8	23 20.7	-9.7	4	4	pretty clear now	
	7755	(2625) etc	23 19.8	+3.1	4	4	midnight: 15°	
	7756	(2709), 1981 EY8	23 20.7	-9.7	4	4		
3/4 SEPTEMBER	7757	(288) etc	22 28.1	-12.9	4	4	BSKIFF 10pm: 16°	
	7758	(288) etc	22 28.1	-12.9	4	4	weak lightning NE → SE	
	7759	1978 SR6, 1981 EU7	23 (51.7)	-2.7	4	3		
	7760	1978 SR6, 1981 EU7	23 45.2	-2.7	4	3	midnight: 15°	

DATE 1983	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
3/4 SEPTEMBER	7761	(372), 1933QU	0 <sup>h</sup> 14.3	+21.9	4	3	BSKIFF
	7762	(2377), 1978QN2	0 15.5	+ 3.1	4	3	
	7763	(372), 1933QU	0 14.3	+21.9	4	3	2Am: 14°
	7764	(2377), 1978QN2	0 15.5	+ 3.1	4	3	
5/6 SEPTEMBER	7765	(288) etc	22 26.6	-12.8	4	4	BSKIFF 8pm: 17.5
	7766	(163) etc	23 00.5	- 8.0	4	4	10pm: 16°
	7767	(288) etc	22 26.6	-12.8	4	4	
	7768	(163) etc	23 00.5	- 8.0	4	4	
	7769	(2625) etc	23 26.8	- 9.2	4	4	
	7770	(2709), 1981EY8	23 25.2	+ 3.5	4	4	
	7771	(2625) etc	23 26.8	- 9.2	4	4	midnight: 14°
	7772	(2709), 1981EY8	23 25.2	+ 3.5	4	4	
	7773	(405), 1981EM4	0 33.7	+17.6	4	4	
	7774	c/1983; , 8203	1 14.7	+18.7	4	4	
	7775	(405), 1981EM4	0 33.7	+17.6	4	4	
	7776	c/1983; , 8203	1 14.7	+18.7	4	4	2Am: 14.5
	7777	c/1983 l	2 13.5	- 3.4	4	4	fine night
9/10 SEPTEMBER	7778	(288) etc	22 22.8	-12.9	4	4	BSKIFF
	7779	(2625) etc	23 22.5	- 9.7	4	4	midnight: 15°
	7780	(288) etc	22 22.8	-12.9	4	4	
	7781	(2625) etc	23 22.5	- 9.7	4	4	
	7782	1978SR6, 1981EU17	23 47.0	- 3.0	4	4	
	7783	(1219), (2264)	1 43.0	+ 8.6	4	4	
	7784	1978SR6, 1981EU17	23 47.0	- 3.0	4	4	2Am: 13.5
	7785	(1219), (2264) = 1983RB	1 43.0	+ 8.6	4	4	
10/11 SEPTEMBER	7786	SHOEMAKER FMO-1	22 11.4	- 4.1	3	4	BSKIFF
	7787	SHOEMAKER FMO-2	1 04.0	- 4.2	3	4	midnight: 13.5
	7788	<sup>= 1983RB</sup> SHOEMAKER FMO-1	22 11.4	- 4.1	4	4	
	7789	SHOEMAKER FMO-2	1 04.0	- 4.2	4	4	
11/12 SEPTEMBER	7790	<sup>= 1983RB</sup> FMO 92+6	22 13.6	- 4.9	3	4	BSKIFF
	7791	(288) etc	22 22.0	-13.4	3	3	
	7792	(2709), 1981EY8	23 19.8	+ 2.8	4	4	
	7793	(288) etc	22 22.0	-13.4	4	3	
	7794	(2709), 1981EY8	23 19.8	+ 2.8	4	4	midnight: 14°
	7795	(2377), 1978QN2	0 11.4	+ 2.5	4	4	
	7796	(2687) etc	0 36.7	-10.7	4	4	
	7797	<sup>= 1983RB</sup> FMO 92+6	22 13.6	- 4.9	4	4	
	7798	(2377), 1978QN2	0 11.4	+ 2.5	4	4	
	7799	(2687) etc	0 36.7	-10.7	4	4	2Am: 13.5
	7800	FMO -3-03	1 04.1	- 4.2	4	4	

DATE 1983	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
11/12 SEPTEMBER	7801	C/1983j, B203	1 <sup>h</sup> 08 <sup>m</sup> .8	+20.8	4	4	BSKIFF
	7802	FMO -3-03	1 04.1	- 4.2	4	4	
	7803	C/1983j, B203	1 08.8	+20.8	4	4	
	7804	C/1983l = 1983RB	2 06.5	- 5.7	4	4	4am: 12°
13/14 SEPTEMBER	7805	FMO 92+6 (1983p)	22 17.1	- 7.7	4	4	BSKIFF half Moonlight [two exposures]
	7806	C/SHOEMAKER	23 37.9	+18.2	4	4	Moonset at start of exposure
	7807	(2377), 1978QN2 (1983p)	0 09.8	+ 2.3	4	4	
	7808	C/SHOEMAKER	23 37.9	+18.2	4	4	midnight: 13.5
	7809	(2687) etc = 1983RD	0 35.7	-10.8	4	4	
	7810	DUNBAR FMO	1 00.0	+ 8.9	4	4	6x2 <sup>m</sup> exposures
	7811	(2377), 1978QN2	0 09.8	+ 2.3	4	4	
	7812	(2687) etc = 1983RD	0 35.7	-10.8	4	4	2am: 12°
	7813	DUNBAR FMO	1 00.0	+ 8.9	4	4	
27/28 SEPTEMBER	7814	C/SHOEMAKER (1983p)	23 10.6	+12.0	5	4	BSKIFF 8pm: 10°
	7815	1983RB	22 36.5	-15.4	5	3	
	7816	1983RB	22 36.5	-15.4	5	3	
1/2 OCTOBER	7817	C/O SHCHEPKOV (2204) etc	20 50.7	+ 1.5	4	4	BSKIFF 8pm: 6°
3/4 OCTOBER	7818	G/O SHCHEPKOV	22 46.8	-15.0	4	4	BSKIFF 7pm: 8°
	7819	C/O SHCHEPKOV	20 51.6	+ 1.5	4	4	8pm: 5.5
	7820	(1525)	20 57.8	- 8.7	4	4	
	7821	C/O SHCHEPKOV	20 51.6	+ 1.5	4	4	
	7822	(1525)	20 57.8	- 8.7	4	4	
	7823	(2204) etc	22 46.8	-15.0	4	4	
	7824	(163) etc	22 41.1	-10.1	4	4	10pm: 5°
	7825	1983SA	22 46.9	+15.6	4	4	
	7826	(163) etc	22 41.1	-10.1	4	4	Fog on lake
	7827	1983SA	22 46.9	+15.6	4	4	
	7828	C/1983j (IRAS)	0 04.0	+32.9	4	4	
	7829	196AVM1, 1981EX18	0 57.8	+ 4.0	4	4	midnight: 3.5
	7830	C/1983l (GERMIS)	1 24.7	-15.8	4	4	comet visible in 8cm finder
	7831	196AVM1, 1981EX18	0 57.8	+ 4.0	4	4	
4/5 OCTOBER	7832	1978SR6, 1981EU17	23 22.7	- 5.1	3	4	BSKIFF rather cruddy
	7833	(2377) etc	23 57.6	+ 0.9	3	4	too cloudy
8/9 OCTOBER	7834	1978SR6, 1981EU17	23 19.9	- 5.6	3	4	BSKIFF 8pm: 9.5
	7835	(2377) etc	23 54.5	+ 0.6	3	4	
	7836	1978SR6, 1981EU17	23 19.9	- 5.6	3	4	
	7837	(2377) etc	23 54.5	+ 0.6	2	4	
	7838	1983SA	22 39.6	+18.1	3	4	10pm: 7.5
	7839	(405), 1981EM4	0 05.4	+16.7	3	4	
	7840	(2687) etc	0 12.1	-14.8	3	4	Fog on lake

DATE 1983	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER-REMARKS
8/9 OCTOBER	7841	(405), 1981EM+	0 05.4	+16.7	4	4	BSKIFF
	7842	(2687) etc	0 12.1	-14.8	4	4	
	7843	1981JC2, B203	0 54.5	+19.8	4	4	
	7844	(1219) etc	1 27.6	+10.2	4	4	Fog threatening midnight: 7.5
	7845	1981JC2, B203	0 54.5	+19.8	4	5	
	7846	(1219) etc	1 27.6	+10.2	4	5	
	7847	(2873) etc	2 26.8	+ 1.6	4	5	objective fogged
	7848	1982BH, 4006 P.L.	2 37.2	+19.5	4	5	
	7849	(2873) etc	2 26.8	+ 1.6	4	5	2am: 7.5
	7850	1982BH, 4006 P.L.	2 37.2	+19.5	4	5	fog spilling up onto Mesa
	7851	1983RD	4 18.6	-14.1	4	5	two exposures, gated
10/11 OCTOBER	7852	(2204) etc	21 45.2	-16.0	4	4	BSKIFF Moonlight $\theta_{pm}: 10^\circ$
	7853	1983SA	22 36.8	+19.7	4	4	
	7854	C/1983j (IRAS)	23 40.2	+36.9	4	4	
	7855	1964VMI, 1981EX18	0 52.9	+ 3.8	3-4	4	Moonset during exposure some thin cirri
	7856	(2204) etc	21 45.2	-16.0	3	4	seeing much worse by the end
	7857	1964VMI, 1981EX18	0 52.9	+ 3.8	3	3	10pm: 7
	7858	1974OA1	1 46.7	+33.1	3	3	
	7859	1981JB2, etc	1 56.2	+ 7.7	3	3	
	7860	C/ERNO (1983R)	1 09.3	-18.4	3	3	
	7861	1974OA1	1 46.7	+33.1	3	3	
	7862	1981JB2, etc	1 56.2	+ 7.7	3	3	midnight: 6° pretty cloudy
11/12 OCTOBER	7863	IRAS 516-1	17 45.4	+59.3	3	3	BSKIFF Moonlight, cirri
	7864	IRAS 516-1	17 45.4	+59.3	3	3	$\theta_{pm}: 8.5$
	7865	1983SA	22 45.5	+20.0	3	3	
	7866	(2377) etc	23 52.6	+ 0.1	3	3	
	7867	(405), 1981EM+	0 02.5	+15.8	3	3	
	7868	IRAS 516-1	17 45.4	+59.3	4	3	
	7869	(2377) etc	23 52.6	+ 0.1	4	3	Moonset during exposure
	7870	(405), 1981EM+	0 02.5	+15.8	4	3	10pm: 6°
	7871	(2687) etc	0 10.7	-14.7	4	3	
	7872	1981JC2, B203	0 53.0	+18.9	4	3	
	7873	(2687) etc	0 10.7	-14.7	4	4	
	7874	1981JC2, B203	0 53.0	+18.9	4	4	
	7875	(1219) etc	1 25.0	+10.6	5	4	midnight: 5°
	7876	1981JB2, etc	1 55.5	+ 7.6	5	4	
	7877	(1219) etc	1 25.0	+10.6	5	4	
	7878	1981JB2, etc	1 55.5	+ 7.6	5	4	
13/14 OCTOBER	7879	1983TB = IRAS 516-1	18 30.0	+57.9	3	3	BSKIFF two exposures strong Moonlight
	7880	1983TB	18 30.0	+57.9	3	3	$\theta_{pm}: 9^\circ$

DATE 1983	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
16/17 October	7881	1983TB	19 23.8	+55.0	2	5	BSKIFF <sup>two exposures</sup> strong Moonlight
	7882	1983TB	19 23.8	+55.0	2	5	8pm: 6°
26/27 October	7883	1983TB	21 02.7	+42.7	3	4	BSKIFF driven, some clouds
	7884	1983TB	21 02.7	+42.7	3	4	8pm: 7.5 driven
	7885	1983TB	21 02.7	+42.7	3	4	oky cruddy
3/4 November	7886	☽/SHOTMAKER (1983p)	22 15.2	-3.3	4	4	BSKIFF scattered cirrus
	7887	c/IRAS (1983j)	22 42.9	+42.0	4	4	7pm: 8° light breeze
	7888	1964VMI, 1981EXTB	0 36.8	+2.7	4	4	
	7889	(1219), etc	1 06.7	+7.6	4	4	8pm: 7.5
	7890	1981JB2, etc	1 34.4	+6.8	4	4	
	7891	c/ζ ERNIS (1983l)	0 23.5	-26.3	4	3	new pen! comet visible in finder
	7892	1964VMI, 1981EXTB	0 36.8	+2.7	4	4	NE wind picking up
	7893	(1219) etc	1 06.7	+7.6	3	3	
	7894	1981JB2, etc	1 34.4	+6.8	3	3	10pm: 7.5
	7895	(385)	1 48.0	+28.0	3	3	
	7896	(2435) etc	2 00.9	+2.9	3	4	
	7897	(2542) etc	2 15.5	+10.5	3	4	
	7898	(385)	1 48.0	+28.0	3	4	
	7899	(2435) etc	2 00.9	+2.9	3	4	midnight: 6°
	7900	(2542) etc	2 15.5	+10.5	3	4	
5/6 November	7901	1973SM2, etc	2 34.5	+18.0	4	5	BSKIFF 10pm: 7°, humid
	7902	1970PA, 1981EAL	2 59.9	+38.1	4	5	
	7903	1973SM2, etc	2 34.5	+18.0	4	5	fog on lake
	7904	1970PA, 1981EAL	2 59.9	+38.1	4	5	
	7905	(2482), 1981EL19	3 17.1	+12.1	4	5	
	7906	1943EM	3 22.5	-0.5	4	5	midnight: 5°
	7907	(2482), 1981EL19	3 17.1	+12.1	4	5	objective fogging
	7908	1943EM	3 22.5	-0.5	4	5	2am: 3.5
6/7 November	7909	385	1 45.5	-27.9	4+	5	N. Thomas, clear 13°
	7902 <del>7902</del>	2542, 81EY17,	2 13.6	+10.3	4+	5	" "
	7903 <del>7903</del>	385	1 45.5	-27.9	4+	4	" "
	7904 <del>7904</del>	2542, 81EY17,	2 13.6	+10.3	4	4-	" 10°
	7905 <del>7905</del>	70PA, 81EAL	2 58.8	+38.0	4	4-	" "
	7906 <del>7906</del>	2736, 77551	3 28.2	+27.4	4	3+	" "
	7907 <del>7907</del>	70PA, 81EAL	2 58.8	+38.0	4	3+	" 8°
	7908 <del>7908</del>	T21	4 06.7	+22.9	4	3+	" "
	7909 <del>7909</del>	2736, 77551	3 28.2	+27.4	4	3+	" "
	7910 <del>7910</del>	T21	4 06.7	+22.9	4	3+	" 8°
7/8 November	7911	235MA, etc.	2 31.8	+19.7	4 & clouds	4	N. Thomas finder tel. out of adjustment
8/9 November	7911	Kowal <sup>1983VB</sup> FMO	6 46.2	+54.0	5	2	BSKIFF driven

DATE 1983	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
8/9 NOVEMBER	7912	KOWAL FMO <sup>=1983VB</sup>	6 <sup>h</sup> 46. <sup>m</sup> 2	+54.0	5	2	BSKIFF driven; midnight: -5°
	7913	KOWAL FMO	6 46.2	+54.0	5	2	thin cirrus
27/28 NOVEMBER	7914	(2791)	1 06.4	+61.7	4	3	BSKIFF 6pm: -3.5
	7915	B119	2 16.1	+16.1	4	3	
	7916	(2791)	1 06.4	+61.7	4	3	8pm: -8°
	7917	B119	2 16.1	+16.1	4	3	
	7918	(2736) etc	2 53.8	+24.4	4	3	
	7919	(2270) etc	3 17.6	+19.1	4	3	
	7920	1938WA etc	4 25.0	+19.3	4	3	10pm: -9°
	7921	(2736) etc	2 53.8	+24.4	4	3	
	7922	(2270) etc	3 17.6	+19.1	4	3	
	7923	1938WA etc	4 25.0	+19.3	4	3	
28/29 NOVEMBER	7924	(2764) etc	4 42.9	+23.8	4	3	BSKIFF windy from W
	7925	(2189), 1935QF	5 00.8	+4.6	4	3	
	7926	(2764) etc	4 42.9	+23.8	4	3	
	7927	(2189), 1935QF	5 00.8	+4.6	4	3	midnight: -6°
	7928	(2432) etc	5 17.3	+33.2	4	3	
	7929	B177, B575	5 50.4	+28.4	4	3	
	7930	(2432) etc	5 17.3	+33.2	4	4	
	7931	B177, B575	5 50.4	+28.2	4	4	2am: -8°
29/30 NOVEMBER	7932	C/IRAS (198330)	21 03.0	-5.1	4	4	BSKIFF 7pm: -4°
	7933	(2791)	1 18.8	+63.9	4	4	
	7934	C/IRAS (198330)	21 03.0	-5.1	4	3	8pm: -5°
	7935	(2791)	1 18.8	+63.9	3	3	some cirri. 10pm: -3.5
30/1 Nov/Dec	7936	38WA, etc	4 21.0	+19.3	4	2	N. Thomas
	7937	2764, etc	4 39.9	+23.8	4	3	"
	7938	38WA, etc	4 26.0	+19.3	4	3	"
	7939	2764, etc	4 39.9	+23.8	4-2	3	" Light haze <sup>end</sup>
4/5 DECEMBER	7940	1983V	20 57.4	-1.2	4	3+	N. Thomas
	7941	"	"	"	4	3	" ? 90 sec. cloud
	7942	2776, etc	3 <sup>h</sup> 00.2	+25.0	4+	4-3+	"
	7943	"	"	"	5-	4	"
	7944	38WA, etc	4 <sup>h</sup> 17.0	+19.2	+5-	4	"
	7945	"	"	"	+5-	4	" intermit cloud
5/6 Dec 83	7946	38WA, etc	4 <sup>h</sup> 17. <sup>m</sup> 2	+19.0	5	4	EL6B
	7947	2432, etc	5 <sup>h</sup> 08. <sup>m</sup> 7	+33.2	5	4	~
	7948	38WA, etc	4 <sup>h</sup> 17. <sup>m</sup> 2	+19.0	5	4	~
	7949	2432, etc	5 <sup>h</sup> 08. <sup>m</sup> 7	+33.2	5	4	~
	7950	129, B496	5 <sup>h</sup> 29. <sup>m</sup> 3	+9.8	5	4	~
	7951	64TH1, etc	6 <sup>h</sup> 10. <sup>m</sup> 2	+23.9	5	5	~



DATE 1983/84	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
5/6 Dec 83	7952	129, B496	5 <sup>h</sup> 29 <sup>m</sup> .3	+9 <sup>o</sup> .8	5	5	ELGTS
	7953	64THI, etc.	6 <sup>h</sup> 10 <sup>m</sup> .2	+23 <sup>o</sup> .9	5	5	~
8/9 DECEMBER	7954	1983VX	1 59.4	-11.7	4	3	BSKIFF 6pm: 3° Moonlight
	7955	1983VW1	3 21.8	+21.0	4	3	quite transparent
	7956	1983VQ1	2 25.1	+20.7	4	4	
	7957	1983VW	1 59.4	-11.7	4	3	8pm: 0°
	7958	1983VQ1	2 25.1	+20.7	4	4	
	7959	1983VW1	3 21.8	+21.0	4	3	
	7960	1938WA etc	4 13.0	+19.2	4	3	Moonset during exposure
	7961	(2189), 1935QF	4 49.3	+ 4.7	3	3	
	7962	1938WA etc	4 13.0	+19.0	3	3	10pm: -2.5
	7963	(2189), 1935QF	4 49.3	+ 4.7	4	3	
	7964	(129), B496	5 26.2	+ 9.6	4	3	
	7965	B177, B575	5 41.8	+28.2	4	4	
	7966	(129), B496	5 26.2	+ 9.6	4	4	
	7967	(2410), (249A)	7 40.3	+20.3	4	4	midnight: -3.5
	7968	B177, B575	5 41.8	+28.2	4	4	
	7969	1978TR7, 1981EGH	6 37.2	+19.2	4	4	
	7970	(2410), (249A)	7 40.3	+20.3	4	4	
	7971	1978TR7, 1981EGH	6 37.2	+19.2	4	4	2am: -3.5 nice night
5 28/29 DECEMBER	7972	P/HARTLEY-IRAS (1933 <sup>o</sup> )	20 47.8	+10.4	4	4	BSKIFF windy 6pm: -6°
	7973	P/HARTLEY-IRAS (1933 <sup>o</sup> )	20 47.8	+10.4	3?	4	clouds, light wind now
	7974	B785 etc	4 02.9	+19.9	3	5	probably cloudy
	7975	B824-B826	4 37.0	+ 9.6	3	5	8pm: -7°
	7976	B824-B826	4 37.0	+ 9.6	3	5	
	7977	B785 etc	4 02.9	+19.9	3	5	9:30 pm: -9°
1/2 JAN 84	7978	B785, etc.	4 <sup>h</sup> 01 <sup>m</sup> .2	+20 <sup>o</sup> .1	4	4	breezy ELGTS
	7979	B807, etc.	4 <sup>h</sup> 11 <sup>m</sup> .1	+24 <sup>o</sup> .9	4	4	
3/4 JANUARY	7980	B785 etc	4 01.7	+20.0	4	5	BSKIFF 7pm: -1°
	7981	B807 etc	4 09.8	+25.0	4	5	
	7982	(1091) etc	5 17.3	+26.5	4	5	8pm: -3°
	7983	B785 etc	4 01.7	+20.0	4	5	
	7984	B807 etc	4 09.8	+25.0	4	5	
	7985	(1091) etc	5 17.3	+26.5	4	5	10pm: -2° here come the clouds
4/5 JANUARY	7986	(2129) etc	5 44.6	+28.4	4	4	BSKIFF 8pm: -1°
	7987	(1774) etc	6 06.1	+23.2	4	4	
	7988	(2823) etc	6 23.9	+17.2	4	4	
	7989	(2129) etc	5 44.6	+28.4	4	4	
	7990	(1774) etc	6 06.1	+23.2	4	4	10pm: -2°

DATE 1984	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
4/5 JANUARY	7991	(2823) etc	6 <sup>h</sup> 23.9	+17.2	4	4	BSKIFF
	7992	(1627) etc	6 46.5	+18.9	4	4	
	7993	C/1983u etc	7 07.8	+22.5	4	4	
	7994	(2161) etc	7 22.4	+20.2	4	4	
	7995	(1627) etc	6 46.5	+18.9	4	4	
	7996	C/1983u etc	7 07.8	+22.5	4	4	midnight: -2°
	7997	(2161) etc	7 22.4	+20.2	4	4	
	7998	(623) etc	7 44.8	+27.7	4	4	
	7999	(1239) etc	8 13.7	+26.5	4	4	
	8000	(623) etc	7 44.8	+27.7	4	4	
7/8 JANUARY	8001	(1239) etc	8 13.7	+26.5	3	4	some clouds. 2am: -3°
	8002	(1774) etc	6 03.4	+24.3	4	4	BSKIFF Moonlight
	8003	(2823) etc	6 20.7	+17.2	4	4	
	8004	(1627) etc	6 43.4	+19.0	4	4	
	8005	(1774) etc	6 03.4	+24.3	4	4	Moonset during exposure
	8006	(2823) etc	6 20.7	+17.2	4	4	10pm: 0° (warm!)
	8007	(1627) etc	6 43.4	+19.0	4	4	
	8008	C/1983u etc	7 04.6	+22.8	5	4	
	8009	(2161) etc	7 19.2	+20.7	5	4	
	8010	(623) etc	7 41.8	+27.8	5	4	
	8011	C/1983u etc	7 04.6	+22.8	5	4	midnight: -1°
	8012	(2161) etc	7 19.2	+20.7	5	4	
	8013	(623) etc	7 41.8	+27.8	5	4	
	8014	(2763) etc	9 00.0	+20.3	5	4	
	8015	(1348) etc	9 24.6	+24.7	5	4	
	8016	(116), (335), (2008)	10 29.2	+11.3	5	4	2am: -1°
	8017	(2763) etc	9 00.0	+20.3	5	4	
	8018	(1348) etc	9 24.6	+24.7	5	4	
	8019	(116), (335), (2008)	10 29.2	+11.3	5	4	beautiful night
25/26 JANUARY	8020	B831-833, B835	6 39.8	+23.4	5	5	BSKIFF
	8021	J3, J5-11	7 21.6	+28.0	5	5	
	8022	J4, J12-15	8 36.1	+21.9	5	4	
	8023	B831-833, B835	6 39.8	+23.4	4	4	10pm: 0°
	8024	J3, J5-11	7 21.6	+28.0	4	4	
	8025	J4, J12-15	8 36.1	+21.9	4	4	
	8026	1978UC etc	9 07.6	+28.4	4	4	
	8027	(1354) etc	9 17.0	+20.8	4	4	
	8028	1978UC etc	9 07.6	+28.4	4	4	midnight: -2°
	8029	(1354) etc	9 17.0	+20.8	4	4	nice night
27/28 JANUARY	8030	(2118)	8 03.4	+26.1	1	4	BSKIFF 10pm: -2°

DATE 1984	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
1 27/28 JANUARY	8031	(2118)	8 03.4	+26.1	4	4	BSKIFF
	8032	(1624), (2812)	10 03.6	+25.8	4	4	
2	8033	J16, J17	10 27.3	+12.7	4	3	midnight: -4°
	8034	(1624), (2812)	10 03.6	+25.8	4	3	
	8035	J16, J17	10 27.3	+12.7	4	3	
	8036	(2550) etc	10 33.2	+9.5	4	3	
	8037	(2550) etc	10 33.2	+9.5	4	3	2Am: -3°
3/4 February	8038	B831 etc.	06 36.1	+23.5	3	3	B. Bus 8pm: 0.5
	8039	J4, J12-15	04 26.6	+22.2	3	3	
	8040	B831 etc	6 36.1	+23.5	4	4	10pm: 0.5
	8041	<del>J4, J12-15</del> <del>1978 UC etc</del>	8 26.6	+22.2	4	4	
	8042	1978 UC etc	8 58.5	+28.1	4	3	
	8043	(1354) etc	9 07.6	+20.9	4	3	
	8044	1978 UC etc	8 58.5	+28.1	4	3	
	8045	(1354) etc	9 07.6	+20.9	4	3	midnight: -0.5
4/5 FEBRUARY	8046	J16, J17	10 17.0	+13.7	4	3	BSKIFF film
	8047	J16, J17	10 17.0	+13.7	4	3	midnight: -0.5
	8048	J16, J17	10 17.0	+13.7	4	3	film
	8049	J16, J17	10 17.0	+13.7	4	3	
	8050	(1624), (2812)	9 56.1	+26.7	4	3	
	8051	(2550) etc	10 33.8	+10.2	4	3	
	8052	(1624), (2812)	9 56.1	+26.7	4	3	2Am: -3°
	8053	(2550) etc	10 33.8	+10.2	4	3	
5/6 FEBRUARY	8054	(173), 1982 SK	11 18.1	+5.1	4	4	BSKIFF midnight: -3.5
	8055	1982 XC	11 23.7	+13.2	4	4	
	8056	(125), (2795)	11 46.0	-3.0	4	4	
	8057	(173), 1982 SK	11 18.1	+5.1	4	4	2Am: -2°
	8058	<del>1982 XC</del> <del>(125), (2795)</del>	<del>11 23.7</del> <del>11 46.0</del>	<del>+13.2</del> <del>-3.0</del>	4	4	
	8059	(125), (2795)	11 46.0	-3.0	4	4	
7/8 FEBRUARY	8060	(173), 1982 SK	11 17.3	+5.3	4	5	BSKIFF
	8061	(173), 1982 SK	11 17.3	+5.3	4	4	midnight: -3°
20/21 FEBRUARY	8062	P/CROMMELIN	1 05.2	-0.2	5	3	BSKIFF 7pm: -5° three exp.
25/26 FEBRUARY	8063	B853, B860	9 34.0	+28.0	4	3	BSKIFF
	8064	B846 etc	10 13.9	+14.0	4	3	
	8065	B853, B860	9 34.0	+28.0	4	3	10pm: -6.5
	8066	B846 etc	10 13.9	+14.0	4	3	seeing worsening
Feb 29/Mar. 1	8067	RV Lyncis	6 <sup>h</sup> 53 <sup>m</sup>	+52°	3	3	H. Greles
	8068	"	"	"	"	"	"
	8069	"	"	"	"	"	"
	8070	"	"	"	"	"	"

DATE 1984	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
Feb. 29/Mar. 1	8071	RV Lyncis	6 <sup>h</sup> 53 <sup>m</sup>	+51 <sup>o</sup> 58'	4	3	H Gielas
"	8072	"	"	"	4	3	"
"	8073	"	"	"	4	3	"
Feb 29/Mar 1	8074	82VE4, etc.	10 <sup>h</sup> 45.3	+14.4	4 <sup>+</sup>	4 <sup>+</sup>	N. Thomas
	8075	173, 72XX, etc	11 <sup>h</sup> 09.4	+10.9	4 <sup>+</sup>	4 <sup>+</sup>	"
	8076	1982VE4 etc	10 45.3	+14.4	3	5	BSKIFF
	8077	(173) etc	11 09.4	+11.2	3	5	midnight: 0.5
	8078	B855-B857	10 58.0	+3.2	3	5	
	and 8079	(2795) etc	11 33.0	-2.2	3	4	
	8080	B855-B857	10 58.0	+3.2	3	4	
5/6 MARCH	8081 8081a	P/K <sup>Four exp</sup> CROMMELIN	2 26.4	-5.4	4	4	BSKIFF weak Moonlight 7pm: -4° 8pm: -6°
	8082	B846 etc	10 06.8	+14.1	5	5	
	8083	1982VE4 etc	10 36.0	+13.0	5	5	
	8084	B846 etc	10 06.8	+14.1	5	5	10pm: -7.5
	8085	1982VE4 etc	10 36.0	+13.0	5	5	
	8086	B855-B857	10 48.7	+3.7	5	5	
	8087	(173) etc	11 05.6	+11.6	5	5	
	8088	B855-B857	10 48.7	+3.7	5	5	
	8089	(173) etc	11 05.6	+11.6	5	5	midnight: -8°
	8090	(2795) etc	11 28.5	-2.0	5	5	
	8091	(2844), B863	11 31.4	+6.0	5	5	
	8092	(2795) etc	11 28.5	-2.0	5	5	
	8093	(2844), B863	11 31.4	+6.0	5	5	2am: -9° fine night
8/9 MARCH	8094	1982VE4 etc	10 33.0	+13.9	4	4	BSKIFF moderate Moonlight midnight: -1°
	8095	(2844), B863	11 28.1	+7.0	4	4	
	8096	B110	11 36.5	-32.6	3	3	
	8097	1982VE4 etc	10 33.0	+13.9	4	4	
	8098	B110	11 36.5	-32.6	3	3	
	8099	(2844), B863	11 28.1	+7.0	4	4	2am: -2°
	8100	1981 UW9	12 06.8	+11.5	3	4	clouds approaching
	8101	1935TE etc	12 59.6	+11.2	3	4	thin clouds over whole sky
	8102	1981 UW9	12 06.8	+11.5	3	4	
	8103	1935TE etc	12 59.6	+11.2	3	4	4am: -2.5
	8104	P/HARTLEY-IRAS	20 43.6	+46.0	2	3	pretty cloudy
22/23 MARCH	8105	P/CROMMELIN	4 14.8	-13.3	3	3	BSKIFF
23/24 "	8106	RV Lyncis	6 <sup>h</sup> 52 <sup>m</sup>	+51 <sup>o</sup> 00'	4	3	H Gielas
"	8107	"	"	"	4	3	
"	8108	"	"	"	4	3	
"	8109	"	"	"	4	3	
"	8110	"	"	"	4	3	

DATE 1984	plate No	OBJECT	RA	DEC	Trans	See	Observer + Remarks
March 23/24	8111	RV Lyncis	6 <sup>h</sup> 52 <sup>m</sup>	+51° 00'	4	3	H. Giclas
"	8112	"	"	"	4	3	"
"	8113	"	"	"	4	3	"
"	8114	"	"	"	4	3	"
28/29 MARCH	8115	B 847 etc	9 51.6	+16.7	4	5	BSKIFF, who's a little drunk
	8116	B 866 etc	10 19.5	+15.8	4	5	10pm: -2° clouds approaching
	8117	B 855 etc	10 32.4	+ 7.2	4	5	stopped due to clouds
29/30 MARCH	8118	B 847 etc	9 51.1	+16.6	3	3	BSKIFF very windy, clouds
30/31 MARCH	8119	B 847 etc	9 51.1	+16.7	4	5	BSKIFF 8pm: -1°
	8120	B 866 etc	10 19.1	+15.9	4	5	
	8121	B 855 etc	10 30.6	+ 7.3	4	5	
	8122	B 849 etc	10 45.4	+13.4	4	5	
	8123	B 847 etc	10 51.1	+16.7	4	4	10pm: -3.5
	8124	B 866 etc	10 19.1	+15.9	4	4	
	8125	B 855 etc	10 30.6	+ 7.3	4	4	
	8126	B 849 etc	10 45.4	+13.4	4	4	midnight: -4°
	8127	1949 GK etc	13 04.2	-4.1	4	4	
	8128	1974 MH etc	13 37.4	-14.3	4	3	
	8129	(2822), B40, 1944 BA	13 49.1	+15.8	4	4	
	8130	1949 GK etc	13 04.2	-4.1	4	4	
	8131	1974 MH etc	13 37.4	-14.3	4	3	
	8132	(2822), B40, 1944 BA	13 49.1	+15.8	4	4	2Am: -5°
2/3 APRIL	8133	B 861	10 04.5	+ 9.0	4	3	BSKIFF
	8134	B 863 etc	11 07.5	+10.3	4	3	
	8135	B 220 etc	11 09.1	+ 1.8	4	3	10pm: -1°
	8136	P/Sm-Cu, S65-S69	11 36.4	+13.1	4	3	
	8137	B 861	10 04.5	+ 9.0	4	3	
	8138	B 863 etc	11 07.5	+10.3	4	3	
	8139	B 220 etc	11 09.1	+ 1.8	4	3	midnight: -4°
	8140	P/Sm-Cu, S65-S69	11 36.4	+13.1	4	3	
	8141	1949 GK etc	13 01.5	- 5.9	4	3	
	8142	(2357), 1982 XA, B620	14 18.1	-13.4	4	3	
	8143	1949 GK etc	13 01.5	- 5.9	4	3	2Am: -4°
	8144	(2357), 1982 XA, B620	14 18.1	-13.4	4	3	
	8145	P/CLARK (1983 w)	20 04.5	+65.1	4	3	nice night
3/4 APRIL	8146	P/CRUMMELIN (1983 n)	5 32.6	-17.3	4	4	BSKIFF 8pm: 1°
	8147	C/IRAS (1983 c)	13 10.8	+22.7	4	4	midnight: -2.5
	8148	P/RUSSELL (1984 d)	13 15.0	+ 2.2	4	4	
	8149	C/IRAS (1983 c)	13 10.8	+22.7	4	4	
	8150	P/RUSSELL (1984 d)	13 15.0	+ 2.2	4	4	

DATE 1984	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
7/8 APRIL	8151	P/SIN CA, S65-S69	11 <sup>h</sup> 34.4 <sup>m</sup>	+13.0	4	4	BSKIFF moderate Moonlight
	8152	(2922), B40, 1944BA	13 24.9	+9.1	4	4	Moonset at start
	8153	P/SIN CA, S65-S69	11 34.4	+13.0	4	3	fog on Lake Mary
	8154	(2922), B40, 1944BA	13 24.9	+9.1	4	3	2AM: -1°
(both nonexistent)	8155	P/ASHBROOK-JACKSON <sup>B256</sup>	14 19.0	-26.4	4	3	
	8156	(2916), (2975), B257	15 24.4	-23.5	4	3	objective fogged by end
1/2 May	8157	C/SNOEMAKER 1	3 53.2	+35.2	2	2	BSKIFF clouds, twilight
	8158	C/SNOEMAKER 2	4 25.7	+26.7	2	2	clouds, weak twilight
2/3 May	8159	P/ASHBROOK-JACKSON <sup>and B256</sup>	14 28.7	+25.1	4	2	BSKIFF windy from W
	8160	(1073) etc	15 00.2	-20.2	4	2	midnight: 6.5
	8161	P/ASH JAC, B256	14 28.7	-25.1	4	3	
	8162	(1073) etc	15 00.2	-20.2	4	3	nearly calm now
	8163	(152) etc	15 42.7	-19.9	4	3	
	8164	(86) etc	16 21.7	-15.9	4	3	
	8165	(152) etc	15 42.7	-19.9	4	3	
	8166	(86) etc	16 21.7	-15.9	4	3	2AM: 4°
3/4 May	8167	P/ROMMELIN (1983p)	8 16.0	-19.9	4	3	BSKIFF weak Moonlight 8pm: 12°
	8168	B 889 etc	12 34.5	-2.1	4	4	
	8169	B 892, B 902	12 59.0	+3.1	4	4	
	8170	B 889 etc	12 34.5	-2.1	4	4	Moonset at start. 10pm: 10°
	8171	B 892, B 902	12 59.0	+3.1	4	4	
	8172	(1400) etc	15 15.7	-12.7	4	4	
	8173	(1628), B 621	15 21.6	+3.2	4	4	
	8174	(618), (1021)	15 59.9	-0.2	4	4	midnight: 8°
	8175	(1400) etc	15 15.7	-12.7	4	4	
	8176	(1628), B 621	15 21.6	+3.2	4	4	
	8177	(618), (1021)	15 59.9	-0.2	4	4	nice night
31 May / 1 JUNE	<del>8178</del>	<del>B270, B641, T97</del>	<del>15 31.6</del>	<del>-15.5</del>	<del>3</del>	<del>4</del>	<del>BSKIFF thundery day prior</del>
	8178	(2813) etc	16 03.7	-19.1	3	4	
	8179	B306, B631, S38	16 29.8	-18.1	3	4	
	8180	(2813) etc	16 03.7	-19.1	3	4	midnight: 11°
	8181	B306, B631, S38	16 29.8	-18.1	3	4	
	8182	2011A-L	17 05.2	-12.6	3	4	intermittent clouds
	8183	2011P-L	17 05.2	-12.6	2	4	
1/2 JUNE	8184	(1628), B 621	14 57.4	+4.1	3	5	BSKIFF 8pm: 15° weak Moonlight
	8185	B270, B641, T97	15 31.6	-15.5	3	4	10pm: 12°
	8186	(1628), B 621	14 57.4	+4.1	3	4	
	8187	1984 KB	17 15.6	+5.6	3	4	two gated exposures
	8188	B270, B641, T97	15 31.6	-15.5	3	4	
	8189	C/SNOEMAKER (1984F)	16 30.4	+13.7	3	4	
	8190	2011P-L	17 05.1	-12.6	3	4	midnight: 11°

U.T. DATE 1984	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
1/2 JUNE	8191	2011P-L	17 <sup>h</sup> 05 <sup>m</sup> .1	-12.6	4	4	BSKIFF
2/3 JUNE	8192	1984KB	17 10.5	+4.6	4	4	BSKIFF three gated exposures
3/4 JUNE	8193	C/SHOEMAKER (1984f)	16 27.7	+13.4	3	4	BSKIFF some clouds, moderate Moonlight
	8194	1984KB	17 06.0	+3.5	4	4	five gated exposures
	8195	C/SHOEMAKER	16 27.7	+13.4	4	4	midnight: 6°
12/13 June	8196	1984KD	14 00.2	-1.7	4	4	B. Bus 3 gated exps.
	8197	1984KD	14 00.2	-1.7	4	4	B. Bus 3 gated exps.
14/15 June	8198	1984 KD	13 42.5	-12.2	3	4	B. Bus
	8199	1984 KD	13 42.5	-12.2	3	4	B. Bus
2/3 AUGUST	8200	μ FIELD	16 59.0	+45.9	3	5	BSKIFF some Moon, clouds
	8201	C/TAKAMIZAWA (1984j)	21 11.7	-20.0	3	4	transparency better
	8202	C/TAKAMIZAWA (1984j)	21 11.7	-20.0	3	4	midnight: 14°
21/22 August	8203	153, 925 etc.	20 59.9	-5.4	3	4	B. Bus
	8204	84, 721 etc.	21 20.0	-24.1	3	4	B. Bus
	8205	2456, 2661 etc.	21 24.1	-15.2	3	4	B. Bus
	8206	153, 925 etc.	20 59.6	-5.4	3	4	B. Bus
	8207	84, 721 etc.	21 19.5	-24.1	3	4	B. Bus
	8208	2456, 2661 etc.	21 23.9	-15.2	2	4	B. Bus
	8209	543, 835 etc.	22 27.4	+0.2	2	4	B. Bus
	8210	1664, 2248 etc.	22 46.9	-13.5	2	3	B. Bus
	8211	543, 835 etc.	22 27.4	+0.2	2	3	B. Bus
	8212	1664, 2248 etc.	22 46.9	-13.5	3	3	B. Bus
29 Aug 84	8213	84f	15 <sup>h</sup> 21 <sup>m</sup> .9	+3°0	4	4	E. Bowell
	8214	2100	18 <sup>h</sup> 16 <sup>m</sup> .6	+8.7	4	4	~
	8215	153, etc.	20 <sup>h</sup> 54 <sup>m</sup> .3	-6°3	4	4	~
	8216	~	~	~	4	4	~
31 Aug 84	8217	B373	21 19.0	-15.8	4	4	N. Thomas cloud into night
	8218	"	"	"	3-1	3	"
	8219	B384	22 37.3	-14.1	3	3	" 11 min
	8220	B113	22 30.6	-22.3	3	3	"
	8221	B384	22 37.3	-14.1	3	3	"
	8222	B113	22 30.6	-22.3	3	3	"
	8223	B384	22 37.3	-14.1	3	2	"
	8224	82RA	22 28.8	-22.3	3	2	" 48' DOUBLE EXP
	8225	B61	23 37.2	+4.4	3	2	"
	8226	"	"	"	3	3	"
3 SEPTEMBER	8227	P/TAKAMIZAWA etc (1984j)	21 12.4	-24.7	3	3	BSKIFF Moon up (7.4)
	8228	1971SC	21 25.6	-2.8	4	3	dark. midnight: 13°
	8229	P/TAKAMIZAWA etc	21 12.4	-24.7	4	3	pretty low
	8230	1971SC	21 25.6	-2.8	4	3	

U.T. DATE 1984	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEENG	OBSERVER - REMARKS
3 SEPTEMBER	8231	1984QA	0 <sup>h</sup> 03.4 <sup>m</sup>	-14.3	4	4	BSKIFF. two gated exposures
19 SEPTEMBER	8232	MESSIER 6	17 38.2	-32.0	3	2	BSKIFF. 8pm: 13.5
	8233	C/MEIER (1984a)	15 06.4	+10.2	3	3	clouds at end
	8234	C/MEIER (1984a)	15 06.4	+10.2	3	3	clouds at end
	8235	S93-S95	22 15.2	-12.1	3	3	clouds at end
21 SEPTEMBER	8236	1984QA	22 50.2	-24.6	3	4	BSKIFF driven, some clouds
	8237	1984QA	22 50.2	-24.6	3	4	driven. 10pm: 12°
22 SEPTEMBER	8238	C/MEIER (1984a)	14 59.0	+6.9	4	4	BSKIFF
	8239	C/MEIER (1984a)	14 59.0	+6.9	3	3	some clouds
25 SEPTEMBER	8240	S93-S95	21 13.4	-14.0	3	4	BSKIFF
	8241	S96	22 18.4	-25.6	2	4	10pm: 10° .intermittent clouds
	8242	1942RN, etc	22 58.0	-3.8	3	4	some clouds
	8243	S93-S95	21 13.4	-14.0	3	4	
	8244	S96	22 18.4	-25.6	3	4	
	8245	1942RN, etc	22 58.0	-3.8	3	4	
	8246	1940WL, B397	23 37.9	-8.5	3	4	midnight: 9°
	8247	(2351), etc	23 50.0	+4.8	3	4	
	8248	1940WL, B397	23 37.9	-8.5	4	4	
	8249	(2351), etc	23 50.0	+4.8	4	4	
28 SEPTEMBER	8250	S93-S95	22 10.6	-13.8	3	4	BSKIFF. 8pm: 10°
	8251	1942RN, etc	22 55.5	-3.7	3	4	
	8252	B905, B906	23 09.2	+0.2	3	4	
	8253	S93-S95	22 10.6	-13.8	3	4	
	8254	1942RN, etc	22 55.5	-3.7	3	5	10pm: 9°
	8255	B905, B906	23 09.2	+0.2	3	5	
	8256	1974S02, B61, T113	23 21.2	+2.1	3	5	
	8257	1940WL, B397	23 35.9	-8.6	3	5	
	8258	1974S02, B61, T113	23 21.2	+2.1	3	5	
	8259	1940WL, B397	23 35.9	-8.6	3	5	
	8260	(2351), etc	23 47.1	+3.6	3	5	midnight: 7.5
	8261	1973SX3, etc	0 18.6	-5.8	3	5	
	8262	(2351), etc	23 47.1	+3.6	3	5	
	8263	1973SX3, etc	0 18.6	-5.8	3	5	
	8264	1949SF9, etc	1 46.9	+6.3	3	5	fog on lake
	8265	1949SF9, etc	1 46.9	+6.3	3	5	2am: 6°
	8266	C/AUSTIN	7 56.6	+39.3	3	5	
14 OCTOBER	8267	MESSIER 6	17 38.0	-32.0	4	4	BSKIFF 7pm: 11°
	8268	C/SNOE (1984a)	22 56.7	+19.5	4	4	cut short by clouds
	8269	C/SNOE (1984a)	22 56.7	+19.5	3	4	
23 OCTOBER	8270	S134, S136-S138	23 56.0	-9.9	4	5	BSKIFF 10pm: -2°
	8271	(2195) etc	0 36.4	-2.6	4	5	



UT DATE 1984	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
23 OCTOBER	8272	(361), etc S134, S136-S138	1 <sup>h</sup> 00. <sup>m</sup> 8	+ 6. <sup>s</sup> 9	↑	5	BSKIFF
	8273	<del>(2195)</del> , etc	23 56.0	- 9.9	2	4	clouds
	8274	(2195), etc	0 36.4	- 2.6	4	4	midnight: -3.5
	8275	(361), etc	1 00.8	+ 6.9	4	4	
26 OCTOBER	8276	S99, etc	22 41.6	- 5.4	3	3	BSKIFF 7pm: +0.5
	8277	B905, etc	23 06.2	- 0.3	3	3	
	8278	S108, S109	23 20.0	- 9.3	3	3	8pm: 0°
	8279	S112, S114-120	23 31.3	+ 3.2	3	3	
	8280	S99, etc	22 41.6	- 5.4	4	4	
	8281	B905, etc	23 06.2	- 0.3	4	4	10pm: -1.5
	8282	S108, S109	23 20.0	- 9.3	4	4	
	8283	S112, S114-120	23 31.3	+ 3.2	4	4	
	8284	(83), etc	1 24.1	+ 6.8	4	4	
	8285	(650), etc	1 47.2	+ 14.3	4	4	
	8286	(2622), etc	2 17.3	- 7.1	4	4	midnight: -2°
	8287	(83), etc	1 24.1	+ 6.8	4	4	
	8288	(650), etc	1 47.2	+ 14.3	4	4	
	8289	(2622), etc	2 17.3	- 7.1	4	4	
	8290	(309), etc	3 01.0	+ 20.2	4	4	2am: -2°
	8291	(162), etc	3 56.3	+ 24.9	4	4	
	8292	(309), etc	3 01.0	+ 20.2	4	5	
	8293	(162), etc	3 56.3	+ 24.9	4	5	
	8294	C/ARNO-RIC (1984k)	7 02.6	- 2.1	4	5	4am: -2.5
	8295	C/HAR-LAR (1984g)	9 02.0	+ 8.6	4	5	
	8296	C/AR-Ri (1984k)	7 02.6	- 2.1	4	5	
	8297	C/WO-HAR (1984g)	9 02.0	+ 8.6	↑	5	5am: -2.5 nice night
29 OCTOBER	8298	C/TAKAMIZAWA (1984j)	21 49.8	- 22.3	3	5	BSKIFF. moonlight, 7pm: 4°
	8299	S134, S136-S138	23 54.6	- 10.0	3	5	
	8300	C/TAKAMIZAWA (1984j)	21 49.8	- 22.3	3	5	
	8301	S131	0 03.4	- 1.8	3	5	8pm: 2°
	8302	(2195), etc	0 29.9	- 1.1	↑	5	Moonset at end of exposure
	8303	S134, S136-S138	23 54.6	- 10.0	4	5	
	8304	S131	0 03.4	- 1.8	4	5	10pm: +0.5
	8305	(2195), etc	0 29.9	- 1.1	4	5	
	8306	(216), 1919AC, B310	0 48.0	- 10.6	4	4	W wind picking up
	8307	(361), etc	0 55.9	+ 6.4	4	4	
	8308	(216), 1919AC, B310	0 48.0	- 10.6	4	4	
	8309	(361), etc	0 55.9	+ 6.4	4	4	midnight: 2°
	8310	SHOEMAKER FMO	1 32.8	+ 18.6	4	4	

UT DATE 1984	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER-REMARKS
OCTOBER 29	8311	(508), etc	2 <sup>h</sup> 07.2	+10.1	4	4	BSKIFF
	8312	SHOEMAKER FMO	1 32.8	+19.6	4	4	
	8313	(508), etc	2 07.2	+10.1	4	4	
	8314	(292), etc	2 50.5	+11.9	4	4	
	8315	C/AUSTIN (1984L)	3 32.4	+46.7	4	4	2am: 1.5
	8316	C/AUSTIN (1984L)	3 32.4	+46.7	4	4	
	8317	(292), etc	2 50.5	+11.9	4	4	
OCTOBER 31	8318	(83), etc	1 19.0	+7.0	4	4	BSKIFF. Moonset during exposure
	8319	(508), etc	2 04.4	+9.7	4	4	
	8320	(83), etc	1 19.0	+7.0	4	4	
	8321	(508), etc	2 04.4	+9.7	4	4	midnight: 2°
	8322	(292), etc	2 50.0	+12.0	4	3	
	8323	(309), etc	2 57.3	+20.3	4	3	
	8324	(292), etc	2 50.0	+12.0	4	3	
	8325	(309), etc	2 57.3	+20.3	4	3	
1 NOVEMBER	8326	C/SHOEMAKER (1984r)	3 14.4	+17.6	4	3	BSKIFF. midnight: 0°
	8327	C/SHOEMAKER (1984r)	3 14.4	+17.6	4	3	
18 NOVEMBER	8328	(284), etc	2 31.2	+19.6	4	4	BSKIFF. humid
	8329	(23), etc	2 57.8	+13.9	4	4	fog on lake
	8330	(535), etc	4 01.3	+20.2	4	4	
	8331	(284), etc	2 31.2	+19.6	4	4	midnight: -4°
	8332	(23), etc	2 57.8	+13.9	4	4	
	8333	(535), etc	4 01.3	+20.2	4	4	
20 NOVEMBER	8334	C/LEVY-RUDENKO (1984t)	18 45.6	+12.6	5	4	BSKIFF 6pm: 0° <sup>some</sup> twilight
	8335	P/TAKAMIZAWA (1984j)	22 16.1	-19.6	5	4	
	8336	C/LEVY-RUDENKO (1984t)	18 45.6	+12.6	5	4	
	8337	P/TAKAMIZAWA (1984j)	22 16.1	-19.6	5	4	
	8338	B908-B910, B912	0 25.4	-4.0	5	4	8pm: -3°
	8339	B916, B926, S144	1 26.5	+8.1	5	4	
	8340	B933, B934, B939	1 22.7	+16.0	5	4	
	8341	C/AUSTIN (1984i)	1 02.6	+29.8	5	4	
	8342	C/AUSTIN (1984i)	1 02.6	+29.8	5	4	
	8343	B908-B910, B912	0 25.4	-4.0	5	4	10pm: -3°
	8344	B916, B926, S144	1 26.5	+8.1	5	4	
	8345	B933, B934, B939	1 22.7	+16.0	5	4	
	8346	<del>transmitt</del> C/SNOE	2 32.5	+35.3	5	4	
	8347	(227), etc	3 24.9	+28.9	5	4	midnight: -4.5
	8348	C/SHOEMAKER	2 32.5	+35.3	5	4	
	8349	(227), etc	3 24.9	+28.9	5	4	
	8350	(751), etc	4 57.6	+16.1	4	4	

UT DATE 1984/5	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER-REMARKS
20 November	8351	(1654), 1975RU2, B372	5 <sup>h</sup> 04.0 <sup>m</sup>	+31.3	4	4	BSKIFF
	8352	(425), etc	5 27.0	+23.0	4	4	
	8353	(751), etc	4 57.6	+16.1	4	4	2Am: -4°
	8354	(1654), 1975RU2, B372	5 04.0	+31.3	4	4	
	8355	(425), etc	5 27.0	+23.0	4	4	
	8356	P/AREND-RIGAUZ (1924t)	8 00.7	-2.0	4	4	
	8357	P/WOLF-HAR (1984g)	9 44.4	-1.7	4	3	
	8358	P/AREND-RIGAUZ (1924t)	8 00.7	-2.0	4	4	
	8359	P/WOLF-HAR (1924g)	9 44.4	-1.7	4	3	4pm: -5° fine night
24 November	8360	B950, etc	2 27.8	+11.2	4	2	BSKIFF. Fog on lake
	8361	(535), etc	3 56.2	+19.9	4	2	
	8362	B950, etc	2 27.8	+11.2	3	2	midnight: -4°. Fog on Mesa.
	8363	(535), etc (1984t)	3 56.2	+19.9	3	2	seeing, fog too bad
27 November	8364	P/LEVY-RUDENKO (1924t)	18 42.6	+16.4	4	2	BSKIFF. 6am: -7.5 Moonlight
	8365	C/LEVY-RUDENKO (1924t)	18 42.6	+16.4	4	2	
	8366	B933, B934, B939	1 19.8	+16.0	4	2	
	8367	1980VN1, etc	1 59.5	+8.0	4	2	
	8368	B933, B934, B939	1 19.8	+16.0	4	3	6pm: -11.5
	8369	1980VN1, etc	1 59.5	+8.0	4	3	Moonset at end
	8370	(23), etc	2 50.9	+13.1	4	3	
	8371	(227), etc	3 18.3	+28.8	4	3	
	8372	C/SHOEMAKER (1984u)	2 56.6	+22.7	4	3	10pm: -12°. Fog on lake
	8373	(23), etc	2 50.9	+13.1	4	3	
	8374	(227), etc	3 18.3	+28.8	4	3	
	8375	C/SHOEMAKER (1984u)	2 56.6	+22.7	4	3	
	8376	(1617), 1975SF	4 20.0	+2.6	4	3	midnight: -13°
	8377	(1670), etc	4 28.2	+23.9	4	3	
	8378	(751), etc	4 52.0	+16.1	4	3	
	8379	(1617), 1975SF	4 20.0	+2.6	4	3	
	8380	(1670), etc	4 28.2	+23.9	4	3	
	8381	(751), etc	4 52.0	+16.1	4	3	
	8382	(1654), 1972RU2, B372	4 56.4	+31.4	4	3	2Am: -14°
	8383	(351), etc	5 59.5	+20.7	4	3	
	8384	1983TB	5 41.9	+39.8	4	3	plate loaded upside-down
	8385	1983TB	5 41.9	+39.8	4	3	two gated exposures
	8386	(1654), 1972RU2, B372	4 56.4	+31.4	4	3	
	8387	(351), etc (1984g)	5 59.5	+20.7	4	3	4Am: -14°. Frigid.
JANUARY 18	8388	P/SHOEMAKER I (1984g)	0 14.2	+29.3	3	3	BSKIFF
19 JANUARY	<del>8389</del>	<del>P/SHOEMAKER J (1984g)</del>	<del>0 17.2</del>	<del>+23.2</del>	<del>5</del>	<del>4</del>	<del>BSKIFF</del>
	<del>8389</del>	<del>(1984g)</del>	<del>0 17.2</del>	<del>+20.8</del>	<del>5</del>	<del>4</del>	<del>6am: 0°</del>
	8390	P/SHOEMAKER I (1984g)	0 17.2	+29.2	5	4	

UT DATE 1985	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SERIES	OBSERVER - REMARKS
19 JANUARY	8391	C/AUSTIN (1984i)	0 34.0	+15.3	5	4	BSKIFF 8pm: 4° (bdmy!)
	8392	C/SHOEMAKER (1984r)	1 51.9	+11.5	5	4	
	8393	C/AUSTIN (1984i)	0 34.0	+15.3	5	4	
	8394	C/SHOEMAKER (1984r)	1 51.9	+11.5	5	4	
	8395	C/SHOEMAKER (1984s)	4 48.8	-18.3	5	4	
	8396	C/SHOEMAKER (1984s)	4 48.8	-18.3	5	4	
	8397	7, B371	5 07.5	+20.6	5	4	10pm: 3.5
	8398	1700, 1700, B371	5 40.2	+30.6	5	4	
	8399	677, etc	6 07.3	+20.2	5	4	
	8400	7, B371	5 07.5	+20.6	5	4	
	8401	1700, 1700, B371	5 40.2	+30.6	5	4	midnight: 0.5
	8402	677, etc	6 07.3	+20.2	5	4	
	8403	982, etc	8 04.6	+23.7	5	4	
	8404	1819, etc	8 42.1	+18.8	5	4	
	8405	899, 81EE27, B168	9 54.0	-4.0	5	4	2Am: 1.5
	8406	982, etc	8 04.6	+23.7	5	4	
	8407	1819, etc	8 42.1	+18.8	5	4	
	8408	899, 1981EE27, B168	9 54.0	-4.0	5	4	beautiful night
20 JANUARY	8409	1700, 1700, B371	5 39.0	+30.5	5	4	BSKIFF 8pm: 0.5
	8410	677, etc	6 06.6	+20.2	5	4	
	8411	1700, 1700, B371	5 39.0	+30.5	5	5	
	8412	677, etc	6 06.6	+20.2	5	5	
	8413	156, etc	6 11.8	+12.1	5	5	10pm: -1°
	8414	1244, etc	6 39.9	+21.8	5	5	
	8415	156, etc	6 11.8	+12.1	5	5	
	8416	1244, etc	6 39.9	+21.8	5	5	another beautiful night
21 JANUARY	8417	7, B371	5 07.8	+20.8	5	4	BSKIFF 10pm: -2°
	8418	7, B371	5 07.8	+20.8	5	5	
	8419	B46, B3ICE, B465	8 46.7	+29.8	5	4	
	8420	B69	8 54.9	+46.6	5	4	midnight: -3°
	8421	1946, 193ICE, B465	8 46.7	+29.8	5	3	
	8422	B69	8 54.9	+46.6	5	3	2Am: -2°
	8423	P/AREND-RIGANX (1984k)	9 03.6	+19.8	5	3	
	8424	P/AREND-RIGANX (1984k)	9 03.6	+19.8	5	3	
	8425	C/MEIER (1984o)	11 13.3	-32.6	5	3	
	8426	C/MEIER (1984o)	11 13.3	-32.6	5	3	4Am: -3°
25 FEBRUARY	8427	P/AREND-RIGANX (1984k)	9 00.4	+33.1	4	5	BSKIFF
	8428	193ICE27, B168	9 28.0	+0.5	4	5	
	8429	C/LEVY-RUDENKO (1984t)	8 52.0	+57.8	4	5	
	8430	B70WH14, B171	9 37.8	+14.0	4	5	midnight: -4°

UT DATE 1985	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
25 FEBRUARY	8431	P/AREND-RIGAUX (1984k)	9 <sup>h</sup> 00. <sup>m</sup> 4	+33.1	4	5	BSKIFF
	8432	1981EE 27, B168	9 28.0	+ 0.5	4	5	
	8433	C/LEVY-RUDENKO (1984k)	8 52.0	+57.8	4	5	
	8434	1978WH14, B171	9 37.8	+14.0	4	5	
	8435	B 812	11 04.1	+21.9	4	5	
	8436	1983WB, B825	11 29.4	+17.9	4	5	2Am: -1°C
	8437	1978PA	11 25.2	+42.3	4	5	
	8438	B 812	11 04.1	+21.9	4	5	
	8439	1983WB, B825	11 29.4	+17.9	4	5	
	8440	1978 PA	11 25.2	+42.3	4	5	4Am: -5°. fine night
18 MARCH	8441	1981FB, etc	9 15.3	+ 3.3	4	4	BSKIFF 10pm: 0°
	8442	1283, etc	9 18.0	+16.4	4	3	
	8443	1981FB, etc	9 15.3	+ 3.3	4	3	
	8444	1283, etc	9 18.0	+16.4	4	3	clouds approaching
21 MARCH	8445	224, etc	11 00.5	+ 9.0	4	4	BSKIFF
	8446	784, etc	11 05.7	+17.5	4	4	
	8447	328, etc	11 26.5	+ 7.9	4	4	midnight: +0.5
	8448	247, etc	12 25.0	- 8.5	4	4	
	8449	224, etc	11 00.5	+ 9.0	4	4	clouds W,S
	8450	784, etc	11 05.7	+17.5	4	4	
	8451	328, etc	11 26.5	+ 7.9	3	4	fog on lake
	8452	247, etc	12 25.0	- 8.5	3	3	
22 MARCH	8453	P/LEVY-RUDENKO (1984k)	8 15.0	+29.9	4	4	BSKIFF
	8454	1981EM4	8 31.0	+19.5	4	4	
	8455	SA 29	9 42.0	+44.7	4	4	10pm: 0°
	8456	P/AREND-RIGAUX (1984k)	9 14.7	+34.8	4	4	
	8457	P/LEVY-RUDENKO (1984k)	8 15.0	+29.9	4	4	
	8458	1981EM4	8 31.0	+19.5	4	4	
	8459	P/AREND-RIGAUX (1984k)	9 14.7	+34.8	4	4	
	8460	1169, etc	11 16.6	- 2.0	4	4	
	8461	387, etc	11 28.1	+22.5	4	4	
	8462	1453, etc	11 59.9	+ 4.5	4	3	midnight: -2°
	8463	625, etc	12 46.6	+12.0	4	3	
	8464	1169, etc	11 16.6	- 2.0	4	3	
	8465	387, etc	11 28.1	+22.5	4	3	
	8466	1453, etc	11 59.9	+ 4.5	4	3	2Am: -0.5
	8467	625, etc	12 46.6	+12.0	4	3	
24 MARCH	8468	1981FB, etc	9 14.5	+33.1	4	5	BSKIFF 8pm: 5°
	8469	1283, etc	9 16.1	+17.0	4	5	
	8470	P/LEVY-RUDENKO (1984k)	8 14.1	+32.8	4	5	

UT DATE 1985	PLATE NUMBER	OBJECTS	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
24 MARCH	8471	P/Lew-Rudenko (1984t)	8 <sup>h</sup> 14.1	+32.8	4	4	BSKIFF
	8472	1981FB, etc	9 14.5	+33.1	4	4	10pm: 2°
	8473	1283, etc	9 16.1	+17.0	4	4	
	8474	265, 1471, 1983RD	10 17.7	- 1.5	4	4	
	8475	P/BUCHINGHAM (1984p), etc	10 27.6	+28.9	4	4	
	8476	265, 1471, 1983RD	10 17.7	- 1.5	4	4	midnight: 0°5
	8477	P/BUCHINGHAM (1984p), etc	10 27.6	+28.9	4	4	
	8478	247, etc	12 15.3	- 8.0	4	4	
	8479	SA 55	11 32.5	+28.0	4	4	
	8480	247, etc	12 15.3	- 8.0	4	4	
	8481	36, etc	12 58.5	- 8.8	4	4	
	8482	88, etc	13 42.3	-14.6	4	4	2Am: 2°
	8483	36, etc	12 58.5	- 8.8	4	4	
31 MARCH	8484	88, etc	13 42.3	-14.6	4	4	
	8485	C/SNOE = 1985FA suspect	14 25.6	+17.2	4	3	BSKIFF + GENE SHUEMAKER
	8486	C/SNOE suspect	14 25.6	+17.2	4	3	4Am: -2° HUNGARIA-TYPE ASTEROID?
14 APRIL	8487	B995, 996, 998, 999	11 51.7	- 6.6	4	4	BSKIFF 10pm: 9°
	8488	B1023-1026	12 27.2	+12.0	4	4	
	8489	1632, etc	13 56.0	- 8.9	4	4	
	8490	B995, 996, 998, 999	11 51.7	- 6.6	4	4	midnight: 7°5
	8491	B1023-1026	12 27.2	+12.0	4	4	
	8492	1632, etc	13 56.0	- 8.9	4	4	
15 APRIL	8493	1730, etc	13 21.0	+0.9	4	4	BSKIFF 10pm: 10°5
	8494	2204, 2733, 1977OC1, 1982AF	13 53.3	+ 9.1	4	4	
	8495	1357, 1932CN, B137	13 59.3	+0.4	4	4	
	8496	1730, etc	13 21.0	+0.9	4	4	
	8497	2204, 2733, 1977OC1, 1982AF	13 53.3	+ 9.1	4	4	midnight: 9°5
	8498	1357, 1932CN, B137	13 59.3	+0.4	4	4	
	8499	1139, 1980DD1	14 30.0	-13.9	4	4	
	8500	976, etc	14 56.5	-15.1	4	4	
	8501	1139, 1980DD1	14 30.0	-13.9	4	4	2Am: 7°5
	8502	976, etc	14 56.5	-15.1	4	4	nice night
23 APRIL	8503	B1023-1026	12 22.7	+12.0	4	2	BSKIFF 10pm: 2°
	8504	B1055-1058	13 06.5	- 1.5	4	2	
	8505	B1029-1039	13 48.6	- 7.6	4	2	
	8506	B1023-1026	12 22.7	+12.0	4	2	midnight: -0°5
	8507	B1055-1058	13 06.5	- 1.5	4	2	
	8508	B1029-1039	13 48.6	- 7.6	4	2	
24 April	8509	B1040 - B1047	13 49.9	+2.3	4	3	SJB
	8510	B1063 - B1066	14 20.9	-17.5	4	3	

UT Date 1985	Plate Number	Object	RA	Dec	Trans	Seeing	Observer - Remarks
24 April	8511	85FA, B1051-B1062	13 55.3	+14.5	34	3	STB
	8512	B1040 - B1047	13 49.9	+2.3	4	4	
	8513	B1063 - B1066	14 20.9	-17.5	4	4	
	8514	85FA, B1059-B1062	13 55.3	+14.5	4	4	
25 APRIL	8515	391, etc	13 53.2	-17.7	3	4	BSKIFF clouds threatening
	8516	B801	14 16.1	+5.4	3	4	midnight: 5.5
	8517	391, etc	13 53.2	-17.7	3	4	
	8518	B801	14 16.1	+5.4	3	4	cruddy sky
15 MAY	8519	391, etc	13 34.9	-8.4	3+	4+	N. Thomas
	8520	B1040, etc.	13 37.9	+5.1	4	4+	
	8521	391, etc	13 34.9	-8.4	4	4+	
	8522	B1040, etc.	13 37.9	+5.1	4+	4+	
	8523	136, etc.	15 25.0	-7.9	4-	4+	midnight: 9.0
	8524	"	"	"	4-	4+	
18 May	8525	<del>B1055 etc</del> B1055 etc	<del>12 55.2</del> 12 55.2	+2.6	3+	3+	N. Thomas - Huge on arrival
	8526	B1055, etc.	12 55.2	+2.6	3+	3+	
	8527	Shoemaker FMO	15 09.2	-12.51	3+	3+	4x5
	8528	136, etc.	15 14.0	-8.2	3+	3+	
	8529	FMO	15 09.2	-12.51	3+	3+	4x5
	8530	136, etc.	15 14.0	-8.2	3+	3-	
20 MAY	8531	194, 77, X4, etc	13 40.0	+12.7	3+	3+	N. Thomas
	8532	85JA	15 07.1	-7.46	3	3+	
	8533	"	15 07.1	-7.46	3	4-	
	8534	"	15 07.1	-7.46	3-0	4-	clouds
21 MAY	8535	194, 77, X4, etc.	13 39.7	+12.6	4	4	N. Thomas
	8536	B1064, etc.	14 04.4	-12.9	4-	3+	
	8537	194, etc.	13 39.7	+12.6	3+	4	
	8538	B1064, etc.	14 04.4	-12.9	3-	2+	
	8539	136, 81DK1, etc.	15 13.0	-8.1	3+	2	8.8° c midnight
	8540	"	"	"	4-	2+-2-	
1 June	8541	Comet <sup>(1985c)</sup> Machholz	1 21.0	+17.3	4	2	S. J. Bus 9x10
	8542	"	"	"	4	2	8x10
5 June	8543	"	1 50.8	+19.5	4	3	S. J. Bus 4x5
	8544	"	"	"	4	3	4x5
7 June	8545	"	2 05.5	+20.2	4	3	S. J. Bus 4x5
	8546	"	"	"	4	3	4x5
13 JUNE	8547	C/MACHOLZ (1985c)	3 02.4	+22.5	3	2	BSKIFF + STB twilight + Moon
14 JUNE	8548	C/MACHOLZ (1985c)	3 13.4	+22.4	4	2	BSKIFF twilight + Moon
15 JUNE	8549	C/MACHOLZ (1985c)	3 23.9	+23.1	4	2	SSB
16 JUNE	8550	C/MACHOLZ (1985c)	3 34.1	+23.3	3	2	BSKIFF

UT DATE 1985	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
16 JUNE	8551	C/MACHHOLZ(1985)	3 <sup>h</sup> 34. <sup>m</sup> 1	+23.3	3	2	BSKIFF. 4am: 13°
17 June	<del>8552</del>	C/Machholz(1985)	3 <sup>h</sup> 46. <sup>m</sup> 9	+23.5	4	1	SJ Bus
<del>19</del> 20 JUNE	8553	<del>EV LACERTAE</del>	<del>22 44.0</del>	<del>+11.2</del>	<del>4</del>	<del>3</del>	BSKIFF 4am: 12°
	8554	C/MACHHOLZ(1985)	4 23.8	+23.7	Ø	Ø	through trees [blank]
22 JUNE	8555	M24 STAR CLOUD	18 16.2	-18.0	4	4	BSKIFF
	8556	1673, etc	19 24.5	-17.0	4	4	hyperd 3 <sup>h</sup> @ 60C
	8557	487, etc	21 16.1	-17.6	4	3	hyperd
	8558	1673, etc	19 24.5	-17.0	4	4	unhyperd
	8559	487, etc	21 16.1	-17.6	4	3	unhyperd. 2am: 12°
	8560	1673, etc	19 24.5	-17.0	4	3	hyperd.
	8561	487, etc	21 16.1	-17.6	4	3	hyperd
14 AUGUST	8562	2596, etc	22 13.7	-9.9	4	4	BSKIFF. 10pm: 15°
	8563	996, etc	22 51.0	-11.5	4	4	midnight: 13.5
	8564	241, etc	22 56.6	-1.1	4	4	
	8565	2596, etc	22 13.7	-9.9	4	4	
	8566	996, etc	22 51.0	-11.5	4	4	
	8567	241, etc	22 56.6	-1.1	4	4	2am: 10.5
15 AUGUST	8568	ρ CAPRICORN	20 26.4	-17.7	4	4	BSKIFF 10pm: 13°
	8569	θ CAPRICORN	21 03.4	-17.0	4	4	
	8570	κ2 CAPRICORN	21 39.0	-13.9	4	4	
	8571	ρ CAPRICORN	20 26.4	-17.7	4	4	
	8572	θ CAPRICORN	21 03.4	-17.0	4	4	
	8573	κ2 CAPRICORN	21 39.0	-13.9	4	4	midnight: 12°
	8574	2860, etc	23 58.5	+3.2	4	4	2am: 10° fine night
20 AUGUST	8575	<del>2860</del> B571, etc	<del>23</del> 58.5	+ <del>3.2</del>	4	4	BSKIFF lightning S+SE
	8576	B571, etc	22 08.0	-9.3	4	4	
	8577	B1099, B1107	22 41.0	-10.5	4	4	
	8578	B1110 - B1113	23 05.0	-0.1	4	3	midnight: 14°
	8579	509, etc	23 28.0	+17.7	4	3	
	8580	B571, etc	22 08.0	-9.3	4	3	
	8581	B1099 - B1107	22 41.0	-10.5	4	3	
	8582	B1110 - B1113	23 05.0	-0.1	4	3	2am: 12°
	8583	509, etc	23 28.0	+17.7	4	3	
22 AUGUST	8584	P/GIACOBINI-ZINNER	4 10.5	+49.2	4	3	BSKIFF
	8585	P/GIACOBINI-ZINNER	4 10.5	+49.2	4	3	
	8586	B571, etc	22 05.0	-9.1	4	4	midnight: 14.5
	8587	698, B617, B681	0 06.8	-11.0	4	4	
	8588	580, etc	0 21.7	-0.4	4	4	
	8589	B571, etc	22 05.0	-9.1	4	4	2am: 12.5
	8590	698, B617, B681	0 06.8	-11.0	4	4	



UT DATE 1985	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
22 AUGUST	8591	580, etc	0 <sup>h</sup> 21.7	- 0.4	4	4	BSKIFF
<del>12 SEPTEMBER</del>	8592	1982UP, etc	21 47.9	- 11.6	4	4	BSKIFF (+DAVE EICHER)
	8593	1985PA1, etc	22 45.6	- 5.3	4	4	fog on lake
	8594	1984DA, etc	23 48.1	- 10.0	4	3	midnight: 2°
	8595	1982UP, etc	21 47.9	- 11.6	4	3	
	8596	1985PA1, etc	22 45.6	- 5.3	4	3	
	8597	1984DA, etc	23 48.1	- 10.0	4	3	2Am: -0.5
14 SEPTEMBER	8598	<sup>(1985k)</sup> P/MAURY, B1088, B1090	21 33.1	- 3.9	4	4	BSKIFF 10pm: 11.5
	8599	1985PS, etc	22 24.8	- 15.1	4	4	
	8600	1982TR, etc	23 42.2	- 0.5	4	4	
	8601	1985Q0, etc	0 08.1	- 1.8	4	4	midnight: 11°
	8602	<sup>(1985k)</sup> P/MAURY, B1088, B1090	21 33.1	- 3.9	4	4	
	8603	1985PS, etc	22 24.8	- 15.1	4	4	
	8604	1982TR, etc	23 42.2	- 0.5	4	4	2Am: 13°
	8605	<sup>(1985L)</sup> C/HARTLEY - GOOD	1 01.8	- 27.8	4	3	
	8606	1985Q0, etc	0 08.1	- 1.8	4	4	
	8607	<sup>(1985L)</sup> C/HARTLEY - GOOD	1 01.8	- 27.8	4	3	beautiful night
18 SEPTEMBER	8608	1985PE1, etc	23 38.9	- 0.7	3	4	BSKIFF 10pm: 11.5
	8609	1985Q0, etc	0 03.5	- 2.1	3	4	lots of lightning S+SE
	8610	1985PE1, etc	23 38.9	- 0.7	3	4	midnight: 11°
	8611	1985Q0, etc	0 03.5	- 2.1	3	4	some clouds
12 OCTOBER	8612	1985PG1, etc	23 45.1	- 3.4	5	5	BSKIFF 8pm: 3.5 humid
	8613	1978ST6, B632, B633	0 06.1	+ 11.2	5	5	
	8614	B881, B882	0 24.1	- 2.6	5	5	10pm: 2°; thick fog on Mesa
	8615	1985PG1, etc	23 45.1	- 3.4	4	5	fog below Mesa rim; returned
15 OCTOBER	8616	1978ST6, B632, B633	0 02.2	+ 11.2	5	4	BSKIFF, NE wind
	8617	B881, B892	0 20.8	- 2.5	5	4	
	8618	1969DA, B636	0 29.0	+ 16.8	5	4	10pm: 1°
	8619	1978ST6, B632, B633	0 02.2	+ 11.2	5	4	
	8620	B881, B892	0 20.8	- 2.5	5	4	
	8621	1969DA, B636	0 29.0	+ 16.8	5	4	
	8622	SHOEMAKER 610	1 19.5	+ 8.7	5	4	midnight: -0.5
	8623	C/TRIPLE (1985m)	5 40.8	+ 24.3	5	4	
	8624	C/TRIPLE (1985m)	5 40.8	+ 24.3	5	4	
	8625	SHOEMAKER 610	1 19.5	+ 8.7	5	4	
20 October	8626	Shoemaker 610	1 13.0	+ 8.6	5	4	S. J. Bus
	8627	Shoemaker 610	1 13.0	+ 8.6	5	4	
7 NOVEMBER	8628	1039, etc	0 08.4	+ 2.2	4	4	BSKIFF 8pm: 3°
	8629	B1167, etc	1 04.0	+ 6.8	4	4	
	8630	456, etc	1 35.0	+ 12.2	4	4	10pm: 1°

UT DATE 1985	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
7 NOVEMBER	8631	1039, etc	0 <sup>h</sup> 08. <sup>m</sup> 4	+ 2.2	4	5	BSKIFF
	8632	B1167, etc	1 04.0	+ 6.8	4	5	
	8633	456, etc	1 35.0	+12.2	4	5	midnight: $\emptyset$
14 December	8634	← Halley	23 <sup>h</sup> 22.8	+4 28	5	3	H Giclas
"	8635	"	"	"	"	"	"
"	8636	← Giclas	3 <sup>h</sup> 02 <sup>m</sup>	+6 35	"	"	"
"	8637	"	"	"	"	"	"
15 December	8638	← Halley	23 <sup>h</sup> 16	+4 <sup>o</sup> 00	5	4	"
"	8639	"	"	"	"	"	"
"	8640	"	"	"	"	"	"
"	8641	"	"	"	"	"	"
"	8642	← Giclas	3 <sup>h</sup> 02 <sup>m</sup>	+7 10'	"	"	"
17 DECEMBER	8643	2292, 3162, 1976QR	4 16.8	- 1.7	5	3	BSKIFF weak Moonlight
	8644	B120	6 22.2	+50.3	5	3	brief double exposure
	8645	2292, 3162, 1976QR	4 16.8	- 1.7	5	3	midnight: -6°
	8646	B120	6 22.2	+50.3	5	3	
	8647	2984, DRICK, 1984AB	7 06.5	+20.7	5	3	
	8648	2984, DRICK, 1984AB	7 06.5	+20.7	5	3	2Am: -7°
18 DECEMBER	8649	2984, DRICK, 1984AB	7 04.9	+20.8	4	3	BSKIFF midnight: -2.5
	8650	445, etc	7 27.5	+27.9	3	3	thin cirri
	8651	901, etc	7 32.8	+20.1	3	3	
	8652	2984, DRICK, 1984AB	7 04.9	+20.8	3	4	2Am: -4°
	8653	445, etc	7 27.5	+27.9	4	4	
	8654	901, etc	7 32.8	+20.1	4	4	
1986 2 January	8655	← Halley	22 <sup>h</sup> 14	-2 <sup>o</sup> 42'	4	3	H Giclas
"	8656	"	"	"	4	3	"
"	8657	← Giclas	3 <sup>h</sup> 08 <sup>o</sup>	+9 <sup>o</sup> 15'	4	4	"
4 January	8658	← Halley	22 <sup>h</sup> 10 <sup>m</sup>	-3 <sup>o</sup> 10'	3	3	"
7 "	8659	"	22 03	-4 40	0-1	2	" clouds + poor seeing
8 "	8660	"	22 06	-3 25	5	3	"
"	8661	"	"	"	5	3	"
"	8662	← Giclas	3 <sup>h</sup> 08.3	+9 <sup>o</sup> 15'	5	5	"
9 "	8663	← Halley	22 08	-3 50	5	3	"
10 "	8664 <sup>a</sup>	"	22 08	-3 30	5	3	"
"	8665	"	"	"	"	"	"
11 "	8666 <sup>a</sup>	"	22 <sup>h</sup> 03	-3 30	5	4	"
"	8667	"	"	"	"	"	"
11 JANUARY	8668	16/65 SEARCH FIELD #1	4 22.7	+17.8	4	5	BSKIFF + KATHERINE ALEXANDER
	8669	16/65 SEARCH FIELD #2	4 43.5	+18.6	4	5	AND IRWIN HOROWITZ
	8670	2899, etc	6 36.6	+26.3	4	5	(visiting MIT students)

← cirrus on both nights -BS.

1986 UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
11 JANUARY	8671	1981 WM etc	7 <sup>h</sup> 02.0	+28.3	4	5	BSKIFF 10 pm: 1.5
	8672	896, 1827, B62	7 30.9	+11.7	4	5	
	8673	2899 etc	6 36.6	+26.3	4	5	
	8674	1981 WM etc	7 02.0	+28.3	4	5	midnight: 0.5
	8675	896, 1827, B62	7 30.9	+11.7	4	5	
	8676	998 etc	8 29.0	+19.2	4	5	
	8677	1979TZ1 etc	9 00.5	+17.9	4	5	2 am: -1°
	8678	998 etc	8 29.0	+19.2	4	5	
	8679	1979TZ1 etc	9 00.5	+17.9	4	5	fine night
12 JANUARY	8680	♄ Halley	21 <sup>h</sup> 59 <sup>m</sup>	-4° 50'	5	4	H. Gales
	8681	"	"	"	"	"	"
	8682	451 SEARCH FIELD	5 41.2	+27.9	4	5	KALEXANDER
	8683	511 SEARCH FIELD	6 01.0	+23.4	4	5	I HOROWITZ. 10 pm: 0°
	8684	18 SEARCH FIELD	6 30.4	+14.3	4	5	KALEXANDER
	8685	1657 etc	7 27.9	+27.1	4	5	BSKIFF
	8686	45 etc	7 48.2	+19.0	4	5	BSKIFF
	8687	833 etc	8 14.1	+30.7	4	5	BSKIFF
	8688	1657 etc	7 27.9	+27.1	4	5	I HOROWITZ. midnight: -1.5
	8689	45 etc	7 48.2	+19.0	4	5	
	8690	833, 1426, 8665	8 14.1	+30.7	4	5	
	8691	1973DT, etc	9 22.1	+23.1	4	5	2 am: -1. BSKIFF
	8692	518, etc	9 44.2	+7.3	4	5.4	
	8693	1973DT, etc	9 22.1	+23.1	4	4	
	8694	518, etc	9 44.2	+7.3	4	4	4 am: -2°. another fine night
	8695	♄ Halley	21 <sup>h</sup> 58 <sup>m</sup>	-7° 30'	5	3	H. Gales Moon 1/4 lit
17 JANUARY	8696	45 etc	7 43.2	+18.9	3	4	BSKIFF. thin clouds. midnight: -1°
	8697	1979TZ1, 1986AA etc (1986a)	8 52.5	+16.5	3	4	
	8698	C/SNOEMAKER	9 36.6	+21.5	2	4	
	8699	45 etc	7 43.2	+18.9	3	4	2 am: -1.5
	8700	1979TZ1, 1986AA etc	8 52.5	+16.5	3	4	
	8701	C/SNOEMAKER (1986a)	9 36.6	+21.5	3	4	
5 FEBRUARY	8702	B1250, H1	6 11.4	+9.3	5	4	BSKIFF 8 pm: -5°
	8703	1985YB, 1985YH, H22	6 13.1	+18.6	5	4	
	8704	1982BS, etc	7 34.3	+19.4	5	4	
	8705	B1250, H1	6 11.4	+9.3	5	4	10 pm: -5.5
	8706	1985YB, 1985YH, H22	6 13.1	+18.6	5	4	
	8707	1982BS, etc	7 34.3	+19.4	3	4	
5 MARCH	8708	<del>B1250</del>	7 18.8	+13.3	4	5	BSKIFF
	8709	B1259	7 18.8	+13.3	4	5	8 pm: 5°
	8710	1976EC, B164	9 14.8	+13.3	4	5	

1986 UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
5 MARCH	8711	939 etc	9 <sup>h</sup> 42. <sup>m</sup> 4	+12.7	4	5	BSKIFF
	8712	B1259	7 16. <sup>3</sup> 8	+13.3	4	5	
	8713	1976EC, B164	9 14.8	+13.3	4	5	10pm: 4°
	8714	939 etc	9 42.4	+12.7	4	5	
	8715	149 etc	11 14.3	+ 6.8	4	5	
	8716	1124 etc	11 40.4	+ 5.9	4	5	midnight: 3°
	8717	2449 etc	13 09.5	- 2.1	4	5	
	8718	149 etc	11 14.3	+ 6.8	4	5	
	8719	1124 etc	11 40.4	+ 5.9	4	5	
	8720	2449 etc	13 09.5	- 2.1	4	5	2AM: 2.5. fine night.
6 MARCH	8721	605 etc	10 10.5	+18.5	4	5	BSKIFF
	8722	1986DA	10 10.8	+33.4	4	5	
	8723	1978T07, B301	10 50.8	+21.3	4	5	10pm: 5°
	8724	1986DA	10 10.8	+33.4	4	5	semiautomatic gunfire!
	8725	605 etc	10 10.5	+18.5	4	5	
	8726	1978T07, B301	10 50.8	+21.3	4	5	
	8727	1240 etc	11 38.8	- 3.6	4	5	midnight: 5°
	8728	1418 etc	12 06.1	- 2.8	4	5	
	8729	1240 etc	11 38.8	- 3.6	4	5	
	8730	1418 etc	12 06.1	- 2.8	4	5	another one.
7 March	8731	← Halley	20 <sup>h</sup> 10 <sup>m</sup>	-18.6	5	3	H. Giclas
12 "	8732	"	19 <sup>h</sup> 58 <sup>m</sup>	-20.8	4	4	"
18 "	8733	"	19 31	-24.2	4	2	"
19 "	8734	"	19 40	-25.6	4	4	"
20 "	8735	"	19 30	-25.5	5	4	"
21 "	8736	"	19 27	-26.9	5	3	"
22 "	8737	"	19 22	-27.7	4	4	"
23 "	8738	" false alarm	19 17	-29.0	4	4	"
5 APRIL	8739	N4314 SUSPECT SUPERNOVA	12 22.5	+30.2	2	4	BSKIFF. cirrus.
6 APRIL	8740	1982 DA	11 15.1	+26.2	3	4	BSKIFF. cirrus
	8741	1982 DA	11 15.1	+26.2	3	4	10pm: 5°
8 April	8742	Halley's ←	16 <sup>h</sup> 01	-48.1	2-	2	H. Giclas
9 APRIL	8743	1984 Q0	11 23.0	- 4.1	4	5	7pm: 6° BSKIFF 8pm: 4°
	8744	1975ES, B1321, B1324	12 21.0	- 5.8	4	5	
	8745	1984 Q0	11 23.0	- 4.1	4	5	10pm: 2.5
	8746	1975ES, B1321, B1324	12 21.0	- 5.8	4	5	
	8747	1942EB etc	12 43.7	- 1.1	4	5	
	8748	1983SE, 1983VP7	13 06.6	-14.7	4	5	midnight: 0.5
	8749	1978CN, 1980FB, B46	13 15.2	- 6.7	4	5	
	8750	1942EB etc	12 43.7	- 1.1	4	5	

1986 UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER-REMARKS
April 9	8751	1983SC, 1983VP7	13 <sup>h</sup> 06 <sup>m</sup> .1	-14.7	4	5	BSKIFF
	8752	1983ON, 1983FB, 876	13 15.2	-6.7	4	4	2am: -1°
Apr. 14	8753	Halley's <sup>or</sup>	13 35	-42.4	4	4	HGicles
" 29	8754	"	11 <sup>n</sup> 04	-20 10	3	5	"
" 30	8755	"	11 <sup>n</sup> 00	-19°20	4	5	"
May 4	8756	3192 etc	14 25.0	-14.6	4	3	BSKIFF, windy, 10pm: 12°
	8757	1986 DA	12 52.9	+ 5.7	4	3	
	8758	NE128 SN <del>etc</del>	13 23.5	-43.7	4	2	
	8759	1986 DA	12 52.9	+ 5.7	4	3	
	8760	3192 etc	14 25.0	-14.6	4	2	
	8761	A24EG etc	14 51.6	-17.1	4	2	
	8762	1981NU, 1982VL5	15 18.9	-15.6	4	2	midnight: 9°
	8763	A24EG etc	14 51.6	-17.1	4	3	
	8764	1981NU, 1982VL5	15 18.9	-15.6	4	3	1am: 8°
May 10	8765	Halley's etc	10 35	-12.3	4	4	HGicles
" 12	8766	"	10 33	-11.7	4	4	"
May 13	8767	<sup>Singer-Braun</sup> ← 86 d	14 45.5	-6.1	4	4	SJB 4x5
	8768	B1375, B1376	15 04.5	-12.8	4	4	" 8x10
	8769	B1368	14 18.9	-10.5	4	3	" 4x5
	8770	B1375, B1376	15 04.5	-12.8	4	3	" 8x10
	8771	B1368	14 18.9	-10.5	4	3	" 4x5
	8772	← 86 d	14 45.5	-6.1	4	3	" "
	8773	← <sup>Machholz</sup> 86 e	0 34.5	+38.5	4	2	" "
	8774	← 86 e	0 34.5	+38.5	4	2	" "
May 14	8775	1986JK	15 33.1	-15.7	4	3	BSKIFF, midnight: 6.5
	8776	1986JK	15 33.1	-15.7	4	3	
May 16	8777	<sup>(1986e)</sup> P/MACHHOLZ	0 12.0	+41.6	3	2	BSKIFF, scattered clouds,
	8778	<sup>(1986e)</sup> P/MACHHOLZ	0 12.0	+41.6	3	2	lightning far N. 4am: 3.5
May 17	8779	86 e	0 03.6	+42.0	4	2	SJB 4x5
	8780	86 e	0 03.6	+42.0	4	2	" "
May 18	8781	86 e	23 55.2	+42.5	4	2	" "
	8782	86 e	23 55.2	+42.5	4	2	" "
May 19	8783	<sup>(1986e)</sup> P/MACHHOLZ	23 49.0	+42.3	4	4	BSKIFF
	8784	<sup>(1986e)</sup> P/MACHHOLZ	23 49.0	+42.3	4	4	
	8785	<sup>(1986e)</sup> P/MACHHOLZ	23 49.0	+42.3	4	4	
JUNE 8	8786	B1368	14 08.0	- 8.0	4	4	BSKIFF
	8787	B1375, B1376	14 48.0	-13.1	4	4	10pm: 12°
	8788	1976YB2, B741	15 59.7	- 6.8	4	4	
	8789	B1368	14 08.0	- 8.0	4	3	
	8790	B1375, B1376	14 48.0	-13.1	4	3	midnight: 9°

1986 UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
JUNE 8	8791	1976YP2, B741	15 <sup>h</sup> 59 <sup>m</sup> .7	- 6.8	4	4	BSKIFF
JUNE 10	8792	1983PW etc	16 05.6	- 16.8	4	3	8pm: 14.5 BSKIFF 10pm: 10°
	8793	1986JA1	17 40.2	+ 7.5	4	4	
	8794	1983PW etc	16 05.6	- 16.8	4	4	
	8795	1986JA1	17 40.2	+ 7.5	4	4	
	8796	1986JZ	17 21.2	- 21.4	4	3	midnight: 7°
	8797	P/MACHHOLZ (1986e)	18 58.0	+ 34.8	4	4	
	8798	P/MACHHOLZ (1986e)	18 58.0	+ 34.8	4	4	
	8799	1986JZ	17 21.2	- 21.4	4	3	
July 6	8800	1959 etc	19 44.3	- 21.2	4	2	BSKIFF, midnight: 10°
	8801	1959 etc	19 44.3	- 21.2	4	2	seeing awful → quit.
July 9	8802	ω OPHIUCHI	16 29.0	- 21.3	4	3	BSKIFF, lightning E/NE.
	8803	439 etc	21 59.2	+ 8.4	4	3	midnight: 14.5
	8804	439 etc	21 59.2	+ 8.4	4	3	2am: 12.5
July 31	8805	1983RD	19 29.7	+ 9.1	4	4	BSKIFF, 10pm: 18°
	8806	1981EQ27, B832	20 05.2	- 16.6	4	4	
	8807	B498	20 35.4	+ 2.5	4	4	
	8808	1983RD	19 29.7	+ 9.1	4	4	
	8809	1981EQ27, B832	20 05.2	- 16.6	4	4	midnight: 15.5
	8810	B198	20 35.4	+ 2.5	4	4	
1 AUGUST	8811	1981EQ27, B832	20 03.4	- 16.6	4	4	BSKIFF, 10pm: 18°
	8812	B498	20 34.8	+ 2.8	4	4	
	8813	B495	21 01.3	- 2.2	4	4	
	8814	1981EQ27, B832	20 03.4	- 16.6	4	4	
	8815	B498	20 34.8	+ 2.8	4	4	midnight: 17°
	8816	B495	21 01.3	- 2.2	4	4	
	8817	(1986i) C/CHURCHMAN-SOLODOVNIKOV	21 18.5	- 22.1	4	3	
	8818	(1986i) C/CHURCHMAN-SOLODOVNIKOV	21 18.5	- 22.1	4	3	
	8819	3103	1 16.1	- 9.8	4	3	
	8820	3103	1 16.1	- 9.8	4	3	2am: 14.5. Moon rising gated: two exposures
2 AUGUST	8821	1981EU10, B266	20 43.5	- 18.0	3	4	BSKIFF, hazy: stagnant air mass
	8822	2257, 1985DX, 1985FE	21 19.3	- 5.8	3	4	
	8823	1981EU10, B266	20 43.5	- 18.0	3	4	
	8824	2257, 1985DX, 1985FE	21 19.3	- 5.8	3	4	midnight: 16°, intermittent clouds
4 SEPTEMBER	8825	2085 etc	20 52.7	- 15.1	4	5	BSKIFF, 10pm: 13°
	8826	935 etc	21 42.4	- 15.8	4	5	
	8827	1976YP1 etc	22 11.7	- 12.8	4	5	
	8828	2085 etc	20 52.7	- 15.1	4	4	
	8829	935 etc	21 42.4	- 15.8	4	4	midnight: 12°
	8830	1976YP1 etc	22 11.7	- 12.8	4	4	

1986 UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEN	OBSERVER - REMARKS
Sept 5	8831	G154-12	17 <sup>h</sup> 45 <sup>m</sup> <sup>20</sup>	-14°40'	4	5	12 G6les
	8832	1986RA	21 19.0	+16.0	4	4	BSKIFF. 3 exposures gated
	8833	<sup>CHON</sup> <del>2754</del> etc	21 35.6	+ 1.3	4	4	10pm: 14° <sup>RAJ<sup>off</sup></sup> <del>gated for 1986RB</del>
	8834	2754 etc	22 35.5	+ 2.1	4	4	gated for 1986RB
	8835	642 etc	22 41.2	-11.2	4	4	
	8836	3199 etc	23 28.0	+14.4	4	4	midnight: 13.5. gated for 3199
	8837	2754 etc	22 35.5	+ 2.1	4	4	gated
	8838	642 etc	22 41.8	- 11.2	4	4	
	8839	3199 etc	23 28.0	+ 14.4	4	4	2Am: 12° . gated
SEPTEMBER 6	8840	332 etc	23 20.7	- 10.6	4	4	BSKIFF
	8841	339 etc	0 11.5	+ 1.5	4	4	midnight: 13.5
	8842	332 etc	23 20.7	- 10.6	4	4	
	8843	339 etc	0 11.5	+ 1.5	4	4	
SEPTEMBER 11	8844	C/WILSON (1986R)	21 08.5	+17.9	4	3	BSKIFF
	8845	1986RA	21 42.9	+ 9.5	4	3	two gated exposures
	8846	2754 etc	22 29.5	+ 1.1	4	3	
	8847	332 etc	23 14.0	- 10.2	4	3	midnight: 7°
	8848	3199 etc	23 24.2	+ 14.1	4	3	
	8849	2754 etc	22 29.5	+ 1.1	4	3	
	8850	332 etc	23 14.0	- 10.2	4	3	2Am: 5.5
	8851	3199 etc	23 24.2	+ 14.1	4	3	
SEPTEMBER 12	8852	339 etc	0 09.6	- 0.1	4	3	BSKIFF. midnight: 7°
	8853	339 etc	0 09.6	- 0.1	4	3	cut short by clouds
OCTOBER 4	8854	B1478 etc	22 18.9	+ 1.1	4	3	BSKIFF. humid
	8855	B1489, B1490	23 02.3	- 17.9	4	3	10pm: 0°
	8856	B1478 etc	22 18.9	+ 1.1	4	3	Fog on Lake Mary
	8857	B1489, B1490	23 02.3	- 17.9	4	3	
	8858	1038 etc	1 36.6	+ 2.8	4	3	midnight: 0°
	8859	898 etc	1 54.0	+23.8	4	3	NE wind: fog gone
	8860	1038 etc	1 36.6	+ 2.8	4	3	
	8861	898 etc	1 54.0	+23.8	4	3	2Am: 0°
OCTOBER 5	8862	B1494 etc	23 10.2	+11.8	4	3	BSKIFF. 9pm: 5°
	8863	B1482 etc	23 47.6	- 3.4	4	3	10pm: 4°
	8864	B1494 etc	23 10.2	+11.8	4	3	
	8865	B1482 etc	23 47.6	- 3.4	4	3	
OCTOBER 6	8866	485 etc	0 23.8	+ 7.2	3	2	BSKIFF. damp.
	8867	520 etc	0 14.0	- 9.3	3	2	10pm: 3.5. occasional clouds
	8868	485 etc	0 23.8	+ 7.2	3	2	cut short by clouds
OCTOBER 7	8869	520 etc	0 13.8	- 9.3	3	3	BSKIFF. scattered clouds, humid.
	8870	2868 etc	1 04.9	- 4.6	3	3	10pm: 7.5

1986 UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SPRING	OBSERVER - REMARKS
OCTOBER 7	8871	520 etc	0 <sup>h</sup> 13.8	- 9.3	3	3	BSKIFF. fog on lake
	8872	2868 etc	1 04.9	- 4.6	3	3	
	8873	1092, 1760, T110	1 29.3	+ 15.4	4	3	midnight: 5°
	8874	1880 etc	2 03.6	+ 2.0	4	3	
	8875	1092, 1760, T110	1 29.3	+ 15.4	4	3	
	8876	1880 etc	2 03.6	+ 2.0	4	3	2am: 5°
NOVEMBER 5	8877	1390 etc	0 49.3	- 3.0	5	3	BSKIFF. NE breeze
	8878	2059 etc	1 27.6	+ 17.8	5	3	
	8879	1984FA etc	1 30.0	* 0.4	5	3	10pm: 0°
	8880	1390 etc	0 49.3	- 3.0	5	3	
	8881	2059 etc	1 27.6	+ 17.8	5	3	
	8882	1984FA etc	1 30.0	- 0.4	5	3	
	8883	1226, 8876, B1177	3 03.8	+ 26.2	5	3	midnight: -1°
	8884	C/SORRELLS (1986n)	5 34.0	+ 27.4	5	3	comet off plate (4x5)
	8885	C/SORRELLS (1986n)	5 34.0	+ 27.4	5	3	(8x10)
	8886	1226, 8876, B1177	3 03.8	+ 26.2	5	3	
NOVEMBER 6	8887	P/URATA-NIJIJIMA (1986o)	1 49.3	+ 24.0	4	4	BSKIFF. 10pm: 1.5
	8888	1935, 3057	2 26.4	+ 4.9	4	4	
	8889	2112 etc	2 31.3	+ 14.9	4	4	
	8890	P/UR-N (1986o)	1 49.3	+ 24.0	4	4	
	8891	1935, 3057	2 26.4	+ 4.4	4	4	midnight: -0.5
	8892	2112 etc	2 31.3	+ 14.9	4	4	
	8893	1581 etc	3 37.2	+ 16.0	4	4	
	8894	1856 etc	4 19.6	+ 17.8	4	4	
	8895	C/SORRELLS (1986n)	5 19.9	+ 27.8	4	4	2am: -1°
	8896	1581 etc	3 37.2	+ 16.0	4	4	
	8897	1856 etc	4 19.6	+ 17.8	4	4	
	8898	C/SORRELLS (1986n)	5 19.9	+ 27.8	4	4	
NOVEMBER 7	8899	C/SORRELLS (1986n)	5 14.5	+ 28.0	4	3	BSKIFF. 2am: -6°
	8900	C/SORRELLS (1986n)	5 14.5	+ 28.0	4	3	
NOVEMBER 8	8901	C/SORRELLS (1986n)	5 10.0	+ 28.0	4	3	BSKIFF. 2am: -7.5
	8902	C/SORRELLS (1986n)	5 10.0	+ 28.0	4	3	
NOVEMBER 10	8903	C/SORRELLS (1986n)	5 01.7	+ 28.0	4	4	BSKIFF
	8904	C/SORRELLS (1986n)	5 01.7	+ 28.0	4	4	
NOVEMBER 30	8905	1390 etc	0 46.3	- 0.2	3	3	BSKIFF. 7pm: 3° cirrus
	8906	1390 etc	0 46.3	- 0.2	3	3	very windy. 8pm: 2°
DECEMBER 2	8907	1936UB etc	1 21.7	+ 0.1	4	5	BSKIFF. 8pm: -1°
	8908	1986WA etc	0 32.7	+ 9.7	4	5	no exp.
	8909	1936UB etc	1 21.7	+ 0.1	4	5	
	8910	2260 etc	3 23.8	+ 5.5	4	5	



1986/7 UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
DECEMBER 2	8911	1836 etc	4 <sup>h</sup> 22 <sup>m</sup> .0	+29.5	4	5	BSKIFF, 10pm: -3°
	8912	409 etc	4 41.7	+21.8	4	5	
	8913	2260 etc	3 23.8	+ 5.5	4	5	
	8914	1836 etc	4 22.0	+29.5	4	5	midnight: -3.5. excess thin cirrus
	8915	409 etc	4 41.7	+21.8	4	5	
DECEMBER 4	8916	c/Lovas (1986p)	1 50.4	+13.8	4	3	BSKIFF, 7pm: 3°
	8917	1936 XA etc	1 21.0	+13.9	4	3	
	8918	c/Lovas (1986p)	1 50.4	+13.8	4	3	8pm: 1.5
	8919	2112 etc	2 00.8	+14.1	4	3	
	8920	1935 etc	2 07.6	+ 6.0	4	3	
	8921	1856 etc	3 48.6	+22.0	4	3	10pm: 0.5. Pleiades in field
	8922	2112 etc	2 00.8	+14.1	4	3	
	8923	1935 etc	2 07.6	+ 6.0	4	3	
	8924	1936 XA etc	1 21.0	+13.9	4	3	
	8925	1856 etc	3 48.6	+22.0	4	3	midnight: 0.5. nice night.
DECEMBER 28	8926	B 289	8 02.4	+ 5.0	4	4	BSKIFF, midnight: -8°
	8927	693, 721, 2706	8 31.0	+34.0	4	4	cirrus far south
	8928	B 289	8 02.4	+ 5.0	4	4	
	8929	693, 721, 2706	8 31.0	+34.0	4	4	2Am:
JANUARY 10	8930	c/Levy (1987a)	17 15.4	+ 7.4	3	2	BSKIFF, 5am: -7.5
	8931	c/Levy (1987a)	17 15.4	+ 7.4	3	2	
JANUARY 11	8932	c/Levy (1987a)	17 13.7	+ 8.7	4	2	BSKIFF, 5am: -5.5
	8933	c/Levy (1987a)	17 13.7	+ 8.7	4	3	
JANUARY 12	8934	c/Levy (1987a)	17 10.2	+ 9.0	4	3	S.J. Bus
JANUARY 19	8935	c/WISEMAN-SKIFF	7 41.4	-1.2	3	3	J WISEMAN + BSKIFF, 8am: -9°
	8936	c/WISEMAN-SKIFF	7 41.4	-1.2	3	3	J WISEMAN + BSKIFF
JANUARY 21	8937	c/WISEMAN-SKIFF	7 42.5	-1.1	4	4	J WISEMAN + S.J. BUS
	8938	c/WISEMAN-SKIFF	7 42.5	-1.1	4	4	"
JANUARY 22	8939	1987 c	0 <sup>h</sup> 04.4	+8.8	4	3+	N. THOMAS
	8940	"	0 04.4	+8.8	4	3+	"
	8941	P/WISEMAN-SKIFF	7 41.8	-1.0	4	4	"
	8942	"	"	"	4	4+	"
JANUARY 24	8943	c/NTT (1987c)	23 56.8	+ 5.9	3	3	BSKIFF, 7am: -2°
	8944	c/NTT (1987c)	23 56.8	+ 5.9	3	3	
JANUARY 27	8945	c/NTT (1987c)	23 55.8	+ 4.1	4	4	BSKIFF, 7pm: 3°
	8946	c/NTT (1987c)	23 55.8	+ 4.1	4	4	
MARCH 3	<del>8947</del>	<del>924 etc</del>	<del>10 35.2</del>	<del>+7.6</del>	<del>4</del>	<del>3</del>	<del>BSKIFF, 10am: -3.5</del>
	8948	1051, 3171, 8617	10 45.7	+21.0	4	3	
	8949	396 etc	11 01.2	+ 5.9	4	3	
	8950	924 etc	10 35.2	+ 7.6	4	4	midnight: -4°

1987 UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER-REMARKS
MARCH 3	8951	1054, 3171, 8617	10 <sup>h</sup> 45.7	+21.0	4	4	BSKIFF
	8952	396 etc	11 01.2	+ 5.9	4	4	
	8953	34, 3022, 3161	12 22.0	- 5.5	4	4	
	8954	C/Levy (1987a)	15 34.7	-11.2	4	4	2am: -6°
	8955	C/Levy (1987a)	15 34.7	-11.2	4	4	
	8956	34, 3022, 3161	12 22.0	- 5.5	4	4	
MARCH 4	8957	1138 etc	9 47.8	- 4.1	4	4	BSKIFF. Moon setting behind cirrus
	8958	1206 etc	11 28.8	- 1.7	4	4	
	8959	312 etc	11 57.1	+ 4.1	4	4	midnight: -2°
	8960	1138 etc	9 47.8	- 4.1	4	3	
	8961	1206 etc	11 28.8	- 1.7	4	3	
	8962	312 etc	11 57.1	+ 4.1	4	3	
MARCH 27	8963	1065 etc	12 28.1	-11.9	4	4	BSKIFF
	8964	1965, B1135, B1137	12 31.2	- 0.9	4	4	
	8965	1931TW, 1977SA, B120	12 54.4	- 9.3	4	4	midnight: -3°
	8966	264, 1275, 1981FF26	13 24.3	- 1.8	4	4	
	8967	1065 etc	12 28.1	-11.9	4	3	windy
	8968	1965, B1135, B1137	12 31.2	- 0.9	4	3	
	8969	1931TW, 1977SA, B120	12 54.4	- 9.3	4	3	2am: -2°
	8970	264, 1275, 1981FF26	13 24.3	- 1.8	4	3	nice night
MARCH 31	8971	comet suspect) <sup>not</sup> <sub>real</sub>	5 26.0	-11.0	5	5	BSKIFF. 8pm: -0.5
	8972	comet sus. pect)	5 26.0	-11.0	5	5	
APRIL 7	8973	MAURY FMO #3	15 29.1	+ 33.2	3	5	BSKIFF
	8974	MAURY FMO #3	15 29.1	+ 33.2	3	5	3am: -1° <sup>five</sup>
MAY 4	8975	1193 etc	15 08.6	- 16.7	4	4	BSKIFF. 1am: 5°
	8976	C/SHOEMAKER (1987a)	16 32.0	+ 7.2	4	4	
	8977	C/SHOEMAKER (1987a)	16 32.0	+ 7.2	4	4	
	8978	1193 etc	15 08.6	- 16.7	4	3	2am: 4° fireball across field.
MAY 5	8979	C/SHOEMAKER (1987a)	16 37.0	+ 8.1	4	4	BSKIFF
	8980	C/SHOEMAKER (1987a)	16 37.0	+ 8.1	4	4	2am: 7°
MAY 6	8981	C/shoemaker (1987a)	16 37.3	+ 8.3	4	4	SJBus
JULY 2	8982	1987MB	20 41.2	-19.2	4	5	BSKIFF. 2am: 10°
	8983	1987MB	20 41.2	-19.2	4	5	
JULY 3	8984	1987 MB	20 37.1	- 19.1	4	5	BSKIFF. <del>1am: 10°</del>
	8985	1987 MB	20 37.1	- 19.1	4	5	2am: 9.5
JULY 7	8986	1987 MB	20 32.1	- 19.3	3	4	BSKIFF. scattered cirrus
	8987	1987 MB	20 32.1	- 19.3	3	4	3am: 12°
SEPTEMBER 16	8988	C/MAURY suspect	21 32.5	+ 1.8	3	3	BSKIFF. hazy
	8989	C/MAURY suspect	21 32.5	+ 1.8	3	3	10pm: 12°
	8990	C/HELIN (1987w)	1 22.8	+ 3.0	3	3	

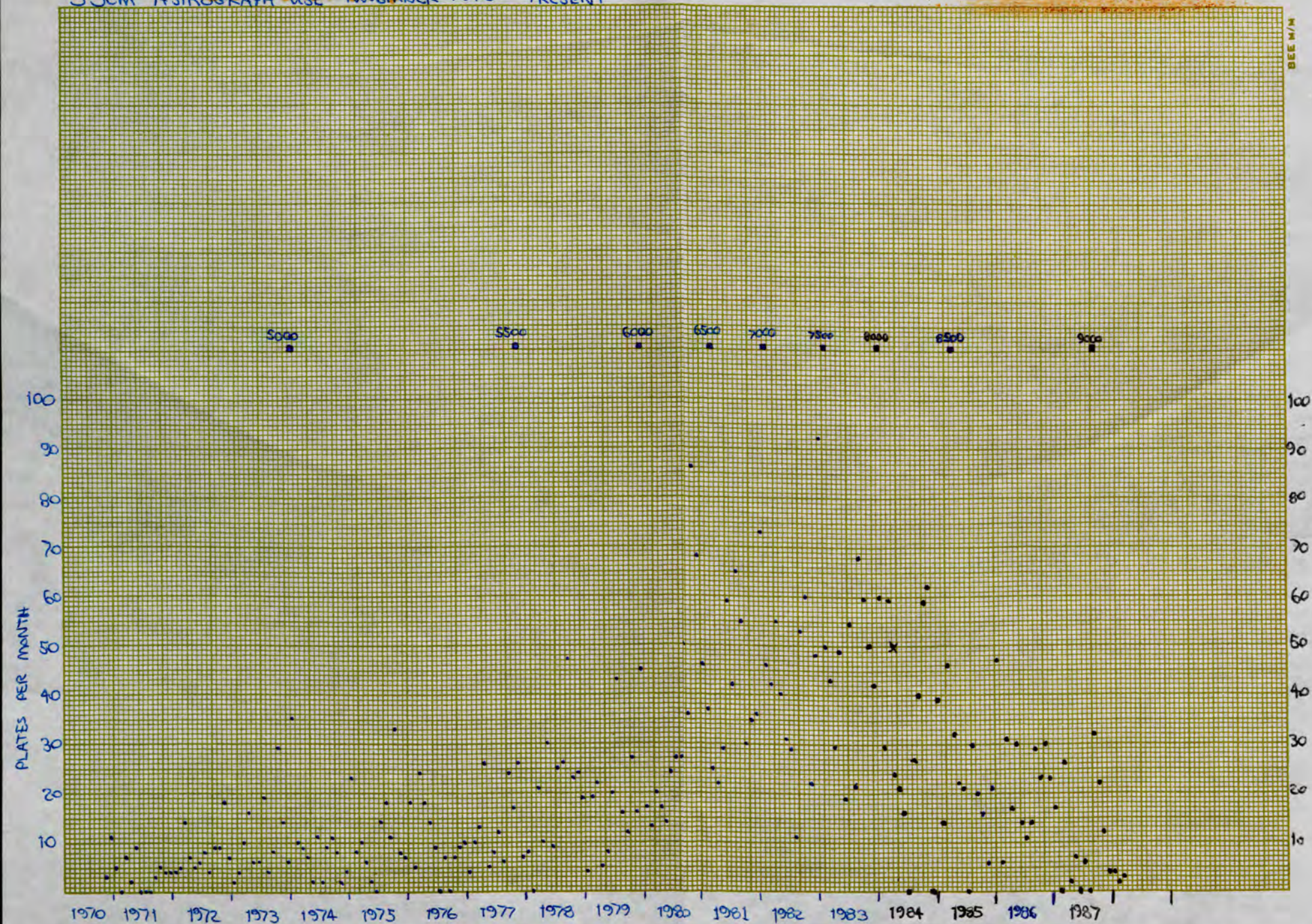
1987 UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
SEPTEMBER 16	8991	c/HELIN (1987w)	1 <sup>h</sup> 22 <sup>m</sup> 8	+ 3.0	3	3	BSKIFF
SEPTEMBER 19	8992	976 etc	23 41.5	+10.3	4	4	BSKIFF. 10pm: 12°
	8993	990 etc	23 41.3	- 0.2	4	4	
	8994	976 etc	23 41.5	+10.3	4	4	
	8995	990 etc	23 41.3	- 0.2	4	4	midnight: 10°
	8996	2138 etc	0 34.8	- 4.2	4	4	
	8997	B57, B558	1 23.9	+22.9	4	4	
	8998	2138 etc	0 34.8	- 4.2	4	4	
	8999	B57, B558	1 23.9	+22.9	4	4	2Am: 8.5
SEPTEMBER 21	9000	302 etc	0 07.2	0.0	4	3	BSKIFF. cirrus far south
	9001	552 etc	0 11.2	+ 17.0	4	3	
	9002	302 etc	0 07.2	0.0	4	3	midnight: 9.5
	9003	552 etc	0 11.2	+ 17.0	4	3	
SEPTEMBER 26	9004	B1753-1760	23 25.7	- 2.0	4	4	BSKIFF. humid
	9005	B1761-1763	23 40.8	+ 6.9	4	4	
	9006	B1753-1760	23 25.7	- 2.0	4	4	midnight: 8°
	9007	B1761-1763	23 40.8	+ 6.9	4	4	
	9008	1491 etc	0 52.4	+ 6.9	4	4	
	9009	B812, B1024, B1025	1 36.2	- 5.8	4	4	
	9010	1491 etc	0 52.4	+ 6.9	4	4	2Am: 8°
	9011	B812, B1024, B1025	1 36.2	- 5.8	4	4	
SEPTEMBER 29	9012	B1738-1746	0 02.1	+ 0.1	3	4	BSKIFF. Moon setting. 10pm: 11°
	9013	B1734-1737	0 06.1	+14.0	3	5	
	9014	B1738-1746	0 02.1	+ 0.1	3	5	
	9015	B1734-1737	0 06.1	+14.0	3	5	
	9016	B1749-1752	0 39.0	- 1.5	3	5	midnight: 10.5
	9017	B1747-1748	1 07.2	+26.2	3	5	
	9018	B1749-1752	0 39.0	- 1.5	3	5	
	9019	B1747-1748	1 07.2	+26.2	3	5	2Am: 9.5
OCTOBER 16	9020	198750 etc	23 31.9	+ 5.5	4	4	BSKIFF. 8pm: 7.5
	9021	1981EHA etc	23 54.9	+12.0	4	4	
	9022	3109 etc	0 29.0	- 2.9	4	4	10PM: 7°
	9023	198750 etc	23 31.9	+ 5.5	4	4	
	9024	1981EHA etc	23 54.9	+12.0	4	4	
	9025	3109 etc	0 29.0	- 2.9	4	4	midnight: 3.5
OCTOBER 20	9026	3675 etc	0 50.2	+20.1	4	4	BSKIFF
	9027	1987543 etc	1 15.1	- 6.9	4	4	
	9028	3675 etc	0 50.2	+ 20.1	4	4	10pm: 7.5
	9029	1987543 etc	1 15.1	- 6.9	4	4	
	9030	1850 etc	2 09.1	+ 8.7	4	4	

1987/8 UT DATE	PLATE NUMBER	OBJECT	RA	Dec	TRANS	SEEING	OBSERVER - REMARKS
OCTOBER 20	9031	99 etc	2 <sup>h</sup> 53.4 <sup>m</sup>	+15.4	4	4	BSKIFF, midnight: 5°
	9032	1391 etc	3 07.0	+ 2.9	4	4	
	9033	1850 etc	2 09.1	+ 8.7	4	4	
	9034	99 etc	2 53.4	+15.4	4	4	
	9035	1391 etc	3 07.0	+ 2.9	4	4	2am: 5°, fine night.
OCTOBER 26	9036	198750 etc	23 29.8	+ 4.0	3	3	BSKIFF, 8pm: 9°, humid
	9037	3109 etc	0 24.0	- 2.7	3	3	occasional cirrus throughout evening
	9038	3675 etc	0 47.3	+19.5	3	3	
	9039	198750 etc	23 29.8	+ 4.0	3	4	10pm: 6°
	9040	3109 etc	0 24.0	- 2.7	3	4	many clouds far south
NOVEMBER 19	9041	3675 etc	0 47.3	+19.5	3	4	
	9042	1981T03 etc	2 26.3	+13.9	4	4	BSKIFF
	9043	1981ST, 1982RU7	2 44.2	- 1.0	4	4	10pm: -4.5
	9044	1975VY5, 1986OA, B79	3 27.8	+30.0	4	4	
	9045	1981T03 etc	2 26.3	+13.9	4	4	
	9046	1981ST, 1982RU7	2 44.2	- 1.0	4	4	
	9047	1975VY5, 1986OA, B79	3 27.8	+30.0	4	4	midnight: -5°
NOVEMBER 22	9048	1987SY3, 1987SZ3	1 03.4	- 5.9	4	4	BSKIFF, 8pm: 0°, bad guiding
	9049	1922UF2, 1985VI, B214	3 18.5	+20.6	4	4	
	9050	2493 etc	3 30.7	+12.1	4	4	
	9051	1987SY3, 1987SZ3	1 03.4	- 5.9	4	4	10pm: -1°
	9052	1922UF2, 1985VI, B214	3 18.5	+20.6	4	4	
NOVEMBER 24	9053	2493 etc	3 30.7	+12.1	4	4	beautiful night
	9054	1981T03 etc	2 25.8	+12.9	4	5	BSKIFF, some smoke
	9055	503 etc	3 52.5	+19.2	4	5	
	9056	437 etc	4 27.0	+22.9	4	5	10pm: -1.5
	9057	1981T03 etc	2 25.8	+12.9	4	5	
	9058	503 etc	3 52.5	+19.2	4	5	
DECEMBER 22	9059	437 etc	4 27.0	+22.9	4	5	midnight: -3°
	9060	1986TT6, B1489	5 17.3	+ 3.5	3	4	BSKIFF, midnight -2°, thin cirrus
	9061	1986TT6, B1489	5 17.3	+ 3.5	3	4	more clouds.
DECEMBER 23	9062	1928UF etc	5 51.9	+21.0	4	3	BSKIFF, very windy pre-storm
	9063	1928UF etc	5 51.9	+21.0	4	3	10pm: -2°
JANUARY 15	9064	M2	3 48.8	+13.0	4	4	BSKIFF + STEVE Mc DONALD
	9065	1928UF etc	5 35.4	+22.0	4	4	10pm: -2°, thin cirri
	9066	M2	3 48.8	+13.0	3	3	
	9067	1928UF etc	5 35.4	+22.0	3	3	
FEBRUARY 6	9068	M2 = 87WS3	4 11.7	+12.5	5	4	BSKIFF
	9069	M2 = 87WS3	4 11.7	+12.5	5	4	8pm: -6°
March 30	9072	Comet <sup>key</sup> 1999e	21 42.3	+20.0	4	3	Bus + Crammingham

1988 UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER-REMARKS
MARCH 24	9070	C/Levy (1988c)	21 <sup>h</sup> 42.3	+20.3	3	2	BSKIFF
	9071	C/Levy (1988c)	21 42.3	+20.3	3	2	weak twilight
May 11	9073	B882	14 <sup>h</sup> 34.2	-5.7			Cummines
	9074	B882	14 <sup>h</sup> 34.2	-5.7			
	9075	B882	14 <sup>h</sup> 34.2	-5.7			
MAY 12	9076	3616, 86RC2	12 44.9	+15.4	4	3	N. Thomas, Cummines
	9077	1088, 1442, 79DF	13 40.4	-9.1	4	3	
	9078	3616, 86RC2	12 44.9	+15.4	4	2	
	9079	1088, 1442, 79DF	13 40.5	-9.1	4	2	
	9080	216, 3599, B1420	14 33.3	-15.7	4	2	
	9081	3403 A10FA, 78552 B1110	16 <sup>h</sup> 14.2	-13.9	4	2	
	9082	216, 3599, B1420	14 <sup>h</sup> 33.3	-15.7	4	2	
	9083	3403 A10FA, 78552 B1110	16 <sup>h</sup> 14.2	-13.9	4	2	
May 13	9084	1765, etc	13 30.8	+11.4	4	4	N. Thomas
	9085	B882	14 32.5	-5.6	4	3-4	
	9086	1992, etc.	15 57.2	-4.1	4	3-4	
	9087	1765, etc	13 30.8	+11.4	4	3-4	
Abort	<del>9088</del>	<del>B882</del>	<del>14 12.5</del>	<del>-5.6</del>			RA 20 <sup>m</sup> off (Destroyed)
	9089	B882	14 32.5	-5.6	4	4	
	9090	1992, etc.	15 57.2	-4.1	4	4	
May 14	9091	2019, etc.	13 34.0	-17.2	4	3-4	N. Thomas
	9092	3430, etc.	14 43.9	-13.6	4	3-4	
	9093	3815, etc	15 19.9	-6.2	4	3-4	
	9094	2019, etc	13 34.0	-17.2	4	3-4	
	9095	2904, etc.	16 54.3	-17.1	4	4	
	9096	3430, etc.	14 43.9	-13.6	4	4	
	9097	3815, etc	15 19.9	-6.2	4	3-4	
	9098	2904, etc.	16 54.3	-17.1	4-5	4	
May 15	9099	1690, etc.	14 05.2	-12.6	4	4	N. Thomas
	9100	1334, etc.	14 32.3	+2.5	4	4	
	9101	1690, etc	14 05.2	-12.6	4	3-4	
	9102	1334, etc.	14 32.3	+2.5	4	3-4	
May 19	9103	1690 etc	14 02.1	-11.8	3	3	BSKIFF weak (3d) Moonlight
	9104	B882	14 26.9	-5.0	3	3	10pm: 10° clouds at end
May 20	9105	1690 etc	14 02.0	-11.9	4	2	BSKIFF. Moon setting: 7.5
	9106	B882	14 26.7	-5.0	4	2	midnight ↑
	9107	1690 etc	14 02.0	-11.9	4	2	
	9108	B882	14 26.7	-5.0	4	2	
	9109	2904, 1988RF, B1089	16 48.8	-16.9	4	2	2am: 6°
	9110	2904, 1988RF, B1089	16 48.8	-16.9	4	2	

1988 UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
May 21	9111	1992, 1972RQ, 1988AV	15 <sup>h</sup> 50. <sup>m</sup> 7	- 4.0	4	4	BSKIFF. Moon setting. 7.5 <sup>o</sup> midnight
	9112	3403 etc	16 06.3	- 12.9	4	4	
	9113	1992, 1972RQ, 1988AV	15 50.1	- 4.0	4	4	
	9114	3403 etc	16 06.3	- 12.9	4	4	2am: 5.5
	9115	(1988g) C/SHOEMAKER-HOLT	22 19.8	+ 29.4	4	4	
	9116	C/SHOE-HOLT (1988g)	22 19.8	+ 29.4	4	4	
May 25	9117	C/Levy (1988e)	22 35.6	+ 46.1	2-3	4	BSKIFF, some clouds. 2am: 9.5
	9118	C/Levy (1988e)	22 35.6	+ 46.1	3	4	
	9119	(1988g) C/SHOEMAKER-HOLT	22 21.1	+ 31.8	3	4	
	9120	C/SHOE-HOLT (1988g)	22 21.1	+ 31.8	3	4	
June 8	9121	1690 etc	13 49.0	- 10.3	5	5	BSKIFF.
	9122	B882	14 12.4	- 4.5	5	5	10pm: 9.5
	9123	1690 etc	13 49.0	- 10.3	5	5	
	9124	B882	14 12.4	- 4.5	5	5	
June 9	9125	3430 etc	14 30.5	- 12.5	4	5	K Zeigler
	9126	2904, 1985RF, B1089	16 26.1	- 16.1	4	5	10pm: 10.5
	9127	3430 etc	14 30.5	- 12.5	4	5	
	9128	2904, 1985RF, B1089	16 26.1	- 16.1	4	5	
	9129	NOVA FIELD #2	18 06.1	- 27.7	4	3	BSKIFF, midnight: 10 <sup>o</sup>
	9130	NOVA FIELD #2	18 06.1	- 27.7	4	3	
	9131	NOVA FIELD #1	17 56.6	- 33.4	4	3	
	9132	NOVA FIELD #1	17 56.6	- 33.4	4	3	
June 10	9133	3403 A10FA etc	15 52.8	- 11.3	4	4	K Zeigler 13 <sup>o</sup>
	9134	3403 etc	15 52.8	- 11.3	4	4	
June 11	9135	NOVA FIELD #1	17 56.6	- 33.4	4	3	BSKIFF + WAYNE WARREN
	9136	NOVA FIELD #2	18 06.1	- 27.7	4	3	
June 21	9137	BT 233 & BT 324	17 11.2	+ 13 <sup>o</sup> 0 <sup>m</sup>	3	3	K Zeigler 15 <sup>o</sup> at 2:30 am
	9138	BT 233 & BT 324	17 11.2	+ 13 <sup>o</sup> 0 <sup>m</sup>	3	3	
July 7	9139	NOVA FIELD #1	17 56.6	- 33.4	3	3	BSKIFF. some crud
	9140	NOVA FIELD #2	18 06.1	- 27.7	3	3	
July 8	9141	NOVA FIELD #1	17 56.6	- 33.4	?	?	WAYNE WILLIAMS
	9142	NOVA FIELD #2	18 06.7	- 27.7	?	?	
July 10	9143	NOVA FIELD #1	17 56.6	- 33.4	?	?	WAYNE WILLIAMS
	9144	NOVA FIELD #2	18 06.7	- 27.7	?	?	
July 12	9145	NOVA FIELD #2	18 06.7	- 27.7	? 3	? 3	WAYNE WILLIAMS
	9146	NOVA FIELD #1	17 56.6	- 33.4	? 3	? 3	
July 13	9147	NOVA FIELD #2	18 06.7	- 27.7	4	4	WILLIAMS
	9148	NOVA FIELD #1	17 56.6	- 33.4	4	4	
July 15	9149	NOVA FIELD #2	18 06.7	- 27.7	4	4	W. WILLIAMS
	9150	NOVA FIELD #1	17 56.6	- 33.4	4	4	

33cm ASTROGRAPH USE NOVEMBER 1970 - PRESENT



1988 UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
7/28/88	9151	1988 NF	23 <sup>h</sup> 14 <sup>m</sup>	+42° 30'	3	3	K Zeigler
8/4/88	9152	B203	21 <sup>h</sup> 24 <sup>m</sup>	+10.4	3	4	K Zeigler some clouds north
8/4/88	9153	B203	21 <sup>h</sup> 24 <sup>m</sup>	+10.4	3	4	K Zeigler
7 August	9154	C/MACHHOLZ(1988j)	4 42.0	+0.7	4	3	BSKIFF. Moonlight. 4am: 10°
	9155	C/MACHHOLZ(1988j)	4 42.0	+0.7	4	3	some twilight
8 August	9156	B778 B1364	22 <sup>h</sup> 31 <sup>m</sup>	-12.1	3	3	K. Zeigler some clouds north moon rising
"	9157	B778 B1364	22 <sup>h</sup> 31 <sup>m</sup>	-12.1	3	3	K. Zeigler
	9158	C/MACHHOLZ(1988j)	4 42.0	+0.7	4	3	BSKIFF. some Moonlight
8 August	9159	C/MACHHOLZ(1988j)	4 42.0	+0.7	4	3	4am: 9° cloud free sky
9 August	9160	2832, 735W4	21 <sup>h</sup> 41.5 <sup>m</sup>	-11.0°	4	3	K Zeigler
9 August	9161	2832, 735W4	21 <sup>h</sup> 41.5 <sup>m</sup>	-11.0°	4	3	K Zeigler
"	9162	78PG4, 81W69	22 <sup>h</sup> 52.4 <sup>m</sup>	-4.6	4	3	K Zeigler
"	9163	Shoemaker Amur (1988PF)	23 <sup>h</sup> 20.1 <sup>m</sup>	+29.8	4	3	K Zeigler
"	9164	78PG4, 81W69 (1988PF)	22 <sup>h</sup> 52.4 <sup>m</sup>	-4.6	4	3	K Zeigler some clouds 10° above S horizon
"	9165	Shoemaker Amur (1988PF)	23 <sup>h</sup> 20.1 <sup>m</sup>	+29.8	4	3	K Zeigler clouds approaching
"	9166	Comet Machholz	4 <sup>h</sup> 58 <sup>m</sup>	+0.5°	4	3	K Zeigler clouds north
"	9167	Comet Machholz	4 <sup>h</sup> 58 <sup>m</sup>	+0.5°	4	3	K Zeigler
10 August	9168	1469, B805	23 <sup>h</sup> 40 <sup>m</sup>	+4.9°	4	4	K Zeigler
"	9169	Shoemaker Amur	23 <sup>h</sup> 23 <sup>m</sup>	+28.3°	4	4	K Zeigler some clouds to SE
"	9170	1469, B850	23 <sup>h</sup> 40 <sup>m</sup>	+4.9°	4	4	K Zeigler clouds vanished
"	9171	Shoemaker Amur	23 <sup>h</sup> 23 <sup>m</sup>	+28.3°	4	4	K Zeigler
"	9172	Comet Machholz	5 <sup>h</sup> 8 <sup>m</sup>	+0.0	4	4	K Zeigler
"	9173	Comet Machholz	5 <sup>h</sup> 8 <sup>m</sup>	+0.0	4	4	K Zeigler
11 Aug	9174	3107, 3451	23 <sup>h</sup> 15 <sup>m</sup>	+0.6	4	3	K Zeigler
"	9175	3107, 3451	23 <sup>h</sup> 15 <sup>m</sup>	+0.6	4	3	K Zeigler some thin clouds form
17 August	9176	C/MACHHOLZ(1988j)	5 57.2	-0.3	4	2	BSKIFF. very low
	9177	C/MACHHOLZ(1988j)	5 57.2	-0.3	4	2	4am: 14°
19 Aug	9178	210, 211	23 <sup>h</sup> 29 <sup>m</sup>	+3.0°	3	4	K Zeigler
	9179	210, 211	23 <sup>h</sup> 29 <sup>m</sup>	+3.0°	3	4	K Zeigler
2 July 1989	9180	P/BRO-MET SEARCH <sup>A</sup>	23 19.8	+0.0	4	4	BSKIFF. 2am: 12°C
	9181	P/BRO-MET SEARCH <sup>A</sup>	23 19.8	+0.0	4	4	
	9182	P/BRO-MET SEARCH <sup>B</sup>	23 40.0	+4.0	4	4	
	9183	P/BRO-MET SEARCH <sup>B</sup>	23 40.0	+4.0	4	4	
7 July 1989	9184	P/Bronson - Metals <sup>B</sup>	00 34.5	+13.2	3	2	S.J. Bus
	9185	P/Bronson - Met <sup>B</sup>	00 34.5	+13.2	3	2	
19 November	9186	C/MARS-BREW (1989ai)	16 27.0	+27.6	4	2	BSKIFF. 6am: 4°C
	9187	C/MARS-BREW (1989ai)	16 27.0	+27.6	4	2	some twilight
20 November	9188	C/MARS-BREW (1989ai)	16 14.2	+27.4	4	2	BSKIFF. some twilight
	9189	C/MARS-BREW (1989ai)	16 14.2	+27.4	4	2	
	9190	EV LACERIAE	22 44.0	+44.1	4	4	7pm: 4°C





# First Plates Taken After 13-inch Moved back to Original Dome

UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
1995 Oct 13	1	NPS		+90°00'			H Giclas Polar Alignment
"	2	G26 Region	21 <sup>h</sup> 42 <sup>m</sup>	-4°18'	Fair	3	" Test of X-Ray Film
Oct 18	3	" Aquarii	22 <sup>h</sup> 22 <sup>m</sup>	-1°04'	Good	3+	"
" 18	4	Polar Alignment		+90°	"	"	" 8x10 103AD
Oct 21 07	5	Polar Trails		+90°	Good	3	" "
" 21	6	" "		+90°	"	"	" "
1996 Jan 9	7	λ Arietis	2 <sup>h</sup> 06 <sup>m</sup>	+24°46'	Good	3+	8x10 X Ray HL Giclas
Jan 15	8	α Arietis	2 <sup>h</sup> 07 <sup>m</sup>	+23°20'	Good	2	"
" 15	9	"	"	"	"	"	"
" 15	10	Polar Alignment		+90°	"	"	" 8x10 103AD
Feb 23	11	RV Lynce	7 <sup>h</sup> 08	+50°2'	Fair	3	" 8x10 XMA
March 3	12	1996 B	14 <sup>h</sup> 46 <sup>m</sup>	-21°22'	Fair	2	" 8x10
" 2	13	"	"	"	"	"	" 8x10
March 11	14	RV Lynce	6 <sup>h</sup> 55	+51°20'	Good	3+	" 4x5 cut
" 11	15	"	"	"	"	"	" "
Mar 19	16	1996 B	14 <sup>h</sup> 51 <sup>m</sup>	-22°	Good	3	H Giclas 8x10 Polar
March 26	17	"	14 52	+2 06	"	3	H Giclas + Kenney Schudler
"	18	"	"	"	"	3	" Schudler
March 21	19	"	15 <sup>h</sup> 01 <sup>m</sup>	+8°30'	Good	4	H Giclas
" 22	20	"	14 41	+6 25	"	3+	" + Kenney Schudler
" 22	21	"	"	+6 25	"	"	"
Mar 23	22	"	14 15	+28 0	Fair	3	" "
Mar 24	23	"	14 40	+43°	Good	3	H Giclas
Mar 25	24	"	"	"	"	"	"
Mar 26	25	"	13 <sup>h</sup> 52	+74°	Poor	7	Giclas + Schudler
Mar 27	26	"	3 <sup>h</sup> 56 <sup>m</sup>	+77°	Fair	3	" "
" 11	27	"	"	+78°	"	"	" "
	28						
	29	1996 B2					
	30	"					
April 7	31	1996 B2	3 <sup>h</sup> 03.3	+49°00'	Good	4	H Giclas
" 14	32	"	3 59	+36	Good	3	"
" 23	33	RV Lynce	7 <sup>h</sup> 03 <sup>m</sup>	+51°00'	Good	3	"
" 23	34	"	"	"	"	"	"
May 15	35	RV Lynce	7 <sup>h</sup> 00	+50 48	Good	3+	H Giclas
"	36	"	"	"	"	"	"
"	37	"	"	"	"	"	"
" 28	38	Hde-Bopp	19 <sup>h</sup> 37 <sup>m</sup>	-15°20'	Good	4	"
June 10	39	G135	14 <sup>h</sup> 19 <sup>m</sup>	+16:10	Good	4	"

1996	UT DATE	PLATE NUMBER	OBJECT	RA	DEC	TRANS	SEEING	OBSERVER - REMARKS
	June 23	40	Hale - Poppe	18 <sup>h</sup> 58 <sup>m</sup>	-12 32	Good	3	H. Giclas
	Aug 8	41	" "	18 <sup>h</sup> 05	-8° 16	Good	3	H. Giclas
	Oct 11	42	" "	17 30	-4 30	Good	3+	Melanie Matton
	Nov 8	43	" "	17 41	-2 40	Good	2, 1	H. Giclas
	Dec 8	44	G157 Reg	23 17	-3 36	Good	3	H. Giclas
1997								
	Feb 10	45	Hale - Poppe	20 <sup>h</sup> 06	+19 59	Fair	3-	H. Giclas
	Feb 19	46	" "	21 <sup>h</sup> 05	+27 08	Good	3-	"
	Mar 6	47	" "	21 45	+41°	Good	2	"
	"	48	" "	21 52	37°	"	"	"
	" 7	49	" "	21 18	+39 46	Good	2	"
	" 10	50	" "	22 06	+45°	Good	3	"
	" 10	51	" "	22 20	+48	"	"	"
	March 13	52	" "	22 36	+45 45	Good	3+	"
	" 13	53	" "	22 47	+42°	"	"	"
	" 17	54	" "	22 45	+48 20	Poor	2	"
	" 19	55	" "	23 28	+48 20	Good	3+	"
	" 26	56	" "	29 47	+48 20	Good	0	" NE Wind
	" 30	57	" "	1 40	+48 40	Good	1	" " "
	April 7	58	" "	3 <sup>h</sup> 56 <sup>m</sup>	+45° 0	Fair	2	" " " "
	" 9	59	" "	3 <sup>h</sup> 40	+44 05	Fair	3	" " " "

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