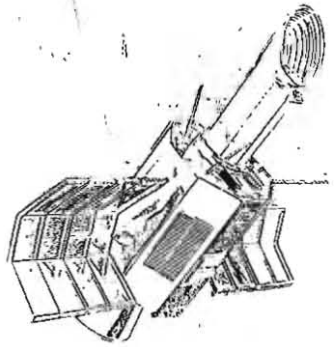

I.U.E

VILSPA OBSERVATORY LOG

VOLUME 5

1982

[illegible] LOG · DATE 1 JAN 82 · [illegible] TAPE 1 JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	[illegible] ref. p. plot [illegible]/f.o.	[illegible]	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	EXPON mm:ss	CONTIN.	F.L. LINES	SPACKS	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HD 527	HD 100213 66	08 [illegible] 8.5	α 11h, 24m, 56s δ −65°, 27′, 59″ R 243°, 36′, 20″.1	L	SWP 15915 1 + 1	17 4 3 f.o.	−1.7 .60 11.2	L	0	8:36:25 played	1:00 back	5 3	0	0	1/x sat JAN 82 1+9 MN=	H. DREEHSEL A.H.
"	"	"	α , , δ , ″ R , ,	L	LWR 12251 1 + 1	1693 4 f.o.	−1.7 .60 15.2	L	0	8:40:27 played	1:05 back	7 3	0	2	beginning Raw tape 1 JAN 2 JAN 82 1+10 MN=	"
"	"	"	α , , δ , ″ R , ,	H	SWP 15916 1 + 2	1642 6 f.o.	−4.6 .14 11.2	L	0	09:29:49 played	60:00 back	5 3	0	1	1219 cts at the end of the exposure JAN 82 MN= 1+11	"
"	HD 102552 66	8 [illegible] + 66.5 [illegible] f.o.	α 11h, 45m, 30s δ −60°, 17′, 16″ R 245°, 52′, 55″.4	L	LWR 12252 1 + 3	1031 2 f.o.	−1.8 .08 15.5	L	0	11:09:29 played	1:30 back	6 3	0	2	3/x sat JAN 82 1+12 4 MIN HTR MN=	"
"	"	"	α , , δ , ″ R , ,	L	SWP 15917 1 + 4	1037 3 f.o.	−1.3 .08 11.5	L	0	11:14:51 played	2:30 back	5 4	0	1	JAN 82 1+10 MN=	"
K. 404 3144	WX HYI 54	Dw. Nova 14.2	α 2h, 8m, 22s.5 δ −63°, 30′, 34″ R 118°, 34′, 17″.3	L	LWR 12253 1 + 5	39 4 f.o.	−1.2 .08 15.9	L	0	12:12:42 played	10:00 back	3 4	5	4	JAN 82 1+8 4 MIN HTR MN=	S. CZERNY JONES A.H.
3145	"	"	α , , δ , ″ R , ,	L	SWP 15918 1 + 6	35 5 f.o.	−1.0 .08 10.8	L	0	13:32:43 played	130:00 back	3 4	4	1	JAN 82 1+9 MN=	"
			α , , δ , , R , ,		1 +										MN=	

SA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_V E(B–V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
K 404 3146	EX HYA 54	13.5 dw nova	α 12ʰ, 49ᵐ, 42ˢ.6 δ −28°, 58′, 39″.7 R 249°, 46′, 24″.0	L	LWR 12261 1 + 1	76 15 f.o.	−1.6 0.90 12.8	L	0	08:38:00	45:00	5	6	3	5 px sat. 4 MIN HTR MN=	S-CZERNY JONES A.H.
3147	"	"	α , , δ , " , R , ,	L	SWP 15926 1 + 2	69 0 f.o.	−1.6 40 8 8	L	0	09:26:10	55:00	4	5	1	MN=	"
3148	BV CEN 54	dw. nova 13.4	α 13ʰ, 28ᵐ, 9ˢ.5 δ −54°, 43′, 05″ R 263°, 51′, 51″.5	L	LWR 12262 1 + 3	76 7 f.o.	−1.0 .08 13.8	L	0	10:56:35	35:00	3	3	3	4 MIN-HTR MN=	"
3149	"	"	α , , δ , " , R , ,	L	SWP 15927 1 + 4	79 4 f.o.	−0.9 .08 9.2	L	0	11:37:07	50:00	2	2	0	MN=	"
3150	Z CHA 54	dw nova 13.5	α 8ʰ, 8ᵐ, 50ˢ.1 δ −76°, 23′, 04″ R 198°, 32′, 36″.8	L	LWR 12263 1 + 5	69 5 f.o.	−1.1 .08 14.2	L	0	12:46:47	69:00	5	0	3	4 MIN-HTR MN=	"
3151	"	"	α , , δ , " , R , ,	L	SWP 15928 1 + 6	65 3 f.o.	−1.0 .08 9.2	L	0	13:49:50	118:00	6	7	1	MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

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SA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_V E(B–V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HD 5.27	HD 102552 66	B1V+B6.5III 8.9 0.27	α 11ʰ, 45ᵐ, 30ˢ δ −60°, 17′, 16″ R 244°, 15′, 47″.5	L	SWP 15938 1 + 1	1180 2 f.o.	−1.2 .30 7.2	L	0	08:31:57	2:00	5	0	0	MN=	H. DRECHSEL A.H.
"	"	"	α , , δ , " , R , ,	L	LWR 12269 1 + 2	1167 7 f.o.	−0.7 .30 11.2	L	0	08:48:01	1:15	5	0	2	cts end expo. (8:47). 1143 f.o. 4 MIN-HTR MN=	"
"	"	"	α , , δ , " , R , ,	H	SWP 15939 1 + 3	1131 6 f.o.	−1.8 .30 7.2	L	0	09:16:38	225:00	6	0	3	cts end. expo. (13:03) 828 f.o. MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 15940 1 + 4	800 5 f.o.	−1.6 .08 8.8	L	0	13:28:29	3:00	5	0	1	MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 12270 1 + 5	788 7 f.o.	−1.1 .08 11.2	L	0	13:42:12	2:15	5	0	2	cts end expo (13:46): 771 cts at 14:09: 717 f.o. 4 MIN-HTR MN=	"
"	BH CEN 66	B3 I 10.5	α 11ʰ, 36ᵐ, 49ˢ δ −63°, 08′, 36″ R 242°, 46′, 15″.9	L	SWP 15941 1 + 6	262 10 f.o.	−0.4 .08 8.5	L	0	14:24:49	15:00	6	0	1	45 px. sat. MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 12271 1 + 7	292 7 f.o.	−0.4 .08 12.8	L	0	15:07:32	11:00	7	0	2	MN= 433	"
"	"	"	α , , δ , " , R , ,	L	SWP 15942 1 + 8	295 9 f.o.	−1.1 .08 8.5	L	0	15:35:04	8:00	5	0	1	cts at. 15:47. 283 f.o. MN=	"

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undev/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 404 3152	CN Ori 54	dwarf nova 12.4	α 05h 49m 40.4s δ -05° 25' 39.1" R 150, 12, 10.1	L	SWP 15950 1+1	122 6 A.O.	-1.5 40 F.2	L	0	08:36:01	40:00	5	0	1	MN=	S-CZERNY G.H.P. JONES A.H.
" 3153	"	"	α ' " h δ ' " R ' "	L	LWR 12281 1+2	124 2 A.O.	-.07 .08 13.5	L	0 1	09:20:44	20:00	5	0	3	4 MIN-HTR MN= 792	"
" 3154	X LEO 54	dwarf nova 11.8	α 09h 48m 20.2s δ 12° 6' 36.9" R 249°, 16', 43.9"	L	LWR 12282 1+3	127 3 A.O.	0.0 .08 13.2	L	0	11:15:10	35:00	5	0	3	4 MIN-HTR MN=	"
" 3155	"	"	α ' " δ ' " R ' "	L	SWP 15951 1+4	128 3 A.O.	-0.5 .08 7.8	L	0	11:53:49	40:00	5	0	1	MN=	"
" 3156	V.W. HY 2 54	dwarf nova 10.8	α 4h 9m 32.3s δ -71° 25' 29" R 141°, 14', 15.8	L	LWR 12283 1+5	204 0 A.O.	-2.3 .08 12.5	L	0	13:57:03	8:00	3	0	2	4 MIN-HTR MN=	"
" 3157	"	"	α ' " δ ' " R ' "	L	SWP 15952 1+6	220 1 A.O.	-2.4 .08 7.2	L	0	14:10:29	40:00	3	0	0	MN=	"
3158	"	"	α ' " δ ' " R ' "	L	LWR 12284 1+7	254 0/17 FO	-1.9 .08 12.8	L S	0 0	15:05:04 15:31:51	16:00 12:00	5 3	0 0	3	4 MIN-HTR MN=	"
			α ' " δ ' " R ' "		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undev/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
Uk 404 3159	VW HYI 54	DN ~10.0	α 4, 9, 32.3 δ -71, 25, 29 R 140, 24, 50.6	L	SWP 15965 1+1	415 1 Fo	-1.2 .12 7.5	L	0	08:47:16	20:00	9	0	1	MN=	JONES / CZERNY ee
" 3160	"	"	α ' " δ ' " R ' "	L	LWR 12287 1+2	406 0 Fo	-.7 .08 12.2	L	0	09:13:04	08:00	8	0	2	MN=	"
" 3161	"	"	α ' " δ ' " R ' "	L	SWP 15966 1+3	394 2 FO	-1.8 .08 7.5	L	0	10:13:37	03:00	6	0	1	MN=	"
" 3162	"	"	α ' " δ ' " R ' "	L	LWR 12288 1+4	391 1 FO	-1.8 .08 12.5	L	0	10:19:29	02:40	5	0	2	Fe sct at end exp. 396, Hic λ 2685 MN=538	"
" 3163	"	"	α ' " δ ' " R ' "	H	SWP 15967 1+5	386 1 Fo	-2.1 .08 7.5	L	0	10:52:28	187:00	5	0	2	MN=	"
3164	X LEO 54	DN 12.8	α 9, 48, 20.2 δ 12, 6, 36.9 R 249, 13, 39.9	L	LWR 12289 1+6	65 1 So	-1.5 .08 12.5	L	0	14:57:57	15:00	3	0	2	Hic λ 3039 MN=460	"
" 3165	"	"	α ' " δ ' " R ' "	L	SWP 15968 1+7	68 2 So.	-.5 .08 8.2	L	0	15:18:26	30:00	4	0	1	MN=	"
			α ' " δ ' " R ' "		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DKG THDA	APERTURE	AP. SELT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 404 3166	CN ORI S4	DN ~13	α 5, 49, 40.4 δ -5, 25, 39.9 R 146, 55, 14.3	L	LWR 12293 1+1	80 1 So	-.7 .20 13.2	L	O	08:55:37	30:00	4	0	2	4m-HWU / MM λ 1944 MN= 695	JONES-CZERNY cc
3167	"	"	α , , δ " , R , ,	L	SWP 15983 1+2	82 2 So	-.9 .16 9.8	L	O	09:36:07	50:00	5	0	1	MN=	"
3168	VW HYI S4	DN ~13	α 4, 9, 32.3 δ -71, 25, 29 R 139, 16, 48.1	L	LWR 12294 1+3	110 2 FO	-1.8 .08 14.2	L	O	11:18:09	07:00	5	0	2	4 MN-HTR MN=	"
3169	"	"	α , , δ " , R , ,	L	SWP 15984 1+4	110 2 FO	-1.2 .08 10.8	L	O	11:48:11	10:00	5	0	1	MN=	"
3170	X LEO S4	DN ~14	α 09, 48, 20.2 δ 12, 06, 37 R 249, 11, 13.4	L	LWR 12295 1+5	B/O	-1.9 .08 14.5	L	O	12:58:13	60:00	4	0	3	9DE(-462, 781 5000 FO) 4 MN-HTR MN= 785	"
3171	"	"	α , , δ " , R , ,	L	SWP 15985 1+6	B/O	-1.0 .08 9.8	L	O	14:03:12	104:00	5	0	1	9DE(-253, 642 5261 FO) MN=	"
			α , , δ , R , ,		1+										MN=	
			α , , δ , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DKG THDA	APERTURE	AP. SELT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JF 520	HDE 269006 23	B2.5Iep 10.9 0.16	α 5, 2, 30.2 δ -71, 24, 21 R 150, 32, 34.2	H	SWP 15986 1+1	195 6 FO	-.1 .16 7.5	L	O	08:39:23	428:00	4	0	3	9DE(724, 233 18134 FO) MN=	WINKLER cc
			α , , δ , R , ,		1+										MN=	
			α , , δ , R , ,		1+										MN=	
			α , , δ , R , ,		1+										MN=	
			α , , δ , R , ,		1+										MN=	
			α , , δ , R , ,		1+										MN=	
			α , , δ , R , ,		1+										MN=	
			α , , δ , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 404 3172	PG 2337+12 63	Pec Nov L ~13.5	α 23, 37, 51.34 δ 12, 21, 03.6 R 118, 13, 7.4	L	LWR 12306 1 + 1	103 3 S.O.	1.9 .08 14.5	L	O	9:06:22	30:00	3	0	3	RA. with 4 min warm up. MN=	JONES / KZERNY LB
" 3173	"	"	α , , δ " , " , " R , ,	L	SWP 15987 1 + 2	94 4 S.O.	.09 .08 85	L	O	9:40:12	40:00	4	0	1	MN=	"
" 3174	VW HYI 54	Dw.N. ~13.8V	α 4, 9, 32.3 δ -71, 25, 29 R 137, 13, 35.3	L	LWR 12307 1 + 3	52 3 S.O.	-2.9 .08 14.5	L	O	11:25:13	45:00	4	0	3	4 min. warm-up MN=	"
" 3175	"	"	α , , δ " , " , " R , ,	L	SWP 15988 1 + 4	83 4 S.O.	-2.2 .08 9.2	L	O	12:14:25	90:00	5	0	1	MN=	"
" 3176	X LEO 54	dw.N. ~14.5	α 9, 48, 20.2 δ 12, 6, 36.9 R 249, 1, 54.9	L	SWP 15989 1 + 5	B-O	-0.8 .08 9.8	L	O	14:28:24	80:00	2	0	1	MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK486 3177	TT ARI 54	Cat.Var. 11.8	α 02, 04, 09.9 δ 15, 03, 26.5 R 109, 17, 33.1	L	LWR 12313 1 + 1	327 3 (08:28:44) S.O.	-1 .28 12.2	L	O	08:32:06	15:00	5	0	2	MN= 368	H. SHERRINGTON LB
" 3178	"	"	α , , δ " , " , " R , ,	L	SWP 15996 1 + 2	321 (8:50) 5 S.O.	-.12 .46 7.2	L	O	08:53:16	15:00	4	0	1	1 line missing y = 733 MN=	"
" 3179	TT ARI "	"	α , , δ " , " , " R , ,	L	LWR 12314 1 + 3	251 (9:26) 2 S.O.	-.8 .12 12.5	L	O	09:29:31	15:00	5	0	2	4 min warm up MN= 879	"
" 3180	"	"	α , , δ " , " , " R , ,	L	SWP 15997 1 + 4	263 (9:54) 6 S.O.	-1.1 .08 8.5	L	O	9:57:11	20:00	5	0	1	MN=	"
" 3181	"	"	α , , δ " , " , " R , ,	L	LWR 12315 1 + 5	348 (10:27) 3 S.O.	-1.3 .08 12.8	L	O	10:31:31	15:00	6	0	3	4 min. heater warm up. MN=	"
" 3182	"	"	α , , δ " , " , " R , ,	L	SWP 15998 1 + 6	369 (10:54) 7 S.O.	-2.0 .44 9.5	L	O	10:58:24	20:00	6	0	1	MN=	"
" 3183	"	"	α , , δ " , " , " R , ,	L	LWR 12316 1 + 7	334 (11:25) 2 S.O.	-1.6 .08 13.5	L	O	11:29:12	12:00	5	0	3	4 min heater warm up. MN=	"
" 3184	"	"	α , , δ " , " , " R , ,	L	SWP 15999 1 + 8	278 (11:55) 1 S.O.	-1.8 .08 8.8	L	O	11:58:39	17:00	5	0	1	MN=	"

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 486 3185	VW HYI 54	dw.N. ~14	α 4 , 9 , 32.3 δ -71 , 25 , 29 R 136 , 7 , 33	L	SWP 16000 1 + 9	40 (13:03) 7 S.O	-1.4 .08 8.5	L	O	13:25:49	40:00	3	0	1	41 cts. 13:16 ger MN=	H. SHERRINGT / LB
" 3186	"	"	α , , δ " , " , " R , ,	L	LWR 12317 1 + 10	35 (14:05) 10 S.O	-1.1 .08 12.8	L	O	14:10:25	20:00	3	0	3	4 min heater warm up MN=	"
" 3187	"	"	α , , δ " , " , " R , ,	L	SWP 16001 1 + 11	39 (14:36) 6 S.O.	-1. .08 8.8	L	O	14:40:54	33:00	3	0	1	MN=	"
" 3188	"	"	α , , δ " , " , " R , ,	L	LWR 12318 1 + 12	34 4 S.O.	-.37 .08 13.5	L	O	15:18:17	25:00	3	0	3	4 min. heater warm-up. MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HD 512	1355 - 41 85	950 ~16	α 13 , 55 , 56.9 δ -41 , 38 , 13 R 258 , 3 , 1	L	SWP 16013 1 + 1	B-O	-1.4 .22 11.5	L	O	08:42:12	427:00	4	5	4	MN=	H. DENNEFELD / LB
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

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DATE: D 11 M JAN Y 82 RAW TAPE: D 11 M JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SP 558	NGC 2452 70	12.6	α 7, 45, 24.7 δ -27, 12, 41 R 185, 19, 503	L	LWR 12325 1 + 2	92 10 slow	+1.6 .28 13.5	L	O	08:40:35	180:00	3	3	1	4 MIN-HIR MN=	GATHIER P.B.
	NULL		α , , δ , , R , ,		SWR 1170 1 + 1		-	/							SAFETY READ OK - AVG BKG = 40 MN=	"
"	NGC 2792 70	13.5	α 9, 10, 33.7 δ -42, 13, 08 R 205, 26, 28.8	L	SWP 16018 1 + 3	114 10 slow	-1.1 0.08 9.8	L	O	12:15:40	90:00	3	4	1	MN=	"
"	"	"	α " , " , " δ " , " , " R " , " , "	L	LWR 12326 1 + 4	"	-2.0 0.08 15.5	L	O	13:45:26	114:00	3	4	1	4 MIN-HIR MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
STAN	HD 40932 35	Am: 4.12	α 5, 59, 37.8 δ 9, 38, 56 R 121, 17, 62.4	L	SWP 16029 1 + 1	536 89 und.	-1.4 0.08 11.8	L S	O	08:49:49 08:54:20	00:20 00:31	5 3	0 0	5 0	MN=	Benvenut P.B.
"	HD 48097 30	A2 V 5.12	α 6, 39, 29.6 δ 17, 41, 45 R 110, 6, 26.1	L	LWR 12327 1 + 2	200 45 und	-2.7 0.08 15.5	L / S	O	09:38:46 09:42:23	00:11 00:17	5 5	0 0	1	4 MIN-HIR MN=	"
	"	"	α " , " , " δ " , " , " R " , " , "	#	SWP 16030 1 + 3	"	0.5 0.08 12.5	L	O	09:47:42	20:00	5	0	0	MN=	"
	"	"	α " , " , " δ " , " , " R " , " , "	#	LWR 12328 1 + 5	"	1.2 0.08 16.2	L	O	10:22:38	13:00	5	0	1	4 MIN-HIR MN=	"
	"	"	α " , " , " δ " , " , " R " , " , "	L	SWP 16031 1 + 4	"	2.2 0.08 13.8	L S	O	10:51:29 10:56:28	00:25 00:40	5 5	0 0	0	TELEMETRY LOSSES MN=	"
SP558	NGC 2792 70	13.5	α 9, 10, 33.7 δ -42, 13, 08 R , ,	L	SWP 16032 1 + 6	137 27	1.8 0.08 14.5	L	O	13:00:16	167:00	3	5	0	MN=	GATHIER P.B.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y 13 JAN 82 RAW TAPE D M 13 JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JL 542	NGC 604 72	HII /	α 1,31,44.1 δ 30,31,37 R 109,23,26.8	L	SWP 16034 1+1	BO	.9 .08 11.2	L	O	08:55:14	180:00	3	0	1	GUIDE X=302 Y=-89 ds:141 FO MN=	LEQUEUX PP
"	"	"	α 1,31,42.8 δ 30,31,40 R 109,26,19.9	L	SWP 16035 1+	BO	-1. .08 11.2	L	O	12:37:52	188:00	6	0	1	GUIDE X=359 Y=-55 ds:132 FO MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	HD 93521 12	O9Vp 6.89	α 10,45,33.6 δ 37,50,4.5 R 279,4,28.3	L	LWP 1436 1+1	5798 12/302 FO	-2. .08 8.2	L S	O	09:05:09 09:09:11	00:03 00:08	5 5	0	1	Sensit. monit. MN=	PATRIARCHI PP
"	"	"	α , , δ , , R , ,	L	LWP 1437 1+2	5602 8 FO	-1.5 .08 8.2	L	O	09:41:31	00:7.66	4	0	2	Sens. mon. TRAILED Rate:261 B=34 ITER=1 MAXC=152 MN=	"
"	BD+33 2642 20	B2IV 10.82	α 15,50,1.1 δ 33,5,28 R 233,48,55.1	L	LWP 1438 1+3	184; 1/9 FO	-1.1 .08 8.2	L S	O	10:34:08 10:40:13	02:40 08:00	5 5	0	2	Sens. monit. B=34 MAXC=806 (LAP MN=	"
"	"	"	α , , δ , , R , ,	L	LWP 1439 1+4	172 3 FO	-1.8 .08 8.5	L	O	11:20:33	487.5	5	0	2	Sens. mon. TRAILED RATE=0.041 ITER=1 B=36 MAXC=179 MN=	"
"	BD+28 4211 16	Sd0 9.54	α 21,48,56 δ 28,37,35 R 144,55,37	L	LWP 1440 2+5	264 2/13 FO	-2. .08 8.8	L S	O	12:37:03 12:41:10	00:50 02:30	5 5	0	2	Sens. mon. B=32 MAXC=216 MN=	"
"	"	"	α , , δ , , R , ,	H	LWP 1441 1+6	264 2 FO	-1.3 .08 8.8	L	O	13:21:45	68:00	5	0	2	Sens. monit. MN=	"
"	NULL	"	α , , δ , , R , ,		LWR 12340 1+7										NULL IMAGE MN=	"
"	ZETA CAS 20	B2IV 3.68	α 0,34,1.0 δ 53,37,19 R 116,3,25.8	H	LWP 1442 1+9	984 154 FU	-1.2 .08 9.2	L	O	15:23:20	00:18	5	0	1	MN=	"

OBSERVATORY LOG

DATE D 15 M JAN Y 81 RAW TAPE D 15 M JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GH 504	SMC X-1 59 0.0	BOIa 13.2	α 1, 15, 45 δ -73, 42, 28.9 R 89, 10, 34.7	H	SWP 16045 1+	87 3 SO	-1.2 .08 8.8	L	O	08:50:41	898:00	3	0	9	READ AT GSFC binary tape MN=	HAMACHER-SCHLAGE PP
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
LP 572	SK 103 23	B.OI 12.43 0.04	α 1, 0, 23 δ -72, 51, 39 R 84, 44, 5	L	LWR 12345 1+1	190 6 SO	-.3 .08 15.5	L	O	08:50:10	11:00	5	0	2	MN= 551	PREVOT PP
			α δ R	L	SWP 16049 1+2	186 3 SO	-.3 .08 10.8	L	O	09:04:35	22:00	5	0	1	MN=	
	SK 119 20	B2-3 12.22	α 1, 3, 24 δ -72, 55, 56 R 85, 21, 52.1	L	LWR 12346 1+3	216 6 SO	-1.3 .08 15.9	L	O	09:48:07	14:00	5	0	2	MN= 371	
			α δ R	L	SWP 16050 1+4	212 5 SO	-1.7 .08 10.8	L	O	10:15:59	27:00	5	0	1	MN=	
	SK 143 20	B2.5 12.88 0.33	α 1, 9, 27 δ -72, 58, 46 R 86, 44, 50.4	L	LWR 12347 1+5	113 6 SO	-1.6 .08 15.9	L	O	10:59:30	60:00	6	0	3	HTR WARM-UP = 4 min MN= 831	
			α δ R	L	SWP 16051 1+6	118 6 SO	-1.8 .08 11.2	L	O	12:02:40	11:00	5	0	1	MN=	
	SK 191 20	B 1.5 11.86	α 1, 40, 45 δ -74, 06, 33 R 93, 39, 7.4	L	LWR 12348 1+7	289 6 SO	-1.1 .08 15.5	L	O	14:16:48	12:00	5	0	2	MN= 556	
			α δ R	L	SWP 16052 1+8	277 5 SO	-1.5 .08 11.8	L	O	14:44:27	28:00	5	0	0	MN=	

OBSERVATORY LOG

DATE D 16 M JAN Y 82 RAW TAPE D 16 M JAN

/ UK NO. POSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	IES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
P 72	SK94 20	12.5 12.37	α 0, 59, 29 δ -72, 16, 04 R 84, 26, 47.8	L	L W/R 12348 1+9	184 4 SO	-1. .08 15.9	L	O	15:29:42	15:00	5	0	2	MN=.839	PREVOT PP
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

ESA / UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	IES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss.	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 473 3189	SMC X-1 59 0.5	BOIa 13.2	α 1, 15, 45 δ -73, 42, 23 R 86, 59, 36.2	H	SWP 16062 1+	81 4 SO	1.9 .08 13.2	L	O	08:43:42	890	3	0	9	READ AT GSFC binary tape MN=.	HANHORSCHLAG PP
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS RNG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
IK MAINT.	BD+28 4211	sd O	α 21 , 48 , 56	L	LWP	262	-1.8	L	O	09:29:01	0:50	5	0	2	(100% exp)	BLADES
	16	10 53	δ +28 , 37 , 35		1443	1	.08									JCB
.190			R 148 , 23 , 34.7		1+1	0/F	11.2	S		09:32:23	2:30	6	0	2	MN=	
			α , ,	H	SWP		-1.8	L		09:41:18	22:00	5	0	0	wrong pedestal level, camera not prepped!	
3191			δ , ,		16568	1	.08			10:4:25	24:00				MN=	
			R , ,		1+5	0/F	12.2									
			α , ,	L	LWP		-1.8	L		10:17:30	0:10	3	0	2	(20% exp)	
3192			δ , ,		1444	1	.08									
			R , ,		1+2	0/F	11.8								MN=	
			α , ,	L	LWP		-1.8	L		10:54:30	0:25	3	0	2	(50% exp)	
3193			δ , ,		1445	— " —	.08									
			R , ,		1+3		12.2								MN=	
			α , ,	L	LWP		-1.95	L		11:26:20	0:50	5	0	2	(100% exp)	
3194			δ , ,		1446	— " —	.08									
			R , ,		1+4		12.5	S		11:29:13	2:00	5	0	2	MN=	
			α , ,	L	LWP		-1.4	L		12:24:08	1:40	8	0	2	(200% exp)	
3195			δ , ,		1447	— " —	.08									
			R , ,		1+6		12.5								MN=	
			α , ,	L	LWP		-1.4	L	G	12:58:02	1:15	7	0	2	(150% exp)	
3196			δ , ,		1448	— " —	.08									
			R , ,		1+7		12.8								MN=	
			α , ,	L	LWP		-1.8	L	O	13:31:28	0:50	5	0	2	(60% exp)	
3197			δ , ,		1449		.08									
			R , ,		1+8		12.8								MN=	

OBSERVATORY LOG

DATE 18 JAN 82 RAW TAPE 18 JAN

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS RNG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
IK Maintenance		sd O	α 21 , 48 , 56	L	LWP		-1.8	L	O	14:00:21	0,50	5	0	2		BLADES
	+28 4211	10:53	δ +28 , 37 , 35		1450	— " —	.08									JCB
3198	16		R 148 , 23 , 34.7		1+9		13.2								100% MN=	
— " —	— " —	— " —	α , ,		LWP		-1.7	L	O	14:31:11	0.50	5	0	2		— " —
3199			δ , ,		1451	"	.08								100%	
			R , ,		1+10		13.2								MN=	
— " —	— " —	— " —	α , ,		LWP			L	O	14:57:26	1:15	7	4	2		
3200			δ , ,		1452	— " —	— " —									
			R , ,		1+11										MN=	
"	NULL		α , ,		LWR											
3201			δ , ,		12359											
			R , ,		1+12										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE 19 JAN 82 RAW TAPE 19 JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
8 ~~[illegible]~~ STAN	HD 107832 25	B9 III 5.31	α 12 , 20 , 57.2 δ -35 , 08 , 08 R 238 , 35 , 40.9	L	LWR 12366 1 + 2	20788 51	-1.4 0.08 17.6	L S	0	08:55:47 ~~08:55~~ 08:59:04	00:06 00:09	5 5	0 0	1	4 MIN-HTR MN=	BENVENUTI P.B.
			α , , δ , , R , ,	L	SWP 16075 1 + 1		-1.4 0.08 13.2	L	0	09:02:06	00:10	5	0	0	MN=	
YI D 610	IC 1613 - SA8 75	- 16 ?	α 1 , 2 , 28.8 δ 1 , 52 , 38.2 R 111 , 32 , 36.2		SWP 16076 1 + 3	B.O.	-1.9 0.08 13.2	L	0	10:02:00	345:00	2	0	2	STELLAR CONTINUUM? MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FP534	BD 46°3471 34	A Be 10.1 0.45	α 21 , 50 , 39.1 δ 46 , 59 , 22.0 R 154 , 14 , 50.1	H	LWR 12378 1 + 1	320 3 f 0	-2.9 0.08 17.9	L	0	08:50:18	413:00	2	2	9	4 MIN-HTR MN=	PRASERIC P.B.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

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ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UKCAL 3202	+28 4211 16	sd0 10.53	α 21, 48, 56.0 δ +28, 37, 35 R151, 14, 40.7	L	LWP 1453 1+1	271 2 F/0	-1.3 .08 10.2	L	O	09:35:34	0:50	5	0	2		BLADES JCB
3203	—"—	—"—	α , , δ —"— R , ,	L	LWP 1454 1+2	271 1 F/0	-1.6 .08 10.8	L' L'' L'''	O	10:13:03 10:17:17 10:24:02	0:50 0:50 0:50	5 5 5	0 0 0	2 2 2	mod. ref. pos (-34,-204) actual ref pos (-16,-208) mod. ref. pos (12,-212)	—"—
			α , , δ , , R , ,		(LWP 1454 cont. 1+)			S		10:28:34	1:40	5	0	2	actual ref pos (-16,-208) MN=	
3204	—"—	—"—	α , , δ —"— R , ,	L	LWP 1455 1+3	271	-2.0 .08 11.5	L S	O	11:07:14 11:17:20	2:47 1:40	5 5	0 0	2 2	TRAIL, 1 ITER, R=0.12 arcsec/sec MN=	
3205	HD 214680 13	O8III 4.9	α 22, 37, 1.0 δ +38, 47, 22 R143, 1, 59.2	L	LWP 1456 1+4		-1.4 0.08 11.8	L	O	12:07:07	0:02	5	0	2	TRAIL, 1 ITER, R=9.9 arcsec/sec MN=	
3206	—"—	—"—	α , , δ —"— R , ,	L	LWP 1457 1+5		-0.6 .08 11.8	L	O	12:49:58	0:02	5	0	2	TRAIL, 1 ITER, R=9.9 arcsec/sec MN=	
3207	HD 3360 20	B2III 3.7	α 0, 34, 10.3 δ +53, 37, 20 R121, 2, 59.9	L	LWP 1458 1+6	1030 F/0	-0.6 .08 11.8	L	O	13:42:53	0:0.96"	5	0	2	TRAIL, 1 ITER, R=20.83 arcsec/sec MN=	
3208	—"—	—"—	α , , δ —"— R , ,		LWP 1459 1+7		-.7 .08 12.2	L	O	14:17:12	0:0.96"	5	0	2	—"— MN=	

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ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UKCAL 3209	HD 24760 23	B0.5III 3.0	α 3, 54, 29.4 δ +39, 52, 3 R. , ,	L	LWP 1460 1+8	2133 F/0	-.8 .08 12.2	L	O	15:06:25	1:00.31	5	6	2	TRAIL, R=51.28 a/c SOME EXPOSURE THRU SMALL APERTURE MN=	BLADES JCB
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FP534	HD 250550 34	Ae 9.7	α 5 , 59 , 6.4 δ 16 , 31 , 6.0 R 101 , 6 , 46.1	H	LWR 12395 1 + 1	580 6 f.o	-2.0 0.08 16.5	L	O	09:08:59	395:00	3	6	9	4 MIN-HTR MN=	PRADERIE P.B.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 478 3210	HD 5980 11	WN3 11.61 –	α 0 , 57 , 46 δ -72 , 26 , 0 R 76 , 29 , 58.3	H	LWR 12407 1 + 1	396 16 S/O	-1.3 .08 15.5	L	O	09:35:59	180:00	3	0	6	-4-min-htr-warmup MN=	D. HASLEN JCB
3211	HD269700 23	B1.5 Iae 10.55 –	α 5 , 32 , 6.0 δ -68 , 36 , 00 R 140 , 49 , 38.1	H	LWR 12408 1 + 2	30 7 F/O	-1.0 .08 16.5	L	O	13:35:13	130:00	3	0	5	4-min-htr-warmup MN= 846	— A —
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FP534	BD +46°3471 34	Ae	α 21, 50, 39 δ 46, 59, 22 R 157, 59, 45	L	LWR 12418 1 + 1	293 3 OV.F	-.7 .08 16.9	L	O	8/32/23	30/0	5	6	4	4 min warm up MN= .780	PRADERIE CATALA, crivellari W.W.
"	BP +46°3471 34	Ae	α , , δ ", ", " R , ,	L	LWR 12419 1 + 2	287 2 OV.F	-1.1 .08 17.2	L	O	9/32/42	143/0	7	0	7	4 min warm up MN=	" " W.W.
V|LSP	NGC 3783 84	Seyf.I 13.5	α 11h, 36, 30 δ -37, 28, 00 R 227, 22, 38	L	SWP 16103 1 + 3	97 9 OV.S	-1.1 .08 11.5	L	O	12/55/16	100/0	3	6	0	MN=	WW WW
"	"	"	α , , δ ", ", " R , ,	L	LWR 12420 1 + 4	98 12 OV.S	-.2 .08 16.5	L	O	14/39/04	40/0	3	5	3	4 min warm up. MN=	WW WW
"	"	"	α , , δ ", ", " R , ,	L	SWP 16104 1 + 5	93 14 OV.S.	-.8 .08 12.2	L	O	15/24/28	23/0	2	3	0	MN=	WW WW
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG — DATE 25 Jan 82 — RAW TAPE 25 Jan

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	BD +28°4211 16	sdO 10.5	α 21, 48, 56 δ +28, 37, 34 R 155, 16, 23	H	LWP 1461 1 + 1	270 2 OV.F	-.7 .08 11.2	L	O	09/11/29	75/0	5	0	3	MN=	WAMSTEKER W.W.
"	"	"	α , , δ ", ", " R , ,	L 1	LWP 1462 1 + 2	280/279 2 / 23 OV.F	-1.4 .08 12.8	L S	O O	10/58/20 11/07/52	0/50 2/30	5 6	0 0	3 3	MN=	WAMSTEKER WW.
"	Zeta Cas 21	B2IV 3.7	α 00, 34. 10 δ +53, 37, 19 R 123, 52, 9	L L	LWP 1463 1 + 3	856. OV.F	-2.0 .08 12.8	L S	O O	12/12/09	0/0.52 0/0.05	4 3	0 0	3 3	trail rate 38:333 iter = 1. MN=	WW. W.W.
"	BD +75 325 16	sdO	α 8, 4, 43.0 δ 75, 06, 48 R 6, 45, 26	H	LWP 1464 1 + 4	636 1 OV.F	-.5 .08 12.8	L	O	13/24/42	32/0	5	0	2	MN=	Ww. wW.
"	"	"	α , , δ ", ", " R , ,	L 1	LWP 1465 1 + 5	636 2/63 OV.F	-1.4 .08 12.8	L S	O O	14/35/13 14/39/00	0/21 0/65	4 6	0 0	2 2	MN=	WW WW
"	HD 24760 23	B0.5 III 3.0	α 3, 54, 29 δ 39, 52, 03 R 91, 54, 46	H	LWP 1466 1 + 7	2103 260 UN.F	-.2 .08 13.5	L	O	15/35/59	0/07	5	0	2	MN=	WW WW
	NULL		α , , δ , , R , ,		LWR 12430 1 + 6										MN=	
			α , , δ , , R , ,		1 +										MN=	

UK NO. / OSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
501	HD 67 523 53	F6 II 2.88	α 8 ,05 ,24.8 δ -24 , 09 , 32 R 170 ,53 ,23.3	H	LWR 12438 1+1	1617 330 FU	-1.3 ,08 16.5	L	O	08;53;20	07:00	7	7	2	4 MN-HR MN=	AUVERGNE cc
"	"	"	α , , δ , , R , ,	H	LWR 12439 1+2	1713 340 FU	-1.5 ,08 16.5	L	O	09:32:58	05:00	6	6	2	4 MN-HR MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 12440 1+3	1768 380 FU	-1.1 ,08 16.9	L	O	10:06:44	10:00	7	7	2	4 MN-HR MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 12441 1+4	1695 350 FU	-0.4 ,08 17.2	L	O	10:46:37	10:00	7	7	2	4 MN-HR MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 12442 1+5	1630 300 FU	-.5 ,08 17.2	L	O	11:25:59	10:00	7	7	2	4 MN-HR MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 12443 1+6	1615 300 FU	-.7 ,08 17.2	L	O	12:05:51	10:00	7	7	2	4 MN-HR MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 12444 1+7	1697 244 FU	-1.2 ,08 17.2	L	O	12 45 05	10:00	7	7	2	4 MN-HR MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 12445 1+8	1794 280 FU	-1.0 ,08 16.9	L	O	13:25:07	10:00	7	7	2	4 MN HR MN=	"

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SA / UK NO. / OPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
AS01	HD67523 53	F6II 2.88	α 8. , 5 , 24.8 δ -24 , 9 , 32 R 170 , 53 , 23.3	H	LWR 12446 1+9	1739 300 FU	-1.5 ,08 16.9	L	O	16:05:40	10:00	7	7	2	4 MN-HR MN=	AUVERGNE cc.
SS.TRG.	HD96088 24	B3III 6.17	α 11 , 01 , 52.7 δ -57,41 , 07 R 215 , 15 , 59	L	LWR 12447 1+1	11700 950 FO	-0.8 ,08 16.5	L S	O	15:18:35 15:24:14	00:13 00:06	5 5		0	2 TRAIL 1'56 n=1 NEW RAW TAPE GHOSTS OF PREVIOUS IMAGES MN=	Caccin HIGH DISP. cc
"	"	"	α , , δ , , R , ,	L	SWP 16119 1+2	11826 ~ FO	-0.8 ,08 9.8	L	O	15:35:08	00:22	6	0	1	TRAIL 0'89 n=1 NEW RAW TAPE MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VD 538	HD 5394 20	B0 IV 2.4	α 0 , 53 , 40.3 δ 60 , 26 , 47 R 120 , 59 , 53.8	H	SWP 16127 1 + 1	3799 1200 FU	-2.0 .08 7.5	S	O	08:41:14	00:10	5	0	1	MN=	DOAZAN-THOMAS ee
"	HD 200120 20	B1.5 V 4.7	α 20 , 58 , 7.4 δ +47 , 19 , 29.9 R 174 , 19 , 10.0	L	LWR 12457 1 + 2	26657 562 FO	-1.0 .08 12.8	L / S	O	09:26:00 09:30:02	00:01 00:02	5 5	0	2	4 MIN-HTR MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 16128 1 + 3	26958 545 FO	-0.6 .08 7.5	L S	O	09:34:04 09:37:57	00:01 00:02	6	0	9	Missed last Read-erase in Sprep. MN=	"
"	"	"	α , , δ , " , R , ,	H	LWR 12458 1 + 5	27596 613 FO	-1.3 .08 12.8	L	O	11:02:51	01:20	5	0	2	4 MIN-HTR MN=	"
"	"	"	α , , δ , " , R , ,	H	SWP 16130 1 + 6	27094 563 FO	-1.3 .08 8.2	L	O	11:07:35	01:10	5	0	1	MN=	"
			α , , δ , , R , ,	L	SWP 16129 1 + 4	27509 550 FO	-1.9 .08 7.8	L S	O	10:32:20 10:37:17	00:01 00:02	5 5	0	1	MN=	"
"	HD 5394 20	B0 IV 2.4	α 0 , 53 , 40.3 δ 60 , 26 , 47 R 121 , 7 , 2.6	H	SWP 16131 1 + 7	3783 1736 FU	-.4 .08 8.5	S	O	12:05:20	00:12	5	0	1	MN=	"
"	HD 200120 20	B1.5 V 4.7	α 20 , 58 , 7.4 δ 47 , 19 , 29.9 R 174 , 27 , 58.9	H	SWP 16132 1 + 8	26718 560 FO	-.2 .08 8.5	L	O	12:47:29	01:10	5	0	1	MN=	"

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VD 538	HD 5394 20	B0 IV 2.4	α 0 , 53 , 40.3 δ 60 , 26 , 47 R 121 , 9 , 44.7	H	SWP 16133 1 + 9	3751 1148 FU	-1.0 .08 8.8	S	O	13:35:14	00:12	5	0	1	MN=	DOAZAN-THOMAS ee
"	HD 200120 20	B1.5 V 4.7	α 20 , 58 , 7.4 δ 47 , 19 , 29.9 R 174 , 31 , 59.3	H	SWP 16134 1 + 10	26630 543 FO	-.5 .08 8.8	L	O	14:18:38	01:10	5	0	1	MN=	"
"	HD 5394 20	B0 IV 2.4	α 0 , 53 , 40.3 δ 60 , 26 , 47 R 121 , 12 , 41.4	H	SWP 16135 1 + 13	3766 1576 FU	-.8 .08 9.2	S	O	14:59:54	00:12	5	0	1	Played back. MN=	"
"	HD 200120 20	B1.5 V 4.7	α 20 , 58 , 7.4 δ 47 , 19 , 29.9 R 174 , 35 , 42.2	H	SWP 16136 1 + 12	26450 583 FO	-1.2 .08 9.2	L	O	15:43:40	01:10	5	0	1	MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R ANGLE , ,		1 +										MN=	

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3212 UK481	HD 53994 20	8.0 V 2.4	α 0h, 53m, 40.s3 δ 60°, 26', 47" R 121°, 45', 11".9	H	SWP 16157 1+1	3749 1133 f.o.	-1.3 .08 4.8	S	O	08:11:02	0:11	5	0	1	MN=	DONZAN -THOMAS AM
3213 "	HD 200120 20	8.5 V 4.7	α 20h, 58m, 7.s4 δ 47°, 19', 39".9 R 175°, 21', 24".5	H	SWP 16158 1+2	25923 570 f.o.	-1.5 .08 4.8	L /	O	09:03:01	1:10	5	0	1	MN=	"
3214	HD 53994 20	8.0 V 2.4	α 0h, 53m, 40.s3 δ 60°, 26', 47" R 121°, 48', 39".7	H	SWP 16159 1+3	3668 1113 f.o.	-2.2 .08 9.8	S	O	09:46:20	0:16	5	0	1	MN=	"
" 3215	HD 200120 20	8.5 V 4.7	α 20h, 58m, 7.s4 δ 47°, 19', 24".9 R 175°, 25', 18".0	H	SWP 16160 1+4	26033 536 f.o.	-1.7 .08 9.8	L	O	10:24:12	1:10	5	0	1	MN=	"
" 3216	HD 53994 20	8.0 V 2.4	α 0h, 53m, 40.s3 δ 60°, 26', 47" R 121°, 51', 15".1	H	SWP 16161 1+5	3680 1113 f.o.	-1.3 .08 10.2	S	O	11:04:37	0:11	5	0	1	MN=	"
" 3217	HD 200120 20	8.5 V 4.7	α 20h, 58m, 7.s4 δ 47°, 19', 24".9 R 175°, 28', 45".7	H	SWP 16162 1+6	26939 525 f.o.	-1.2 .08 10.2	L	O	11:41:55	1:10	5	0	1	MN=	"
" 3218	HD 53994 20	8.0 V 2.4	α 0h, 53m, 40.s3 δ 60°, 26', 47" R 121°, 53', 39".7	H	SWP 16163 1+7	3712 1170 f.o.	-1.5 .08 10.2	S	O	12:15:21	0:11	5	0	1	MN=	"
" 3219	HD 200120 20	8.5 V 4.7	α 20h, 58m, 7.s4 δ 47°, 19', 24".9 R 175°, 31', 51".6	H	SWP 16164 1+8	26219 523 f.o.	-0.7 .08 10.2	L	O	12:54:32	1:10	5	0	1	MN=	

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ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3220 UK491	HD 53994 20	8.0 V 2.4	α 0h, 53m, 40.s3 δ 60°, 26', 47" R 121°, 56', 1".9	H	SWP 16165 1+9	3698 1110 f.o.	-1.0 .08 10.2	S	O	13:37:41	0:11	5	0	1	MN=	DONZAN -THOMAS AM.
3221	HD 200120 20	8.5 V 4.7	α 20h, 58m, 7.s4 δ 47°, 19', 99".9 R 175°, 35', 17".2	H	SWP 16166 1+10	26202 526 f.o.	-1.0 .08 10.2	L /	O	14:18:37	1:10	5	0	1	MN=	"
" 3222	HD 53994 20	8.0 V 2.4	α 0h, 53m, 40.s3 δ 60°, 26', 47" R 121°, 58', 45".5	H	SWP 16167 1+11	3656 1131 f.o.	-1.3 .08 10.2	S	O	14:57:41	0:11	5	0	1	MN=	"
" 3223	HD 200120 20	8.5 V 11.7	α 20h, 58m, 7.s4 δ 47°, 19', 29".9 R 175°, 39', 1".8	H	SWP 16168 1+12	26231 523 f.o.	-0.9 .08 10.5	L	O	15:34:50	1:10	5	0	1	MN=	"
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MG 540	HD 100340 20	21 10.2	α 11ʰ, 30ᵐ, 15ˢ.3 δ 5°, 33', 10" R 249°, 6', 26".8	L	SWP 16197 1 + 1	358 2/14 f.o.	-0.8 .08 11.8	L S	0 0	08:21:51 08:29:49	2:00 2:30	7 6	0 0	1 1	2 px sat. MN=	BERGER -FRINGANT A.H.
"	"	"	α , , δ , " , R , ,	L	LWR 12463 1 + 2	357 0/15 f.o.	-1.0 .08 15.9	L S	0 0	08:35:19 08:39:53	1:20 1:50	5 4	0 0	2 2	4 min warm up. MN= 775	"
"	"	"	α , , δ , " , R , ,	"	SWP 16198 1 + 3	345 1 f.o.	-1.1 .08 11.8	L	0	09:08:13	100:00	5	0	2	MN=	"
"	"	"	α , , δ , " , R , ,	"	LWR 12464 1 + 4	356 2 f.o.	-1.1 .08 15.9	L	0	10:51:29	125:00	6	0	5	4 min warm up. MN=	"
"	HD 18100 20	21 8.5	α 2ʰ, 51ᵐ, 30ˢ δ -26°, 21', 32".0 R 106°, 55', 26".8	L	SWP 16199 1 + 5	1593 9/60 f.o.	-1.1 .08 10.5	L S	0 0	13:41:47 13:45:07	0:20 0:23	6 5	0 0	1 1	3 px sat MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 12465 1 + 6	1581 3/89 f.o.	-1.6 .08 16.5	L S	0 0	13:47:01 13:52:41	0:20 0:35	5 5	0 0	2 2	4 MIN-HTR MN=	"
"	"	"	α , , δ , " , R , ,	"	SWP 16200 1 + 7	1588 5 f.o.	-2.4 .08 10.5	L	0	14:20:41	80:00	5	0	1	MN=	"
"	"	"	α , , δ , " , R , ,	"	LWR 12466 1 + 8	1605 5 f.o.	-1.5 .08 16.2	L	0	14:52:02	88:00	6	0	3	4 MIN-HTR MN=	"

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MG 540	HD 18100 20	B1 8.5	α 2ʰ, 51ᵐ, 30ˢ δ -26°, 21', 32".0 R 106°, 55', 26".8	H	SWP 16201 1 + 9	1608 4 f.o.	-1.8 .08 10.8	L	0	15:23:14	94:00	5	0	1	MN=	BERGER- FRINGANT A.H.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DISP THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 467	L302 70	— 16	α 0 , 54 , 35·1 δ -72 , 23 , 09·9 R 67 , 51 , 26·0	L	SWP 16210 1+1	B/0	-1.2 .08 12·2	L	0	09:05:44	180:00	3	3	2	MN=	BLADES JCB
4	N28 70	— 16	α 5 , 11 , 07·3 δ -67 , 51 , 32·2 R 128 , 57 , 17	L	LWR 12474 1+2	B/0	-1.9 .08 15·9	L	0	12:52:53	80:00	1	1	3	NO spectrum visible, 4 MW-HIR MN= 857	
4	N66 70	— 16	α 5 , 36 , 22·2 δ -67 , 19 , 54 R 134 , 39 , 33	L	SWP 16211 1+	B/0	-1·3 .08 12·5	L	0	14:34:33	75:00	2	3	1	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DESTINATION LOG

ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DISP THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UKCAL	NULL		α , , δ , , R , ,		LWP 1467 1+1		.08 11·8								HI - READ MN=	JCB BLADES JCB
	60% CALUV		α , , δ , , R , ,		LWP 1468 1+2		-1·1 .08 11·8			09:22:30	2:04				FINAL UV TEMP=40 MN=	
	20% CALUV		α , , δ , , R , ,		LWP 1469 1+3		-11 .08 12·5			10:12:49	0:41				FINAL UV TEMP=36 MN=	
	120% CALUV		α , , δ , , R , ,		LWP 1470 1+4		-11 .08 12·8			10:44:58	4:08				FINAL UV TEMP=42 MN=	
	60% CALUV		α , , δ , , R , ,		LWP 1471 1+5		-1·0 .08 13·2			11:19:52	2:04				NO COMMENTS FINAL UV TEMP=38 MN=	
	100% TRLOD	—	α , , δ , , R , ,		LWP 1472 1+6		-10 .08 13·2			11:48:00	1:40				MN=	
	160% CALUV		α , , δ , , R , ,		~~LWP~~ LWP 1473 1+7		-1·5 .08 13·2			12:49:23	5:31				READ ONLY MN=	
	NULL		α , , δ , , R , ,		LWP 1474 1+8		-15 .08 13·2								MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECL/DIAMETER ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UKCAL	NULL		α , , δ , , R , ,		LWP 1475 1+9		-1.2 0.06 B2								HI READ MN=	
	NULL		α , , δ , , R , ,		LWP 1476 1+10		.08 135	/							LO READ MN=	
	NULL		α , , δ , , R , ,		LWP 1477 1+12										MN=	
	NULL		α , , δ , , R , ,		LWR 1482 1+11										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PP 563	HD 37022 12	O6p 5.13	α 5 , 32 , 48.9 δ -5 , 25 , 14 R 115 , 27 , 24.9	H	LWR 12489 1+3	BO	-.7 .2 15.2	L	O	07:02:41	3:00	7	0	2	θ¹ ORI C X = 351 } Guide θ¹ ORI A Y = -35 } 4ᵐᵐ HIR W. UP MN=	PATRIARCHI PP
M 42 14" SW θ¹ C 72			α 5 , 32 , 48.2 δ -5 , 25 , 22.9 R 115 , 26 , 53.4	L	SWP 16228 1+1	BO	-1.2 .18 10.5	L	O	07:21:02	4:00	5	0	0	X = 603 Y = -124 MN=	
M 42 20" SW θ¹ C 72		"	α 5 , 32 , 48 δ -5 , 25 , 27 R , " ,	L	SWP 16229 1+2	BO	-1.2 .48 10.5	L	O	07:55:39	6:00	5	0	0	X = 606 Y = -104 MN=	
M 42 40" SW θ¹ C 72			α 5 , 32 , 47 δ -5 , 25 , 41.3 R , " ,	L	SWP 16230 1+4	BO	-1. .36 10.5	L	O	08:27:01	15:00	7	5	0	X = 617 Y = -27 MN=	
HD 37022 12		O6p 5.13	α 5 , 32 , 48.9 δ -5 , 25 , 14 R 115 , 23 , 17.4	L	SWP 16231 1+5	BO	-.6 .48 10.5	L	O	09:21:00	00:01	5	0	0	θ¹ ORI C X = 594 } GDE θ¹ ORI A Y = -177 } MN=	
			α , ' , δ , ' , R , ' ,	H	SWP 16232 1+6	BO	-.3 .14 10.5	L	O	09:56:52	45:00	4	0	0	MN=	
EYFE	NGC 5548 84	Seyf. 13.6	α 14 , 15 , 43.2 δ 25 , 22 , 00 R 258 , 18 , 45.6	L	LWR 12490 1+7	59 0 SO	-.3 .10 14.5	L	O	11:06:38	70:00	4	4	3	GUIDE X = 1072 Y = -818 HIR WARM-UP 4 min MN= 739	
			α , 4 , , δ , 4 , R , 4 ,	L	SWP 16233 1+	59 0 SO	-.7 .08 9.5	L	O	12:21:00	86:00	4	3	0	GUIDE X = 1279 Y = -1061 MN=	

OBSERVATORY LOG — DATE 2 FEB 81 — RAW TAPE 2 FEB

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 442 3224	HD 5291 25	B6 I 10.8	α 0, 51, 21.8 δ -72, 54, 42 R 63, 34, 46.6	L	LWR 12491 1+1	170 4 FO	-.3 .26 14.8	L	O	06:39:35	15:00	7	0	2	HTR WARM-UP > 4 MN=	Mc LACHLAN PP
3225			α , , δ , , R , ,	L	SWP 16242 1+2	160 4/11 FO	-.7 .54 12.2	L S	O	07:41:17 06:58:49	16:00 30:00	4 4	0	1	MN=	
3226	HD 4978 25	B6 I 10.98	α 0, 48, 23.1 δ -73, 24, 39 R 62, 31, 5.5	L	LWR 12492 1+3	135 7 FO	-3. .10 15.9	L	O	08:22:26	15:00	6	0	3	HTR WARM-UP > 4 MN=	
3227			α , , δ , , R , ,	L	SWP 16243 1+4	141 4/7 FO	-3. .24 12.8	L S	O	09:36:33 09:01:55	16:00 30:00	3 3	0	0	MN=	
3228	SK 72-32 80	O8 13.74	α 0, 48, 12.9 δ -72, 27, 48 R 62, 46, 29.1	L	LWR 12493 1+5	66 .4 SO	-2.2 .26 16.2	L	O	10:22:19	40:00	6	0	3	HTR WARM-UP > 4 MN=	
	HD 13268 12	O8.V 7.9	α 2, 8, 2.7 δ 55, 55, 26 R 110, 22, 25.4	H	LWR 12494 1+6	1789 5 FO	-1.3 0.1 16.9	L	O	11:49:36	30:00	4	0	3	HTR WARM-UP > 4 MN=	
	HD 12323 12	O8.V 8.5	α 1, 59, 7.4 δ 55, 23, 01 R 112, 16, 19.5	H	LWR 12495 1+7	1026 4 FO.	-1. .16 17.2	L	O	13:16:25	27:00	3	0	3	HTR WARM-UP > 4 MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
LOBC	NGC 1783 83	Gl. clus 10.9	α 4, 58, 42 δ -66, 3, 00 R 122, 28, 56.6	L	LWR 12503 1+	95 16 SO	-1. .16 14.8	L	O	06:33:20	430:00	3	0	3	HTR WARM-UP 4 MN= solar flare	PARAMREN PP
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

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ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 442	SK 72-32 12	OB 13.7	α 0, 48, 12.9 δ -72, 27, 48 R 60, 41, 33.4	L	SWP 16253 1+1	62 2 SO	-.7 .08 9.8	L	O	07:35:58	45:00	7	0	0	MN=	HC LACHLAN PP
"	SK 72-36 12	OB 13.6	α 0, 48, 37.5 δ -72, 28, 35 R 60, 41, 45.1	L	LWR 12506 1+2	58 8 SO	-1.3 .08 15.5	L	O	08:33:58	70:00	6	0	3	HTR WARM-UP x4 MN= 819	"
"	"	"	α , , δ , , R , ,	L	SWP 16254 1+3	55 3 SO	-1.9 .08 10.5	L	O	09:54:52	90:00	7	0	0	MN=	"
"	BBB 280 12	OB 14.5	α 0, 46, 16.8 δ -73, 28, 24 R 59, 31, 45.3	L	LWR 12507 1+5	BO 1	-.8 .08 15.5	L	O	11:56:06	107:00	4	0	4	X = 301 Y = 648 287 FO HTR-WARM-UP = 4 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE 5 FEB 82 RAW TAPE 5 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
B544	NGC 2022 70	PN ~13	α 5, 39, 24 δ +9, 04, 00 R 103, 27, 44.4	H	SWP 16263 1+1	119 41 SO	-.4 .2/.08 10.8	L	O	06:38:48	210:00	2	5	2	GDE (-667, -357 240 SO) MN=	WEHRSE PE.
"	HD 58343 26	Be 5.2	α 7, 22, 24.5 δ -16, 06, 00 R 138, 20, 43.5	H	LWR 12515 1+3	23705 59 FO	-1.5 .08 16.2	L	O	10:57:52	03:00	5	0	2	4 min heater MN= 812	"
"	"	"	α , , δ -11 , , R , ,	H	SWP 16264 1+2	23782 68 FO	-1.5 .08 16.0	L	O	11:04:13	02:00	3	0	1	MN=	"
"	HD 4539		α 00, 44, 54 δ +9, 42, 22 R 115, 49, 14.4	H	SWP 16265 1+4	313 1 FO	-1.5 .08 11.2	L	O	11:50:09	110:00	5	0	1	GDE (821, -1252 145 FO) MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE 6 Feb 82 — RAW TYPE 6 Feb

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	ND SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
/k 433	Serendipity		α δ R	L	LWR 12519 1+1		-1.3 .08 19.8	L	0	06:57:00	400:00	3	06		MN=383	R. ELLIS cc.
11	NGC 2403 80	9.5	α 07, 32, 03. δ +65, 42, 42 R 32, 08. 8.9	L	SWP 16274 1+2	B/0	-1.3 .08 8.8	L	0	06:55:00	412:00	3	03		GDE (1161, 844 245 so) Nucleus MN=	4
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG — DATE 7 Feb 82 — RAW TAPE 7 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	ND SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
422	Serendipity		α δ R	L	SWP 16278 1+1	/	-1.5 .08 9.2	L	0	07:16:40	375:00	1	03		MN=	R. ELLIS cc.
11	NGC 2403 80	9.5	α 7, 32, 03. δ 65, 42, 42 R 33, 14, 1.2	L	SWR 12523 1+2	B/0	-2.3 .08 14.5	L	0	06:47:49	405:00	3	07		GDE (981, 973 296 so) 4 MIN-HTE MN=	4
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VD538	HD 5394 20.	B0 IVe 2.6	α 0 ,53 ,40.3 δ 60 , 26 , 47 R 130, 7 ,5.6	H	SWP 16284 1+1	3668 1160 FU	-1.0 .08 8.8	S	O	06:44:54	00:11	5	0	1	MN=	DOAZAN - THOMAS CC.
"	HD 200120 20	B1.5 Ve 4.7	α 20 ,58 ,7.4 δ +47 , 19 , 30 R 187, 12 ,25.3	L	LWR 12528 1+2	312 30 FU	-1.9 .08 13.2	L / S		07:21:47 07:24:39	00:01 00:02	4 4	0	2	4 MIN-HTR W-UP MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 16285 1+3	308 84 FU	-1.9 .08 8.8	L S		07:28:16 07:31:29	00:01 00:02	5 4	0	1	MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 12529 1+5	306 41 FU	-2.0 .08 13.5	L	O	08:24:03	01:30	5	0	2	4 MIN-HTR W-UP MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 16286 1+4	301 42 FU	-2.0 .08 9.2	L	O	08:28:13	01:30	5	0	1	MN=	"
"	HD 162732 22	B8 V 6.4	α 17 , 48 , 44.7 δ 48 , 24 , 25 R 232, 36 , 0.5	H	SWP 16287 1+6	7144 24 FO	-1.3 .08 9.2	L	O	09:28:43	25:00	5	0	1	9DE (396, -1745 532 FO) MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 12530 1+7	7168 16 FO	-.9 .08 13.8	L	O	09:58:58	22:00	5	0	3	9DE (192, -1602 1702 FO) 4 MIN-HTR MN=	"
"	HD 138749 21	B5 V 4.2	α 15 , 30 , 54.7 δ 31 , 31 , 36 R 256, 17 , 42.5	H	SWP 16288 1+9	591 251 FU	-1.1 .08 9.2	S	O	11:00:34	03:20	5	0	1	MN=	"

OBSERVATION LOG

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ESA UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VD538	HD 138749 21	B5 V 4.2	α 15 , 30 , 54.7 δ 31 , 31 , 36 R 256, 17 , 42.5	H	LWR 12531 1+8	597 185 FU	-1.1 .08 14.5	S	O	11:07:48	03:10	5	0	2	4 MIN-HTR W-UP MN=	DOAZAN / THOMAS CC
"	HD 149757 12	O9.5 Vp 2.6	α 16 , 34 , 24 δ -10 , 28 , 03 R 257, 27 , 52.3	H	SWP 16289 1+10	2601 960 FU	-1.0 .08 9.2	S	O	12:08:22	00:46	4	0	1	MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 12532 1+13	2663 934 FU	-.6 .08 14.5	S	O	12:11:06	00:30	3	0	1	4 MIN-HTR W-UP MN=	"
"	HD 164284 20	B2 Vp 4.8	α 17 , 57 , 47 δ 4 , 22 , 11 R 248, 6 , 35.4	H	SWP 16291 1+12	398 132 FU	-1.3 .08 9.5	S	O	13:21:12	04:30	5	0	1	MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 12533 1+			S	O		03:00				MN=	"
"	HD 149757 12	O9.5 Vp 2.6	α 16 , 34 , 24 δ -10 , 28 , 03 R 257, 27 , 52.3	H	SWP 16290 1+11	2697 971 FU	-1.3 .08 9.5	S	O	12:37:42	01:05	7	0	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

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ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 433	NGC 3995 80	~12	α 11, 55, 10 δ 32, 34, 18 R 289, 10, 40.7	L	LWR 12534 1 + 2	-30 10 SO	-1.7 .08 15.2	L	O	06:57:11	406:00	3	0	7	GDE (-1098, -503 8409 Fo) 4 MIN-HTR MN=	R. ELLIS ee.
"	"	Serendipity	α δ R	L	SWP 16295 1 + 1			L	O	07:00:56	392:00	1	0	3	MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE 10 FEB 82 RAW TAPE 10 FEB

(ESA) / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PB 608	HD 42477 22	B9 V 5.87 0.01	α 6, 8, 38 δ 13, 39, 06 R 97, 38, 28	H	LWR 12542 1 + 1	12097 46 FO	-1.2 .08 15.2	L	O	06:46:50	25:00	5	0	2	+5" off center - (RP: -34, -204) 4-MIN-HTR MN=	BRUSTON / GRY ee.
"	"	"	α , , δ , " , R , ,	H	SWP 16303 1 + 2	12169 49 FO	-1.6 .08 9.8	L	O	07:15:06	40:00	5	0	1	+5" off center RP: -34, -204 MN=	"
"	"	"	α , , δ , " , R , ,	H	LWR 12543 1 + 3	12367 40 Fo	-.6 .08 15.5	L	O	08:00:52	28:00	5	0	3	-5" off center RP: 2, -212 4 MIN HTR MN=	"
"	"	"	α , , δ , " , R , ,	H	SWP 16304 1 + 4	12522 34 Fo	-1.0 .08 10.2	L	O	08:32:20	48:00	5	0	1	-5" off center RP= 2, -212 MN=	"
"	HD 165483 22	B9 V 5.67 .11	α 16, 09, 10 δ -28, 17, 18 R 261, 8, 6.6	H	LWR 12544 1 + 5	16150 75 FO	-1.2 .08 15.2	L	O	10:13:24	25:00	7	0	3	+5" off center RP -34, -204 4 MIN. HTR MN=	"
"	"	"	α , , δ , " , R , ,	H	SWP 16305 1 + 6	16110 87 FO	-.4 .08 10.2	L	O	10:53:00	30:00	7	0	1	+5" off-center RP= -34, -204 MN=	"
"	"	"	α , , δ , " , R , ,	H	LWR 12545 1 + 7	15989 83 Fo	-.7 .08 15.2	L	O	11:26:44	20:00	7	0	3	-5 off center RP= 2, -212 4 MIN-HTR MN=	"
"	"	"	α , , δ , " , R , ,	H	SWP 16306 1 + 8	16012 97 Fo	-1.8 .08 10.5	L	O	11:55:23	20:00	5	0	1	-5 off center RP= 2, -212 MN=	"

OBSERVATORY LOG

DATE 10 FEB 82 RAW TAPE 10 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PB608	HD 145483 22	B9 V 5.67 .11	α 16, 09, 10 δ -28, 17, 18 R 261, 8, 6.6	H	LWR 12546 1+9	15713 56 FO	1.8 .08 15.5	L	O	12:27:01	12:00	5	0	3	4 min-HTR warm up MN=	BRUSTON / GRY EC
"	HD 152742 21	B3 V 9.13 .18	α 16, 53, 31 δ -42, 52, 18 R 272, 36, 59.4	L	LWR 12547 1+	1721 10 FO	1.3 .08 15.5	L	O	13:33:17	14:00	8	0	2	MN=	"
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 11 Feb 82 RAW TAPE 11 Feb.

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
KF 516	HD 2151 44	G 2IV 2.9	α 00, 23, 09 δ -77, 32, 00 R 44, 35, 085	H	LWR 12552 1+1	1700 267 U.F	-.9 .08 15.2	L	O	6/42/16	15/0	7	4	2	MN= 529	LINDE W.W
"	"	"	α δ R	H	LWR 12553 1+2	1697 279 U.F	-1.5 .08 15.9	L	O	7/32/27	15/0	7	4	3	MN= 274	LINDE WWI
"	"	"	α δ R	H	LWR 12554 1+3	1623 264 U.F	-2.6 .08 15.9	L	O	8/19/38	15/0	7	4	3	MN= 264	"
"	"	"	α δ R	H	LWR 12555 1+4	" " "	-2.0 .08 16.5	L	O	9/00/07	15/0	7	4	3	MN= 308	"
"	"	"	α δ R	H	LWR 12556 1+5	" " "	-1.9 .08 16.5	L	O	9/41/57	15/0	7	4	3	MN= 299	"
"	"	"	α δ R	H	LWR 12557 1+6	1706 272 U.F	-1.3 .08 16.5	L	O	10/28/18	15/0	7	4	3	MN= 306	"
"	"	"	α δ R	H	LWR 12558 1+7	" " "	-1.2 .08 16.9	L	O	11/08/37	15/0	7	4	3	MN= 336	"
"	"	"	α δ R	H	LWR 12559 1+8	" " "	-.8 .08 16.9	L	O	11/50/29	15/0	7	4	3	MN=	"

OBSERVATORY LOG — DATE 11 Feb 82 — RAW TAPE 11 Feb

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VILSPA	~~E113-I9~~ GSC 08... 0586 84 64	~~13.5~~ 13.9	α 1, 22 21, 48 7.59 δ -59, 03 05, 59 22.7 R 67, 12, 54	L	SWP 16311 1 + 9	64 7 OV.S.	-1.5 .08 11.2	L	O	12/36/00	35/0	1	1	2	WRONG TARGET MN=	Wamsteker W.W.
"	"	"	α , , δ ", ", R , ,	L	LWR 12560 1 + 10	59 9 OV.S.	-1.4 .08 16.9	L	O	13/15/58	33/0	1	1	3	WRONG TARGET. MN=	Wamsteker W.W.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG — DATE 12 Feb 82 — RAW TAPE 12 Feb

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK470	Abell 33 70	14:	α 9, 36, 39 δ -2, 35, 05 R 176, 39, 15	L	SWP 16317 1 + 1	B/0	-.8 .08 11.5	L	O	7/01/01	90/0	1	1	1	MN=	Seaton W.W.
"	"	"	α , , δ ", ", " R , ,	L	LWR 12564 1 + 2	B/0	+1.1 .08 16.5	L	O	8/37/04	22/48	1	1	2	Residual High as 2X present MN=	" "
UK470	M3-6 70	12.7	α 8, 38, 39 δ -32, 11, 54 R 159, 36, 47	L	SWP 16318 1 + 3	295. 10 S.0	+1.6 .08 14.5	L	O	9/45/24	20/0	3		0	MN=	" "
"	"	"	α , , δ ", ", " R , ,	L	LWR 12565 1 + 4	295 6 S.0	1.2 .08 17.2	L	O	10/11/03	20/0	4	0	3	MN=	
"	IC2501 70	10.5	α 9, 37, 21 δ -59, 51, 55 R 179 2, 2	L	SWP 16319 1 + 5	152 1 F.O.	.4 .08 15.9	L	O	11/02/29	25/0	3	6	0	MN=	" "
"	"	"	α , , δ ", ", " R , ,	L	LWR 12566 1 + 6	150 2 F.O.	-.4 .08 17.9	L	O	11/37/42	56/0	5	7	4	MN=	"
"	"	"	α , , δ ", ", " R , ,	L S	SWP 16320 1 + 7	151 4 F.O.	1.1 .08 13.2	L S	O α	12/36/11	15/0	2	5	0	MN=	"
"	"	"	α , , δ ", ", " R , ,	L	LWR 12567 1 + 8	150 F.o	-1.4 .08 18.3			13/16/53	27/0	3	4	3	MN=	" "

OBSERVATORY LOG — DATE 13 FEB 82 — RAW TAPE 13 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B-V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DD 517	HD 2151 44	92 IV 2.78	α 0, 23, 09 δ -77, 32, 9.1 R 42, 28, 62.9	H	SWP 16324 1+		-1.7 .08 12.2	L	O	5:29:45	445:00				exposure started at GSFC. MN=	P. LINDE LB
			α , , δ , , R , ,		1+		-2.4 .08 13.5			12:5[illegible]41	+ 445:00 tot: 938	7		9	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE 14 FEB 82 — RAW TAPE 14 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B-V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 470	NGC 3587 70	P.N.	α 11, 11, 54.9 δ 55, 17, 29 R 330, 41, 22.2	L	LWR 12578 1+1	B.O.	-.72 .08 17.6	L	O	7:34:08	25:00	3	0	3	4 MIN WARM-UP MN=	SEATON LB
"	"	"	α , , δ " , " , " R , ,	L	SWP 16327 1+2	B.O.	-1.2 .08 13.8	L	O	08:10:01	40:00	5	5	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 12579 1+3	B.O.	-.5 .08 17.6	L	O	09:15:11	60:00	4	0	3	4 MIN WARM-UP MN=	"
"	UGC 6826 70	P.N. 10.3	α 19, 43, 27.2 δ 50, 24, 11.0 R 212, 49, 39.4	L	SWP 16328 1+4	512 9/250 F.O.	-1.6 .08 12.5	L	O	11:00:27	1:30	5	5	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 12580 1+5	519 60/270 F.O.	-1.5 .08 17.9	L	O	11:16:10 11:20:46	1:30 2:30	5	0	2	4 MIN WARM-UP MN=	"
"	NGC 6210 70	P.N. 12.5	α 16, 42, 23.7 δ 23, 53, 29 R 252, 27, 46.	L	SWP 16329 1+6	520 4 F.O.	-1.4 .08 12.2	L	O	12:09:55	6:00	4	5	1	MN=	"
"	A36 11.4	P.N 11.4	α 13, 37, 57.8 δ -19, 37, 33 R , ,	L	LWR 12581 1+8	392 2 S.O.	-.42 .08 16.9	L	O	13:38:20	5:00 2:00	5	0	1	MN= 691	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 16330 1+7	420 2/35 S.O.	-.42 .08 11.8	L	O	13:28:04 13:31:56	1:30 3:00	5	0	1	MN= 7 DN	"

OBSERVATORY LOG

DATE D 15 M FEB Y 82 RAW TAPE D 15 M FEB

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PH. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 446	NULL		α ' " δ ' " R ' "		LWP 1488 1+1		.08 9.8					0	0	1	MN=	BLADES JEB
"	0215+015 87	16	α 2 , 15 , 14.1 δ 1 , 31 , 00 R 104 , 44 , 44.7	L	LWP 1490 1+4	B/O	-1.7 .08 9.8	L	O	07:50:35 12:37:53	285 37 TOT 322	3	0	3	MN=	"
"	NULL		α ' " δ ' " R ' "		LWR 12588 1+2		-0.6 .08			12:36:37					MN=	"
"	G1 READ		α ' " δ ' " R ' "		LWP 1489 1+3										MN=	"
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	

OBSERVATORY LOG

DATE 16 FEB 82 RAW TAPE 16 FEB

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PH. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 470	M3-6 70	PN 12.6	α 08 , 38 , 38.7 δ -32 , 11 , 54 R 154 , 24 , 20.8	L	LWR 12595 1+1	285 3 SO	-.5 .08 15.9	L	O	06:21:55	40:00	5	0	3	GDE (-389, 500 1735o) MN=	SEATON Cc.
"	"	"	α " δ " R "	L	SWP 16346 1+2	277 12 SO	-1.4 .08 10.8	L	O	07:09:33	45:00	5	5	1	GDE (-189, 358 164 So) MN=	"
"	A36 70	PN 11.6	α 13 , 37 , 57.8 δ -19 , 37 , 33 R 244 , 3 , 0.5	L	LWR 12596 1+3	99 0 FO	-2.1 .08 15.5	L S		09:00:26 09:09:06	04:00 08:00	5 5	0	2	MN=	"
"	NGC 6026 70	PN 13.0	α 15 , 58 , 07.4 δ -34 , 24 , 16 R 259 , 48 , 43.3	L	SWP 16347 1+4	100 8 SO	-.9 .08 10.5	L	O	09:44:55	25:00	3	0	1	GDE (-1354, -911 2736 Fo) MN=	"
"	"	"	α " δ " R "	L	LWR 12597 1+5	93 19 SO	-1.7 .08 15.5	L	O	10:16:10	30:00	4	0	3	GDE (-1551, -770 1105) MN=	"
"	"	"	α " δ " R "	L	SWP 16348 1+6	95 14 SO	-1.7 .08 10.5	L	O	10:51:43	35:00	3	0	1	GDE (-1355, -914 2716 Fo) MN=	"
"	"	"	α " δ " R "	L	LWR 12598 1+7	93 10 SO	-2.0 .08 15.9	L	O	11:32:17	20:00	4	0	2	GDE (-1551, -770 1155 Fo) MN=	"
	NGC 5882 70	PN 13	α 15 , 13 , 25 δ -45 , 27 , 58 R 253 , 31 , 28.4	L	SWP 16349 1+8	B/O	-1.5 .08 10.8	L	O	12:26:31	30:00	3	4	1	GDE (625, -933 123 MN=	"

OBSERVATORY LOG

DATE 16 Feb 82 RAW TAPE 16 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 470	NGC 5882 70	PN ~13	α 15, 13, 25 δ -45, 27, 58 R 253, 31, 28.4	L	LWR 12599 1+9	B/O	-2.3 .08 15.9	L	O	18:11:53	31:00	5	3	2	GDE(431,-790 103 FO) MN=	SEATON ee
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 17 FEB 82 RAW TAPE 17 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
BW 607	R81 23	B2.5e 10.5 0.05	α 5, 10, 37.3 δ -68, 49, 47.4 R 110, 46, 6.0	H	LWR 12612 1+1	277 3 FO	-.7 .08 15.2	L	O	06:53:39	410:00	7	0	9	GDE(-706,-425 276 SO) Solar activity? MN=	ZICKGRAF 4 MIN HTR W-UP ee
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 18 | 02 | 82 RAW TAPE 18 | 02

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
NP 586	NULL		α , , δ , , R , ,		LWR 12618 1 + 1										to check for residual image MN=	BLADES JCB
"	FES IMAGE NGC 2268		α , , δ , , R , ,		1 + 2			/							MN=	"
"	SN 1982 NGC 2268 56 –	– ~14 –	α 7 , 00 , 48 δ +84 , 27 , 48 R 46 , 44 , 14·3	L	LWR 12619 1 + 3	76 14 5/0	-1·0 0.08 17.2	L	O	07:29:23	120:00	3	0	3	3 min to check the position. 4 MIN - HTR MN=	"
"	"	"	α , , δ , " , R , ,		SWP 16362 1 + 4	74	-2·1 ·08 11·5	L	O	09:39:15	44:00		0	1	MN=	"
"	"	"	α , , δ , " , R , ,		LWR 12620 1 + 5	74 16 5/0	-2·1 ·08 17·6	L	O	10:21:54	175	3	0	6	4 MIN - HTR W-UP MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE 19 | FEB | 82 RAW TAPE 19 | FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_{FES} E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
WE 519	HD 129708 53	F2 II 7.9	α 14h, 42m, 42s.7 δ -61°, 15', 08" R 245°, 58', 55".4	L	SWP 16374 1 + 1	2952 8/159 f.o.	0.2 .08 12.8	L S	O O	05:19:04 06:38:25	10:00 5:00	4 2	0 0	1	MN=	W. EICHENDORF A.H.
"	"	"	α , , δ , " , R , ,	L	LWR 12626 1 + 2	2838 6 f.o.	-0.2 .08 16.1	L	O	06:51:03	20:00	7	0	3	4 min warm up MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 16375 1 + 3	2797 9 f.o.	-1.0 -08 12.5	L	O	07:14:14	16:00	5	0	0	MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 12627 1 + 4	2696 6 f.o.	-1.1 .08 16.9	L	O	07:55:27	10:00	7	0	3	4 min warm-up (3) px. sat. MN=	"
"	HD 159378 53	G0 Ia 8.6	α 17h, 32m, 37s.8 δ -33°, 24', 5" R 271°, 45', 57".5	L	SWP 16376 1 + 5	1533 172/41* f.o	-1.5 .08 12.5	S L	O O	8:42:20 9:01:55	8:00 15:00	1 1	0 0	1	* [illegible] LAP MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 12628 1 + 6	1553 2 f.o.	-1.4 .08 16.9	L	O	9:33:42	20:00	1	0	2	MN= 349	"
"	HD 162714 53	F9 Ib 6.7	α 17h, 49m, 57s.8 δ -06°, 07', 59".4 R 260°, 11', 55".0	L	SWP 16377 1 + 7	1719 23/435 f.o.	-1.8 .08 12.2	L S	O O	10:19:38 10:41:20	15:00 8:00	1 1	0 0	1	MN=	"
"	"	"	α , , δ , " , R , ,		LWR 12629 1 + 8	1158 30 f.o.	-1.0 .08 16.9	L	O	11:04:53	20:00	4	0	2	MN= 302	"

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_{pg} E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
WE 519	HD 187921 53	F9Ib 7.2	α 19h, 49m, 27.8 δ -27°, 19', 53" R 225°, 40', 7.3	L	SWP 16378 1+9	5842 20/275 f.o.	-1.0 .08 12.2	L	0	12:02:58	20:00	1	0	0	MN=	W. EICHENDORF A.H.
"	HD 187053 53	F8Ia 7.2	α 19h, 34m, 25.5 δ 20°, 13', 12" R 238°, 35', 28.4	L	SWP 16379 1+10	5605 15/273 f.o.	-1.3 .08 12.5	L	0	13:16:57	15:00	1	0	0	MN=	"
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

DATE D 20 M FEB Y 82 RAW TAPE D 20 M FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 466	NGC 4151 84	Sey 1.5 12.3	α 12, 08, 00 δ 39, 41, 00 R 309, 48, 13.4	L	LWR 12639 1+1	209 14 s.o.	-.52 .18 15.9	L	0	06:15:09	60:00	4	6	4	4 MIN-HTR W-UP MN= 886	W. SNIJDERS
"	"	"	α " " δ " " " R " "	L	SWP 16390 1+2	202 25 s.o.	-.67 .08 12.2	L	0	09:18:39	50:00	3	5	1	MN=	"
UK 466	HK 132 85	950 16	α 9, 58, 8.2 δ 35, 99, 5 R 4, 53, 56	L	LWR 12640 1+3	B.O.	-2.0 .08 16.5	L	0	09:11:44	270:00	3	6	7	4 MIN-HTR W-UP MN=	"
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 21 FEB 82 RAW TAPE 21 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HG574	HD203532 21	B3 6.3	α 21,25,57.9 δ -82,54,15 R 347,15,8.0	H	SWP 16398 1+1	9215 22 F.O.	-.8 .08 10.2	L	0	06:44:14	70:00	7	0	1	MN=	H. GREWING
"	"	"	α ' " δ " ' " R '	H	LWR 12649 1+2	8998 17 F.O.	-1.9 .08 14.8	L	0	07:59:28	25:00	6	0	3	4 MIN WARM-UP MN=	"
"	"	"	α ' " δ " ' " R '	H	SWP 16399 1+3	8867 24 F.O.	-3.2 .08 10.5	L	0	08:33:56	35:00	5	0	1	MN=	"
"	HD20630 44	G5V 4.82	α 3,16,44.1 δ 3,11,17 R 101,55,27.1	H	LWR 12650 1+4	272 42 F.U.	-1.6 .08 15.2	L	0	09:46:36	53:00	7	6	3	MN= 506	"
"	HD 22484 41	F8V 4.29	α 3,34,19.1 δ 0,14,40 R 100,58,19.2	H	LWR 12651 1+5	438 84 F.U.	-1.0 .08 15.9	L	0	11:17:19	20:00	6	0	2	4 MIN WARM-UP MN= 857	"
"	HD 269546-FS 10-20	OB 12.3	α 5,26,48 δ -68,62,53 R 110,16,4.4	L	SWP 16400 1+6	210 15 S.O.	-1.3 .08 10.5	L	0	12:24:08	25:00	7	0	1	MN=	"
"	"	"	α ' " δ " ' " R '	L	LWR 12652 1+7	214 12 S.O.	-1.3 .08 15.9	L	0	13:00:03	25:00	6	0	3	MN= 394	"
"	"	"	α ' " δ " ' " R '	L	SWP 16401 1+8	212 15 S.O.	-.9 .08 11.2	L	0	13:29:19	15:00	5	6	1	MN=	

OBSERVATORY LOG

DATE 22 FEB 82 RAW TAPE 22 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK466	ESO 45 84	Sey1. 13.2	α 1,21,51.2 δ -59,3,37 R 54,47,39.1	L	SWP 16410 1+1	53 7 OS	-0.40 0.08 10.0	L	0	073015	40:00	3	5	1	Lyα: 232 B= 15 SiII: 76 CIV: 136 Cont 1900 = 68 MN=	SNIJDERS
"	"	"	α ' " δ " ' " R '	L	LWR 12662 1+2	51 7 OS	-0.72 0.08 15.9	L	0	081416	40:00	3	5	4	4 min warm up - Hg I = 193 B = 32 C = 130 (2700 Å) MN=	
"	Q 1148+387 85	Quas. 16.2	α 11,48,53.2 δ 38,42,10.0 R 318,59,49	L	SWP 16411 1+3	b.o.	-2.0 0.08 12.8	L	0	100201	225:00	2	0	2	GDE (752,142) 147 cts (OF)= MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	

OBSERVATORY LOG

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 446	NULL		α , , δ , , R , ,		LWP 1491 1+1										MN=	BLADES JCBlades
"	0215+05 87 -	- N6 -	α 2 , 15 , 14.1 δ 1 , 31 , 00 R , ,	L	LWP 1493 1+4	B/O	-1.5 .08 10.5	L	O	08:07:31 12:56:57	287 18 TOTAL=305	3	0	2	MN=	"
"	NULL		α , , δ , , R , ,		LWR 12665 1+2										MN=	"
"	G1 NULL		α , , δ , , R , ,		LWP 1492 1+3									/	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG DATE 24 FEB 82 RUN DATE 24 02

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UKNVA	HONDA-NOVA-AQUILA-1982 63	- II -	α 19 , 20 , 50.1 δ 2 , 23 , 35 R254 , 36 , 43.9	L	LWR 12675 1+1	231 1 F/O	0.4 .08 15.9	L S	O O	07:32:52 08:01:32	25 10	6 3	0 0	3 3	FOR SMALL AP. AT REF PSN. CNTD = 220 IN CHAN = 18 4 MIN-HTR MN=	SNYDERS JCB
"	"	"	α , , δ , , R , ,	L	SWP 16415 1+2	214 F/O	0.58 .08 10.2	S L	O O	08:16:20 08:55:35	25 40	5 2	5 0	1 1	FESLWR = 214 ex 2 FESLWCR = 206 MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 12676 1+3	193 F/O	-0.98 .08 15.9	L	O	09:41:02	135	2	0	4	FESLFR = 193 4 MIN-HTR MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 16416 1+4	188 F/O	-1.6 .08 10.8	L	O	12:02:12	40.	5	5	1	FES 188 MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 12677 1+5	191 3 F/O	-0.7 .08 16.5	L	O	12:45:08	60	7	0	1	4 MIN-HTR W-UP MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D M Y 25 FEB 82 RAW TAPE D M 25 FEB

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
WK 569	N 3660 80	Barred Galaxy 12.5	α 11 , 21 , 0.47 δ −8 , 23 , 16 R 215 , 41 , 6.1	L	SWP 16422 1 + 1	26 0 OS	−1.7 0.08 9.2	L	0	7:23:31	80:0	0	0	0	GDE(470, −1214) 326 CTS FAST, OVERLAP BKG = 20 MN = 0	FRICKE A.C.
"	PSK 0312−77 85	QSO 15.9	α 3 , 12 , 57.2 δ −77 , 3 , 3.9 R 72 , 54 , 48.7	L	SWP 16423 1 + 2	6:0	−1.45 0.08 9.2	L	0	9:50:33	237:0	3	3	2	GDE (35, 878) 236 CTS OV. SLOW CIV = 112, B = 35 Lyα = 85 CIII = 111 C = 73, MN = / (at ~ 1800Å)	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y 26 FEB 82 RAW TAPE D M 26 FEB

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK418	NGC 4151 84	Seyf. 13	α 12 , 8 , 0.4 δ +39 , 41 , 2 R 319 , 27 , 34	L	LWR 12681 1 + 1	203 15 OS	−1.42 0.08 13.3	L	0	063218	30:0	3	5	3	4 min warm up. MgII: 194 B = 27 C ~ 90 (2800) MN = Ø	M. PENSTON AC
"	"	"	α , , δ " , " , " R , ,	L	SWP 16430 1 + 2	203 20 OS	−1.14 0.08 11.8	L	0	070633	45:0	3	5	1	E = 189 B = 19 counts cmd amp: 190 MN = /	
"	3C 273 .85	QSO 12.8	α 12 , 28 , 33.4 δ +2 , 19 , 42 R 255 , 26 , 34	H	LWR 12682 1 + 3	119 4 OS	−2.5 0.08 15.2	L	0	084631	530:0	3	0	7	READ AT 4 SEC GDE (−1279, −567) 259 CTS FAST MN=	
			α , , δ , , R , ,	L	SWP 16431 1 + 4	/	−2.2 0.08 16.0	L	0	093037	440:0				READ AT 4 SEC SERENDIPITY MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 27 H FEB Y 82 RAW TAPE D 27 H FEB

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 418	3C 273 85	250 12.8	α 12, 26, 33.4 δ +2, 19, 42 R , ,	H	LWR 12686 1+V	122 1 0S	-1.61 0.08 14.5	L	O	070345	603:0	3	0	9	READ AT GSFC GDE(-1284 -556) 295 CTS (FAINT) MN= ✓	PENSTON AC
"	"	"	α , , δ , , R , ,	H	SWP 16440 1+V	✓	-1.61 0.08 12.2	L	O	070726	440:0				READ AT GSFC SERENDIPITY. MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 28 H FEB Y 82 RAW TAPE D 28 H FEB

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK418	NGC3783 84	Sy1 13	α 11, 36, 330 δ -37, 27, 41 R 198, 28, 47.2	H	LWR 12691 1+✓	100 13 0S	-1.6 .08 14.5	L	O	070017	440:0 Total = 7¼ min	2	0	9	READ AT GODDARD GDE(MN=	PENSTON AC
"	"	"	α , , δ , , R , ,	H	SWP 16449 1+✓	✓	-1.6 0.08 10.2	L	O	07:18:35	440:0	0	0	9	PITTO SERENDIPITY MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 1 M MAR Y 82 RAW TAPE D 1 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MG 541	HD202349 20	BOSV 7.4	α 21, 12, 06 δ 37, 34, 26 R 210, 32, 22.9	H	SWP 16454 1+1	4341 8 OF	-1.0 .08 9.2	L	O	03:45:36	17:0	5	0	0	C=220 B=21 MN=	GERBALDI MORGULEFF AC
"	"	"	α , , δ , , R , ,	H	LWR 12695 1+2	4280 18 OF	-1.5 .08 12.2	L	O	040400	13:0	5	0	0	C=210 B=20 4 MIN-HTR MN=	
"	HD149363 .23	BOSIII 7.8	α 16, 31, 48 δ -6, 1, 59 R 261, 47, 15.2	H	SWP 16455 1+3	2816 9 OF	-2.2 0.08 8.5	L	O	045210	60:0	6	0	1	spikes in reducing LW C=249 B=26 ~30-40% saturated at 2λ ~ 1900 MN=	
"	"	"	α , , δ , , R , ,	H	LWR 12696 1+5	2861 10 OF	-1.1 0.08 13.2	L	O	055513	60:0	7	0	2	2λ 2550 ~ 2800 saturated 4 MIN-HTR MN=	
"	"	"	α , , δ , , R , ,	L	SWP 16456 1+4	2787 6 OF	-1.0 0.08 8.5	L	O	070140 070519	0:40 2:0	6	0	1	4 pix sat at ~1300 Å D=23 MN=	
"	"	"	α , , δ , , R , ,	H	LWR 12697 1+6	2830 1 OF	-1.4 0.08 13.8	L	O	074610	30:0	5	0	3	C=208 B=45 4 MIN-HTR MN=	
"	HD214539 32	AØI 7.4	α 22, 37, 18 δ -67, 56, 57 R 357, 29, 36	H	SWP 16457 1+7	4313 10 OF	-1.8	L	O	08:53:53	113:0	3	0	1	C=200 B=27 MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 2 M MAR Y 82 RAW TAPE D 2 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 448	NOVA AQUILAE 1982 63	- 11.7	α 19, 20, 50.14 δ +2, 23, 35.4 R 258, 46, 2.6	L	LWR 12703 1+1	376 9 Slow o/s2	-1.7 .08 13.8	L	O	07:04:02	25	4	4	2	4 MIN-HTR W-UP MN=	JC Blades JCB
"	"	"	α , , δ , , R , ,	L	SWP 16459 60 1+2	95 1 Failover	-0.8 .08 8.5	L	O	07:44:49	60	3	4	1	MN=	
"	"	"	α , , δ , , R , ,	L	LWR 12704 1+3	90.8 F/O	-1.1 .08 14.2	L	O	08:49:03	40	4	5	2	4 MIN-HTR W-UP MN=	
"	"	"	α , , δ , , R , ,	L	SWP 16460 61 4	86 0 P/O	-1.8 .08 9.5	L	O	09 33 12	~~60~~ 75	4	5	1	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 3 M Mar Y 82 RAW TAPE D 3 M Mar

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
RK522	NGC 1360 70	11.2	α 3 , 31 , 12 δ -26, 1 , 0 R 87, 33, 21	H	SWP 16467 1 + 1	135 1 OV.F.	-.9 .54 8.8	L	O	3/56/26	102/0	5	0	1	MN=	HAMANN W.W.
RK522	NGC 3242 70	O 10	α 10 , 22 , 24 δ -18, 23 , 00 R 162, 44 , 50.6	H	LWR 12705 1 + 2	504 120 OV:F	-1.8 .08 12.2	L	O	6/28/16	250/0	3	7	5	4min Warmup MN=	HAMAMM W.W.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 4 M Mar Y 82 RAW TAPE D 4 M Mar

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
LK182	HD 78647 47	K5I 2.1	α 8 , 6 , 9.3 δ -43 13 , 48 R 146, 16 , 8.2	H	SWP 16476 1 + 1	3182 587 4.F	-1.4 .7 8.5	L	O	04/03/10	404/0	[illegible]	4	3	MN=	JORDAN WW.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 5 M Mar Y 82 RAW TAPE D 5 M Mar

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
RK522	Abell 36 70	0 11.5	α 13, 37, 57 δ -19, 37, 33 R 240, 8, 11.6	H	SWP 16478 1+2	379 2 OV.S.	-.7 .3 10.7	L	O	4/00/47	160/0	6	1	1	MN=	HAMANN W.W.
	NULL		α , , δ , , R , ,		LWR 12710 1+1	~~379~~									MN=	HAMANN WW
RK522	Abell 36 70	0 11.5	α 13, 37, 57 δ -19, 37, 33 R 240, 8, 11.6	H	LWR 12711 1+3	394 1 OV.S	-.8 .08 15.2	L	O	06/47/43	236/0	4	1	7	4 MIN-HTR W-UP MN=	HAMANN WW.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 6 M MAR Y 82 RAW TAPE D 6 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK482	HD 284419 58	K2 .10	α 4, 19, 35 δ 19, 25, 12 R 99, 28, 30.2	H	LWR 12724 1+	357 3	-.6 .82 15.2	L	O	03:55:57	409:00	2	5	3	4 MIN-HTR W-UP MN=	JORDAN / P.B.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D M Y: 7 MAR 82 — RAW TAPE D M: 7 MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DR 578	HD 32887 47	K5 II 3.2	α 5 , 3 , 20.6 δ −22 , 26 , 12 R 94 , 46 , 21.1	L	SWP 16485 1 + 1	1267 329 und.	−1.4 1.22 8.2	L	o	01:56:56	120:00	2	4	1	MN=	REIMERS / P.B
	"	"	α " , " , " δ " , " , " R " , " , "	H	LWR 12728 1 + 2	1253 237 und	−1.3 .08 12.5	L	o	06:01:26	35:00	2	5	1	4 MIN-HTR W-UP MN=	" / "
	HD 63032 47	K5 3.6	α 7 , 43 , 29 δ −37 , 51 , 30 R 120 , 38 , 6.7	L	SWP 16486 1 + 3	936 144 und	−1.3 .08 8.5	L	o	07:03:15	~~[illegible]~~ 170:00	9	∅	2	~~BINARY?~~ COMPLETELY SATURATED HOT BINARY? MN=	" / "
	HD 71129 47	K5 2.0	α 8 , 21 , 29 δ −59 , 20 , 30 R 135 , 59 , 45.4	H	SWP 16487 1 + 4	3540 und	−2.4 .08 8.8	L	O	10:35:53	2:00	6	∅	1	MN=	" / "
	"	"	α " , " , " δ " , " , " R " , " , "	H	LWR 12729 1 + 5	" "	−2.4 .08 12.5	L	o	10:45:31	1:00	5	4	1	MN=	" / "
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 8 MAR 82 — RAW TAPE D M: 8 MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 482	HD 62509 (β Gem). 47	K0 III 1.1	α 7 , 42 , 15.6 δ 28 , 8 , 55 R 115 , 33 , 54	H	SWP 16488 1 + 1	7012 1854 UF	−0.7 0.08 11.2	L	O	043331	374:0			3	ζ DE (138, 1026) 20 cts FAST ; OI 88 SiII ~~cc~~ 123, 136 Lyα 142 δ = 57 MN=	BROWN A.C.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 9 MAR 82 — RAW TAPE D M: 9 MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undoy/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
			α , , δ , , R , ,		NO OBSERVING ≤ crash 1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 10 MAR 82 — RAW TAPE D M: 10 MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undoy/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK473	HD 149757 12	O9Ve 2.6	α 16 , 34 , 24 δ −10 , 28 , 3 R 163, 31 , 58.3	H	SWP 16493 1 + 1	2569 360 UF	−0.5 0.08 5.5	L	0	035337	0:23	5	0	1	C = 239 B = 24 MN= /	HOWARTH A -C-
"	A0538-66 59	Xray bin 13	α 5 , 35 , 42 δ −66, 53 , 39 R 95 , 26 ,	L	LWR 12758 1 + 2	45 2 OS	−.42 0.08 11.5	L	O	050011	90:0	3	4	2	MG2 em = 164 B = 37 C = 72 4MIN-MTR MN= 809	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 16494 1 + 3	/	−1.3 0.08 5.5	L	0	064325	120:0	3	4	2	CIII] 161 B = 23 Al III 102 C(1800) = 106 CIV 156 MN=	"
"	NGC 3783 84	Seyfert 13.5	α 11 , 36 , 33 δ −37, 27 , 41 R 186, 18 , 29.2	L	SWP 16495 1 + 4	87 0 OS	−1.4 0.08 6.5	L	0	095501	53:0	3	4	1	CIV 149, NV 152 C = 72 B = 22 MN= /	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 11 M MAR Y 82 RAW TAPE D 11 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undev/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SP573	IC 4776 70	PN 11.2	α 18, 42, 340 δ -33, 23, 52 R 277, 50, 595	L	SWP 16504 1+1	129 0 0F	0.2 0.08 6.1	L	O	043946	30:0	3	5	1	C(III] 191 C(1300)~128 B~20 C(1900)~120 MN=	CASSATELLA
"	"	"	α , , δ - , , R , ,	L	LWR 12764 1+2	517 4 05	-.3 .08 10.8	L	O	051431	30:0	5	5	1	EM LINES λ2470 246 DN 4 MIN-HTR (λ2560 191 DN) λ2780 190 B=28 MN= 851 ← outside spect	
"	"	"	α , , δ - , , R , ,	L	SWP 16505 1+3	124 0F	-.91 .08 6.8	L	O	060605	60:0	5	6	1	C IVem : 184 C(1250)~216 C(1850)~213 B=23 MN= —	
"	"	"	α , , δ , , R , ,	H	LWR 12765 1+4	500 5 0S	-1.6 .08 11.8	L	O	071031	213:0	2	5	4	λ2470 232 DN MgII 148/204 B=60 4 MIN-HTR MN= ϕ	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 12 M May Y 82 RAW TAPE D 12 M Mar

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undev/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK473	HZ Her 59	Bpec 13.6	α 16, 56, 02 δ 35, 25, 05 R 14, 58, 20	L	SWP 16516 1+1	71 3 OV.S	-1.7 .14 7.8	L	O	04/22/40	50/0	2	3	0	MN=	HOWARTH W.W.
UK473	"	"	α , , δ " , " , " R , ,	L	LWR 12774 1+3	apert. to apert.	-.3 .08 11.8	L	O	05/18/01	50/0	3	0	4	4 MIN-HTR W-UP MN=	Howarth W.W.
"	HD 138749 26	Be 4.2	α 15, 30, 55 δ +31, 31, 06 R 282, 48, 40	H	SWP 16517 1+2	592 59 U.N.F.	-.6 .08 7.8	L	O	06/36/16	2/0	6	0	0	MN=	" "
"	HD 53394 26	Be 2.0	α 00, 53, 40 δ 60, 26, 47 R 156, 9, 53	H	SWP 16518 1+4	3644 740 U.N.F.	-.4 .08 7.8	L	O	7/15/15	0/08	5	0	0	MN=	" "
"	A 0538-66 59	Bpec 13.5	α 5, 35, 42 δ -66, 53, 09 R 93, 26, 05	L	LWR 12775 1+5	8/0	-.7 .08 12.5	L	O	8/21/47	60/0	3	3	4	4 MIN-HTR W-UP MN=	" "
"	A 0538-66 "		α , , δ " , " , " R , ,	L	SWP 16519 1+6	8/0	-1.0 .08 7.5	L	O	09/26/01	80/0	3	4	0	after exp. PNT = 5.7 (1,0) MN=	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 13 M Mar Y 82 RAW TAPE D 13 M Mar

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GLOBC	NGC 2019 83	10.9	α 5, 32, 12 δ -70, 12, 00 R 91, 39, 28	L	LWR 12780 1+2	271 45 OV.S.	-.7 .08 12.8	L	O	05/12/28	332/0	4	0	7	guide X=878 Y=-961 code 449 4 MIN-HTR MN=(S.O.)	WAMSTEKER WW.
SAFETY READ	NULL		α , , δ , , R , ,		SWR 1171 1+1							0	0	2	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 14 M Mar Y 82 RAW TAPE D 14 M Mar

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 473	H041335 26	Be 5.2	α 6, 1, 48 δ -6, 42, 19 R 93, 41, 45	H	SWP 16526 1+1	22432 72 OV.F	.6 .08 6.1	L	O	3/51/00	1/50	4	0	0	MN=	Howarth W.W.
"	AKN 120 84	Sepf I 13.6	α 5, 13, 36 δ -0, 12, 00 R 92, 51, 05	L	LWR 12782 1+2	72 5 OV.S	-.2 .08 10.8	L	O	4/23/34	29/0	3	3	3	4 MIN-HTR W-UP MN=	" "
"	AKN120 84	"	α , , δ " " " R , ,	L	SWP 16527 1+3	66 3 OV.S	-1.3 .08 6.1	L	O	4/56/39	50/0	3	4	0	MN=	Howarth WW.
"	H05394 26	Be 2.6	α 0, 53, 40 δ 60, 26, 47 R 157, 55, 50	H	SWP 16528 1+4	3909 842 UN.F	-8 .08 6.5	L	O	6/13/51	00/08	5	0	1	MN=	" "
"	A0538-66 59	14	α 5, 34, 00 δ -66, 53, 40 R 91, 29, 40	L L	LWR 12783 1+5	-B/0	-1.4 .08 10.8	L S	O O	7/09/37 7/09/3	45/0 45/0	5 2	1 1	3 3	4 MIN-HTR W-UP Small spoke in accidental image MN=	" "
"	A0538-66 59	14	α , , δ " " " R , ,	L	SWP 16529 1+6	B/0	-.9 .08 5.8	L	O	7/59/33	60/0	2	3	0	MN=	" "
"	NGC 3783 84	13.5	α 11, 36, 33 δ -37, 27, 41 R 180, 51, 7	L	LWR 12784 1+7	87 16 S.O.	-.6 .08 11.2	L	O	9/38/24	30/0	3	3	3	4 MIN-HTR W-UP MN=	" "
"	NGC 3783 84	Sepf I 13.5	α , , δ " " " R , ,	L	SWP 16530 1+8	89 8 S.O	-1.8 .08 6.1	L	O	10/12/16	35/0	2	3	0	MN=	" "

OBSERVATORY LOG

DATE D 15 M MAR Y 82 RAW TAPE D 15 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 478	HD 269660 23	B2 Ie 11.0	α 5, 31, 24 δ -71, 6, 0 R 89, 26. 44.5	H	LWR 12785 1+1	129 4 FO	-.9 .08 10.5	L	O	04:01:24	190:00	3	0	5	HTR WARM-UP 4 min MN=	MASLEN PP
"	HD 269676 12	O6e 11.7	α 5, 31, 54 δ -71, 6, 0 R 89, 26. 44.5	H	LWR 12786 1+2	379 115 SO:	-.7 .08 128	L	O	07:53:52	170:00	3	0	5	HTR WARM-UP 4 min MN=	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 16 M MAR Y 82 RAW TAPE D 16 M MAR -1 16 MAR -2

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HM 585	HD 125248 36 0.59	A0p 5.9	α 14, 15, 52 δ -18, 29, 8 R 245, 46, 53.5	H	SWP 16540 1+1	13366 26 FO	-2.2 .08 17.5	L	O	04:27:32	30:00	5	0	0	MN=	MAITZEN PP
"	"	"	α , , δ , , R , ,	H	LWR 12784 1+2	13289 32 FO	-1.1 .08 11.8	L	O	04:56:05	17:00	5	0	2	HTR WARM-UP 4 min MN=	" "
"	"	"	α , , δ , , R , ,	H	SWP 16541 1+1	13277 25 FO	-1.5 .08 8.5	L	O	05:26:19	60:00	7	0	1	MOUNTED ARCHIVE TAPE 16 MAR-2 MN=	" "
"	"	"	α , , δ , , R , ,	L	LWR 12795 1+2	13364 59 FO	-1.7 .08 12.5	L	O	06:33:52	00:12	5	0	2	MN= 635	" "
"	"	"	α , , δ , , R , ,	L	SWP 16542 1+3	13502 42 FO	-2.2 .08 8.5	L S	O	07:17:26 07:21:30	00:30 01:15	5 7	0	0	MN=	" "
STAND	HD 148743 31	A5 6.9	α 16, 27, 48 δ -7, 24, 24 R 265, 27, 27.5	L	SWP 16543 1+4	7727 40 FO	-1.8 .08 7.8	L S	O	08:49:59 09:06:04	4:10 3:30	8 2	0	0	TRAILED R=0.16 1 iteration MN=	PATRIARCHI PP
"	"	"	α , , δ , , R , ,	L	LWR 12796 1+6	7768 45 FO	-2.2 .08 11.8	L S	O	09:14:58 09:25:15	2:05 2:00	3 3	0	2	TRAILED R=0.16 1 iteration MN= 477	" "
"	HD 161471 41	F5 3.5	α 17, 44, 5 δ -40, 06, 34 R 268, 51, 51	L	SWP 16544 1+5	1329 250 FU	-1.3 .08 7.2	L	O	10:13:29	16:40	7	0	1	TRAILED R=0.06 3 iteration MN=	" "

OBSERVATORY LOG

DATE D M Y: 17 MAR 82 — RAW TAPE D M: 17 MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
STAND	HD 58946 40	FO 4.5	α 7, 25, 53.7 δ 31, 53, 07 R 77, 26, 40.6	L	SWP 16552 1 + 1	499 49 FU	-1.5 .08 7.2	L S	O	04:33:53 (04:45:06	2:05 0:02	7 1	0 0	1	TRAILED R=0.16 1 ITER NO SPECTRUM IN SA MN=	PATRIARCHI PP
"	" "	" "	α " , " , δ " , " , R " , " ,	L	LWR 12797 1 + 2	526 50 FU	-1.5 .08 11.5	L S	O	04:49:20 04:56:49	0:19 0:25	5 7	0	2	TRAILED R=1.04 1 ITER HTR WARM-UP = 4 mn MN=	" "
"	HD 52266 20	B2 7.2	α 6, 57, 53.9 δ -5, 45, 19 R 93, 37, 33.2	L	SWP 16553 1 + 5	4606 10 FO	-1.6 .08 6.8	L S	O	06:29:18 06:36:0	1:00 1:00	5 8	0	0	TRAILED R=0.33 1 ITER MN=	" "
"	" "	" "	α " , " , δ " , " , R " , " ,	L	LWR 12798 1 + 3	4644 13 FO	-2. .08 12.2	L S	O	06:41:11 47:38 06:48	0:31.75 0:40	5 5	0	2	TRAILED R=0.63 1 ITER HTR WARM-UP 4 mn MN=	" "
"	HD 161471 41	F5 3.5	α 17, 44.05 δ -40, 6, 34 R 268, 36, 38.3	L	LWR 12799 1 + 4	1454 300 FU	-1.2 .08 12.2	L S	O	07:33:18 07:40:18	0:27.4 0:50	7 5	0	2	TRAILED R= 0.73 1 ITER HTR WARM-UP: 4 mn MN=	" "
HM585	HD 125248 36	AOp 5.9	α 14, 15, 52 δ -18, 29, 8 R 245, 34, 32.5	H	LWR 12800 1 + 6	13572 17 FO	-1.3 .08 12.5	L	O	08:32:01	17:00	5	0	3	HTR WARM-UP = 4 mn MN=	MAITZEN AP
"	" "	" "	α " , " , δ " , " , R " , " ,	H	SWP 16554 1 + 7	13558 29 FO	-1.7 .08 6.8	L	O	09:02:10	37:00	7	0	0	MN=	" "
"	" "	" "	α " , " , δ " , " , R " , "	L	LWR 12801 1 + 9	14391 27 FO	-.1 .08 12.2	L	O	10:10:56	0:12	5	0	2	HTR WARM-UP = 4 min MN=	" "

TIME compu[ted] FES from about P10 Fäll

OBSERVATORY LOG

DATE D M Y: 17 MAR 82 — RAW TAPE D M: 17 MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HM585	HD 125248 36	AOp 5.9	α 14, 15, 52 δ -18, 29, 8 R 245, 34, 32.5	L	SWP 16555 1 + 8	13986 37 FO	-.1 .08 7.2	L	O	10:14:37	0:30	5	0	0	MN=	MAITZEN PP
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 18 M MAR Y 82 RAW TAPE D 18 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 457	NULL		α ' " δ ' " R ' "		LWP 1497 1+1										SAFETY READ MN=	BROHAGE PP
4	HD192273 20	B2V 8.3	α 20, 14, 4.5 δ -69, 33, 29 R 304, 19, 30.3	H	LWP 1498 1+2	1127 4 FD	-.7 .08 7.8	L	O	04:41:48	20:00	4	0	2	MN=	4
4	4	2	α ' " δ ' " R ' "	H	SWP 16561 1+3	1116 3 FO	-.7 .08 8.5	L	O	05:06:38	50:00	5	0	1	MN=	4
4	HD124979 12	O8.5 17.7	α 14, 14, 51.2 δ -51, 16, 24 R 222, 57, 18.7	H	SWP 16562 1+4	1358 5 FO	-1.5 .08 9.2	L	O	06:38:53	35:00	3	0	1	MN=	4
4	4	4	α ' " δ ' " R ' "	H	LWP 1499 1+5	1347 4 FO	-1.1 .08 8.2	L	O	07:16:48	18:00	3	0	1	MN=	4
4	HD116538 20	B2IV 17.9	α 13, 22, 8 δ -51, 34, 53 R 308, 24, 12.8	H	SWP 16563 1+6	2479 7 FO	-.8 .08 8.8	L	O	08:01:42	40:00	5	0	1	MN=	4
4	4	4	α ' " δ ' " R ' "	H	LWP 1500 1+8	2547 3 FO	-.4 .08 8.8	L	O	08:45:05	18:00	5	0	1	MN=	4
4	HD119078 10	WC7 10.1	α 13, 39, 34.2 δ -67 09' R ' "	H	SWP 16564 1+9	537 1 FO	.2 .08 8.8	L	O	09:11:08	26:00	3	3	1	MN=	4

OBSERVATORY LOG

DATE D 18 M MAR Y 82 RAW TAPE D 18 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 457	NULL		α ' " δ ' " R ' "		LWR 12802 1+7										SAFETY READ MN=	BROHAGE PP
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	

OBSERVATORY LOG

DATE D 19 M MAR Y 82 RAW TAPE D 19 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTR.	FIL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	HD 93521 12	09Vp 6.89	α 10, 45, 33.6 δ 37, 50, 4.5 R 26, 21, 14.1	L	SWP 16573 1+1	5800 20/343 FO	-1.6 .08 8.2	L S	O	04:34:23 04:39:04	0:05 0:09	5 6	0	0	SENSITIVITY MONITORING MN=	PATRIARCHI PP
"	"	"	α , , , δ , , , R , , ,	L	LWP 1501 1+2	5820 22/323 FO	-1.6 .08 6.8	L S	O	04:42:19 04:47:35	0:02 0:04	4 4	0	2	" MN=	" "
"	"	"	α , , , δ , , , R , , ,	L	LWP 1502 1+3	5871 21 FO	-1. .08 7.2	L	O	05:40:35	0:06	4	0	1	TRAIL R=3.33 ITER = 1 MN=	" "
"	"	"	α , , , δ , , , R , , ,	L	LWP 1503 1+5	5842 15 FO	-1.2 .08 7.8	L	O	06:14:31	0:04	5	0	1	SENS. MONIT MN=	" "
"	NULL		α , , , δ , , , R , , ,		LWR 12805 1+4										NULL IMAGE MN=	" "
"	HD 93521 IR	"	α , , , δ , , , R , , ,	L	LWR 12806 1+6	5896 7/387 FO	-.6 .08 10.2	L S	O	07:09:04 07:12:26	0:03 0:09	4 5	0	2	SENS. MONIT. MN=	" "
"	MUHa 21	B3V 1.84	α 13, 45, 34 δ 49, 33, 44 R 324, 90, 15.5	H	SWP 16574 1+7	4779 1086 FU	-1.7 .08 6.5	L	O	08:25:40	0:06	5	0	0	" MN=	" "
"	"	"	α , , , δ , , , R , , ,	H	LWR 12807 1+8	4884 1110 FU	-1.7 .08 11.5	L	O	08:30:41	0:06	5	0	2	" MN= 565	" "

OBSERVATORY LOG

DATE D 19 M MAR Y 82 RAW TAPE D 19 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTR.	FIL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	BD +33 2642 20	B2IV 10.83	α 15, 50, 1.9 δ 33, 5, 28 R 287, 14, 7.1	L	SWP 16575 1+9	183 1 FO	.0 .08 6.5	L	O	09:52:50	04:00	5	0	0	SENS. MONIT. MN=	PATRIARCHI PP
"	"	"	α , , , δ , , , R , , ,	L	LWR 12808 1+10.	180 1 FO	-.4 .08 11.5	L	O	10:03:36	03:10	5	0	2	" MN= 535	" "
			α , , , δ , , , R , , ,		1+										MN=	
			α , , , δ , , , R , , ,		1+										MN=	
			α , , , δ , , , R , , ,		1+										MN=	
			α , , , δ , , , R , , ,		1+										MN=	
			α , , , δ , , , R , , ,		1+										MN=	
			α , , , δ , , , R , , ,		1+										MN=	

OBSERVATORY LOG

DATE D 20 M MAR Y 82 RAW TAPE D 20 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 457	HD 124979 12	08.5 8.7 0.3	α 14, 14, 51.2 δ -51, 16, 24 R 221, 31, 16.9	H	SWP 16580 1+2	1376 6 FO	-1.4 .08 8.8	L	O	04:10:56	80:00	5	0	1	GDE(-240, 276 448 FO) MN=	G. BROHAGE ec
UKCAL	NULL		α , , δ , , R , ,		LWR 12809 1+1										High read NO 4-MIN. MN=	H
UK 457	HD 119078 10	WC 7 10.1 0.1	α 13, 39, 34.2 δ -67, 08, 58 R 207.44, 53.5	H	SWP 16581 1+1/2	514 1 FO	.08 10.8	L	O	06:16:50	240:00	5	7	2	GDE(-555, 290 885 FO) SECOND RAW TAPE MN=	H
UKCAL	60% CALUV		α , , δ , , R , ,		LWR 12810 1+3		-.5 .08 12.8			06:40:31	01:53				FINAL UV TEMP= 39 MN=	H
H	20% CALUV		α , , δ , , R , ,		LWR 12811 1+2/2		-.4 .08 13.5			07:12:06	00:38				FINAL UV TEMP= = 36 SECOND RAW TAPE MN=	H
H	120% CALUV		α , , δ , , R , ,		LWR 12812 1+4		-1.6 .08 14.2			07:51:23	03:46				FIN. UV TEMP=41 MN=	H
H	60% CALUV		α , , δ , , R , ,		LWR 12813 1+5		-2.0 .08 14.5			8:23:30	01:53				FINAL UV TEMP=39 MN=	H
H	100% TFLOOD		α , , δ , , R , ,		LWR 12814 1+6		-2.2 .08 14.8			08:48:40	00:22				MN=	H

WARNING: RAW TAPE 20 MAR 82/2 CONTAINS SWP 16581 AND LWR 12811

OBSERVATORY LOG

DATE D 20 M MAR Y 82 RAW TAPE D 20 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UKCAL	160% CALUV		α , , δ , , R , ,		LWR 12815 1+7		-1.3 .08 15.5			09:22:10	05:01				FINAL UV TEMP=39 READ ONLY MN=	CACCIARI ec
H	NULL		α , , δ , , R , ,		LWR 12816 1+8										RD PREP MN=	H
H	NULL		α , , δ , , R , ,		LWR 12817 1+9										HI READ (READ ONLY) MN=	H
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 21 M 03 Y 82 RAW TAPE D 21 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot. undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA/SER NOVA AQUIL T-0-0.	NOV. AQU 1982 55	- 12·9	α 19 , 26 , 50·2 δ 2 , 23 , 54·8 R 268 , 59 , 52·4	L	SWP 16590 1+1	45 6 S/O	-0·8 ·08 9·8	L	O	04:02:52	240:00	3	5	2	MN=	BLADES JCB
-1-	-1-	-1-	α , , δ , , R , ,	L	LWR 12826 1+	20 0 F/O	-1·6 ·08 13·8	L	O	08:06:43	127:00 note that set time ≈ 127	3	4	4	77 seconds lost because object taken out aperture. MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 22 M MAR Y 82 RAW TAPE D 22 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot. undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FQ 606	NULL		α , , δ , , R , ,		LWR 12833 1+1										MN=	F. QUERCI ee.
1	TW HOR 50	C4 5·6 2·3	α 3 , 11 , 17 δ -57, 30 , 30 R 51 , 49 , 42·9	L	LWR 12834 1+2	18914 78 FO	-·8 ·08 13·5	L L	O	03;55;17 05;19;51	80:00 200:00	3 5	5 6	6	RP(-2,-212) RP(-30,-204) 4 MIN-HTR MN=	U
U	U	U	α , , δ , 4 , R , ,	L	LWR 12835 1+3	18982 76 FO	-1·7 ·08 13·5	L	O	09:18:28	55:00	3	3	2	RP(-2,-212) +MIN-HTR MN=	U
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 23 M MAR Y 82 RAW TAPE D 23 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	ITES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FQ606	TW HOR 50	C4 5.6 2.3	α 03 , 11 , 17 δ -57, 30, 30 R 50, 45, 54.7	L	LWR 12842 1+1	17952 62 Fo	-1.0 .08 13.2	L	O	03;39;43	80:00	3	4	3	4 DE (200, 518 138 Fo) 4 MIN-HTR MN=	F. QUERCI ec.
"	HD139195 46	K7 5.3	α 15, 34, 5.2 δ 10, 10, 35 R 278, 46, 12.1	L	LWR 12843 1+2	18482 50 Fo	-.9 .08 14.5	L S	O	05:44:42 06:03:09	15:00 4:00	7 5	02		4 DE (857, 396 179 Fo) 4 MIN-HTR MN=	"
"	HD156074 50	C0 7.6	α 17, 11 .56.5 δ 42, 09, 49 R 279, 50, 30.1	L	LWR 12844 1+3	2565 4 Fo	-.3 .08 14.8	L S	O	06:45:42 07:44:24	55:00 35:00	7 4	03	3	4 DE (-1255, -1241, 105 Fo) MN= 512	"
"	HD59643 50	C6 7.8	α 7, 28, 52.6 δ 24, 36, 37 R 80, 26, 56.7	L	LWR 12845 1+4	2212 7 Fo	-2.1 .08 14.8	L	O	09;08;19	25:00	3	4	2	4 MIN-HTR MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 16603 1+5	2222 7 Fo	-.9 .08 8.5	L	O	09;36;56	40:00	2	2	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 24 M MAR Y 82 RAW TAPE D 24 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	ITES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 479	A0538-66 59	X-RAY <14	α 5, 35, 42.8 δ -66, 53, 40 R 81, 39, 31	L	LWR 12850 1+1	B/O	-1.3 .08 13.2	L	O	04:13:34	60:00	3	3	2	4 DE (-889, 385 92 Fo) 4 MIN-HTR MN=	D. STICKLAND ee
"	"	"	α , , δ , 11 , R , ,	L	SWP 16611 1+2	B/O	-2.2 .08 8.8	L	O	05:17:36	60:00	3	3	1	4 DE (-692, +243 128 Fo) MN=	"
"	HD 29094 21	B5 4.3 0.3	α 4, 33, 13.1 δ 41, 9, 51 R 105, 41, 43.9	L	LWR 12851 1+4	468 84 FU	-1.4 .08 13.8	L S		07;04;16 07;08;34	01:15 00:25	7 3	02		4 MIN-HTR MN=	"
"	"	"	α , , δ , 41 , R , ,	L	SWP 16612 1+3	468 72 FU	-.9 .08 9.2	L S		07;11;52 07;16;24	01:30 00:40	5 3	01		MN=	"
"	HD45166 10	9WR 10 0.12	α 06, 23, 30 δ 08, 01, 00 R 88, 24, 35.7	H	SWP 16613 1+5	413 3 Fo	-.8 .08 9.2	L	O	08;03;19	75:00	4	0	1	4 DE (52, -538 350 So) MN=	"
"	"	"	α , , δ , 41 , R , ,	H	LWR 12852 1+6	407 5 Fo	-1.1 .08 13.8	L	O	09;21;46	56:00	3	0	2	4 DE (-145, -393 338 So) MN= 509	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 25 M MAR Y 82 RAW TAPE D 25 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
OBS G10BC	NGC 1783 80	10.9	α 4h, 58m, 42.0s δ -66°, 3', 0" R 72°, 13', 20".	L	SWP 16620 1 + 1	110 35 p.o.	.08 -0.5 9.8	L	O	03:14:07	403:00	2	0	3	MN=	A. HECK A.H.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 26 M MAR Y 82 RAW TAPE D 26 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 479	A0538-66 59	~13	α 5h, 35m, 42.8s δ -66°, 53', 40" R 79°, 41', 55".9	L	SWP 16627 1 + 1	b.o.	-.04 .08 10.2	L	O	03:39:50	80:00	3	3	1	MN=	D. STICKLAND A.H.
"	"	"	α , , δ , " , R , ,	L	LWR 12863 1 + 2	b.o.	-1.3 .08 14.2	L	O	05:03:36	70:00	3	3	4	4 min w.up. MN= 639	"
"	HD 31964 33	A8 I ~3	α 4h, 58m, 22.5s δ +43°, 45', 5" R 102°, 36', 19".1	L	LWR 12864 1 + 3	1492 346/580 f.u.	-1.2 .08 15.2	L S	O O	07:01:33 07:07:17	2:00 0:30	7 6	0 0	2	4 min. w.up. ~30 fx. sat. MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 16628 1 + 4	1499 516/170 f.u.	-1.1 .08 9.8	S L	O O	07:12:52 07:33:03	7:00 28:00	6 7	0 0	1	~5 fx sat MN=	"
"	"	"	α , , δ , " , R , ,	H	LWR 12865 1 + 5	1500 253 f.u.	-1.0 .08 14.8	L	O	07:59:37	50:00	7	0	4	4 min w.up MN=	"
"	"	"	α , , δ , " , R , ,	H	SWP 16629 1 + 6	1496 240 f.u.	-1.3 .08 9.8	L	O	08:53:21	60:00	6	0	1	2 fx sat. MN=	"
"	"	"	α , , δ , " , R , ,	H	LWR 12866 1 + 7	1489 313 f.u.	-0.9 .08 10.2	L	O	09:56:43	8:00	6	0	2	4 min.w.up. ~ fx sat. MN=	"
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 27 M MAR Y 82 RAW TAPE D 27 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 439	BD 60°594 12	09V 9.0	α 2,53,5.9 δ 61,12,54 R 137,25,33.9	H	SWP 16644 1+1	6φ8 1 F.O.	-1.0 .08 9.8	L	O	03:40:33	300:00	5	φ	3	MN=	K. NANDY JB
V	HD 18352 20	B1V 7.0	α 2,55,48.5 δ 61,05,29 R 136,52,37.9	H	LWR 12879 1+2	5950 5 F.O.	-.1 .08 13.5	L	O	09:00:?27	25:00	6	φ	3	4-MIN WARM-UP MN= 761	"
"	"	"	α " δ " R "	L	SWP 16645 1+3	5906 270 F.O.	-1.16 .08 10.2	S	O	09:39:23	2:00	7	0	1	MN=	"
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 28 M MAR Y 82 RAW TAPE D 28 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot. undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 440	~~ROE 130~~ LHCP5 23-67 20	B1 14.7	α 5,23,15.5 δ -67,26,54 R 74,47,56.5	L	LWR 12888 1+2	B-O.	-.80 .08 14.2	L	O	03:47:27	100:00	5	φ	4	4-MIN WARHUP MN= 746	K. NANDY JB
"	NULL	—	α " δ —,—,— R "	L	SWP 16649 1+1	—	—	L	O	—	—			φ	TEST FOR TRACE OF PREVIOUS OVXR (20x); Ly_α and some trace present MN= 2	"
"	HD 34078 12	O9.5V 5.96	α 5,12,59.8 δ 34,18,25 R 98,4,7.2	L	SWP 16650 1+3	11566 600 F.O.	-.52 .08 8.8	S	O	06:10:20	0:30	6	φ	1	MN=	"
"	SHC 0046-73 20	B1 14.45	α 0,46,16.8 δ -73,28,24 R 5,23,58.7	L	SWP 16651 1+4	B.O.	-1.60 .08 9.2	L	O	08:17:06	120:00	4	φ	1	MN=	"
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 29 M MAR Y 82 RAW TAPE D 29 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PH. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
5E 185	NGC 4111 80	Sφ 11.5	α 12 ,04 , 31.8 δ 43 , 20 , 42 R 8 , 5 ,43.9	L	SWP 16659 1+	272 56 S.O.	-1.25 .08 9.8	L	O	03:32:58	404:00	2	φ	3	MN=	R. RAHPA 270
"	NGC 4111		α , , δ , , R , ,		FES FIELD 1+1										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 30 M MAR Y 82 RAW TAPE D 30 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PH. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DR 578	HD187076 49	M2 3.5	α 19 , 45, 9.4 δ 18 , 24 , 34.7 R267, 25, 15.5	H	SWP 16664 1+1	879 135 F.U.	-1.2 .08 10.2	L	O	03:05:15	65:00	7	φ	1	MN=	A. CHE
"	"	"	α , , δ " , " , " R , ,	H	LWR 12903 1+3	872 140 F.U.	-1.6 .08 15.2	L	O	04:43:37	40:00	7	φ	3	4 MIN-HTR MN= 758	"
"	HD192577 47	K3 3.7	α 20 , 12 , 3.3 δ 46 , 35 , 19.9 R 253, 40, 33.8	H	SWP 16665 1+2	733 129 F.U.	-1.9 .08 10.5	L	O	05:21:29	15:00	7	0	1	MN=	"
"	HD 135345 45	G5 5.2	α 15 , 12 , 46.1 δ -41, 18 , 25.2 R 234, 33 , 16.4	H	SWP 16666 1+4	20684 74 F.O.	-6.0 .08 10.5	L	O	06:26:03	15:00	4	0	1	MN=	"
SEYFE	NGC 5548 84	Seyfert 12.9	α 14 , 15 , 43.2 δ 25 , 22 , φ R315, 18 , 19.5	L	LWR 12904 1+5	69 5 S.O.	-1.6 .08 15.2	L	O	07:49:23	60:00	5	φ	3	4 MIN-HTR MN=	L. BIANCHI
"	"	"	α , , δ " , " , " R , ,	L	SWP 16667 1+6	70 8 S.O.	-1.0 .08 10.2	L	O	8:54:56	83:00	3	5	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 31 M MAR Y 82 RAW TAPE D 31 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 494	HD 12311 40	F0 V 2.9	α 1 ,57,11.7 δ -61, 48, 45 R 22, 11 ,52.9	H	LWR 12914 1+1	1631 270 F.U.	-.08 .08 15.9	L	O	02:59:36	4:30	6	ϕ	2	4MIN - WARM UP MN= 823	J. BECKMAN LB
"	HD 15881 44	G2V 4.2	α 0 , 17 , 28 δ -65, 10 , 5.9 R 355 10 , 47.2	H	LWR 12915 1+2	468 62 F.U.	-1.6 .08 15.9	L	O	03:57:02	20:00	7	ϕ	2	" 4MIN-HTR MN=	"
"	HD 21514 44	G2 IV 2.8	α 0 , 23. 9 δ -77, 32, 8 R 356, 50 , 28	H	LWR 12916 1+3	1687 240 F.U.	-2.2 .08 16.2	L	O	05:01:45	8:30	7	0	2	" 4MIN-HTR MN=	"
"	HD190248 44	G8 V 3.6	α 20 , 3 .50.4 δ -66, 18, 30 R 291, 46 , 12.8	H	LWR 12917 1+4	845 136 F.U.	-.95 .08 15.9	L	O	05:32:07	22:00	6	ϕ	3	EXP. TIME IS 25 MIN BUT STAR ACTUALLY IN APERTURE FOR 22 MIN 4MIN-HTR MN=	"
UKCAL	BD+75 325 16	sd O 9.54	α 8 , 4 , 43 δ 75 , 6 , 48 R 67 , 33 , 2.8	L	SWP 16669 1+9	632 2/25 F.O.	-1.7 .08 9.8	L S	O	07:02:02 07:05:02	0:14 0:42	6 5	ϕ ϕ	0	MN= 3	L. BIANCHI LB
"	"	"	α , , δ " , " , " R , ,	L	LWR 12918 1+5	639 5/24 F.O.	-1.7 .08 15.9	L S	O	07:08:34 07:11:32	0:24 1:12	5 6	ϕ ϕ	2	very weak mic. MN= 577	"
"	HD 60753 21	B3 IV 6.69	α 7 , 32 , 8.14 δ -50 , 28, 29 R 98 , 24 , 19.4	L	SWP 16670 1+7	7541 12/397 F.O.	-.56 .08 10.2	L S	O	08:24:58 08:31:36	0:10 0:30	5 5	ϕ ϕ	ϕ	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 12919 1+6	7555 15/477 F.O.	-.56 .08 10.2	L S	O	08:34:57 08:38:38	0:7 0:21	5 6	ϕ 0	2	MN= 393	"

OBSERVATORY LOG

DATE D 31 M MAR Y 82 RAW TAPE D 31 M MAR

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 494	HD141891 40	F2 V 2.8	α 15 , 50 , 43 δ -63 , 16 , 42 R 233, 15 , 92.4	H	LWR 12920 1+8	1693 262 F.U.	-.90 .08 15.5	L	O	09:34:35	2:30	6	ϕ	2	4MIN-HTR MN= 890	J. BECKMAN LB
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 1 M APR Y 82 RAW TAPE D 1 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG TRDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SC140	HD 63032 47	K5 3.6	α 7 ,43 ,28.3 δ -37 , 50 ,46.5 R 96 , 41 , 52.8	L	LWR 12925 1+1	914 155 FU	-1.8 .08 14.8	L	0	02:34:41	15:00	7	0	2	4 MIN-HTR MN=	Dr. CHE ee
"	"	"	α , , δ , " , R , ,	L	SWP 16675 1+2	915 161 FU	-1.0 .08 11.8	L S		02:57:09 03:19:14	15:00 15:00	6 4	0	1	MN=	"
"	HD 71129 47	K0 1.85	α 08 , 21 , 29.4 δ -59 , 20 , 53 R 110 , 18 , 26.8	H	LWR 12926 1+4	4096 937 FU	-.4 .08 15.9	L	0	04:32:53	01:00	5	5	2	4 MIN-HTR MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 16676 1+3	4059 714 FU	-.9 .08 12.2	L	0	04:36:52	01:00	5	5	1	MN=	"
"	HD 135345 45	G5 5.2	α 15 , 12 , 46.1 δ -41 , 18 , 25.2 R 233 , 20 , 23.7	H	SWP 16677 1+5	20352 61 Fo	-2.1 .08 12.2	L	0	05:20:35	30:00	5	0	1	MN=	"
"	HD 109551 47	K5 4.9	α 12 , 32 , 37.7 δ +70 , 17 , 49.7 R 1 , 46 , 30.4	H	LWR 12927 1+6	24063 81 Fo	-.6 .08 15.9	L	0	06:41:32	30:00	3	3	2	Parts missing Played back 4 MIN-HTR MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 16678 1+9	23677 W3 Fo	-.6 .08 11.5	L	0	07:17:29	120:00	7	0	1	MN=	"
"	"	"	α , , δ , V , R , ,	H	LWR 12928 1+8	23743 SB Fo	-.7 .08 15.9	L	0	09:20:38	23:00	3	3	1	4 MIN-HTR MN=	"

OBSERVATORY LOG

DATE D 2 M APR Y 82 RAW TAPE D 2 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG TRDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK472	UV 40%		α , , δ , , R , ,		SWP 16683 1+1		-1.0 .08 10.8			02:21:09	01:00	0	0	3	MN=	GONDHALEKAR ee
"			α 22 , 04 , 33.2 δ -40 , 51 , 37 R 311 , 36 , 2.6	L	SWP 16684 1+	B/O	-1.0 .08 10.5	L	0	03:19:13	122:00	0	0	4	GDE (-402, 935 233 50). MN=	"
"	UV 40%		α , , δ , " , R , ,		SWP 16684 1+2		-1.0 .08 10.8			05:27:28	01:00				MN=	"
"	Q2204-408 85	QSO >14	α 22 , 04 , 33.2 δ -40 , 51 , 37 R 311 , 36 , 2.6	L	SWP 16685 1+	B/O	-1.3 .08 10.8	L	0	05:50:58	440:00 270:00 710:00	1	1	8	GDE (-402, 935 233 50) READ AT GSFC MN=	"
			α , , δ , , R , ,		1+										9 JCB. MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D M Y: 3 APR 82 RAW TAPE D M: 3 APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GLOBC	NGC1466 83	11.6	α 03 , 44 , 48 δ -71 , 49 , 33 R 44 , 56 , 58.1	L	SWP 16686 1 + 1	83 24 50	-.8 .08 10.5	L	0	02:35:43	432:00	2	0	3	GDE (-327, 729, 9185 FO) MN=	C. Cacciari ec.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 4 APR 82 RAW TAPE D M: 4 APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK472	CALUV 40%		α , , δ , , R , ,		SWP 16687 1 + 1		-1.8 .30 10.5			02:02:56	01:00	0	0	3	MN=	GONDHALEKAR ec.
11	Q1442+10 85	QSO >14	α 14 , 42 , 50.4 δ 10 , 11 , 13 R , ,	L	SWP 16688 1 +	B/O	-2.0 .08 11.2	L	0	03:10:15	440:00 Tot = 835	1	1	9	GDE (1191, 393 116 SO) READ AT GSFC MN=	11
11	CALUV 40%		α , , δ , , R , ,		LWR 12943 1 + 2		+.2 .08 15.5			08:56:41	01:15				MN=	11
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 5 M APR Y 82 RAW TAPE D 5 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE ID. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	HD 38666 12	09.5 V 5.2	α 5 ,44 , 8.3 δ -32 , 19 , 27 R 75 , 39 , 22.7	L	LWP 1510 1+1	24960 1050 FO	0.6 .08 6.8	L	O	02:47:51	00:2.32	5	0	2	Trail 8.62 "/mc B=35 C=185 MN=	C. CACCIARI ee.
"	"	"	α , , δ , " , R , ,	H	LWP 1511 1+2	24877 57 FO	-.6 .08 7.8	L	O	03:20:32	00:41	5	0	3	B=42 C=172 MN=	"
"	HD 34816 20	B0.5 IV 4.3	α 5 , 17 , 16.2 δ -13 , 13 , 37.2 R 78 , 9 , 2.5	L	LWP 1512 1+3	636 400 FU	-1.0 .12 8.5	L	O	04:30:35	00:1.11	5	0	2	Trail 18.02 "/mc B=35 C=175 MN=	"
"	"	"	α , , δ , " , R , ,	H	LWP 1513 1+4	605 73 FU	-1.2 .08 8.8	L	O	05:04:35	00:20	5	0	2	B=35 C=155 MN=	"
"	HD 32630 21	B3 V 3.3	α 5 , 3 , 0.2 δ 41 , 10 , 8 R 104 , 35 , 4.8	L	LWP 1514 1+6	1381 " FU	-2.2 .08 9.2	L	O	05:53:33	00:0.82	5	0	2	Trail 24.39 "/mc B=37 C=167 MN=	"
	NULL		α , , δ , , R , ,	L	LWR 12950 1+5							0	0		MN=	"
SA080	HD5394 20	B0 IV 2.6	α 00 , 53 , 40.3 δ 60 , 26 , 47 R 180 , 7 , 33.5	H	SWP 16694 1+7	3739 1100 FU	-.7 .08 8.5	S	O	06:36:37	00:11	5	0	1	B=22 C=175 MN=	GONDHALEKAR ee
"	HD 200120 20	B1 IV 4.7	α 20 , 58 , 07.4 δ 47 , 19 , 30 R 250 , 9 , 2.3	H	LWR 12951 1+8	26842 53 FO	-1.2 .08 12.5	L	O	07:42:25	01:30	5	0	2	B=38 C=200 4 MIN-HTR MN=	"

OBSERVATORY LOG

DATE D 5 M APR Y 82 RAW TAPE D 5 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SA080	HD200120 20	B1 IV 4.7	α 20 , 58 , 7.4 δ 47 , 19 , 30 R 250 , 9 , 2.3	H	SWP 16695 1+9	26467 89 FO	-1.2 .08 8.8	L	O	07:46:50	01:30	5	0	1	B=22 C=200 MN=	GONDHALEKAR ee.
"	"	"	α , , δ , " , R , ,	L	SWP 16696 1+10	26991 70 FO	-.6 .08 9.2	L S	O	08:45:13 08:48:30	00:01 00:02	5 5	0	1	B=21 C=190 C=220 MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 12952 1+11	27026 100 FO	-.6 .08 13.2	L S	O	08:51:33 08:54:35	00:01 00:02	4 5	0	2	B=36 C=125 C=155 4MIN-HTR MN=	"
"	HD 164284 20	B2 V 4.84	α 17 , 57 , 47 δ 4 , 22 , 11 R 277 , 5 , 21.9	H	SWP 16697 1+12	394 140 FU	.6 .08 9.5	S	O	09:30:20	04:30	7	0	1	B=24 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 6 M APR Y 82 RAW TAPE D 6 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 210	SHC0052 -1302 22	B 12.25	α 0,52,20 δ -73,02,08 R358,46,59.8	L	LWR 12963 1+1	49 1 FO	-.7 .08 12.8	L	O	03:50:48	40:00	6	0	3	HTR WARM-UP=4mn MN=	NANDY PP
"	"	"	α , , δ , , R , ,	L	SWP 16698 1+2	200 6 SO	-.6 .08 6.5	L	O	04:55:28	50:00	5	0	0	MN=	" "
"	SMC 0045 -7324 22	B 13.05	α 0,45,05 δ -73,24,56 R356,49,26.2	L	LWR 12964 1+3	113 9 SO	-1.1 .08 12.5	L	O	06:09:22	60:00	5	0	3	HTR WARM-UP=4mn MN=	" "
"	"	"	α , , δ , , R , ,	L	SWP 16699 1+4	90 12 SO	-1.3 .08 13.2	L	O	07:17:58	75:00	4	0	0	MN=	" "
"	SMC0046 -7327 22	B 14.4	α 0,46,24 δ -73,27,20 R357,1,33.2	L	LWR 12965 1+5	BO	-1.5 .08 12.8	L	O	08:51:17	46:00	2	0	2	X=890 Y=239 300 FO MN= 505	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 7 M APR Y 82 RAW TAPE D 7 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 210	SMC 0046 -7327 22	B 14.4	α 0,46,24 δ -73,27,20 R356,19,58.0	L	LWR 12972 1+1	BO	-1.4 .08 14.5	L	O	03:05:15	150:00	3	0	5	HTR WARM-UP=4mn X=890 233 FO Y=269 MN=	NANDY PP
"	SMC 0048 -7344 21	B3 11.05	α 0,48,49 δ -73,44,10 R356,49,46.2	L	SWP 16707 1+2	142 3 FO	-1.4 .08 9.8	L	O	06:16:28	10:00	5	0	0	MN=	" "
"	"	"	α , , δ , , R , ,	L	LWR 12973 1+3	138 3 FO	-1.4 .08 15.9	L	O	06:29:41	8:00	6	0	2	HTR WARM-UP=4mn MN=	" "
"	HD18352 20	B1V 7.0	α 2,55,48.5 δ 61,05,29 R146,9,33.1	H	SWP 16708 1+4	5858 12 FO	-.7 .08 10.2	L	O	08:06:29	100:00	7	0	1	MN=	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 8 M APR Y 82 RAW TAPE D 8 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	NP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 109	Sk-70 36 59	B2 I 13.2 .06	α 5 , 01 , 39 δ -70 , 38 , 09 R 58, 42, 29.5	L	SWP 16718 1+1	B.O. .	-2.6 .08 10.5	L	0	03:25:09	65:00	5	φ	1	MN=	H. PAKULL
"	" "	"	α , , δ " , " , " R , ,	L	LWR 12981 1+2	B.O .	-26 .08 14.8	L	0	04:50:53	55:00	5	φ	3	4 MIN-HTE$_{MN=}$ 837	"
"	LMC x1 59	08 III -14.5	α 5 , 40 . 051 δ -69 , 46 , 4.6 R 67 , 41 , 47.1	L	SWP 16719 1+3	B.O	-.26 .08 10.5	L	0	06:36:52	191:00	4	φ	2	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 9 M APR Y 82 RAW TAPE D 9 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	NP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA/SERC TOO.0.0.	NOVA AQU 82 55	Nova 13	α 19 , 20 , 50.2 δ 2 , 23 , 54.8 R237, 7 , 14.8	L	SWP 16729 1+1	105 (B.O.) S.O.	-1.2 .08 10.8	L	0	02:52:59	180:00	2	4	2	FES PNT at Ref pnt at 02:47 GHT MN=	L. BIANCHI
"	" "	"	α , , δ " , " , " R , ,	L	LWR 12990 1+2	105 4 S.O.	-1.6 .08 15.2	L	0	06:10:04	120:00	3	4	φ	FES PNT at Ref. Point at 06:05 4 MIN-HTE$_{MN=}$	"
"	" "	"	α , , δ " , " , " R , ,	L	SWP 16730 1+3	113 3 S.O.	-1.3 .08 10.5	L	0	08:13:26	94:00	2	3	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 10 M APR Y 82 RAW TAPE D 10 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PH. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI1Ø8	SK-70 36 59	B2 I 13.2 .06	α 5 , 1 , 38.66 δ -70 , 38 , 8.5 R 56, 47, 5.2	L	LWR 12998 1+1	B-O	-.9 .08 15.9	L	O	02:33:46	55:00	5	Ø	4	+MIN-HTR MN=	H. PAKULL
"	"	"	α , , δ " , " , " R , ,	L	SWP 16740 1+2	"	-.5 .08 1Ø.8	L	O	03:33:18	65:00	5	Ø	1	MN=	"
"	LMC X-1 59	08 III 14.5	α 5 , 40 . 5.1 δ -69, 46, 4.6 R 65, 48, 8.3	L	LWR 12999 1+3	B-O.	-1.2 .08 15.9	L	O	05:02:57	135:00	4	Ø	5	4MIN-HTR MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 16741 1+4	"	-1.5 .08 1Ø5	L	O	07:21:59	145:00	3	Ø	2	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 11 M APR Y 82 RAW TAPE D 11 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PH. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GLOBC	NGC 416 83	— 11.4	α 1 , 6 , 38 δ -72, 37, Ø R 357, 47, 2.4	L	SWP 16747 1+1	102 33 S.O.	-.96 .08 11.5	L	O	02:58:32	408:00	3	Ø	4	MN=	L. BIANCHI
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 12 M APR Y 82 RAW TAPE D 12 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(D-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 223	R MON 44	G 12 0.90	α 6, 36, 24.0 δ 8, 46, 56 R 83, 13, 47	L	LWR 13006 1+1	172 3 slow	-1.1 0.08 14.5	L	0	2:31:56	140:00	3	4	2	4 MIN-HTR MN=	WALSH / P.B.
	〃	〃	α , , δ , , R , ,	L	SWP 16149 1+	161 20 slow	-.8 0.08 9.5	L	0	4:54:55	180:00	2	0	1	MN=	〃 / 〃
	NGC 2261 73	G —	α 6, 36, 26 δ 8, 47, 31 R 83, 09, 55	L	LWR 13007 1+	B.O.	-1.1 0.08 1408	L	0	08:06:32	87:00	2	0	2	MN=	〃 / 〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 13 M APR Y 82 RAW TAPE D 13 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(D-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EII 127	HM SGE 57	S:sub. 18.	α 19, 39, 41.4 δ 16, 37, 33 R 277, 11, 14.2	L	SWP 16752 1+1	185 4 FO	-.4 .08 9.2	L	0	03:01:07	15:00	2	6	0	MN=	NUSSBAUMER PP
〃	〃	〃	α 〃	L	LWR 13012 1+2	182 1/24 FO	-.4 .08 13.5	L	0	03:19:19	20:00	3	6	3	HTR WARM-UP = 4 MN	〃
	〃	〃	δ 〃					S		03:53:07	5:00	2	3		MN=	〃
〃	〃	〃	α 〃	L	SWP 16753 1+3	179 1 FO	-.8 .08 9.8	L	0	04:01:12	75:00	3	8	0	LOW = 8X	〃
〃	〃	〃	δ 〃												MN=	〃
〃	〃	〃	α 〃	L	LWR 13013 1+4	175 1 FO	-.9 .08 14.2	L	0	05:18:57	60:00	4	8	3	HTR WARM-UP = 4 MN MED = 8X	〃
〃	〃	〃	δ 〃												MN=	〃
〃	〃	〃	α 〃	H	SWP 16754 1+5	178 3 FO	-.9 .08 10.2	L	0	06:25:57	50:00	1	3	0	XSPREP at 05:40	〃
〃	〃	〃	δ 〃												MN=	〃
〃	〃	〃	α 〃	H	LWR 13014 1+6	175 2 FO	-.9 .08 14.5	L	0	07:33:22	128:00	2	6	4	XSPREP at 06:45 HTR WARM-UP = 4 MN	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE (D M Y): 14 APR 82 — RAW TAPE (D M): 14 APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 167	HBV 475 57	Symb. 13.3	α 20 , 49 , 2.56 δ 35 , 23 , 36.8 R 265 , 28 , 42.7	L	SWP 16760 1 + 1	139 17 SO	-1. .08 11.2	L	O	02:41:17	50:00	1	4	0	MN=	NUSSBAUMER PP
"	" "	" "	α " , " , " δ " , " , " R " , " , "	L	LWR 13020 1 + 2	30 2 FO	-1.5 .08 14.8	L	O	03:43:14	65:00	3	5	3	HTR WARM-UP = 4 m MN=	"
"	" "	" "	α " , " , " δ " , " , " R " , " , "	H	SWP 16761 1 + 3	124 5 SO	-1.5 .08 11.2	L	O	04:51:58	295:00	1	3	2	MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE (D M Y): 15 APR 82 — RAW TAPE (D M): 15 APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE184	NGC 4125 81	Gal. 12.	α 12 , 5 , 42 δ 65 , 27 , 18 R 21 , 25 , 53.8	L	LWR 13025 1 + 1	190 57 SO	-1.5 .08 14.8	L	O	02:42:01	420:00	3	0	8	HTR WARM-UP = 4 m MN=	BERTOLA PP
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 16 M APR Y 82 RAW TAPE D 16 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PIL LOSES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE184	NGC 4889 81	G21. 14	α 12,57,43.6 δ 28,14,45 R 14,26,57	L	LWP 1521 1+3	B.O. (57 10 s.o.)	-2.3 .08 7.5	L	O	03:18:23	368:00	2	4	3	EXP. 340 MIN START AT 03:18:23, +27 MIN AT 09:02:43 MN=	F. BERTOLA HB
—	NULL READ	—	α , , δ , , R , ,	L	LWR 13030 1+1	—	—	L	O	—	—				MN= 592	L. BIANCHI "
	READG1		α , , δ , , R , ,		LWP 1523 1+2										MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 17 M APR Y 82 RAW TAPE D 17 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PIL LOSES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA015	HD 124448 21	B3V 10.0 0.07	α 14,11,46.6 δ -46,03,22 R 194,12,6.8	H	SWP 16782 1+1	382 2 F/O.	-1.6 .08 8.5	L	O	03:07:40	270:00	5	1	2	MN=	HUNGER AWH / LB.
"	"	"	α " " δ " " R " "	"	LWR 13036 1+2	401 4 F/O	-1.3 .08 11.8	L	O	07:41:06	124:00	4	1	3	4 min ht. warm-up. MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 18 M APR Y 82 RAW TAPE D 18 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UX447	3C273 85	12·9	α 12, 26, 33·4 δ 2, 19, 42·0 R 55, 3, 3·2	H	SWP 16786 1+	246 — 3/0	-0·99 0·08 6·8	L	O	2:04:03	Total: 792:00	3	3	9	Exposure started and read down at GSFC MN=	BLADES AWH.
"	BACKGROUND		α , , δ , , R , ,		LWR 13039 1+		-0·99 0·08 12·5		O	2:22:36					Background exposure read down at GSFC MN=	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 19 M Apr Y 82 RAW TAPE D 19 M Apr

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
			α δ EXPOSing at H/O R , ,		1+					exp					MN=	WW
EM23	3C273 85	12·9	α 12, 26, 33·4 δ 2, 19, 42 R 5, 28, 01	H	SWP 16791 1+		·34 9·5	L	O	1:25:10	440:00				MN=	
"	"	"	α , , δ , , R , ,	4	" 1+		-·28 14·4			8/45/57	440:03	3	9		Total exp. time = 825:00 MN=	
			α , , δ EXPOSing at H/O. R , ,		1+										MN=	WW
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 20 M Apr Y 82 RAW TAPE D 20 M Apr

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	BD 33°2642 20	10.8 B2 IV	α 15, 50, 1 δ 33, 5, 28 R 321, 36, 17	L	LWP 1525 1+1	195 2 OV.F	-1.1 .08 7.2	L	O	3/15/48	3/00	5	O	3	MN=	W.W W.W
"	"	"	α , , δ " , " , " R , ,	L	LWP 1526 1+2	195 2 OV.F	-1.1 .08 7.8	L	O	3/46/44	4/00	6	O	3	MN=	" "
"	HD 214680 13	4.9 O8 III	α 22, 37, 01 δ 38, 47, 22 R 250, 24, 25	L	LWP 1527 1+3	375 69 4N.F	-.8 .08 8.2	L	O	4/37/45	0/02	5	O	3	trail rate: 9.90 ITER = 1 MN=	" "
"	"	"	α , , δ " , " , " R , ,	H	LWP 1528 1+4	339 41 4N.F	-1.2 .08 8.5	L	O	5/09/47	0/36	4	O	2	MN=	" "
"	BD 28°4211 16	sdO 10.5	α 21, 48, 56 δ 28, 37, 35 R 265, 44, 30	L L	LWP 1529 1+5	257 4/23 OV.F	-1.4 .08 8.5	L S	O O	6/10/09 6/13/47	0/52 3/00	5 7	O O	3 3	MN=	" "
"	"	"	α , , δ " , " , " R , ,	L	LWP 1530 1+6	263 OV.F	-.9 .08 8.8	L	O	6/48/37	3/01	4	O	3	trail rate 0.11 ITER : 1 MN=	" "
"	η UMa 21	B3 V 1.8	α 13, 45, 34 δ 49, 33, 44 R 1, 5, 44	H	LWP 1531 1+7	4739 1008 4N.F	-.8 .08 8.8	L	O	07/55/03	0/06	6	O	3	MN=	" "
"	HD155763 25	B6 III 3.5	α 17, 8, 38 δ 65, 46, 34 R 311, 19, 26	H	LWP 1532 1+8	1420 198 4M.F	-1.3 .08 8.8	L	O	8/33/0	0/25	4	O	0	Camera NOT PREPPD. MN=	"

OBSERVATORY LOG

DATE D 20 M Apr Y 82 RAW TAPE D 20 M Apr.

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	HD155763 25	B6 III 2.5	α 17, 8, 38 δ 65, 46, 34 R 311, 19, 26	H	LWP 1533 1+9	1420 198 4M.F	-6 .08 8.8	L	O	9/00/27	0/25	4	O	2	MN=	WW WW
PHCAL	NULL		α , , δ , , R , ,		LWR 13049 1+10							0	O	2	MN= 0	WW WW
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 21 M APR Y 82 RAW TAPE D 21 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	NP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SM 233	MR 2251-178 85	14	α 22 , 51 , 25·9 δ -17 , 60 , 54·2 R 300 , 2 , 32·4	H	SWP 16805 1+		-0·8 0·08 7·2	L	0	01:54:36	890:-	1	3	9	Exp. started and read down at GSFC. MN=	BLADES A.W.H.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 22 M Apr Y 82 RAW TAPE D 22 M Apr

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	NP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
T.O.O. VILSP	Nova aquilae 55 1982	13	α 19 , 20 , 50 δ 2 , 23 , 35 R 282 22.47	L	SWP 16811 1+1	140 5 OV.S	+·2 ·08 7·2	L	0	2/44/10	240/0	8 1	5	1	Slew 2 @ X = 369 Y = -410 MN=	WW WW
11	11	4	α , , δ 4, 4, 11 R , ,	L	LWR 13062 1+	124 5 OV.S.	-0·8 ·08 10·5	L	0	6/56/24	167/0	8	0	5	4 min-hte MN=	WW WW
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D M Y: 23 Apr 82 RAW TAPE D M: 23 Apr

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK427	Q0231 −77 85	15.9	α 3 , 12 , 56 δ −77 , 3 , 01 R 17 , 48 , 28	L	SWP 16816 1 + 1	B/0	−1.1 .08 7.5	L	0	2/41/53	425/0	4 3	3 4	3	L_γ α = 160° MN=	Webb W.W.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 24 APR 82 RAW TAPE D M: 24 APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 427	Q1004+13 85	~14	α 10h , 4m , 45.1s δ 13° , 3′ , 38″ R 69° , 2′ , 10.6″	L	SWP 16824 1 + 1	b.o.	−0.5 .08 8.2	L	O	03:36:03	371:00	3	3	3	MN=	J.K. WEBB A.H.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE (D M Y): 25 APR 82 — RAW TAPE (D M): 25 APR.

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot. undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK370/ EM233	Q0537-441 8F	14	α 05ʰ, 37ᵐ, 21.ˢ0 δ -44°, 6′, 45″ R 53°, 24′, 8.″7	L	SWP 16829 1 + 1	b. o.	-.7 .08 7.5	L	O	03:05:50	402100	2	0	3	MN=	SNIJDERS A.H.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE (D M Y): 26 APR 82 — RAW TAPE (D M): 26 APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot. undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EAØ93	HD157451 10	WC9 10.6	α 17, 21, 46.7 δ -43, 26, 52 R 248, 23, 13.7	H	SWP 16835 1 + 1	288 3 OF	-1.8 0.08 8.5	L	O	031835	389	2	4	3	XSPREP CIII 535:120 C III]: 198 BKG: 71 c(1900)~95 MN= ✓	VAN DER HUCHT AC
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 27 M APR Y 81 RAW TAPE D 27 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 370	MK 198 84	Sey 2 14.5	α 12, 06, 43.0 δ +47, 20, 10 R 34, 2, 47.8	L	SWP 16842 1 + 1	6.0.	.12 .08 8.8	L	O	025709	410:0	2	2	4	B = 75 B = 95 MN=	SNIJDERS A.C.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 28 M 4 Y 82 RAW TAPE D 28 M 4.

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA170	ROB 162 16	Sd O 13.25 0.18	α 17, 36, 48 δ -53, 34, 00 R 243, 34, 24.2	L	LWR 13092 1 + 1	125 5 OS	-1.39 0.08 15.2	L	O	030108	8:0	3	0	2	4 min. Wavecy C = 114 B = 27 4 MIN-H.R. MN= 842	DE BOER AC
-	~	-	α , , δ -, -, - R , ,	H	SWP 16846 1 + 2	125 - OS	-1.04 0.08	L	O	031333	393:0	3	0	3	C = 130 (1800 Å) B = 79 MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 29 M APR Y 82 RAW TAPE D 29 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA170	I 33/N6254 16	Sd O 13.4 0.25	α 16, 54, 30 δ -4, 2, 0 R 287, 42, 26	L	LWR 13100 1+1	98 / 05	-1.1 0.08 14.2	L	O	030942	90:0	6	0	3	4 min warm up. B=37 C=255 (3 pixel set) Double op. MN=0	DE BOER A.C.
"	"	"	α , , δ , , , R , ,	L	SWP 16854 1+2	910 / 05	-0.8 0.08 9.2	L	O	044402	60:0	5	0	2	C=178 B=22 MN= /	
"	BS/47 Tuc 16	Sd O 10.26 0.0	α 0, 21, 54 δ -72, 21, 0 R 330, 42, 38.4	L	LWR 13101 1+3	483 / 0F	-0.4 0.08 14.2	L	O	063915	16:0	5	0	2	C=206 B=28 4 MIN-HTR MN= 0	
"	"	"	α , , δ , , , R , ,	L	SWP 16855 1+4	477 1041 0F	-1.61 0.08 10.5	L	O	072934	16:0	4	0	2	C=118 B=20 MN= /	
"	II 83/N6626 16	Sd O 14.0 0.3	α 18, 33, 18 δ -23, 58, 00 R 272, 51, 39	L	LWR 13102 1+5	/	-1.0 0.08 14.2	L	O	090844 093129	20:0 8:0 28:0	0	0	2	No signal MN= 563	
"	"	"	α , , δ , , , R , ,		1+	/									MN=	
"			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 30 M APR Y 82 RAW TAPE D 30 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	NULL	/	α , , δ / , , / R , ,	/	LWP 1534 1+1	/	/	/	/	/	/	/	/	/	READ ONLY. LAST IMAGE ON TO APR LWP 1532 WAS MTH PREP. MN=	CASSATELLA
VILSP	HD143454 57	9.8	α 15, 57, 25 δ 26, 3, 39 R 338, 43, 48	H	LWP 1535 1+14	472 5 0F	-0.34 0.08 8.5	L	O	031859	307:0	3	6		4pixcal C=110 B=71 MN= /	"
PHCAL	NULL /	/	α , , δ / , / , / R , ,		SWP 16863 1+2										HIGH GAIN READ (NULL) 70 MN= —	"
"	60% CALUV	/	α , , δ , , R , ,		SWP 16864 1+3		-0.3 0.08 9.2			035140	1:49				FINAL UVF TEMP = 34 MN= —	"
"	20% CALUV	/	α , , δ , , R , ,		SWP 16865 1+4		-1.4 .08 9.2			044929	0:36				= 33 MN= /	"
"	120% CALUV	/	α , , δ , , R , ,		SWP 16866 1+5		-.5 .08 9.5			053059	3:38				= 41 MN= —	"
"	60% CALUV		α , , δ , , R , ,		SWP 16867 1+6		-.2 .08 9.5			060928	1:49				= 36 MN= /	
"	100% TFLOOD		α , , δ , , R , ,		SWP 16868 1+7		-1.0 0.08 9.5			063730	1:60				MN= /	

OBSERVATORY LOG

DATE D 30 M APR Y 82 RAW TAPE D 30 M APR

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	IES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	NO. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHC QL	160% CALUV	~	α , , δ , , R , ,		SWP 16869 1+8		-1.1 0.08 9.5			07:24:16	4:51				MN=	
"	NULL		α , , δ , , R , ,		SWP 16870 1+9										NULL READ PREP MN=	
"	NULL		α , , δ , , R , ,		SWP 16871 1+10										NULL (READ ONLY) READ HI GAIN MN=	Fa
"	NULL		α , , δ , , R , ,		SWP 16872 1+11										NULL (CAMERA NOT PEEPED) READ LO GAIN MN=	Fa
	NULL		α , , δ , , R , ,		LWR 13113 1+12										MN=	
	NULL		α , , δ , , R , ,		LWP 1535 1+13										G-I - CUTOFF MN=	Fa
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 1 M MAY Y 82 RAW TAPE D 1 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	IES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	NO. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SE168	PKS 0521-36 BY 87	BL Lac ~15.5	α 5h, 21m, 12.5s δ -36°, 26', 29" R 46°, 21', 11.9	L	SWP 16979 1+1	b.o.	-1.8 0.1 9.2	L	0	00:44:21	286:00	2	3	2	MN=	M.H. ULRICH A.M.
SE278	ESO 113 84	Seyfert ~13.5	α 1h, 21m, 51.2s δ -59°, 3', 58" R 342°, 50', 0.5"	L	LWR 13113 1+2	52 3 1.5	-1.7 .08 13.2	L	0	05:10:47	50:00	4	5	3	$Mg\,II$ MN= 736	"
"	NGC 7469 84	Seyfert ~13	α 23h, 0m, 44.5s δ 8°, 36', 18" R 298°, 10', 13.3	L	LWR 13124 1+3	91 7 1.0	-.4 .04 14.8	L	0	07:20:10	23:00	3	3	3	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 2 M MAY Y 82 RAW TAPE D 2 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE ID. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE278	NGC 3516 84	Sy1.5 13	α 11 , 03 , 22.8 δ 72 , 50 , 20 R 50 , 15 , 59.8	L	SWP 16882 1+3	139 7 50	-.1 .08 7.2	L	O	01:20:10	250:00	4	5	2	GDE (151, -1031 153 FO) C= 125 E=165 MN=	M.H. ULRICH ec.
"	NULL IMAGE		α , , δ , , R , ,		LWR 13134 1+1							0	0	2	MN=	"
"	NGC 3516 84	13	α 11 , 03 , 22.8 δ 72 , 50 , 20 R 50 , 15 , 59.8	L	LWR 13135 1+4	135 8 50	-1.1 .08 12.5	L	O	05:46:11 06:29:57	40:00 74:00	4	5	4	GDE(-48, -884 135 FO) 4 MIN-HTR MN=	"
	SAFETY READ		α , , δ , , R , ,		SWR 1172 1+2							0	0	3	TFDC = 20.8 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 3 M MAY Y 82 RAW TAPE D 3 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE ID. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE168	NULL READ		α , , δ , , R , ,		LWR 13147 1+1										MN=	ULRICH ec
"	0521-36 87	BL Lac 15.5	α 5 ; 21 , 12.9 δ -36 , 30 , 16.2 R 44 , 18 , 46.8	L	LWR 13148 1+2	B/O	-.3 .08 13.2	L	O	00:51:41	240:00	3	0	8	GDE(289, -695 275 FO) High. disl. Bkg. residual MN=	4 MIN HTR w-c "
EE278	NGC 7469 84	Sy1.5 12	α 23 , 00 , 44.4 δ 8 , 36 , 18 R 282, 53, 33.6	L	SWP 16886 1+3	91 10 50	-1.3 .08 7.2	L	O	06:27:11	80:00	3	4	1	GDE(-1120, -109 922 FO) MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 4 M MAY Y 82 RAW TAPE D 4 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PH. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE278	NGC3516 84	beyfl. 13.5	α 11 , 03 , 22.8 δ 72 , 50 , 20 R 51 , 55 , 33.3	L	SWP 16888 1+3	149 20 So	-.8 .08 8.5	L	O	01:20:50	260:00	4	5	2	9DE(-266, 280 163 FO) Played back MN=	ULRICH ee
11	11	11	α , , δ , 11 , R , ,	L	LWR 13159 1+2	32 3 FO	-1.7 .08 12.5	L	O	05:44:29	120:00	5	5	4	9DE(-457, 426 168 FO) 4 MIN-HIRE MN=	11
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 5 M MAY Y 82 RAW TAPE D 5 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PH. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 168	PKS0521-36 87	BL Lac 15.5	α 05 , 21 , 13.0 δ -36 , 30 , 17 R 42 , 16 , 11.1	L	LWR 13171 1+1	B/O	-0.2 .08 12.5	L	O	00:39:25	260:00	3	0	7	9DE(315, -674 299 FO) 4 MIN-HIRE MN=	ULRICH ee
EE278	ESO 113 84	Seyfert 13.5	α 01 , 21 , 51.2 δ -59 , 03 , 58 R 339 , 16 , 58	L	SWP 16890 1+2	49 4 SO	-1.5 .08 7.5	L	O	05:35:30	90:00	5	7	1	9DE(561, 998 180 SO) MN=	11
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 6 M MAY Y 82 RAW TAPE D 6 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot. undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM147	RY LUP 58	T Tau 11.5	α 15, 56, 5.0 δ -40, 13, 42 R 216, 6, 14.1	L	SWP 16899 1 + 1	379 5 OS	-1.7	L at	O 5	01 04 02 Kb	403:0	2	3	3	CN: 100 B = 61 CII: 85 B = 51 CTS(end) = 278 OS → at 10 Kb MN = —	LISGAV AC
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 7 M MAY Y 82 RAW TAPE D 7 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot. undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA080	HD 164284 20	B2 Ve 4.8	α 17, 57, 47.0 δ 4, 22, 11 R 295, 46, 3.9	H	SWP 16909 1 + 1	405 128 UF	-1.3 0.08 6.1	S	O	004233	4:30	6	Ø	2	few pix sat. MN = —	DOAZAN THOMAS AC
"	HD 138749 21	B5V 4.8	α , , δ -, -, - R , ,	H	SWP 16910 1 + 2	619 218 UF	-1.8 0.08 6.1	S	O	013655	3:10	5	O	1	C = 235 B = 35 MN = /	
"	HD 200120 26	B1.5Ve 4.7	α 20, 8, 7.4 δ 47, 19, 30 R 280, 30, 18	H	LWR 13184 1 + 3	26283 UF	-1.4 0.08 11.2	L	O	021405	1:30	5	O	1	C = 219 B = 35 4 min warm up MN = 0	
"	"	"	α , , δ -, -, - R , ,	H	SWP 16911 1 + 4	–	-1.4 0.08 7.5	L	O	021844	1:30	5	O	1	C = 219 B = 39 MN = 0	
"	"	"	α , , δ -, -, - R , ,	L	LWR 13185 1 + 5	–	-1.4 0.08 12.2	L	O	031653	0:01	5	O	1	C = 176 B = 26 4 min warm up MN = /	
"	"	"	α , , δ -, -, - R , ,	L	SWP 16912 1 + 6	–	-1.4 0.08 8.8	L	O	032008	0:01	5	O	1	MN = /	
"	HD 5394 20	BØIVe 2.6	α 0, 53, 40.3 δ 60, 26, 47 R 219, 26, 49	H	SWP 16913 1 + 7	3806 1215 UF	-0.8 0.08 8.5	S	O	0/1241 4	0:11	5	O	1	MN = /	
PHCAL	BD+75° 325 16	sd O 9.5	α 8, 4, 43 δ 75, 06, 48 R 47, 27, 28	H	LWR 13186 1 + 8	654 2 OF	-1.87 .08 12.5	L	O	050802	36:0	5	O	1	4 min warm up C = [illegible] MN=	CASSATELLA

OBSERVATORY LOG

DATE D 7 M MAY Y 82 RAW TAPE D 7 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot: undov/f.s	FOCUS DKG THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	BD+75° 325 16	sd O 9.5	α 8, 4, 43 δ 75, 06, 48 R 97, 27, 28	L	SWP 16914 1+9	620 - 0F	-1.9 0.08 7.5	L	O	063920	0:43	5	0	1	TRAILED C=180 B=60 ITER=1 RATE=43.4 MN= /	CASSATELLA
"	"	"	α , , δ -, -, - R , ,	L	LWR 13187 1+10	662 - 0F	-1.0 0.08 12.8	L	O	071143	0:80	5	0	1	TRAIL, RATE=0.25 C=188 B=28 4 MIN-INTR MN= -	"
"	"	"	α , , δ , , R , ,	L	SWP 16915 1+11	660 0F	-0.83 0.08 6.8	L	O	074609	1:07	5	0	1	C=228 B=70 TRAIL, RATE=0.10 ITER=1 EXP TIME=66.666 sec MN= -	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 8 M MAY Y 82 RAW TAPE D 8 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot: undov/f.s	FOCUS DKG THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 137	A 15 70	PN 15.7	α 6, 24, 59.7 δ -25, 20, 57.2 R 55, 45, 42.4	L	SWP 16925 1+1	BO	-1.2 .08 9.2	L	O	00:57:48	80:00	5	0	1	GUIDE X=-231 Y=1255 dc 420 FO MN=	CERRUTI-SOLA
"	~~A 37~~ GSC 00811.02304 ~~70~~ 64	~~PN~~ 12.1	α 8, 51, 36.46 δ 9, 5, 33 R 73, 32, 58.6	L	SWP 16926 1+2	BO	-1.5 .08 9.2	L	O	03:27:54	40:00	1	0	1	GUIDE X=68 Y=-1986 dc 250 SO WRONG MN=STAR	"
"	A 20 70	PN 16.6	α 7, 20, 24.98 δ 1, 51, 23.4 R 72, 21, 57.3	L	SWP 16927 1+3	BO	-1.5 .08 9.2	L	O	05:07:37	143:00	5	0	1	GUIDE X=1450 Y=-900 dc=240 FO MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D M Y: 9 MAY 82 RAW TAPE D M: 9 MAY

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 137	A 51 70	PN 15.4	α 18 , 58 , 6.42 δ −18 , 16 , 39.7 R 278 , 43 , 56.3	L	SWP 16935 1 + 1	BO	−1.5 .08 9.2	L	O	00:51:39	120:00	4	O	1	GUIDE x = −49 y = 360 cts 260 FO MN=	CERRUTI-SOLA PP
"	A 72 70	PN 16.1	α 20 , 47 , 40.16 δ 13 , 22 , 14.6 R 287 , 25 , 50.1	L	SWP 16936 1 + 2	BO	−1.1 .08 9.8	L	O	03:45:26	100:00	5	O	1	GUIDE x = 319 y = 254 cts 1640 FO MN=	"
"	A 39 70	PN 15.6	α 16 , 25 , 32.5 δ 28 , 01 , 10.3 R 333 , 16 , 46.3	L	SWP 16937 1 + 3	BO	−.7 .08 9.5	L	O	06:35:09	70:00	5	O	O	GUIDE x = −826 y = 830 cts 100 SO MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 10 MAY 82 RAW TAPE D M: 10 MAY

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SE104	NGC1846 83	11.3	α 05 , 07 , 36 δ −67 , 32 , 00 R 29 , 13 , 46.2	L	LWR 13213 1 + 1	53 5 SO	−1.4 .08 12.5	L	O	01:40:27	363:00	3	0	7	GDE(671, −1281 373 SO) 4 MW-HTR MN=	CACCIARI CC
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 11 MAY 82 — RAW TAPE D M: 11 MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot. undov/f.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE174	NGC2004 83	GC 9.86	α 5 , 30 , 45 δ -67 , 19 , 0 R 33 , 41 , 58.7	H	LWP 1548 1 + 3	201 37 OF	.08	L	O	005452 070241	365 28 393	3	0	5	C = 180 B = 89 MN = /	CASSATELLA
	NULL		α , , δ , , R , ,		LWR 13223 1 + 1										MN=	
	NULL		α , , δ , , R , ,		LWP 1547 1 + 2										G7-CUTOFF READ MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 12 May 82 — RAW TAPE D M: 12 May

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE258	Q 2308 +098 85	15.	α 23 . 8 , 46 δ 9 , 51 , 57 R 285, 2 , 10	L	SWP 16945 1 + 1	B/0	-.5 .08 9.5	L	O	1/18/53	388/0	3	5	2	MN=	Briggs WW.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 13 MAY 82 — RAW TAPE D M: 13 MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B−V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE258	MK 198 84	~15	α 12h, 06m, 45s.0 δ 47°, 20′, 10″ R 45°, 37′, 55″.5	L	LWR 13234 1 + 1	6.0	-1.3 .08 13.5	L	0	00:34:11	429:00	2	2	9	4 MIN-HTR W-UP MN=	S.A. BRIGGS A.H.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 14 MAY 82 — RAW TAPE D M: 14 MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B−V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE217	NGC 7469 84	Seyfert 13.3	α 23, 0, 44.4 δ 8, 36, 17 R 286, 19, 5.1	L	SWP 16956 1 + 1	85 14 0S	-0.9 0.08 9.8	L	O	005704	45:0	3	3	1	Lyα 93 CIV 98 B=14 CIII] 66 C=59 MN= —	H. COE AC
〃	III Zw 2 84	Seyf 15	α 0, 07, 56.8 δ 10, 41, 49 R 285, 11, 18	L	SWP 16957 1 + 2	6.0	-1.6 0.08 10.2	L	O	023728	120:00	2	3	1	λ1310: 64; B=23 MN= —	
〃	H2252-035	Intermediate 13.2	α 22, 52, 43 δ -03, 26, 40.5 R , ,	L	SWP 16958 1 + 3	67 — 0S	-1.5 0.08 10.5	L	O	053746	33:19	3	3	1	TRAILED RATE 0.03 ITER = 3 B=18 C=56 MN= —	
〃	〃	〃	α , , δ — , — , .. R , ,	L	LWR 13241 1 + 4	70 — 0S	-1.4 0.08 13.8	L	O	073100	13:0	3	0	1	4 min warm up. C=92 B=27 MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 15 M MAY Y 82 RAW TAPE D 15 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. IWI T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE148	TOL 89 88	Galaxy 15	α 13, 58, 24.7 δ -32, 49, 43 R 121, 11, 24.8	L	LWP 1554 1+3	b.0	-1.89 .08 12.5			00 51 04 07 02 17	369 40 409	3	0	3	c = 160 B = 76 MN= /	BERGERON A-C
"	NULL		α , , δ , , R , ,		LWP 1553 1+1										G-1 CUTOFF READ MN=	
"	NULL		α , , δ , , R , ,		LWR 13249 1+2										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 16 M MAY Y 82 RAW TAPE D 16 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. IWI T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE148	TOLOLO 89 88	— 16	α 13, 58, 24.7 δ -32, 49, 43 R 119, 16, 13.1	L	SWP 16971 1+1	B.O.	-1.7 .08 10.2	L	O	00:57:01	120:00	3	Φ	1	MN=	J. BERGERON JB
"	"	"	α " , " , " δ " , " , " R , ,	"	SWP 16972 1+2	"	-1.0 .08 12.5	L	O	03:19:18	267:00	3	Φ	3	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE (D M Y): 17 MAY 82 RAW TAPE (D M): 17 MAY

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_V E(B−V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SM264	HD 143414 11	WN6 10.2	α 15 , 59 , 23 δ −62 , 33 , 19 R 189 , 23 , 45	HI	SWP 16976 1 + 1	373 3 F.O.	−0.55 0.08 7.8	L	O	01:03:10	400:00	4	6	3	XSPREP MN=	A.W.H.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE (D M Y): 18 MAY 82 RAW TAPE (D M): 18 MAY

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_V E(B−V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 228	HD 141527 52	F8 5.8	α 15 , 46 , 30.6 δ 28 , 18 , 34 R 356 , 37 , 26.6	L	LWR 13257 1 + 1	12972 25 F.O.	1.1 .08 10.2	L	O	00:29:50	2:00	5	5	2	4 MIN WARM-UP MN=	N. EVANS LB
"	MV SGR 52	B 13	α 18 , 41 , 32.9 δ −21 , 00 , 24 R 276 , 19 , 14.8	L	LWR 13258 1 + 4	·89 4 S.O.	1.2 .08 10.5	L	O	01:40:56	60:00	4	3	3	4 MIN WARM-UP MN=	"
"	HD 180093 52	9Φ 11.4	α 19 , 13 , 17.0 δ −33 , 36 , 40 R 267 , 47 , 48.1	L	LWR 13259 1 + 2	356 7 S.O.	−.23 .08 12.2	L	O	03:49:53	120:00	3	4	4	4 MIN WARM-UP MN=	"
"	CP −53°5293 52	K 9.4	α 12 , 40 , 26.3 δ −54 , 15 , 16 R 118 , 27 , 12.8	L	LWR 13260 1 + 3	531 3 F.O.	−1.8 .08 13.8	L	O	06:49:10	50:00	4	0	3	EXP. TIME = 53 MIN BUT TARGET OUT OF APER. FOR 3 MIN. 4 MIN-MTR MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 19 M MAY Y 82 RAW TAPE D 19 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SM264	HD 111226 22	B9 6·4 0·1	α 12 , 45 , 13·8 δ −24 , 34 , 46 R88 , 10 , 39·5	H1	SWP 16987 1+1	4204 23 f,0.	−1·4 0·08 9·5	L	0	0:37:56	25:00	5	0	1	MN=	A.W.H.
"	HD 109399 23	B0·5 7·6 0·22	α 12 , 32 , 11·6 δ −72 , 26 , 29 R126 , 37 , 9·3	H	SWP 16988 1+2	3205 20 f,0	−2·1 0·08 9·8	L	0	02:01:24	35:00	5	0	1	MN=	"
"	HD 111558 25'	B8 7·3 0·2	α 12 , 47 , 59·9 δ −69 , 22 , 23 R129 , 15 , 40·2	H	LWR 13268 1+3	4358 5 f,0	−·02 0·08 13·8	L	0	02:51:52	20:00	4	0	2	4 MIN. HTR. WARM UP. MN= 719	"
"	"	"	α , , δ , , R , ,	H	SWP 16989 1+4	4303 6 f,0	−0·11 0·08 9·8	L	0	03:26:48	60:00	4	0	1	MN=	"
"	HD 116538 20	B2 7·9 0·2	α 13 , 22 , 8·0 δ −51 , 34 , 53 R126 , 42 , 17·3	H	LWR 13269 1+6	2519 6 f,0.	−1·1 0·08 14·2	L	0	04:48:22	28:00	5	0	2	4 MIN. HTR. WARM UP. MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 16990 1+7	2521 6 f,0	−1·6 0·08 9·8	L	0	05:24:16	60:00	6	0	1	MN=	"
"	HD 124979 12	08·5 7·7 0·3	α 14 , 14 , 51·2 δ −51 , 16 , 24 R143 , 53 , 22·9	H	LWR 13270 1+8	1350 7 f,0	−1·0 0·08 14·2	L	0	06:41:04	60:00	4	0	3	4 MIN. HTR. WARM UP MN=	"
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 20 MAY 82 RAW TAPE 20 MAY

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 207	NGC 2903 80	Sbc ~10	α 9 , 29 , 20.33 δ 21 , 43 , 22.0 R 72 , 43 , 49.1	L	SWP 16999 1+2	5.0	−1.5 .08 7.8	L	0	01:06:31	180:00	3	φ	2	HAILBOX Medicals YEAR 81 (DISK-ONLY SYSTEM) MN=	E. NINKOV
"	"	"	α , , δ " , " , " R , ,	L	LWR 13279 1+1	"	−2.0 .08 12.5	L	0	04:13:35	180:00	3	φ	6	(4 MIN WARM-UP) " MN= 836	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+									1	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VILSP	NOVA AQL 82 55	Nova 12.8	α 19 , 20 , 50.2 δ 2 , 23 , 35.3 R 285 , 51 , 20.9	L	SWP 17008 1 + 1	129 7 SO	-.2 .08 9.2	L	O	01:16:55	240:00	3	5	2	MN=	PATRIARCHI PP
"	" "	" "	α , " , δ , " , R , " ,	L	LWR 13286 1 + 3	138 9 SO	-.0 .08 13.5	L	O	05:21:16	142:00	5	0	4	4 min HTR warm-up MN= 732	" "
	NULL		α , , δ , , R , ,		SWP 17009 1 + 2										NULL MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 22 M MAY Y 82 RAW TAPE D 22 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ES 058	BOWELL COMET 06	Comet 12.5	α 18 , 19 , 33.8 δ -22 , 17 , 2.1 R 273 , 31 , 33.3	L	LWR 13291 1 + 1	83 6 SO	-.6 .08 14.5	L	O	01:48:28	346:00	2	2	8	HTR warm-up • 4m MN=	FESTOU PP
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 23 M MAY Y 82 RAW TAPE D 23 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref: p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 027	NGC 6884 170	PN 11.8	α 20, 8, 49.1 δ 46, 18, 44 R 303, 6, 35.5	L	SWP 17018 1+1	338 18 80	-.7 .08 6.1	L	O	00:44:57	180:00	3	5	1	MN= .	GATHIER PP
" "	NGC 6567 70	PN 11.5	α 18, 10, 48 δ -19, 5, 13 R 278, 9, 0.8	L	SWP 17019 1+2	422 94 80	-2.1 .08 7.2	L	O	04:40:53	186:00	6	8	1	MN=	4 4
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 24 M May Y 82 RAW TAPE D 24 M May

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref: p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 027	NGC 6563	13.1 70	α 18, 8, 45 δ -33, 52, 46 R 253, 17, 21	L	SWP 17029 1+2	80 50 5.0V.	-.1 .08 6.8	L	O	00/43/48	120/0	3	4	1	MN= .	GATHIER W.W.
"	"	" 71	α , , δ " , " , " R , ,	L	LWR 13306 1+1	Sere ndipi ty.	-.6 .08 12.8	L	O	01/07/20	60/0	1	1	4	No image. 4 MIN HTR W-UP MN= 821	GATHIER WW
"	NGC 6567	11.5 70	α 18, 10, 48 δ -19, 05, 13 R 278, 24, 58	L	LWR 13307 1+3	109 20 OV.F	-1.0 .08 12.8	L	O	03/18/06	60/0	3	4	4	4 MIN HTR W-UP MN=	"
"	NGC 6445	13.0 70	α 17, 46, 17 δ -19, 59, 41 R 276, 3, 34	L	SWP 17030 1+5	B/U	.8 .08 7.5	L	O	04/46/28	180/0	1	2	1	MN=	"
"	"	71	α , , δ " , " , " R , ,	L	LWR 13308 1+4	Sere ndipity	.3 .08 12.8	L	O	05/15/51	120	1	1	3	MN=	"
			α , , δ , , R , ,		1+										MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 25 M May Y 82 RAW TAPE D 25 M May

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 052.	HD 197692 41	F5 4.3	α 20, 43, 8.3 δ −25, 27. 7 R 281, 40, 40	L	SWP 17033 1+1	515 79 F.4.	−1.3 .08 12.8	L	0	00/45/58	2/30	5	0	0	MN=	SAXMER WW.
"	HD 22001 41	F5V 4.7	α 3, 28, 30 δ −63, 6, 48 R 351, 38, 35	L	SWP 17034 1+2	27194 102 F.O.	−1.9 .08 12.5	L	0	01/33/08	2/20	5	0	0	MN=	" "
"	HD 196378 41	5.1 F8V	α 20, 35, 55 δ −60, 43, 5 R 261, 16, 15	L	SWP 17035 1+3	21900 65 F.O.	−1.8 .08 11.8	L	0	02/16/58	2/20	4	0	0	MN=	" "
"	HD 203608 41	F8V 4.2	α 21, 22, 20 δ −65, 35, 39 R 269 27, 8	L	SWP 17036 1+4	473 59 F.4	−.9 .08 11.2	L	0	03/03/48	4/00	6	0	0	MN=	" "
"	HD 213845 41	F3V 5.2	α 22, 31, 58 δ −20, 57, 54 R 291, 48, 39	L	SWP 17037 1+5	20316 51 F.O.	−1.2 .08 10.5	L	0	03/47/20	8/30	5	0	0	MN=	" "
"	HD 7570 41	F8V 4.9	α 1, 12, 56 δ −45, 47, 53 R , ,	L	SWP 17038 1+6	23736 80 F.O	−1.5 .08 10.2	L	0	04/37/20	80/0	7	0	1	MN=	" "
"	HD 4247 40	F2V 5.2	α 0, 42, 16 δ −22, 16, 51 R 307, 25, 16	L	SWP 17039 1+7		−1.1 .08 9.9	L	0	06/51/16	2/00	5	0	0	MN=	" "
"	HD 33262 41	F8V 4.7	α 5, 4, 39 δ −57, 22, 26 R 14, 8, 5	L	SWP 17040 1+8	26572 100 F.O.	−3.1 .08 9.8	L	0	07/43/29	9/00	5	0	0	MN=	" "

Σ9 DOWN ALL TIME

OBSERVATORY LOG

DATE D 26 M MAY Y 82 RAW TAPE D 26 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 068			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE (D M Y): 27 MAY 82 — RAW TAPE (D M): 27 MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA068	NGC 6752- -2167	B3 15.76	α 19 , 05 , 42.3 δ -60 , 02 , 25 R 232 , 33 , 32.6	L	SWP 17053 1 + 1	8.0.	-.7 0.08 9.5	L	0	00:55:00	413:00	3	ø	3	MN= .	CA101 / P.B.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE (D M Y): 28 May 82 — RAW TAPE (D M): 28 May

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ES058	Comet Bowell 6	13·1	α 18 , 18 , 33 δ -27 19 , 00 R 273 47 , 43	L	LWR 13326 1 +	102 8 5·0.	-1·9 ·08 15·9	L	0	01/46/43	326/0	2	1	8	4 MIN HTR W-UP MN= . 0	Festou W.W.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 29 M May Y 82 RAW TAPE D 29 M May

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC232	HD 209750	2·9	α , , δ , , R , ,	H	SWP 17060 1+	N/A	-1·0 .08 9·8	L	0	23/42/09 and 07/03/08	~~40~~ 780	7	7	9	MN=	Jordan W.W.
			α , , δ , H/0 R , ,		SFC → V 1+		IL	J	PA		exposing				MN=	
			α , , δ , H/0 R , ,	V	ILJPA → δ 1+		SFC				exposing				MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 30 M MAY Y 82 RAW TAPE D 30 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SA 254	HE 2-108 70	PN 13	α 14 , 14 , 47.5 δ -51 , 56 , 56 R 128 , 11 , 11.1	L	SWP 17067 1+1	172 6 SO	-.5 .08 9.8	L	0	00:41:50	45:00	4	3	1	qDE(719, -1416 114 FO) C=110 B=23 MN=	FLOWER ec
"	SWST 1 70	PN 11	α 18 , 12 , 58 δ -30 , 53 , 13 R 255 , 38 , 16.5	H	SWP 17068 1+3	145 21 FO	-1.7 .08 9.8	L	0	02:39:49	130:00	3	6	1	qDE(382, 175 353 80) B=29 C=40 E=6 px sat MN=	"
"	K 648 70	PN <14	α 21 , 27 , 34 δ +11 , 57 , 14 R 294.25 , 52.7	L	SWP 17069 1+2	B/0	-1.0 .08 9.8	4	0	06:04:00	60:00	4	6	1	B=24 C=100 3-4 px sat at 1909 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 31 M MAY Y 82 RAW TAPE D 31 M MAY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SA254	HB 12 70	12.0	α 23, 23, 57 δ 57, 54, 24 R 270, 29, 48.7	L	SWP 17075 1+1	305 3 low	-1.7 0.98 6.8	L	O	00:43:45	150:00	2	3	1	MN=	FLOWER P.B.
	〃	〃	α , , δ , , R , ,	L	LWR 13359 1+2	297 3 low.	-.7 0.08 11.8	L	O	03:18:15	120:00	3	3	1	4 MIN - HTR W-UP MN=	〃 / L
	NGC 7662 70	10.0	α 23, 25, 29 δ 42, 15, 36 R 278, 5, 29.5	L	SWP 17076 1+3	432 84	-.7 0.08 7.8	L	O	05:36:40	15:00	5	7	0	MN=	〃 / 〃
	K 648 70	13.5	α 21, 27, 34.4 δ 11, 57, 14 R , ,	L	LWR 13360 1+	8.0.	-1.1 0.08 12.8	L	O	06:39:35	60:00	4	3	1	4 MIN HTR W-UP MN=	〃 / 〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 1 M Jun Y 82 RAW TAPE D 1 M Jun - 1

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE207	NGC2903 80	12.0	α 9, 29, 203 δ 21, 43, 22.0 R 74, 9, 17.7	L	SWP 17085 1+1	154 32 S.O.	-.3 .08 9.2	L	O	00/45/58	195/0	3	1	2	star D: X 1061 Y-1130 star C X+1126 $Y_{MN=}$ 37	W.W. W.W.
PHCAL	BD33° 2642 20	10.8	α 15, 50, 01 δ 33, 5, 28 R 12, 3, 32	L L	LWR 13370 1+3	180/2 F.O 177/9	-1.3 .08 13.5	L S.	O O	04/53/33 05/00/37	3/10 9/30	5		3 3	4 MIN-HTR MN=	W.W. W.W.
〃	〃	〃	α , , δ 〃 , 〃 , 〃 R , ,	L L	SWP 17086 1+2	178/7 F/O.	-1.3 .08 10.2	S L	O O	05/15/12 5/31/13	12/0 4/0	5 4	D D	0 0	MN=	WW WW
PHCAL	BD 28°4211 16	10.5	α 21, 48.56 δ 28, 37, 25 R 294, 26, 13	L L	SWP 17087 1+4	247 1 F.O	.3 .08 9.8	L S	O O	6/48/50 6/52/51	0/26 1/20	5 6	0 0	0 0	MN=	WW WW
〃	〃	〃	α , , δ 〃 , 〃 , 〃 R , ,	L L	LWR 13371 1+5	272 0 F.O	-.2 .08 14.2	L	O	6/57/38	1100	4	0	2	MN= 126	WW WW
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE: D 1 M JUN Y 82 — RAW TAPE: D 1 M JUN -2

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA080	HD 5344 26	BΦe 2.6	α 0, 53, 40.3 δ 60, 26, 47 R 250, 32, 1	H	SWP 17093 1+1	3511 430 UF	-0.6 0.08 9.8	L	O	224703	0:6	5	0	1	XSPREP 6 SECONDS MN=	BARR AC
〃	HD200120 2C	B1e 4.7	α 20, 58, 7.4 δ 47, 19, 30 R , ,	H	SWP 17094 1+2	26386 · OF	-1.2 0.08 9.8	L	O	233222	1:10	5	0	1	MN=	〃
〃	〃	〃	α , , δ -, -, - R , ,	L	SWP 17095 1+3	27146 - OF	-0.8 0.08 9.8	L	O	003036	0:1	5	0	1	MN=	〃
〃			α , , δ , , R , ,	L	LWR 13379 1+4		-0.8 0.08 14.2	L	O	003350	0:1	4	0	1	XSPREP BKG=49 4MIN-HTR MN=	〃
〃	HD138789 26	B5e 4.2	α 15, 30, 44.7 δ +31, 31, 36 R 18, 26, 50	H	SWP 17096 1+5	613 - UF	-0.8 0.08 10.2	L	O	010832	2:10	5	0	1	MN=	〃
EE037	NGC 5236 80	Galaxy Sc 8.56	α 13, 34, 17.0 δ -29, 36, 48 R 89, 28, 3.4	L	LWR 13380 1+6	122 25 DF	0.26 0.08 14.5	L	O	023620	15:0	3	0	1	C=118 B=28 4MIN-HTR MN= ✓	PALUMBO AC
〃	—	—	α , , δ , -, - R , ,	L	SWP 17097 1+6	〃	1.7 0.08 10.8	L	O	025523	172:0	7	0	1	overexp. ... λ≥1700 CIV region 207DN 2pix sat. around 1300Å B=40 MN= —	〃
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE: D 2 M JUN Y 82 — RAW TAPE: D 2 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE176	NGC2004 83	G.C.	α 5, 30, 44 δ -67, 19, 0 R 11, 40, 58	L	LWR 13390 1+1	200 36 OF	-1.2 0.08 13.5	L	O	22 33 15	13:0	5	0	1	C=185 (λ<2000) B=29 4MIN-HTR MN= ✓	CASSATELLA AC
EC175	FG SGE 40	F 9.6	α 20, 9, 43 δ 20, 10, 54 R 306, 51, 25	L	LWR 13391 1+2	591 1 OF	-2.3 0.08 13.5	L	O	233708	160:0	5	0	1	spike a 3160Å C=232 B=49 4MIN-HTR MN= ✓	〃
〃	T CrB 57	M+pec 10	α 15, 57, 24 δ 26, 3, 39 R 13, 18, 50.2	L	SWP 17104 1+3	372 4 OF	-1.1 0.08 7.5	L	O	030516	55:0	4	5	1	GDE(-69, 566) 103(S) Si III 232 C III 223 N V 198 (C II) C IV 233 Si IV 118 B=17 MN= 0	〃
〃	〃	—	α , , δ , -, - R , ,	L	LWR 13392 1+4	368 2 OF	-2.0 0.08 13.8	L	O	04 04 34	40:0	5	6	1	... λ 2410 C=192 B=31 Mg II : 3pix sat MN= 515	〃
〃	AG DRA 57	pec 8.5	α 16, 1, 24 δ 66, 56, 30 R 9, 14, 34.6	L	SWP 17105 1+5	645 40 OF	-.04 0.08 8.2	L	O	051040	10:0	4	6	1	HeII 20 pix sat CIV 4 pix sat B=22 C=161 (1800Å) ... MN= ~~284~~	〃
〃	〃	〃	α , , δ , 〃, R , ,	L	LWR 13393 1+6	/	0.08 13.8	L	O	053927	5:0	5	6	1	C=189. B=25 MN= 284	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 3 M JUN Y 82 RAW TAPE D 3 M JUN

+56 08 16.9

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SE521	Q0957+56 85	17.5	α 9, 57, 57.3 δ 56, 08, 16.9 R 86, 26, 22.1	L	LWP 1565 1+2	B.D.	1.5 0.08 8.8	L	0	23:37:15	321:00	2	3	3	MN=	GONDHALEKAR / P.B.
	NULL READ		α , , δ , , R , ,		LWR 13400 1+1	—	-1.5 0.08 9.9			—	—				HIGH RESIDUAL FROM PREVIOUS ~~EXP~~. OVEREXP MN=	G / L
	SAO 27406	B3 9.4	α 9, 48, 31 δ 55, 57, 38 R 88, 28, 43.3	L	LWP 1566 1+3	386 0 1.	-1.6 0.08 9.8	L	0	05:50:13	1:30	4	0	1	MN=	L / L
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 4 M Jun Y 82 RAW TAPE D 4 M Jun

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 0081	HD 127821 41	F4V 6.1	α 14, 29, 35 δ 63, 24, 22 R 31, 45, 34	H	LWR 13413 1+1	10648 21 F.O	-1.0 .08 12.8	L	0	22/44/59	100/0	7	3	5	4 MIN-HIP MN=749	ORAMIE WW.
"	"	"	α , , δ " , " , " R , ,	L	SWP 17127 1+2	10652 20 F.O	-.7 .08 8.2	L	0	00/28/51	215/0	7	4	2	MN=	" "
"	HD 99967 47	K3 III 6.6	α 11, 27, 42 δ 46, 55, 59 R 67, 44, 51	L L	LWR 13414 1+3	7954 17 F.0.	-2.0 .08 12.5	L S	0 0	04/27/44 04/42/59	12/0 5/0	4 3		2 2	4 MIN HIP MN=	" "
"	HD 108283 48	F4V 4.9	α 12, 23, 54 δ 27, 32, 42 R 58, 57, 57	H	LWR 13415 1+4	26456 104 F.O.	-.8 .08 13.2	L	0	05/38/54	50/0	3		2	MN=322	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 5 M Jun Y 82 RAW TAPE D 5 M Jun

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	NR. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 081A	HD 125111 40	F2IV 6.4	α 14, 14, 22 δ 39, 58, 32 R 38, 2, 51	L	SWP 17135 1+1	8939 23 F.O.	-1.0 .08 12.5	L	O	23/20/15	110/0	7	2	1	MN=	ORAMJE WW.
"	HD 111456 41	F6V 5.9	α 12, 46, 29 δ 60, 35, 32 R 54, 56, 19	H	LWR 13424 1+2	13037 30 F.O.	-1.8 .08 14.5	L	O	1/31/16	50/0	6	3	4	4 MIN-HTR MN=	" "
"	"	"	α " " " δ " " " R " "	L	SWP 17136 1+2	12970 46 F.O	-1.6 .10 10.8	L	O	2/24/49	125/0	7	3	1	MN=	" "
"	HD 87999 41	F4IV 4.8	α 1, 24, 39 δ 45, 8, 57 R 259, 53, 27	H	LWR 13425 1+4	25889 72 F.O.	-1.0 .1 13.8	L	O	5/12/53	25/0	6	3	3	4 MIN-HTR MN=	" "
			α " " " δ " " " R " "		1+										MN=	
			α " " " δ " " " R " "		1+										MN=	
			α " " " δ " " " R " "		1+										MN=	
			α " " " δ " " " R " "		1+										MN=	

OBSERVATORY LOG

DATE D 6 M JUN Y 82 RAW TAPE D 6 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	NR. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE231 NGT	~~HKN 586~~ 84 HKN 486	Sey1 I 14.2	α 15, 35, 20.8 δ 54, 43, 21 R 19, 2, 26.0	L	LWR 13432 1+1	32 0 05	-1.0 0.08 13.5	L	O	225527	50/0	3	0	1	C=84 B=35 RP(4, -212) NOT NKN 486 4MIN-HTR MN= 805	GASKELL A.C
—	~~JCB~~	—	α " " " δ " " " R " "	L	SWP 17140 1+2	29 0 05	-1.0 0.08 8.5	L	O	235607	60:0	2	0	1	RP(-16, -208) C=40 B=28 (2000Å) MN=	"
			α " " " δ " " " R " "	L	LWR 13433 1+3	/	-1.1 0.08 13.8	L	O	010034	130:0	4	0	2	RP(4, -212) C=154 B=50 4MIN-HTR MN=	
—	—	—	α " " " δ " " " R " "	L	SWP 17141 1+4	/		L	O	040550	100:0	2	0	1	C=43 B=26 (1900Å) MN=	
			α " " " δ " " " R " "		1+										MN=	
			α " " " δ " " " R " "		1+										MN=	
			α " " " δ " " " R " "		1+										MN=	
			α " " " δ " " " R " "		1+										MN=	

OBSERVATORY LOG

DATE: D 7 M JUN Y 82 — RAW TAPE: D 7 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 176	NGC2004	GC .83	α 5 , 30 , 45 δ -67, 19 , 0 R 6 , 54 , 52	H	SWP 17147 1 + 1	195 29 OF	-0.4 0.08 9.8	L	O	223639	430:0	3.	O	4	B_{1400} = 102 C_{1400} = 180 B_{1500} = 90 C_{1500} = 170 MN=	CASSATELLA GEYER
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: D 8 M JUN Y 82 — RAW TAPE: D 8 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SFET SE 211	~~MKN 478~~ 84	14.6	α 14 , 40 , 4.5 δ 35 , 39 , 6.8 R , ,	L	SWP 17168 1 + 1	25 B.O. used slow	-2.9 0.10 7.2	L	O	23:15:09	95:00	3	5	1	~~Not NGC~~ MN=	GASKELL / F.B.
	Sky		α 〃 , 〃 , 〃 δ 〃 , 〃 , 〃 R 〃 , 〃 , 〃	L	LWR 13447 1 + 8	/	-2.9 0.08 11.5	L	O	23:19:15	55:00	O	O	1	SERENDIPITY BACKGROUND MN=	〃 / 〃
STET	~~MKN 478~~ 84	14.6	α 〃 , 〃 , 〃 δ 〃 , 〃 , 〃 R 〃 , 〃 , 〃	L	LWR 13448 1 + 2	B.O.	-.7 0.08 12.2	L	O	00:58:12	80:00	3	4	1	MN=	〃 / 〃
	Sky		α 〃 , 〃 , 〃 δ 〃 , 〃 , 〃 R 〃 , 〃 , 〃	L	SWP 17169 1 + 3	/		L	O	01:38:15	15:00	O	O	1	SERENDIPITY MN=	〃 / 〃
STET	~~MKN 478~~ 84	14.6	α 〃 , 〃 , 〃 δ 〃 , 〃 , 〃 R 〃 , 〃 , 〃	L	SWP 17170 1 + 5	B.O.	-.7 0.08 7.2	L	O	02:25:55 06:34:31	57:00	2	4	1	MN=	〃 / 〃
	〃	〃	α 〃 , 〃 , 〃 δ 〃 , 〃 , 〃 R 〃 , 〃 , 〃	L	LWR 13449 1 + 4	B.O.	-.7 0.08 12.9	L	O	03:01:08	30:00	3	4	1	4 MIN-HTR MN=	〃 / 〃
	〃	〃	α 〃 , 〃 , 〃 δ 〃 , 〃 , 〃 R 〃 , 〃 , 〃	L	LWR 13450 1 + 7	B.O.	0.08 13.2	L	O	05:06:50	40:00	2	3	1	MN=	〃 / 〃
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: D 9 M JUN Y 82 — RAW TAPE: D 9 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	NULL	–	α , , δ , , R , ,		LWR 13461 1+1	/	/		0	~22:32	/	0	0	1	CHECK FOR REMNANTS OF PREVIOUS OVEREXPS RE. REMNANTS PRESENT IN WITH SMALL FLARE MN= 272	BLADES JCB
"	NULL	–	α , , δ , , R , ,		LWR 13462 1+2	/	/			~22:50	/	0	0	1	No remnant present. MN=	"
"	+33 2642 20 /	B2 N 10.83 /	α 15 . 50 , 01 δ +33 . 05 , 28 R 21 , 16 , 0.2	L	LWR 13463 1+3	179 1 F/0	-0.09 .08 142	L S	0	23:17:24 23:24:57	003:10 00 9:30	5 4	0 0	2 2	MN=	"
"	"	"	α , , δ — " — R , ,	L	SWP 17179 1+4	180 1 F/0	0.2 .08 8.5	L S	0	23 51:03 23:58:48	004:00 012:00	5 5	0 0	0 0	MN=	"
"	+28 4211 16 /	sdO 10.50 /	α 21 , 48 . 56.0 δ +28 , 37 , 35 R 299 , 43 , 42.3	L	SWP 17180 1+5	255 0 F/0	-0.4 .08 8.8	L S	0	01:10:44 01:15:09	000:26 001:20	5 6	0 0	0 0	MN=	"
"	"	"	α , , δ — " — R , ,	L	LWR 13464 1+6	261 F/0	-0.8 .08 13.8	L S	0	01:20:20 01:25:08	001:00 003:00	5 5	0 0	2 2	MN= 202	"
"	"	"	α , , δ — " — R , ,	L	LWR 13465 1+7	265 F/0	-0.6 .08 13.8	L	0	02:21:19	003:51	5	0	2	TRAIL, r = 0.095 iter = 1. MN= 535	"
"	"	"	α , , δ — " — R , ,	L	SWP 17181 1+8	268 F/0	.08 8.5	L	0	03:26:50	001:18	5	0	0	TRAIL, r = 0.256 iter = 1 MN=	"

OBSERVATORY LOG

DATE: D 9 M JUN Y 82 — RAW TAPE: D 9 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	+75 325 14 —	sdO 9.5 /	α 8 , 4 , 43.0 δ +75 , 6 , 48 R 130 , 30 , 51.3	L	LWR 13466 1+9	645 2 F/0	-.43 .08 13.5	L S	0	05:39:53 05:44:16	000:24 1:12	5 4	0 0	2 2	MN= 199	JCB
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D M Y 10 Jun 82 RAW TAPE D M 10 Jun

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	NULL		α , , δ , , R , ,		LWP 1567 1 + 1					22/45/0		2		0	weak residual image ~ 10 DM. MN=	WAMSTEKER WW.
"	BD 28° 4211 16	sdO(?) 10.5	α 21, 48, 56 δ 28, 37, 34 R 300, 16, 43	L	LWP 1568 1 + 2	285 0 OV.F	2.8 .08 10.5	L	0	23/40/24	0/50	4	0	2	MN=	" "
"	"	"	α , , δ " , " , " R , ,	L	LWP 1569 1 + 3	"	2.8 .08 10.5	L	0	00/13/37	0/50	4	0	2	MN=	" "
"	ETA UMA 21	B3 V 2.84	α 13, 45, 34 δ 49, 33, 44 R 46, 39, 12	H	LWP 1570 1 + 4	4956 640 4N.F	.8 .08 11.5	L	0	01/13/08	0/06	5	0	1	MN=	" "
"	Zeta Cass 20	B2 IV 3.6	α 0, 34, 10 δ 53(?), 37, 19 R 268, 29, 0	H	LWP 1571 1 + 5	993 171 4N.F	-.8 .08 12.2	L	0	02/08/27	0/21	5	0	1	MN=	" "
"	"	"	α , , δ " , " , " R , ,	L	LWP 1572 1 + 6		-1.5 .08 12.8	L	0	02/42/21	0/0.96	5	0	1	trail rate 20.83 1 pass. MN=	" "
"	"	"	α , , δ " , " , " R , ,	L	LWP 1573 1 + 7		-1.3 .08 12.8	L	0	03/17/30	0/0.96	5	0	1	trail rate 20.83. 1 Iter. MN=	" "
"	HD 155763 25	B6 III 3.5	α 17, 8, 38 δ 65, 46, 34 R 1, 16, 2	L	LWP 1574 1 + 10(?)		-.7 .08 12.2	L	0	04/21/45	0/01.44	5	0	1	trail rate 13.89(?) Iter. 1 MN=	" "

OBSERVATORY LOG

DATE D M Y 10 JUN 82 RAW TAPE D M 10 Jun

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	NULL		α , , δ , , R , ,		LWR 13470 1 + 9					5/28/00		1	1	2	MN=	WAMSTEKER WW.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 11 M Jun Y 82 RAW TAPE D 11 M Jun

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC048	BO +18°2307 46	KO V 9.7	α 9, 58, 56 δ 17, 39, 4 R 72, 5, 47	L	LWR 13479 1+4	381 4 0.F	.3 .08 11.8	L	O	22/55/11	25/0	2	3	3	4 MIN-HIR MN=	VILHU W.W.
"	=XYLeo "	"	α , , δ 4, 4, 4 R , ,	L	SWP 17197 1+3	457 4 0.F.	-.0 .08 7.2	L	O	23/24/30 02/5 8/48	181+40 +30	1	2	2	MN=	" "
"	"	"	α , , δ 4, 4, 4 R , ,	L	LWR 13480 1+1	392 2 0.F	-2.0 .08 12.2	L	O	02/29/11	25/0	2	3	3	4 MIN-HIR MN=	" "
"	"	"	α , , δ 4, 4, 4 R. , ,	L	LWR 13481 1+2	514 2 0.F	-1.0 .08 12.5	L	O	3/42/33	40/0	3	4	3	4 MIN-HIR MN=	
"	"	"	α , , δ 4, 4, 4 R , ,	L	LWR 13482 1+5	451 3 OV.F	-.4 .08 13.2	L	O	5/00/16	40/0	3	3	3	4 MIN-HIR MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 12 M JUN Y 82 RAW TAPE D 12 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 211	NGC 2997 80	Galaxy 12	α 9, 43, 27.4 δ -30, 57, 33 R 57, 28, 16.6	L	LWR 13489 1+1	BO	-1. .08 13.8	L	O	22:51:03	180:00	3	0	6	GUIDE X=188 Y=-349 cts 270 30 HTR WARM-UP = 4m MN=	THOMPSON PP
" "	NGC 1097 80	Galaxy 11	α 2, 44, 6 δ -30, 28, 03 R 320, 3, 34.2	L	SWP 17203 1+2	BO	-1.8 .08 7.8	L	O	02:50:20	177:00	3	0	1	GUIDE X=-430 Y=-1245 cts 16050 MN=	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE (D M Y): 13 JUN 82 RAW TAPE (D M): 13 JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 216	NGC 2997 80	Gal. 12	α 9 , 43 , 27.4 δ -30 , 57 , 33 R 56 , 49 , 48.8	L	SWP 17211 1 + 1	BO	-1.1 .08 8.5	L	O	22:42:55	210:00	3	0	1	Guide x = 391 Y = -486 cts 300 sec MN=	HEABURN PP
〃 〃	NGC 1097 80	Gal 11.	α 2 , 44 , 6 δ -30 , 28 , 03 R 319 , 15 , 26.5	L	LWR 13497 1 + 2	BO	-1.1 .08 13.2	L	O	03:38:33	120:00	3	0	4	GUIDE x = -629 Y = -1106 cts 117 sec HTR WARM-UP 15 min MN= 753	〃 〃
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE (D M Y): 14 JUN 82 RAW TAPE (D M): 14 JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SE 234	0119-013 85 —	— 15.2 —	α 01 , 19 , 26.7 δ -01 , 18 , 04 R 296 , 21 , 33.4	L	SWP 17219 1 +	B/o guide k9 s/o	-0.44 8.8 .08	L	O	00:24:11	38.7	3.	4	6	Read down GSFC MN=	Blades VEB
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 15 M JUN Y 82 RAW TAPE D 15 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SE234	1302-102 85 —	QSO 14.9 —	α 13 , 02 , 55.8 δ -10 , 17 , 16.2 R 68 , 56 , 54.5	L	SWP 17228 1 + 1	B/O SAO 157711 ~700 B/O	-0.29 0.08 9.2	L	O	22:09:14	250:00	3	4	2	Lyα = 140 DN backgd = 40 MN=	BLADES VCB
"	"	"	α , , δ , " , R , ,		SWP 17229 1 +	"	-0.76 0.08 9.2	L	O	02:58:05	250:00	3	4	2	REAR AT (SF6MN=	— " —
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 16 M JUN Y 82 RAW TAPE D 16 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SE218	1550+191 63	— 15.4 —	α 15 , 50 , 33.1 δ +19 , 05 , 17.4 R 32 , 47 , 34.1	L	LWR 13503 1 + 1	B/O	-0.06 .08 13.5	L	O	22:26:05	120	3	4	3	4-MN-HTR WM-UP MN=	OSBORNE VCB
"	"	"	α , , δ , " , R , ,	L	SWP 17238 1 + 2	B/O	-03 .08 9.5	L	O	00:32:39	90	3	3	1	MN=	
"	H0139-68 59	— 16.1	α 01 , 39 , 36.7 δ -68 , 08 , 38.1 R 305 , 57 , 21.7	L	LWR 13504 1 + 3	B/O	-2.1 .08 14.8	L	O	03:10:52	90	2	3	3	guide 683 F/O at R.F. 4-MN-HTR WM-UP MN=	
"	"	"	α , , δ , " , R , ,	L	SWP 17239 1 + 4	B/O	-1.6 .08 10.5	L	O	04:45:37	60	2	3	1	MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 17 M JUN Y 82 RAW TAPE D 17 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS coef. p. slot window/f.s	FOCUS BKG THDA	APERTURE	NR. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 278	ESO 113 84	Scpl. 13	α 1,21,51.2 δ -59, 3, 58 R 302, 44, 41.3	L	LWR 13514 1+1	43 2 SO	.05 .08 15.2	L	O	23:23:13	60:00	3	4	3	HTR WARM-UP-4m MN= 777	BROMAGE PP
"	"	"	α , , δ , , R , ,	L	SWP 17249 1+2	43 3 SO	-1.3 .08 9.8	L	O	00:27:30	70:00	3	6	0	MN=	"
"	HCC 7469 84	Scpl. 13	α 23, 0, 44.4 δ 8, 36, 18 R 294, 49, 38.5	L	LWR 13515 1+3	87 6 SO	-.6 .08 14.8	L	O	02:17:29	60:00	3	4	4	HTR WARM-UP=4m MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 17250 1+4	83 9/22 SO	-.3 .08 9.8	L S	O	03:27:00 05:27:16	120:00 20:00	4 2	5 2	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 18 M JUN Y 82 RAW TAPE D 18 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS coef. p. slot window/f.s	FOCUS BKG THDA	APERTURE	NR. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 225	NULL		α , , δ , , R , ,		LWP 1581 1+1										SAFETY READ MN=	WARD PP
"	AO 234 84	Scpl. 15	α 2, 36, 40.8 δ -52, 24, 27 R 317, 19, 31.0	L	LWP 1582 1+3	BO	-1.1 .08 9.2	L	O	23:29:44	300:00	5	6	2	Guide x = 231 Y = -438 ch 320 FO MN=	"
"	NULL		α , , δ , , R , ,		LWR 13522 1+2										SAFETY READ MN=	"
"	NGC 1672 88	Galaxy 12.5	α 4, 44, 55.3 δ -59, 20, 9 R 345, 38, 23.3	L	SWP 17257 1+4	45 7 FO	-1.2 .08 9.2	L	O	03:34:31	75:00	3	0	1	MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 13523 1+5	180 13 SO	-.9 .08 13.2	L	O	04:54:10	49:00	3	0	3	4TH HTR WARM-UP MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 19 M JUN Y 82 RAW TAPE D 19 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SE 225	A 1422+48 84	Seyfert. 15.3	α 14, 19, 38.7 δ 48, 01, 06 R 47, 06, 02	L	SWP 17265 1+1	B/0	1.3 .08 7.8	L	O	22:45:32	140:00	3	3	1	GDE(-525,528 191 SO) MN=	WARD ec
"	"	"	α , , δ , , R , ,	L	LWP 1583 1+3	B/0	1.6 .08 5.8	L	O	01:14:11	160:00	3	3	1	GDE(-724,666 168 SO) MN=	"
"	NULL		α , , δ , , R , ,		LWR 13528 1+2							0	0	1	MN=	"
4	HCG-2-SB22 84	~14	α 23, 02, 07.1 δ -8, 57, 19 R 292, 00, 01.3	L	SWP 17266 1+	B/0	1.7 .08 6.1	L	O	04:50:22	54:00	2	3	1	GDE(-1253,-655 370 SO) MN=	4
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 20 M JUN Y 82 RAW TAPE D 20 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SD 61	NGC 598 80	13	α 1, 31, 1.9 δ 30, 24, 18 R 280, 24, 21.3	L	LWP 1584 1+	105 40 slow	-.7 0.08 4.8	L	O	23:32:44	369:00	4	0	3	MN=	BENVENUTI / P.B.
4	NULL READ		α , , δ , , R , ,		LWR 13533 1+	/	/			/	/				MN=	L / L
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 21 M JUN Y 82 RAW TAPE D 21 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DKG THOA	APERTURE	AP. SHUT.	G.H.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 144	L791-40 43	DC 14.0	α 23, 17, 06 δ -17, 22, 00 R 290, 5, 29.7	L	SWP 17278 1+1	36 1 SO	-1.3 .08 7.2	L	O	22:56:54	410:00	5	0	3	9DE (1178, -61 234 FO) B=45 C=222 MN=	VAUCLAIR pc
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 22 M JUN Y 82 RAW TAPE D 22 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DKG THOA	APERTURE	AP. SHUT.	G.H.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 144	F 108 37	DA 12.9	α 23, 13, 36 δ -02, 07, 00 R 293 31, 51.4	L	SWP 17284 1+1	121 15 SO	-.7 .08 9.2	L	O	22:48:19	05:00	3	0	1	249, -1010, 2175 FO MN=	VAUCLAIR pc
"	"	"	α , , δ , " , R , ,	L	LWR 13548 1+3	110 3 SO	-.7 .26 14.5	L	O	22:57:55 23:19:27	12:00 10:00	5	0	2	49, -869, 253 SO 4MIN-HTR MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 17285 1+2	111 2 SO	-1.6 .08 9.2	L	O	23:40:46	10:00	5	0	1	MN=	"
"	L532-81 37	DA 12.0	α 08, 39, 34 δ -32, 46, 42 R 38, 45, 8.7	L	SWP 17286 1+4	253 2 SO	-1.2 .08 9.5	L	O	00:37:01	90:00	5	0	1	943, -1193, 430 FO MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 13549 1+5		1.21	L	O	02:22:04	45:00	6	0	2	Exp. started at GSFC MN=528	"
"	F91 37	DA 13.4	α 14, 06, 54 δ +59, 00, 00 R , ,	L	SWP 17287 1+			L	O		20:00				MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D M Y: 23 JUN 82 — RAW TAPE D M: 23 JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 013	HD 197481 48	M4V 8.6	α 20, 42, 04.4 δ 31, 31, 16.6 R 266.32, 27 3	H	SWP 172901 1 +	1149 2 FO	-1.7 .08 9.6	L	O	(21:09:24 23:13:21	120:00) 120:00				→ Exp. started and ended at GSFC MN=	ERIKSSON ee
"	"	"	α , , δ , " , R , ,	H	" 1 +	1195 1 FO	-.9 .08 9.2	L	O	01:16:31	120:00				MN=	"
"	"	"	α , , δ , " , R , ,	"	" 1 +	1179 2 FO	-1.0 .08 8.8	"	"	03:19:25	120:00				MN=	"
"	"		α , , δ , , R , ,		1 +	1194 2 FO	-1.3 .08 8.5	"	"	05:24:21	120:00	0	3	9	MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 + total exposure time = 18 h = 1080 min.										MN=	
			α , , δ , , R , ,		1 +					Em = BGK =	1800N 1200N				MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 24 JUN 82 — RAW TAPE D M: 24 JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC013	HD204075 45	G5 II 3.74	α 21h, 23m, 48.8s δ -22°, 37', 43" R 280°, 52', 55.9	H	SWP 17292 1 +		.8 10.5	L	O	20:31:36	440:00				Exp. started at GSFC MN=	K. ERIKSSON A.H.
			α , , δ , , R , ,		1 +	641 104 f.v.	.05 .08 9.5	L	O	03:57:18 TOTAL =	440:00 987	0	3	9	extended at Vilspa MN=	"
			α , , δ , , R , ,		1 +										Read at GSFC MN=	
			α , , δ , , R , ,		1 + total length : 987 min. quality:					Co	250	D	✓		MN=	
			α , , δ , , R , ,		1 +					CII OI	145 140	D	✓ ✓		MN=	
			α , , δ , , R , ,		1 +					CI BKG	sat 140 at 1900 Å				MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 25 M JUN Y 82 — RAW TAPE D 25 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 181	NGC 5824 83	10.3	α 15h, 0m, 54.0 δ -32°, 53', 0" R 89°, 42', 12".0	H	LWP ~~[illegible]~~ 1587 1 +	X07 40 f.o	9.2	O	C	19:54:55	440:00 1010	3	0	9	Exposures MN=	MAX (PETTINI) AH
"	"	"	α , , δ , " , R , ,	H	SWP 17295 1 +		9.2	O	C	20:11:51	440:00 935	0	0	9	started at GSFC MN=	"
			α , , δ , , R , ,		LWP 1 +		-.29 95			03:15:32	440:00				extended at Vilspa MN=	
			α , , δ , , R , ,		SWP 1 +		-.47 4.5			03:42:33	440:00				& read at GSFC MN=	
			α , , δ , , R , ,		1 +							3	0	9	MN=	
			α , , δ , , R , ,		total length 1 +					LWP & BKG 1010 mn	13 ...	0			MN=	
			α , , δ , , R , ,		total length : 1 +					SWP: (10 ~~10mn~~) 935 mn					MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 26 M JUN Y 82 — RAW TAPE D 26 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 181	NGC 5824 83	10.3	α 15h, 0m, 54.0 δ -32°, 53', 0" R 89°, ~~[illegible]~~7', 16"	H	LWP 1587 1 +	220 35 f.o.	.2 .08 66	L	O	23:13:40	~~440:00~~ 725:00	3	0	9	B=110 to be read at GSFC MN=	MAX PETTINI AH
			α , , δ , , R , ,		1 +										MN=	
	"	"	α , , δ , " , R , ,	H	SWP 17298 1 +		.2 .08 78	L	O	23:22:33	710:00	1	1	7	B: 84 DN [illegible] to be read at GSFC MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 27 M JUN Y 82 RAW TAPE D 27 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot wndow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EH282	TR16/112 12-13	05 9.29	α 10 , 43, 19.87 δ -59, 27 . 49.6 R 57, 7 , 14.5	L	LWR 13565 1+1	697 80 F.O.	-1.2 .08 11.8	L	O	22:54:37	3:0	5	ϕ	2	REF. POINT: -27, -205 4 MIN WARM-UP lines missing 310, 308, 307, 305, 304 MN=	H. PETTINI LB
"	"	"	α , , δ " , " , " R , ,	"	SWP 17304 1+2	701 77 F.O.	-1.7 .08 6.8	L	O	23:31:53	386:00	6	ϕ	3	REF POINT: -27, -205 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 28 M JUN Y 82 RAW TAPE D 28 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot wndow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 160	QSO 1011-282 85	QSO 16.8	α 10 , 11 , 12.28 δ -28 , 16 , 30.1 R 62 , 1 , 21.3	L	SWP 17313 1+1	B.O.	-1.0 .08 8.8	L	O	22:58:39	240:00	2	3	2	MN=	F. FRICKE J. LB
"	NGC 936 80	Galaxy QSO 10.77	α 2 , 25 , 04.4 δ -1 , 22 , 49.1 R 296, 47 . 56.9	L	LWR 13569 1+2	B.O.	-.65 .08 12.8	L	O	04:04:38	99:00	2	0	3	4 MIN. WARM-UP MN= 687	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 29 M JUN Y 82 RAW TAPE D 29 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 160	ESO 438-G09 80	SP. GAL. 14-15	α 11 , 08 , 22.1 δ -28, [illegible] R 59 , 36 , 31.7	L	SWP 17321 1+1	B.O.	-1.5 .08 10.2	L	O	23:12:55	180:00	3	ϕ	2	MN=	K.J. FRICKE
"	"	"	α , , δ " , " , " R , ,	L	LWR 13576 1+2	B0	-.57 .08 13.8	L	O	02:20:45	203:00	3	ϕ	5	4 MIN. WARM-UP MN= 997	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 30 M JUN Y 82 RAW TAPE D 30 M JUN

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA/SERC TOO.	NOVA AQU 55	NOVA 12.8	α 19 , 20 , 50.2 δ 2 , 23 , 35 R 337, 35, 45.5	L	SWP 17330 1+2	B.O. (84) S.O.	-2.9 .08 9.5	L	O	23:13:57	240:00	4	5	2	MN=	A. LYNAS-GRAY
"	"	"	α , , δ " , " , " R , ,	L	LWR 13579 1+3	98 8 S.O.	-.12 .08 13.5	L	O	03:18:04	105:00	4	3	3	4 MIN-HTF MN= 731	"
			α , , δ , , R , ,		FES FIELD 92 1+1	S.O.									MN=	
			α , , δ , , R , ,		1+										PNT at. 05:02: 93 cts (S.O.) MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 1 M Jul Y 82 RAW TAPE D 1 M Jul

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS cnt. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 080	HD 130749 21	B5 IV 4.2	α 15, 30, 55 δ 31, 21, 36 R 45, 39, 09	H	SWP 17334 1+1	587 136 UN.F	−.7 .08 8.2	L	O	21/11/20	1/45	5	0	1	MN=	DOAZAN WW.
"	HD 149757 12	O9 Ve 2.6	α 16, 34, 24 δ −10, 28, 3 R 63, 6, 3	H	SWP 17335 1+2	2430 330 UN.F	−.8 .08 8.2	L	O	21/58/14	0/23	5	0	1	MN=	DOAZAN WW
"	HD 164284 20	B2 Ve 4.8	α 17, 57, 47 δ 4, 22, 11 R 20, 16, 0	H	SWP 17336 1+3	66 UN.F	−.2 .08 8.2	L	O	22/46/45	1/20	5	0	1	MN=	DOAZAM W,U
"	HD 200120	B1.5 Ve 4.7	α 20, 58, 7 δ 47, 19, 30 R 327, 46, 4	H	SWP 17337 1+#11	768 33 UN.F	−.4 .08 8.8	L	O	23/41/27	1/30	5	0	1	MN=	DOAZAM WW
"	"	"	α , , δ 4, 4, 4 R , ,	L	LWR 13584 1+4	768 UN.T	−.4 .08 12.5	L	O	23/46/19	0/01	5	0	1	4 MIN-HTR MN=	DOAZAM WW
EI 109	SS Cyg 54	WD+ dg5 11.8	α 21, 40, 44 δ 43, 21, 21 R 318, 22, 52	L	LWR 13585 1+6	306 6 OV.S.	−1.6 .08 12.5	L	O	00/46/47	20/0	4	6	3	4 MIN-HTR MN=	Giovanelli/ Rossi WW.
"	"	"	α , , δ 4, 11, 11 R , ,	L	SWP 17338 1+7	300 5 OV.S	−1.0 .08 8.2	L	O	01/15/14	51/0	4	7	1	MN=	Giovanelli Rossi WW
"	"	"	α , , δ 4, 4, 4 R , ,	L	LWR 13586 1+8	322 0 OV.S	−1.0 .08 12.8	L	O	02/11/34	25/0	4	6	3	4 MIN-HTR MN=	" "

OBSERVATORY LOG

DATE D 1 M Jul Y 82 RAW TAPE D 1 M Jul

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS cnt. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 109	SS Cyg 54	WD1 dg5 11.8	α 21, 40, 44 δ 43, 21, 21 R 318, 22, 52	L	SWP 17339 1+9	349 5 OV.S	−1.0 .08 8.5	L	O	2/46/16	20/0	3	5	0	MN=	Giovanelli Rossi WW.
"	"	"	α , , δ 4, 4, 4 R , ,	L	LWR 13587 1+10	404 1 OV.S	−.7 .08 13.2	L	O	03/20/37	23/0	4	6	3	4MIN-HTR MN=	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 2 M Jul Y 82 RAW TAPE D 2 M Jul

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA008	HD113001 16	sdO 9.6	α 12,58,5 δ 36,1,32 R 69,10,8	H	SWP 17343 1+1	559 2 OV.F	-.1 .08 8.5	L	O	20/3d/21	60/00	5	0	0	MN=	Heber WW.
11	BD-31° 4800 16	sdO 10.5	α 7,24,35 δ -32,6,11 R 13,50,48	H	LWR 13594 1+	264 5 OV.F.	-.5 .08 13.5	L	O	22/55/05	80/00	4	0	4	4 MIN-HTR MN=	11 11
11	AGK2 +81°266 16	sdO 11.9	α 9,13,43 δ 81,56,12 R 140,19,37	H	SWP 17344 1+	299 16 OV.S	-1.7 .08 8.8	L	O	01/17/41	150/88	4	0	1	MN=	11 11
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 3 M JUL Y 82 RAW TAPE D 3 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA008	FEIGE 34 16	sdO 11.24	α 10,36,41.1 δ 43,21,50 R 94,24,55.2	H	SWP 17349 1+1	140 1 FO	-2.0 .12 8.8	L	O	20:59:30	120:00	5	0	1	4DE (420, 1007 312 50) MN=	HEBER EC
11	HZ 44 16	sdO 11.67	α 13,21,19.1 δ 36,23,38 R 66,45,56.9	H	SWP 17350 1+2	365 1 50	-2.2 .08 9.5	L	O	23:40:44	247:00	5	0	2	4DE (-44, -405 332 50) MN=	11
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 4 M JUL Y 82 RAW TAPE D 4 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS ENC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 206	HD 200391 44	G2 7.3 0.7	α 21, 00, 16 δ +27, 36, 33 R 325, 24, 9.4	L	LWR 13605 1+1	3769 9 FO	-.3 1.12 13.5	L	O	20:45:15	04:00	5	0	2	GDE(652, -1698 404 FO) 4 MIN-HTR MN=	BUDDING / GIMENEZ ec
"	"	"	α , , δ , " , R , ,	H	LWR 13606 1+2	3741 9 FO	-.8 .08 14.2	L	O	21:23:30	150:00	4	0	4	GDE(653, -1698 430 FO) 4 MIN-HTR MN=	"
"	HD 146361 41	F8 5.7	α 16, 12, 48.1 δ 33, 59, 04 R 39, 37, 9.3	H	LWR 13607 1+3	18328 44 FO	-.17 .08 15.2	L	O	00:36:07	40:00	5	5	2	GDE(-258, 331 52 FO) 4 MIN HTR MN=	"
"	UV PSC 44	G5 9.2	α 01, 14, 18 δ 6, 32, 53 R 292, 18, 58.3	L	LWR 13608 1+4	832 4 FO	-.2 .08 15.2	L	O	02:01:19	25:00	5	0	2	GDE(-922, 51 311 SO) 4 MIN-HTR MN=	"
"	00 Aql 44	G5 9.3 0.7	α 19, 45, 48 δ 9, 11, 00 R 338, 25, 56.9	L	LWR 13609 1+5	353 1 FO	-1.4 .08 15.2	L	O	03:07:16	36:00	5	0	2	GDE(-428, -541 167 FO) 4 MIN-HTR MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 5 M JUL Y 82 RAW TAPE D 5 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS ENC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 242	AO538-66 59	X RAY 13.2	α 5, 35, 42 δ -66, 53, 40 R 341, 25, 49.0	L	LWR 13615 1+1	86 1 SO	-1.3 .12 13.5	L	O	20:57:59	30:00	4	0	2	GDE(-288, -809 138 FO) MN= 515	A. WILLIS ec
"	"	"	α , , δ , " , R , ,	L	SWP 17365 1+2	3 0	-1.8 .12 8.5	L	O	21:32:57	60:00	4	4	1	GDE(-88, -948 139 FO) MN=	"
"	R Hea2 AO538-66	0 13.5	α 5, 35, 42.5 δ -66, 53, 54.8 R 341, 23, 59.6	L	SWP 17366 1+			L	O		40:00				MN=	"
"	SK -67 18	O6+WN ~12.0	α 4, 55, 18 δ -67, 13, 00 R 332, 6, 11.7	H	LWR 13616 1+3	228 6 SO	-1.4 .08 13.2	L	O	23:44:45	238:00	3	0	6	GDE(-21, -229 456 FO) 4 MIN-HTR MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D M Y: 6 JUL 82 — RAW TAPE D M: 6 JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 242	STAR A (Aϕ538-ϕ6) 13	OB 13.5	α 5 , 35 , 42.5 δ −66 , 53 , 54.7 R 340 , 22 , 2.0	L	SWP 17371 1 + 1	6.0.	−1.5 0.08 9.5	L	O	225052	40:00	5	0	1	Spe (−94, −1013) 1730F C = 210 B = 22 MN= /	WILLIS AC
"	SK 80 12	O7 12.4	α 0 , 57 , 54 δ −72 , 27 , 0 R 276 , 23 , 44.6	H	LWR. 13621 1 + 2	194 9 OS	−1.7 0.04 14.8	L	O	000139	222:00	3	0	6	4 min warmup. C ~ 60 B < 17 MN= 84 F	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 7 JUL 82 — RAW TAPE D M: 7 JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC275	HD82901 51	M 7	α 9 , 30 , 59.2 δ −62 , 34 , 01 R 33 , 21 , 30.4	H	LWP 1609 1 + 1	6954 11 OF	−0.29 0.08 10.2	L	O	203508	17:00	0	3	2	MgII ~60 DN above bkg MN= /	STICKLAND AC
"	HD89366 51	M 7	α 10 , 4 , 46.2 δ −61 , 18 , 14 R 41 , 22 , 7.9	H	LWP 1610 1 + 2	9027 47 OF	−1.96 0.10 10.5	L	O	213540	60:00	0	3	2	E = 97 MN= /	
"	HD69903 45	9 ϕ III 5.5	α 1 , 7 , 8 δ +19 , 23 , 19 R 291 , 17 , 44	L	SWP 17377 1 + 3	15310 41 OF	−0.03 0.08 9.8	L	O	231035	30:00	3	3	2	MN= /	
"	"	"	α , , δ , , R , ,	H	LWP 1611 1 + 4	14853 29 OF	0.0 0.08 10.5	L	O	234333	4:00	3	0	3	C = 66 B = 40 MN= /	
"	NULL		α , , δ , , R , ,	L	LWR 13626 1 + 5						—				MN=	
"	RZ GRU 54	dwarf Nova 12.5	α 22 , 44 , 12 δ −43 , 0 , 0 R 263 , 41 , 53.3	L	LWR 13627 1 + 6	162 0 OS	−1.6 0.08 12.8	L	O	011429	30:00	5	0	2	C = 219 B = 28 MN=	
"	"	"	α , , δ , , R , ,	L	SWP 17378 1 + 7	172 OS	−0.9 0.08 13.8	L	O	015205	30:00	5	4	1	C = 176 B = 23 MN= /	
"	"	"	α , , δ , , R , ,	L	SWP 17379 1 + 8	175 OS	+0.2 0.08 14.2	L	O	025917	47:00	5	5	1	MN=	

OBSERVATORY LOG

DATE D 8 M JUL Y 82 RAN TAPE D 8 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAN T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI151	HD169515 23	BØI 9.0	α 18, 22, 42.7 δ -12, 43, 09 R 46, 56, 494	L	LWR 13636 1+1	849 2 OF	-1.0 0.08 13.5	L	O	220742	20:00	6	0	3	E = 255 (2-3 pix saturated) B = 29 4-MIN-HIR MN=	WEST AC
"	"	"	α , , δ , , R , ,	L	SWP 17386 1+2	855 2 OF	-0.83 0.08 10.5	L	O	223200	60:00	4	0	2	C = 130 B = 17 MN=	"
EI209	SS Cyg 54	wd+dM5 11.8	α 21, 40, 44 δ 43, 21, 21 R 323, 59, 55	L	LWR 13637 1+3	373 5 OS	0.80 0.08 14.5	L	O	004831	25:0	5	7	2	4 min warm up MN=	GIOVANNELLI, ROSSI AC
"	"	"	α , , δ , , R , ,	L	SWP 17387 1+4	318 4 OS	+.50 0.08 11.8	L	O	011656	40:00	3	7	2	C IV ~ 12 pix sat. HeII 118 ; SiIII 164 continuum (1900Å) ~ 125 B = 28 MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 13638 1+5	297 3 OS	-0.9 0.08 14.8	L	O	020216	18:00	4	5	2	(1 pix sat. in MgII) 4 MIN-HIR MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 17388 1+6	282 4 OS	-1.2 0.08 12.5	L	O	023259	25:00	3	5	2	C IV : 247 SiII : 147 HeII : 18 B = 17 MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 13639 1+7	325 5 OS	-2.2 0.08 15.5	L	O	031328	17:00	4	6	2	4 min warm up 3 pix saturated MgII C = 151 4 MIN-HIR B = 28 MN=	"
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 9 M JUL Y 82 RAN TAPE D 9 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAN T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE208	NGC 1313 80		α 3, 17, 39.0 δ -66, 40, 42 R 306, 41, 56.2	L	LWR 13644 1+	8.0. —	-1.4 0.08 15.2	L	O	42C:5C	417:00	3	0	9	4 MIN-HIR MN=	ELLIS / P.B.
1.	NGC 1313 80		α , , , δ , , , R , ,	L	SWP 17392 1+	8.0 —	-1.4 0.08 9.5	L	O	21:02:59	387:00	2	0	3	SERENDIPITY MN=	L / —
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 10 M JUL Y 82 RAW TAPE D 10 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 108	NGC 4449 80		α 12 , 25 , 48.1 δ 44 , 23 , 45 R 82 , 0 , 29.4	L	LWR 13653 1+2	B.O. —	~~-.11~~ -.17 0.08 14.2	L	O	20:53:06	200:00	3	0	6	4 MIN-HIR MN=	ELLIS P.B.
	"		α , , δ , , R , ,	L	SWP 17339 1+1	B.O. —	-.17 0.08 10.5	L	O	21:12:16	160:00	3	0	2	SERENDIPITY MN=	" "
	"		α , , δ , , R , ,	L	SWP 17~~400~~ 1+	B.O.	-1.8 0.98 10.8	L	O	00:18:18	209:00	3	0	2	MN=	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 11 M JUL Y 82 RAW TAPE D 11 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 151	HD 169515 23	B9 I 9.3	α 18 , 22 , 42.7 δ -12 , 43 , 09 R 54 , 1 , 5.2	L	LWR 13658 1+1	679 5 FO	-1.9 .08 13.8	L	O	21:14:37	30:00	6	0	2	9DE (952, -101 128 FO) 4 MIN-HIR MN=	R. WEST ee
"	"	"	α , , δ , " , R , ,	L	SWP 17408 1+2	690 1 FO	-1.3 .08 9.5	L	O	21:48:02	105:00	4	4	1	9DE (1154, -241 96 FO) MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 13659 1+4	767 2 FO	1.8 .08 13.5	L	O	23:36:29	30:00	6	0	2	9DE (969, -101, 116 FO) 4 MIN-HIR MN=	"
STAND	HD 148763 31	A5 6.9	α 16 , 27 , 48.0 δ -07 , 24 , 24 R 65 , 48 , 10.3	L	SWP 17409 1+3	8445 20 FO	3.5 .08 10.5	L	O	00:36:18	~~15:00~~ 06:00	3	0	1	extracted from shot by FES after a few mins exposure MN=	CACCIARI ee
"	"	"	α , , δ , " , R , ,	L	SWP 17410 1+5	8565 10 FO	3.1 .08 12.2	L	O	01:19:34	15:00	4	0	1	MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 13660 1+6	8729 FO	2.4 .08 14.2	L	O	01:56:02	08:20	4	0	2	Trailed, 2 passes. R=0.08 4 MIN-HIR MN=	"
"	HD 159561 31	A5 2.2	α 17 , 32 , 36.6 δ +12 , 35 , 41 R 37 , 58 , 37.0	L	SWP 17411 1+7	3181 FU	0.5 .08 14.5	L S	O O	03:07:00 03:11:24	00:08 00:30	5 7	0	0	Trailed, 1 iter. R=2.50 Lap MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 13661 1+8	3445 FU	-.2 .08 15.2	S	O	03:41:04	00:04	7	0	2	4 MIN-HIR MN=	"

OBSERVATORY LOG

DATE (D M Y): 12 JUL 82 — RAW TAPE (D M): 12 JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 110	BD+40 4227 64 (radio-star)	O6 III 8.5	α 20, 31, 27.23 δ 41, 8, 32.6 R 343, 2, 28.4	L	LWR 13666 1 + 1	882 141 F/O	-1.2 .08 15.2	L	O	20:33:06	48:00	6	0	3	HTR-WARM-UP = 4 m Cyg OB2:8a MN=	GIOVANNELLI GUARNIERI PP
" "	" "	" "	α ", " δ ", " R ", "	L	SWP 17413 1 + 2	882 141 FO.	-1.3 .08 10.2	L	O	23:28:02	200:00	4	0	1	Cyg OB2:8a MN=	" "
" "	" "	" "	α ", " δ ", " R ", "	L	LWR 13667 1 + 3	908 121 FO	.3 .08 14.2	L	O	00:51:38	38:00	5	0	3	HTR-WARM-UP 4 m Cyg OB2:8a MN=	" "
" "	SS Cyg 54	wd 11.8	α 21, 40, 44 δ 43, 21, 21 R 327, 21, 1.7	L	SWP 17414 1 + 4	324 8 SO	-1. .08 11.5	L	O	01:54:05	25:00	3	6	0	MN=	" "
" "	" "	" "	α ", " δ ", " R ", "	L	LWR 13668 1 + 5	285 5 SO	-1.5 .08 14.8	L	O	02:28:26	20:00	5	8	3	HTR WARM-UP 4 m 12 pix sat Mg II MN=	" "
" "	" "	" "	α ", " δ ", " R ", "	L	SWP 17415 1 + 6	292 4 SO	-1.6 .08 10.8	L	O	02:35:25	40:00	4	7	0	MN=	" "
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE (D M Y): 13 JUL 82 — RAW TAPE (D M): 13 JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ES .009	JUPITER 03	Planet -1.7	α 13, 55, 0.45 δ -10, 31, 49.3 R 69, 22, 56.9	L	SWP 17417 1 + 1	BO	.6 .24 17.2	L	O	22:03:08	9:00	8	4	0	8 off low [illegible] Lyα ≈ 125 DN MN=	FRICKE PP
" "	SATURN 03	Planet +1.0	α 13, 01, 13.4 δ -3, 50, 54 R 67, 38, 1.8	L	SWP 17418 1 + 2	BO	-1.0 .60 11.8	L	O	23:23:31	35:00	8	3	0	B off from TITAN Lyα = 112 DN MN=	" "
" "	URANUS 03	Planet 5.8	α 15, 53, 6.4 δ -20, 05, 29 R 77, 48, 7.1	L	SWP 17419 1 + 3	15697 1278 FO	-.7 .10 10.5	S	O	01:11:54	145:00	3	3	0	Tracking around SA LA deal 02:26:58 Lyα = 88 DN (SA) MN=	" "
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 14 JUL 82 RAW TAPE D M: 14 JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ES 117	URANUS 03	Planets 5.8	α 15 , 53 , 0 δ -20 , 5 , 16 R 77 , 47 , 57.7	L	SWP 17425 1 + 1	14874 1371 FO	-1.4 .08 7.5	S	O	21:01:40	346:00	5	4	2	LA closed at 22:48:52 Lyα = 188 DN (SA) MN=	COMBES, FRICKE ENCRENAZ PP
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 15 JUL 82 RAW TAPE D M: 15 JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ES 117	NEPTUNE 03	Planet 7.7	α 17 , 36 , 11.2 δ -22 , 1 , 7.8 R 85 , 11 , 7.4	L	SWP 17434 1 +	2019 117 FO	-1.8 .10 8.5	S	O	21:09:41	740:00	3	4	7	READ AT GSFC TRACK around SA LAP closed at 22:10 MN=	COMBES-ENCRENAZ FRICKE PP
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 16 M JUL Y 82 RAW TAPE D 16 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ES117	NEPTUNE 03	Planet 7.7	α 17, 36, 06 δ -22, 1, 6 R 85, 16, 10.0	L	SWP 17438 1+	2144 140 F0	-1.2 .20 6.1	S	O	20:13:36 03:34:21	440:00 480:00				Started and Read at 95FC Closed Lafo at 21:43 MN=	COMBES - ENCRENAZ - FRICKE ec
			α , , δ , , R , ,		1+					TOTAL = 840 min		2	3	9	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 17 M JULY Y 82 RAW TAPE D 17 M JULY

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ES 17	MARS ϕ3	SOLAR 0 6 —	α 13, 15, 07 δ -8, 28, 10.2 R 67, 50, 25.4	H	LWR 13701 1+1	10670 at slot F/U	-0.5 .08 11.5	S	C	21:11:01	2:00	6	0	2	4-min-hbr-wm-up MN=	FRICKE, ENCRANAZ, COMBES JCB
— " —	— " —	— " —	α , , δ , , R , ,	L	SWP 17441 1+4	13320 at slot F/U	-0.9 .08 6.8	S L	C O	21:38:05 23:23:50 03:00:13 03:21:47	20:00 + 20:00 + 15:00 20:00	2 3	2 1	1 1	Foc=-1.5 Foc=-1.2 CATS = Foc=-1.2	Total 55 min — " —
— " —	— " —	— " —	α , , δ , , R , ,	H	LWR 13702 1+2	10980 at slot F/U	-0.9 .08 11.8	S	C	22:18.34	60:00	7	0	3	4-mm-hbr-wm-up MN=	— " —
— " —	— " —	— " —	α , , δ , , R , ,	H	LWR 13703 1+3	10980 at slot F/U	-.08	S	C	23:55:29	180:00	8	0	6	4-mm-hbr-wm-up MN=	— " —
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 18 M JUL Y 82 RAW TAPE D 18 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE102	Rc 3781 83 –	v 17	α 19, 07, 05 δ -60, 07, 53 R 164, 7, 55.1	L	SWP 17444 1+1	B/O	-1.9 .08 8.5	L	O	20:49:23	418:00	4	0	2	REF STAR SAO 254482 (-1249, 282) 310°, F/O. MN=	CALOI + CASTELLANI. FCB
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 19 M Jul Y 82 RAW TAPE D 19 M Jul

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE102	NGC 7099 83	A	α 21, 37, 30 δ -23, 25, 0 R 269, 1, 48	L	LWR 13719 1+3	203 42 F.0	-2.1 .08 11.8	L	O	21/44/45	75/0	4	0	4	4 FM-HR MN=	Caloi/ Castellani W.W.
"	"	"	α , , , δ , , , R , , ,	L	SWP 17448 1+2	Save mdip ity	-2.1 .08 6.5	L	O	21/48/21	50/00	1	0	0	MN=	" "
"	"	"	α , , δ , , , R , ,		FES image 1+1										MN=	" "
"	"	"	α , , δ , , , R , ,	L	SWP 17449 1+4	203 50 F.0.	-0.9 .08 8.5	L	O	23/05/51	240/0	4	0	1	MN=	" "
"	"	"	α , , δ , , , R , ,	L	LWR 13720 1+5	Seven dipity	1.0 .08 12.8	L	O	00/30/34	193/0	2	0	5	4 FM-HR MN=	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 20 M JUL Y 82 — RAW TAPE D 20 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESTOO	COMET AUSTIN Ø6	COMET 7	α ~~8~~ , 6 , δ -29 , 25 , R 315 , 37 , 26.5	L	SWP 17653 1 + 1	124 39 F.O.	-2.1 .08 8.5	L	O	21:16:01	68:30	1	2	1	NUCLEUS IN L.AP. MN=	FESTOU-WALL LB
EC004	HD2151 44	G2 IV 2.78	α 0 , 23 , 9.0 δ -77 , 32 , Ø R 251 , 14 . 41.5	H	LWR 13730 1 + 2	1709 600(rd) S.O.	-1.5 .08 12.8	L	O	23:02:18	7:00 ~~15:00~~	6	Ø	2	7 MIN EFFECTIVE EXPOSURE TIME MN= 196	P. LINDE LB
"	"	"	α , , δ " , " , " R , ,	H	LWR 13731 1 + 3	1698 300 S.O.	-.84 .08 13.2	L	O	23:47:36	15:00	7	0	2	MN= 272	"
"	"	"	α , , δ " , " , " R , ,	H	LWR 13732 1 + 4	1712 300 S.O.	-.96 .08 13.8	L	O	00:27:33	15:00	7	0	2	MN= 226	"
"	"	"	α , , δ " , " , " R , ,	H	LWR 13733 1 + 5	1663 300 S.O.	-1.1 .08 14.2	L	O	01:07:50	15:00	7	0	2	MN= 299	"
"	"	"	α , , δ " , " , " R , ,	H	LWR 13734 1 + 6	1600 300 S.O.	-1.2 .08 16.2	L	O	01:51:29	15:00	7	0	2	MN= 239	"
ESTOO	COMET AUSTIN Ø6	COMET 7	α 5 , 7 , 26.7 δ -29 , 15 , 7 R 315 , 23 , 22.8	L	LWR 13735 1 + 7	123 40 F.O.	-.5 .08 14.2	L	O	03:11:07	30:00	2	7	3	NUCLEUS IN L.AP. 4 MIN MIC MN=	FESTOU-WALL LB
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 21 M JUL Y 82 — RAW TAPE D 21 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA165	NGC 6853 71	PN ~13	α 19 , 57 , 24.0 δ 22 , 35 , 0 R 1 , 25 . 2.1	L	SWP 17460 1 + 2	132 41 S.O.	-1.1 7.5 .08	L	O	20:55:29	20:00	2	3	?	MN=	H. GREWING LB
"	"	"	α , , δ " , " , " R , ,	L	LWR 13741 1 + 3		-1.1 .08 13.2	L	O	21:02:16	35:00	1	1	3	4 MIN WARM UP MN= 805	"
"	"		α , , δ , , R , ,		FES FIELD 1 + 1										MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 17461 1 + 4	97 47 S.O.	-.3 .08 7.5	L	O	23:19:28	20:00	2	3	1	MN=	"
"	"	~~[illegible]~~	α ~~[illegible]~~ , " , " δ " , , R 1 , 38 , 48.7	L	SWP 17462 1 + 5	70 109 S.O.	-1.2 .08 7.8	L	O	00:39:28	20:00	1	2	1	MN=	"
EM162	HD113996 47	K5 III 4.74	α 13 , 4 , 47 δ 27 , 53 , 33 R 77 , 34 , 11.5	H	LWR 13742 1 + 6	292 50 F.U.	-1.9 .08 12.2	L	O	02:09:18	40:00	2	3	2	4 MIN WARM UP MN=	"
"	HD114710 44	GØV 4.28	α 13 , 9 , 32 δ 28 , 7 , 52 R 77 , 13 , 39.3	H	LWR 13743 1 + 7	450 70 F.U.	-1.6 .08 12.8	L	O	03:29:07	18:00	5	6	2	MN= 312	"
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 22 M JUL Y 82 RAW TAPE D 22 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 121	LSI +61°303 59	B(e) V 10.8	α 2, 36, 40.6 δ 61, 00, 34 R 273.32.39.1	L	LWR 13752 1+1	B.O.	-.91 .08 14.2	L	O	21 10:26	45:00	5	0	3	4 MIN-HIR MN=	BIGNAMI-CARAVEO / LB
"	"	"	α , , δ " , " , " R , ,	L	SWP 17464 1+2	B.O.	-1.9 -.08 9.2	L	O	22:00:56	120:00	4	4	1	MN=	"
EM 162	HD 19996 41	F8.5 5.06	α 3. 10. 13.0 δ -1 . 22 . 55. R 291. 22. 7.4	H	LWR 13753 1+3	2211.3 F2 F.O.	-7.0 .08 13.5	L	O	00:33:52	50:00	5	0	1	4 MIN HIR MN=	M. GREWING / LB
EA 165	NGC 3195 70	PN 12.5	α 10, 10.06 δ -80, 37.00 R 29, 31, 4.5	L	SWP 17465 1+4	72 16 S.O.	-.9 .08 8.8	L	O	01:34:40	30:00	2	2	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 13754 1+5	70 8 S.O.	-.98 .08 13.8	L	O	03:11:00	33:00	2	5	2	4 MIN HIR MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 23 M JUL Y 82 RAW TAPE D 23 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 165	IC 2448 70	P.N. 12.5	α 9, 6, 33 δ -69, 44, 0 R 13, 22, 19.6	H	SWP 17473 1+1	382 16 S.O.	-1.2 .08 8.2	L	O	21:06:15	180:00	3	7	2	MN=	H. GREWING / LB
"	"	"	α , , δ " , " , " R , ,	H	LWR 13759 1+2	379 11 S.O.	-.70 .08 12.2	L	O	00:10:29	195:00	3	4	5	4 MIN HIR MN=	"
"	"	"	α " , " , " δ , , R , ,	L	SWP 17474 1+	379 14 S.O.	-1.2 .08 7.8	L	O	03:29:28	10:00	4	5	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 24 M JUL Y 82 RAW TAPE D 24 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/F.S	FOCUS IMG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE010	HICL-NUCLEUS 80	Sc ~10 0.5	α 14, 1, 26.3 δ 54, 35, 16.11 R 80, 31, 32.3	L	SWP 17481 1+1	B.O.	-1.7 .08 9.2	L	O	20:58:43	120:00	3	0	1	MN=	G. BRUZUAL / LB
"	NGC 5461 7.2	HII ~12	α 14, 1, 55.6 δ 54, 33, 26 R 80, 31, 11.8	L	LWR 13768 1+2	B.O.	-1.2 .08 12.8	L	O	23:26:03	180:00	3	0	5	4 MIN-HIR MN= 742	"
"	"	"	α , , , δ " , " , " R , ,	L	SWP 17482 1+#	B.O.	-1.0 .08 8.5	L	O	02:31:15	180:00	3	0	2	imagerad lower at 58Fc MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 25 M JUL Y 82 RAW TAPE D 25 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/F.S	FOCUS IMG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 266	MCG-2-58-12 84	Seyf. 1.4.	α 23, 02, 7.2 δ -8, 57, 19 R 289, 44, 56.9	L	SWP 17489 1+1	BO	-.8 .08 9.8	L	O	21:29:44	120:00	3	5	1	X= -1226 ch 31050 Y= -705 MN=	CAWSON / PP
"	"	"	α , , , δ , , , R , , ,	L	LWR 13775 1+2	BO	-1.9 .08 13.8	L	O	23:38:16	210:00	6	0	5	X= -1424 ch 35050 Y= -571 XSTEP at 20:05 4 min HIR MN= 813	"
"	"	"	α , , , δ , , , R , , ,	L	SWP 17490 1+3	BO	-.3 .08 8.8	L	O	03:11:30	36:00	2	3	0	X= -1224 Y= -709 ch 36050 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE (D M Y): 26 JUL 82 — RAW TAPE (D M): 26 JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 124	HD 106111 53	CFC C.0	α 12h, 10m, 4.2s δ −69°, 52′, 25.5″ R −69°, 52′, 25.6″	H	SWP 17496 1 + 1	11004 513 f.o.	−1.2 .08 9.5	S	C	20:15:20	390:00	7	6!	3	[illegible] (X [illegible] MN=	EICHENDORF − SOLLAZZO A.H.
"	WAVCAL	—	α , , δ , — , R , ,	H —	SWP 17497 1 + 2	—	−0.93 .08 10.5	S	C	03:31:40 03:32:56	0:45	0	7	4	TFLOOD = 5 sec TCALW = 40 sec MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE (D M Y): 27 JUL 82 — RAW TAPE (D M): 27 JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 172	HD 106111 53	cF6 6.V	α 12h, 10m, 4.2s δ −69°, 52′, 25.5″ R 52°, 16′, 44.2″	H	SWP 17503 1 + 1	11300 29 f.o.	−1.8 .08 9.2	L	O	20:55:46	150:00	5	5!	2	MN=	EICHENDORF A.H.
"	HD 110258 53	F5 8.5	α 12h, 38m, 32.5s δ −59°, 31′, 11.5″ R 57°, 36′, 20.9″	L	SWP 17504 1 + 2	1540 4 f.o.	−1.4 .08 9.8	L	O	00:03.19	50:00	1	0	1	MN=	"
"	HD 89841 53	K0 8.5	α 10h, 18m, 48.1s δ −55°, 4′, 8.8″ R 87°, 5′, 38.5″	L	SWP 17505 1 + 3	1587 3 f. o	−1.2 .08 9.5	L	O	01:42:49	125:00	3	0	1	C = 5? B = ? MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: D 28 M JUL Y 82 RAW TAPE: D 28 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
TOO.	COMET AUSTIN 6	COMET	α 5 , 43 , 28 δ -21 , 3 , 48 R 311 , 57 , 31	L	LWR 13791 1 + 1	275 113 OS	-2.4 0.08 13.5	L	O	212900	25:00	3	7	2	4min warm up MN= -	FESTOU HUGHES AC
"	"	"	α , , δ , , R , ,	L	SWP 17512 1 + 2	263 108 OS	-1.8 0.08 8.8	L	O	215743	2:00	1	3	1	Lyα only E = 117 B = 12 MN= /	"
"	—	—	α , , δ , , R , ,	L	LWR 13792 1 + 3	/	-1.7 0.08 13.4.	L	O	124536	30:0	0	5	1	E = 186 B = 29 4min warm up MN= /	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: D 29 M JUL Y 82 RAW TAPE: D 29 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE278	NGC 7469 84	Seyf. 13	α 23 , 0 , 44.5 δ +8 , 36 , 18 R 307 , 13 , 39	L	LWR 13800 1 + 1	92 4 OS	0.28 0.08 12.8	L	O	205358	75:00	4	5	4	4min warmup E = 226 C = 161 B = 33 4 MINUTE MN= —	PENSTON AC
"	—	—	α , , δ - , , R , ,	L	SWP 17520 1 + 2	58 8 OS	0.51 0.08 9.2	L	O	221208	120:00	3	5	2	MN=	
"	ESO113-IG45 84	Seyf. 13.5	α 01 , 21 : 51.2 δ -59 , 03 , 58 R 264 , 33 , 45	L	LWR 13801 1 + 3	45 4 OS	-1.10 0.08 13.2	L	O	010444	90:00	5	5	3	ξ DE (-574, -161) E = 250 C = 200 4MIN HIT B = 31 MN= —	
"	—	"	α , , δ — , — , — R , ,	L	SWP 17521 1 + 4	48 0 OS	-1.20 0.08	L	O	024325	60:00	6	3	1	Lyα in point CIV : 163DN ; C = 83 B = 22 MN= —	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 30 M JUL Y 82 RAW TAPE D 30 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE ID. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG THDA	APERTURE	XP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EMϕ64	Oo 843 20	Bo N? 9.32 —	α 2, 15, 16 δ +56, 54, 15 R 284, 47, 35	L	LWR 13807 1+1 ①	655 3 F/o	-.15 .08 12.5	L	O	20:47:25	8:00	7	0	2	4-MN-HR-WM-UP MN=	STALIO JCB
"	"	"	α , , δ , , R , ,	L	SWP 17527 1+2 ①	F/o 613 4	-.15 .08 8.5	L	O	21:00:00	20:00	7	0	0	MN=	"
"	BD +56 501 12	O8III 9.37 —	α 2, 14, 58 δ 56, 55, 14 R 284, 47, 35	L	LWR 13808 1+1 ②	572 11 F/o	-.55 .08 12.8	L	O	21:48:32	14:00	7	0	2	SECOND ARCHIVE TAPE MN= 441	"
"	"	"	α , , δ , , R , ,	L	SWP 17528 1+2 ②	589 8 F/o	-1.3 .08 8.5	L	O	23:21:25	26:00	8	0	0	MN=	"
"	Oo 929 20	B2IV 10.26	α 2, 15, 22 δ +56, 55, 39 R 284, 47, 35	L	LWR 13809 1+3 ②	257 F/o	-1.7 .08 12.8	L	O	00:09:44	12:00	5	0	2	4-HN-HR-WM-UP MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 17529 1+4 ②	252 9 F/o	-1.7 .08 8.5	L	O	00:36:43	30:00	5	0	0	MN=	"
"	BD +56 501 "	O8III 9.37	α 2, 14, 58 δ 56, 55, 14 R 284, 47, 35	L	LWR 13810 1+5 ③	575 5 F/o	-1.7 .08 13.2	L	O	01:14:42	7:00	6	0	1	4-HN-HR-WM-UP MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 17530 1+6 ③	568 2 F/o	-2.1 .08 8.5	L	O	01:40:23	12:00	5	0	0	MN=	"

OBSERVATORY LOG

DATE D 30 M JUL Y 82 RAW TAPE D 30 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE ID. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG THDA	APERTURE	XP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EMϕ64	Oo 936 12	O9III 10.33	α 2, 15, 29 δ +56, 55, 25 R 284, 55, 42	L	LWR 13811 1+7 ②	242 B/o F/o	-2.1 .08 13.2	L	O	02:17:35	14:00	5	0	2	4-MN-HR-WM-UP MN=	STALIO JCB
"	"	"	α , , δ , , R , ,	L	SWP 17531 1+8 ②	224 B-o F/o	-1.7 .08 8.8	L	O	02:43:18	30:00	5	0	0	exposure terminated by mistake part way thro. final duration is approximate. MN=	"
"	Oo 843 20	Bo IV 9.32	α 2, 15, 16 δ +56, 54, 15 R 284, 47, 35	L	LWR 13812 1+9	545 F/o	-1.7 .08 13.5	L	O	03:32:44	4:00	5	0	2	4-MN-HR-WM-UP MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 31 M JUL Y 82 RAW TAPE D 31 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	NULL		α , , δ , , R , ,		LWR 13822 1+1										normal MN=	JCB
"	NULL		α , , δ , , R , ,		LWR 13823 1+2										HXPREP= 600% TFLOD SPREP. then a RDPREP. MN=	"
"	HD 3360 20	B2IV 3.7	α 0 , 34 , 03 δ +53 , 37 , 20 R 306 , 4 , 54.9	L	SWP 17539 1+3	TRAIL	-.4 .08 8.8	L	O	21:43:00	0:01	5	0	0	R=15, iter=1 MN=	"
"	60% CALUV		α , , δ , , R , ,		SWP 17540 1+4		-.4 .08 8.8			22:28:35	1:49				FINAL UV TEMP=35 MN=	"
"	HD 3360 20	B2IV 3.7	α , , δ " " R , ,	L	SWP 17541 1+5	TRAIL	-.2 .08 9.2	L	O	22:58:07	0:08	9	0	1	R=10, iter=4 followed by HXPREP MN=	"
"	60% CALUV		α , , δ , , R , ,		SWP 17542 1+6		-.5 .08 9.2			23:34:00	1:49				FINAL UV TEMP=34 remnant discernible. MN=	"
"	60% CALUV		α , , δ , , R , ,		SWP 17543 1+7		-.5 .08 9.2			00:01:27	1:49				FINAL UV TEMP=35 MN=	"
"	HD 3360 20	B2IV 3.7	α , , δ " " R , ,	L	SWP 17544 1+8	TRAIL	-.5 .08 9.2	L	O	00:41:00	0:08	9	0	1	R=10, iter 4 MN=	"

OBSERVATORY LOG

DATE D 31 M JUL Y 82 RAW TAPE D 31 M JUL

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	60% CALUV		α , , δ , , R , ,		SWP 17545 1+9		-.1 .08 9.2			01:14:22	1:49				FINAL UV TEMP=34 remnant discernible MN=	JCB
"	"		α , , δ , , R , ,		SWP 17546 1+10		-.1 .08 9.2			01:40:58	1:49				No remnant disc. MN=	"
"	HD 3360 20	B2IV 3.7	α 0 , 34 , 03 δ +53 , 37 , 20 R 306 , 4 , 54.7		SWP 17547 1+11		-.1 .08 9.5	L	O	2:08:58	0:08	9	0	1	R=10, iter=4 MN=	"
"	60% CALUV		α , , δ , , R , ,		SWP 17548 1+12		-.95 .08 9.2			02:46:18	1:49				Final UV TEMP=34 MN=	"
"	NULL		α , , δ , , R , ,		LWR 13824 1+13										MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		L+										MN=	

OBSERVATORY LOG

DATE D 1 M AUG Y 82 RAW TAPE D 1 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/E.S	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 201	HD 90772 40	FØ Ia 4.7	α 10 , 25 , 32.4 δ -57 , 23 , 00 R 24 , 27 , 36.5	L	LWR 13833 1+1	280 FU	-2.0 1.02 14.5	L S	D	18:39:12 18:50:43	03:12 01:00	7 5	0	2	Lap Trail R=0.104 MN=457	FERRO MADORE ec.
"	"	"	α , , δ , " , R , ,	L	SWP 17554 1+2	318 FU	-2.0 .08 8.5	L S	0	19:10:58 19:25:27	05:00 05:00	5 3	0	0	MN=	"
"	HD 16901 45	GØ I 5.4	α 2 , 40 , 49.1 δ +44 , 05 , 09 R 283 . 50 . 34.4	L	LWR 13834 1+3	16846 77 Fo	-1.9 .08 13.8	L	0	20:29:24	04:00	6	0	1	MN=217	"
"	"	"	α , , δ , " , R , ,	L	SWP 17555 1+4	16727 75 Fo	-1.9 .08 8.8	L	0	20:37:55	16:00	2	0	1	MN=	"
"	HD 11544 45	G2 Ia 6.8	α 1 , 51 , 34.8 δ +56 , 20 , 15 R 290 , 58 , 34	L	LWR 13835 1+5	5578 12 Fo	-1.1 .08 13.8	L	0	21:19:30	05:00	3	0	1	MN=545	"
"	"	"	α , , δ , " , R , ,	L	SWP 17556 1+6	5441 34 Fo	-1.1 .08 9.2	L	0	21:47:19	25:00	1	0	0	MN=	"
"	HD 9250 45	GØ I 7.15	α 1 , 29 , 17.8 δ +63 , 20 , 14 R 294 , 47 , 36.9	L	LWR 13836 1+7	4284 11 To	-1.6 .08 13.8	L	0	22:29:35	15:00	3	0	1	MN=505	"
"	"	"	α , , δ , " , R , ,	L	SWP 17557 1+8	4278 17 Fo	-1.6 .08 9.2	L	0	23:12:26	60:00	1	0	1	MN=	"

OBSERVATORY LOG

DATE D 1 M AUG Y 82 RAW TAPE D 1 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/E.S	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 201	HD 223047 45	9 5 I 4.96	α 23 , 43 , 32.9 δ 46 , 08 , 34 R 316 , 32 , 28.3	L	LWR 13837 1+9	22214 75 Fo	-2.3 .08 13.5	L S	0	00:37:42 00:43:57	03:00 03:00	7 5	0	2	MN=475	MADORE/ FERRO ec
"	"	"	α , , δ , " , R , ,	L	SWP 17558 1+10	23020 70 Fo	-1.1 .08 9.5	L S	0	01:06:12 01:30:52	20:00 16:00	8 6	0	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 2 M AUG Y 82 RAW TAPE D 2 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS cat. p. slot undov/E.S	FOCUS IMG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 173	HD 144812 26	Be 8.5	α 16, 6, 18.6 δ -48, 26, 38 R 92, 11, 30	L	LWR 13845 1+1	1510 2 OF	-0.88 0.08 13.5	L	O	184258	15:00	4	0	1	E=152 B=28 C=112 MN= 312	PACHECO CASCATELLA
"	"	"	α , , δ , , R , ,	L	SWP 17566 1+2	1477 3 OF	-1.8 0.08 7.8	L	O	190608	180:00	4	0	2	C=183 B=42 MN=	"
"			α , , δ , , R , ,	L	LWR 13846 1+3	1515 4 OF	0.20 0.08 12.8	L	O	220925	40:00	5	5	2	4 MIN-HR MN=	
"	HD 90177 26	Be 8.4	α 10, 21, 7.2 δ -59, 22, 16 R 22, 13, 30	L	SWP 17567 1+4	1795 7 OF	0.7 0.08 8.5	L	O	23:2527	27:00	3	0	1	C=89 B=17 MN=	
"			α , , δ , , R , ,	L	LWR 13847 1+5	1744 6 OF	-1.4 0.08 13.8	L	O	003345	15:00	7	0	1	Saturated λ ≥ 2620 λ < 3060 4 MIN-HR MN=	
"	"	"	α , , δ , , R , ,	L	SWP 17568 1+6	1765 6 OF	-1.8 0.08 8.5	L	O	005150	31:00	3	0	1	C=108 B=28 MN=	
"	"	"	α , , δ , , R , ,	L	LWR 13848 1+7	1769 3 OF	-1.4 0.08 14.2	L	O	01: 2435	7:00	5	0	2	C=232 B=27 4 MIN-HR MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 3 M AUG Y 82 RAW TAPE D 3 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS cat. p. slot undov/E.S	FOCUS IMG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VILSP	NGC 2100 83	GR. Clust 9.6	α 5, 42, 23 δ -69, 15, 0 R 315 16, 53	H	SWP 17575 1+11	130 50 OF	-1.5 0.08 9.8	L	O	185109	359:00	3	0	4	MN=	CASCATELLA
PHCAL	NULL		α , , δ , , R , ,		LWP 1618 1+1.										RDPREP LoRad MN=	
"	NULL		α , , δ , , R , ,		LWP 1619 1+2										high gain read MN=	
"	60% CALUV		α , , δ , , R , ,		LWP 1620 1+3		-1.56 0.08 9.8			200000	2:04				UVF TEMP = 40 MN= 10	
"	20% CALUV		α , , δ , , R , ,		LWP 1621 1+4		-1.56 0.08 9.8			204431	0:41				UVF TEMP = 36 MN=	
"	120% CALUV		α , , δ , , R , ,		LWP 1622 1+5		-1.59 0.08 10.2			211749	4:08				UVF TEMP = 42 MN=	
"	60% CALUV		α , , δ , , R , ,		LWP 1623 1+6		-1.18 0.08 10.5			215407	2:04				UVF TEMP = 38 mining lines around X=263 MN=	
"	100% TFLOOD		α , , δ , , R , ,		LWP 1624 1+7		-1.18 0.08 10.5			223621	1:40				MN=	

OBSERVATORY LOG

DATE D 3 M AUG Y 82 RAW TAPE D 3 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.S.	FOCUS BKG THDA	APERTURE	NR. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	160% CALUV		α , , δ , , R , ,		LWP 1625 1+8	/	-1.18 0.08 10.5			231940	5:31				MN=	CASSATELLA
"	SECOND READ		α , , δ , , R , ,		LWP 1626 1+9										MN=	
"	NULL		α , , δ , , R , ,		LWP 1627 1+10										HI GAIN READ MN=	
"	NULL		α , , δ , , R , ,		LWP 1628 1+11										LOW GAIN READ MN=	
"	HD60753 21	B3IV 6.7	α 7, 32, 8.1 δ -50, 28, 29 R 339, 24, 2.8	L	LWP 1629 1+13	7156 5 OF	.39 0.08 11.2	L	D	012836	0:06	S	0	1	MN=	
			α , , δ , , R , ,		1+										MN=	
"	NULL		α , , δ , , R , ,		LWR 13852 1+14										ADDED 820813, SINCE IT WAS NOT ENTERED IN RFT. Hulbie MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 4 M AUG Y 82 RAW TAPE D 4 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.S.	FOCUS BKG THDA	APERTURE	NR. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA ϕ80	HD144757 12	O9.5Vc 2.6	α 16, 34, 24 δ -10, 28, 3 R 75, 44, 52	H	SWP 17584 1+1	2481 15 UF	-0.45 0.08 9.2	L	0	185305	0:23	S	0	1	C=776 B=39 MN=	DOLZAN CASSATELLA
"	HD138749 21	B3Vc 4.2	α 15, 30, 55 δ +31, 31, 36 R 70, 48, 0	H	SWP 17585 1+2	249914 535 OF	-1.32 0.08 9.2	L	C	193242	1:45	S	0	1	MN=	
"	1+D164284 20	B2IVe 4.8	α 17, 57, 47 δ +4, 22, 11 R 62, 34, 54	H	SWP 17586 1+3 10	205312 180 OF	-1.36 0.08 9.2	L	0	201722	1:20	S	0	1	MN=	
"	HD200120 20	B3.5Ve 4.7	α 20, 58, 07 δ 47, 19, 30 R 359, 34, 26	H	SWP 17587 1+4	25883 10 OF	-1.40 0.08 9.2	L	0	210233	1:30	S	0	1	MN=	
"	HD5394 20	BϕIIIe 2.6	α 0, 53, 40.3 δ +60, 26, 47 R 304, 50, 20	H	SWP 17588 1+5	3545 / UF	-0.70 0.08 9.2	S	0	214325	0:11	S	0	1	MN=	
EI145	AG DRA 57	Pec	α 16, 1, 24 δ +66, 56, 30 R , ,	L	LWR 13860 1+6	563 3 OF	-1.6 0.08 13.2	L	0	223251	6:00	S	7	1	C=206 B=26 MgII 1 pix out (outside) MN= 221	
	"	"	α , , δ ~, ~, ~ R , ,	L	SWP 17589 1+7	566 0 OF	-1.0 0.08 8.8	L	0	224130 225740	13:00 3:00	S	7	1	CIV 3 pix out HeII 19 pix out C=191 (1800A) HeII 1640 MN=	
	PU VUL 63	Nova like	α 20, 19, 1.1 δ +21, 24, 43 R 14, 14, 12	L	LWR 13861 1+8	1025 0 OF	-1.5 0.08 13.5	L	0	233029	30:00	S	0	1	C=185 B=30 4 MIN HIGH (outside) MN= 771	

OBSERVATORY LOG

DATE D 4 M AUG Y 82 RAW TAPE D 4 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
E I 145	PU VUL 63	Nova eike 10.0	α 20, 19, 1.1 δ +21, 24, 43 R 14, 14, 12	L	SWP 17590 1+9	1022 5 OF	-0.7 0.08 9.2	L	O	000317	103:00	2	O	2	MN=	CASSATELLA
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE 5 AUG 82 RAW TAPE 5 AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE097	NGC 4696 81	4.13	α 12h, 46m, 3s δ -41°, 2', 18" R 54°, 31', 45"7	L	SWP 17601 1+1	59 18 30	-1.1 .48 9.2	L	0	19:51:09	180:00	1	1	2	MN=	H.U. NOORGAARD-NIELSEN A.H.
"	"	"	α , , δ ", ", " R , ,	L	SWP 17602 1+2	/	-1.5 .08 10.2	L	0	23:21:53	43:00	1	1	2	offset 4" WEST MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE2F7	QSO 1331+170 85	~16	α 13h, 31m, 10.1s δ +17°, 4', 24" R 79°, 22', 18.8	L	LWR 1630 1 + 2	6.0	-1.0 .08 8.5	L	0	18:30:28 01:12:32	400:00 30:00	3	0	2	MN=	T. Snijders A.H.
	null		α , , δ , , R , ,		LWR 13883 1 + 1										MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG DATE 7 AUG 82 RAW TAPE 7 AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE257	F10.141-G55 84	~13.9	α 19h, 16m, 57.2s δ -58°, 45', 51" R 142°, 24', 16.5"	L	LWP 1631 1 + 1	45 4 5.0	-1.1 .08 7.8	L	0	19:14:48	50:00	4	5	3	MN=	T. SNIJDERS A.H.
"	"	"	α , , δ , " , R , ,	L	SWP 17622 1 + 2	47 3 5.0	-1.6 .08 9.5	L	0	20:01:21	60:00	2	3	1	MN=	"
"	"	"	α , , δ , " , R , ,	L	LWP 1632 1 + 3	4.6 2 5.0	-1.3 .08 9.8	L	0	21:12:03	50:00	4	5	1	MN=	"
	null		α , , δ , , R , ,		LWR 13889 1 + 4										MN=	"
"	NGC 1068 84	~11	α 2h, 40m, 7.1s δ -0°, 13', 31" R 286°, 31', 55.4"		SWP 17623 1 + 5	6.0	-1.4 .08 9.2	L	0	23:16:35	150:00	2	0	1	offset 12" from nucleus 185° Novec E MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE 8 AUG 82 RAW TAPE 8 AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BRG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
5I094	UZ SER 54	~12·8	α 18,08,33·4 δ −14,56,17 R 81,57,52·4	L	SWP 17633 1+1	118 9 s/o	−1·0 0·34 10·5	L	0	19:02:28	40:00	4	1	1	MN=	M. Ward AWH.
"	"	"	α " , " , " δ " , " , " R " , " , "	"	LWR 13901 1+2	"	−1·4 0·08 14·2	L	0	19:45:56	60:00	4	1	3	4 min htr warm-up. MN= 781	"
"	EM CYG 54	~15	α 19,36,42·0 δ 30,23,34·3 R 29,39,45·5	"	SWP 17634 1+3	B.O.	−1·2 0·08 9·8	L	0	23:33:20	124:00	7	9	1	FES coords of guide: x = 830, Y = −269 (500 f/o) MN= CHK out	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 9 M AUG Y 82 RAW TAPE D 9 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BRG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
5I094	TZ PER 54	13·1	α 02,10,18·5 δ 58,08,52·2 R 292,01,5·8	L	LWR 13907 1+1	100 3 s/o	−1·0 0·08 13·8	L	0	18:32:44	60:00	4	1	3	4 MIN HTR. WARM-UP MN=	Ward AWH.
"	"	"	α " , " , " δ " , " , " R " , " , "	L	SWP 17643 1+1 *	96 4 s/o	−1·9 0·08 9·5	L	0	19:37:54	43:00	3	1	1	MN=	"
"	A H. HER 54	12·8	α 16,42,06·0 δ 25,20,31 R 65,56,47·8	L	SWP 17644 1+2	130 2 s/o.	−1·4 0·08 9·8	L	0	21:31:42	40:00	5	1	1	MN=	"
"	"	"	α " , " , " δ " , " , " R " , " , "	L	LWR 13908 1+3	131 1 s/o	−1·1 0·08 14·2	L	0	22:15:37	40:00	5	1	3	4 MIN HTR WARM-UP MN=	"
"	UZ SER 54	13·1	α 18,08,33·4 δ −14,56,17 R 82,17,25·4	L	SWP 17645 1+5	101 3 s/o.	−1·0 0·08 9·8	L	0	23:43:46	60:00	4	1	1	MN=	"
"	"	"	α " , " , " δ " , " , " R " , " , "	L	LWR 13909 1+6	100 3 s/o	−1·0 0·08 14·2	L	0	00:47:38	55:00	4	1	3	4 MIN HTR. WARM-UP. MN= 793	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

* N.B. This is not an error: raw tape files were not labelled in the correct sequence due to a technical prob.

OBSERVATORY LOG

DATE D 10 M Aug Y 82 RAW TAPE D 10 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION (mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
5I215	UZ SER 54	13·3	α 18 ,08 ,33·4 δ −14 ,56 ,17 R 82 ,30 ,39·5	L	LWR 13917 1+1	80 4 s/o	−1·3 0·08 13·2	L	O	19:13:49	70:00	4	1	3	4 MIN HTR. WARM-UP MN=.815	Ward AWH.
〃	〃	〃	α 〃 , 〃 , 〃 δ 〃 , 〃 , 〃 R 〃 , 〃 , 〃	L	SWP 17652 1+2	74 5 s/o	−1·0 0·08 7·5	L	O	20:28:38	70:00	4	1	1	MN=	〃
〃	AH HER 54	12·4	α 16 ,42 ,06·0 δ 25 ,20 ,31 R 66 ,42 ,28·4	L	SWP 17653 1+2**	181 3 s/o	+0·03 0·08 8·2	L	O	22:36:38	25:00	4	1	0	3rd raw tape MN=	〃
〃	〃	〃	α 〃 , 〃 , 〃 δ 〃 , 〃 , 〃 R 〃 , 〃 , 〃	L	LWR 13918 1+1 *	183 1 s/o	−0·04 0·08 12·8	L	O	23:05:48	25:00	4	1	2	4 MIN HTR. WARM-UP 2nd raw tape MN=	〃
〃	TZ PER 54	13·3	α 02 ,10 ,18·5 δ 58 ,08 ,52·2 R 292 ,50 ,30·8	L	SWP 17654 1+1**	85 1 s/o	−1·8 0·08 7·8	L	O	01:18:53	28:00	3	1	0	3rd raw tape MN=	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

* 2nd raw tape SWP 17653 and LWR 13918 had to be played-back.

OBSERVATORY LOG

DATE D 11 M AUG Y 82 RAW TAPE D 11 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
5I215	UZ SER 54	13.5	α 18 , 08 , 33.4 δ −14 , 56 , 17.3 R 82 , 46 , 51	L	LWR 13922 1+1	66 4 0/s	0.09 0.08 12.5	L	O	18:12:20	60:00	4	0	3	4 MIN-HTR MN=	WARD P.B.
	〃	13.8	α 〃 , 〃 , 〃 δ 〃 , 〃 , 〃 R 〃 , 〃 , 〃	L	SWP 17661 1+2	51 3 0/s	0.10 0.08 8.8	L	O	19:59:36	80:00	3	2	1	MN=	〃
	AH HER 54	12.2	α 16 , 42 , 06 0 δ 25 , 20 , 31 R 67 , 25 , 23.9	L	SWP 17662 1+3	225 5 0/s	−.04 0.08 8.8	L	O	22:14:34	20:00	4	2	1	MN=	〃
	〃	12.2	α 〃 , 〃 , 〃 δ 〃 , 〃 , 〃 R 〃 , 〃 , 〃	L	LWR 13923 1+4	218 5 0/s	−.5 0.08 12.8	L	O	22:38:09	20:00	5	0	2	4 MIN-HTR MN=	〃
	TZ PER 54	13.6	α 2 ,10 , 18.5 δ 58 , 8 , 52 R 293 , 26 , 26.4	L	SWP 17663 1+5	63 3 0/s	−1.2 0.08 8.8	L	O	23:45:45	50:00	3	1	1	MN=	〃
	RU PEG 54	12.6	α 22 , 11 , 36.0 δ 12 , 27 , 12 R 336 , 36 , 37.9	L	LWR 13924 1+6	154 − 0/s	−1.0 0.08 13.2	L	O	01:07:55	15:00	3	2	2	4 MIN-HTR MN=	〃
	〃	〃	α 〃 , 〃 , 〃 δ 〃 , 〃 , 〃 R 〃 , 〃 , 〃	L	SWP 17664 1+	170 − 0/s	−1.5 0.08 8.8	L	O	01:27:46	18:00	3	3	1	MN=	〃
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 12 M AUG Y 82 — RAW TAPE D 12 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 215	AH HER 54	12.3	α 16 , 42 , 6.0 δ 25 , 20 , 31 R 68 , 2 , 50.1	L	SWP 17671 1 + 1	206 2 o/c	-.7 .42 8.8	L	o	18:44:11	20:00	5	2	1	MN= .	WARD / P.B.
	"	"	α " , " , " δ " , " , " R " , " , "	L	LWR 13929 1 + 2	205 2 o/c	-.9 .08 12.5	L	o	19:09:27	20:00	5	0	2	4 MIN HTR MN=	" / "
	UZ SER 54	14.5	α 18 , 08 , 33.4 δ -14 , 56 , 17 R 83 , 07 , 17	L	SWP 17672 1 + 3	27 — o/s	-1.6 .08 9.5	L	o	20:22:17	150:00	3	3	1	MN=	" / "
	"	"	α " , " , " δ " , " , " R " , " , "	L	LWR 13930 1 + 4	30 — o/c	2.9 .008 12.8	L	o	22:36:43	80:00	3	0	1	4 MIN HTR MN=	" / "
	RX AND 54	11.3	α 01 , 01 , 45.9 δ 41 , 01 , 56 R 306 , 21 , 4.7	L	SWP 17673 1 + 5	128 — φ/f	-.04 0.08 9.5	L	o	01:00:11	10:00	4	2	1	MN=	" / "
			α " , " , " δ " , " , " R " , " , "	L	LWR 13931 1 + 6	125 o/f	-.04 0.08 13.8	L	o	01:14:15	10:00	5	0	2	MN=	" / "
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 13 M AUG Y 82 — RAW TAPE D 13 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 215	AH HER 54	12.4	α 16 , 42 , 6 δ 25 , 20 , 31 R 68 , 46 , 10.4	L	LWR 13941 1 + 1	183 2 n/o	-.7 0.36 16.8	L	o	18:35:41	20:00	5	0	3	4 MIN HTR MN= .	ECHEVARRIA / PB
	"		α " , " , " δ " , " , " R " , " , "	L	SWP 17676 1 + 2	179 2- n/o	-.7 0.19 9.2	L	o	18:59:54	22:00	5	2	0	MN=	" / "
	PG 1550+191 63	15.2	α 15 , 50 , 33.1 δ 19 , 05 , 18 R 74 , 29 , 2.7	L	SWP 17677 1 + 3	14 B.O.	-.5 0.08 9.5	L	o	20:11:18	120:00	3	3	1	MN=	" / "
	RX AND 54	11.3	α 01 , 01 , 45.5 δ 41 , 01 , 54 R 306 , 51 , 11	L	SWP 17678 1 + 4	127 2 f/o	-.7 0.08 9.8	L	o	22:59:19	10:00	4	2	1	MN=	" / "
	"	"	α " , " , " δ " , " , " R , ,	L	LWR 13942 1 + 5	125 2 f/o	-.7 0.08 13.5	L	o	23:12:25	10:00	5	0	3	4 MIN HTR MN=	" / "
1116-289	GAMMA BURSTER 64	?	α 16 , 16 , 25.8 δ -28 , 51 , 1 R 247 , 26 , 7.7	L	SWP 17679 1 + 6	B.O.	-.3 0.08 9.5	L	o	00:19:12	88:00	1	1	1	MN=	" / "
this name	is not a	useful	α , , δ , , R , ,		1 +										MN=	
please	use a	coordinate-derived	α , , δ , , R , ,	name	1 +										MN=	

JCBlades

OBSERVATORY LOG

DATE D 14 H AUG Y 82 RAW TAPE D 14 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SI 215	RX AND 54	.11V	α 1 , 1 , 45.9 δ +41 , 1 , 54 R 307 , 18 , 12	L	SWP 17688 1+1	114 5 F/o	-2.4 .5 10.2	L	O	18:34:54	12:00	5	5	0	MN=	ECHEVARRIA JCBlades
"	"	"	α , , δ , , R , ,	L	LWR 13950 1+2	447 3 S/o	-2.3 .54 14.2	L	O	18:52:26	12:00	6	0	2	4-min-htr-warm-up MN=	"
"	AH HER 54	11V	α 16 , 42 , 06.0 δ +25 , 20 , 31 R 69 , 31 , 32.9	L	SWP 17689 1+3	140 2 S/o	-1.1 .08 9.8	L	O	19:50:23	35:00	5	0	0	MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 13951 1+4	141 2 S/o	-0.8 .08 14.2	L	O	20:28:54	35:00	6	0	3	4-min-htr-warm-up MN=	"
"	WX HYI 54	BV	α 2 , 8 , 28.5 δ -63 , 32 , 47 R 257 , 1 , 3.0	L	SWP 17690 1+5	54 7 S/o	-1.3 .08 9.8	L	O	22:00:08	60:00	3	4	0	x = 590 y = -149 guide #1 MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 13952 1+6	45 4 S/o	-1.0 .08 14.5	L	O	23:06:28	60:00	4	5	3	4-min-htr-warm-up MN=	"
"	VW HYI 54	9V	α 4 , 09 , 22.3 δ -71 , 25 , 29 R 282 , 43 , 24.0	L	SWP 17691 1+7	221 2 F/o	-0.3 .08 9.5	L	O	00:35:32	4:00	5	0	0	MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 13953 1+8		-.6 .08 14.5	L	O	01:11:16	4:00	5	0	2	4-min-htr-warm-up MN=	"

OBSERVATORY LOG

DATE D 15 H AUG Y 82 RAW TAPE D 15 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 215	U2 SER 54	16V	α 18 , 08 , 33.37 δ -14 , 56 , 17.3 R 83 , 48 , 37.1	L	SWP 17700 1+1	B/o	-1.7 0.08 9.2	L	O	18:20:10	180:00	3	0	1	FPH = 1.0 at start MN=	ECHEVARRIA JCBlades
"	"	"	α , , δ , , R , ,	L	LWR 13960 1+2	B/o	-0.8 0.08 13.5	L	O	21:25:20	90:00	2	0	3	4-min-htr-warm-up MN=705	"
"	AH HER 54	12V	α 16 , 42 , 06 δ +25 , 20 , 31 R 70 , 21 , 14	L	SWP 17701 1+3	95 3 S/o	-1.5 0.08 8.2	L	O	23:33:12	40:00	5	0	0	low level microphonics affects part of image MN=	"
"	RX AND 54	12V	α 01 , 01 , 45.9 δ +41 , 01 , 54 R 307 , 59 , 42.9	L	SWP 17702 1+4	94 1 F/o	-1.6 0.08 8.8	L	O	00:56:28	15:00	5	0	0	MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 13961 1+5	358 2 S/o	-1.6 0.08 13.5	L	O	01:15:18	15:11	5	0	2	4-min-htr-warm-up MN=799	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 16 M AUG Y 82 RAW TAPE D 16 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f/s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
E=215	KT PER 54	11V	α 01,34,01.5 δ 50,42,05.2 R 303,38,50.5	L	SWP 17712 1+1	139 7 S/O	-2.2 0.5 95	L	O	18:30:15	15:00	4	0	0	bkgd 1.0→0.3 high reflectivity. MN=	ECHEVARRIA JEBlades
"	"	"	α , , δ ,, R , ,	L	LWR 13968 1+2	138 5 S/O	-1.7 0.12 14.2	L	O	18:57:35	20:00	4	0	3	4-min-htr-warm-up MN=763	"
"	RX AND 54	11V	α 01,01,46 δ 41,01,54 R 308,26,17.0	L	SWP 17713 1+3	299 3 S/O	-0.9 .08 9.5	L	O	19:44:38	20:00	5	5	0	MN=	"
"	"	"	α , , δ ,, R , ,	L	LWR 13969 1+4	316 2 S/O	-0.9 .08 14.2	L	O	20:19:12	15:00	5	0	3	4-min-htr-warm-up MN=	"
"	1550+191 63	15.2	α 15,50,33.1 δ 19,05,18 R 76,17,57	L	SWP 17714 1+5	B/O	-0.6 .08 9.5	L	O	21:31:34	256:00	3	4	2	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 17 M AUG Y 82 RAW TAPE D 17 M AUG

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f/s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 068	NGC 6681 83	Glob cl. 6.2	α 18,40,00 δ -32,21,00 R 102,56,47.5	L	LWR 13972 1+2	178 48 FO	-.8 .08 10.5	L	O	18:45:11	90:00	3	0	4	HTR WARM-UP > 4 m MN=	CASTELLANI CALOI PP
"	"	"	α , ", δ , ", R , ",		FES im. 1+1										MN=	"
"	"	"	α , ", δ , ", R ,	L	SWP 17717 1+4	184 80 FO	-2.1 .08 5.1	L	O	20:20:13	327:00	3	0	2	MN=	"
"	SERENDIPITY		α , ", δ , ", R , ",	L	LWR 13973 1+3		-1.3 .08 11.5	L	O	20:50:31	280:00	2	0	7	HTR WARM-UP >4 m MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 18 AUG 82 RAW TAPE 18 AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 232	HD31398 47	K3II 2.9	α 4,53,44.0 δ 33,05,20 R 272 38,10.1	L	SWP 17719 1+1	1770 FU	6.5	L	O	17:11:44	465:00	5	7	2	started at GSFC MN=	BROWN PP
"	HD150788 47	K4II 1.9	α 16,43,21.0 δ -68,56,20 R 97,38,55.7	H	LWR 13979 1+	3649 577 FU	-1.1 .08 12.2	L	O	01:41:02	240:00				read at GSFC MN=	" 4
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG DATE 19 AUG 82 RAW TAPE 19 AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 232	HD186791 47	K3III 2.8	α 19,43,52.9 δ 10,29,24 R 54,34,32.0	L	SWP 17721 1+	2131 536 FU	-3.3 .08 8.8	L	O	17:36:29	510:00				MN=	BROWN PP
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 20 M AUG Y 82 RAW TAPE D 20 M AUG

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESEL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 232	HD 39801 49	H2 IAb 0.8	α 5, 52, 27.8 δ -7, 23, 58 R 280.14, 41.3	H	SWP 17725 1+1	12792 5940 FU	-1.8 .08 8.8	S	C	18:53:38	370:00	1	3	2	MN=	BROWN PP
"	WAVCAL		α , , δ , , R , ,	H	SWP 17726 1+2		-.7 .08 11.2	S	C	01:41:03					WAVCAL MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 21 M AUG Y 82 RAW TAPE D 21 M AUG

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESEL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PM CAL	BD+28 4211 16	Op 10.53	α 21, 48, 56 δ 28, 37, 35 R 4, 14, 42.6	L	LWP 1640 1+1	252 1 FO	-2.2 .08 7.8	L	O	18:50:09	0:50	5	0	2	THDA TEST MN=	PATRIARCHI PP
"	UV CAL 60%		α , , δ , , R , ,		LWP 1641 1+2		.08 8.5			19:31:40	02:04			9	FINAL UVF TEMP=40 THDA TEST MN=	" "
"	BD+28 4211 16	Op 10.53	α , , δ , , R , ,	L	LWP 1642 1+3	274 1 FO	-1.9 .08 9.8	L	O	20:32:53	0:50	5	0	2	THDA TEST MN=	" "
"	UV CAL 60%		α , , δ , , R , ,		LWP 1643 1+4		.08 10.8			21:13:47	02:04			9	FINAL UVF TEMP= =38 THDA TEST MN=	" "
"	BD+28 4211 16	Op 10.53	α , , δ , , R , ,	L	LWP 1644 1+5	253 1 FO	-2.5 .08 11.5	L	O	21:48:24	0:50	5	0	2	THDA TEST MN=	" "
"	UV CAL 60%		α , , δ , , R , ,		LWP 1645 1+6		.08 12.5			22:29:08	02:04			9	FINAL UVF TEMP=39 THDA TEST MN=	" "
"	NULL IMAGE		α , , δ , , R , ,		LWR 13995 1+7										SAFETY READ MN=	" "
"	UV CAL 60%		α , , δ , , R , ,		SWP 17734 1+8		.08 12.8			23:21:32	01:49			5	TEST SPREP ON OVEREXP. FINAL UVF TEMP= 35 MN=	" "

OBSERVATORY LOG — DATE: D 21 M AUG Y 82 — RAW TAPE: D 21 M AUG

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG / THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PH. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	HD 3360 20	B2IV 3.68	α 0,34,10 δ 53,37,20 R 320.47,49.6	L	SWP 17735 1+9	984 171 FU	-.7 .08 12.2	L	O	23:54:16	00:08	49	0	0	TEST SPREP TRAILED 10 ARCSEC/SEC ITER=4 MN=	PATRIARCHI PP
〃	UV CAL 60%		α , , δ , , R , ,		SWP 17736 1+10		.08 11.8			00:30:26	01:48			S	TEST SPREP FINAL UVFTEMP=35 MN=	〃 〃
〃	UV CAL 60%		α , , δ , , R , ,		SWP 17737 1+11		.08 11.5			00:56:42	01:48			S	TEST SPREP FINAL UVFTEMP=35 MN=	〃 〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE: D 22 M Aug Y 82 — RAW TAPE: D 22 M Aug

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG / THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PH. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE 250	CAL UV 40%		α , , δ , , R , ,		LWP 1648 1+1		.08 .08 6.1			19/19/57	1:25	4			OM = 61 MN=	Soudhalekar WW.
〃	Q 1442+10 85	17	α 14,42,50 δ 10,11,13 R 81,41,16	L	LWP 1+	B/O	-.7 .08 6.8	L	O	20/08/57	400/2				MN=	〃 〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		H/O 1+	EXPOSing									MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 23 M Aug Y 82 RAW TAPE D 23 M Aug

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 250	CAL 4V 40%		α , , δ , , R , ,		LWP 1646 1+1		-1.5 .08 8.2			18/19/53	01:22				60 DN. MN=	Goudhalekar W.W.
"	Q0043+008 85	15.0	α 0, 43, 39.5 δ 0, 48, 04 R 288, 59, 17	L	LWP 1647 1+	B/O	-2.5 .08 9.8	L	O	20/02/53	400:00	2	1	9	MN=	
			α , , δ , , R , ,		1	H/O	exposing								MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 24 M AUG Y 82 RAW TAPE D 24 M AUG

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 250	~~Q0043+01~~ ~~85~~ UV 40	~~Q50~~	α NAVIGATING δ , , R , ,	L	SWP 17762 1+1	~~B.O.~~	-.56 0.8 9.5	L	O	18:26:13	1:24	0	0	4	no trace of residual image MN=	P. Goudhalekar JB
"	Q50 0043+01 85	Q50- 16.9	α 0, 43, 39.5 δ 0, 48, 04 R 288, 42, 28.2	L	SWP 17763 1+	B.O.	-1.0 .08 9.8	L	O	19:17:45 +	40:00 330:00	2	0	9	image read at GSFC MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE: D M Y 25 AUG 82 — RAW TAPE: D M 25 AUG

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GLOBC	NGC 1987 83	12.08	α 05, 27, 54 δ -70, 47, 00 R 290, 40, 3.6	L	LWR 14011 1 + 1	71 6 50	-1.4 .08 12.2	L	O	18:38:43	425:00	3	0	9	GDE(378, 534 490 FO) HARBIN 30 4 MIN HTR MN=	CACCIARI ec
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: D M Y 26 AGO 82 — RAW TAPE: D M 26 AGO

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 069	CD -44° 3318 40	FØ 10	α 7, 17, 56.2 δ -44, 29, 54 R 311, 35, 42.1	L	SWP 17779 1 + 1	256 Ø F.O.	-1.4 .08 9.5	L	O	18:36:31	60:00	3	4	1	MN=	TJIN A DJIE / HB
"	BD -5 1305 30	XØ 8.0	α 5, 32, 20 δ -5, 36, 12 R 282, 45, 16.3	H	LWR 14015 1 + 2	2216 20 F.O.	-1.4 .08 3.5	L	O	20:09:32	150:00	5	0	4	4 MIN-WARM.UP MN= 720	"
"	HD 144668 33	A7 7.6	α 16, 05, 12.8 δ -38, 58, 23 R 79, 39, 8.3	L	SWP 17780 1 + 3	3319 12 F.O.	-1.4 .08 7.8	L	O	23:28:37	30:00	7	3	1	MN=	"
"	"	"	α , , δ ", ", " R , ,	H	LWR 14016 1 +	3324 12 F.O.	-1.1 .08 13.5	L	O	00:01:49	100:00	4	5	4	4 MIN-HTR MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 27 M AUG Y 82 RAW TAPE D 27 M AUG

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG. THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PIX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA069	CO 44 3318 40	FØ 10	α 7, 17, 56.2 δ -44, 29, 54 R 310, 25, 3.0	L	LWR 14023 1+1	282 1 F.O.	-1.9 .08 13.5	L	O	18:22:20	90:00	7	0	4	4 MIN - HTR MN= 724	TJIN A DJIE
"	"	"	α , , δ " , " , " R , ,	L	SWP 17788 1+3	284 3 F.O.	-1.2 .08 9.2	L	O	1955:31	110:00	5	5	1	MN=	"
	NULL		α , , δ , , R , ,		LWR 14024 1+2							0	0	1	no residual of previous OVXP. MN= 405	
"	"	"	α , , δ " , " , " R , ,	L	LWR 14025 1+4	288 4 F.O.	-1.0 .08 14.5	L	O	21:49:11	15:00	3	4	2	4 MIN - HTR MN=	"
"	HD 144668 33	A7 7.6	α 16, 15, 12.8 δ -38, 58, 23 R 79, 21, 52.	L	SWP 17789 1+5	3182 9 F.O.	-.9 .08 10.2	L	O	22:37:41	30:00	7	3	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	H	LWR 14026 1+6	3214 11 F.O.	-1.1 .08 14.8	L	O	23:12:31	100:00	4	5	4	4 MIN - HTR MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 17790 1+7	3180 5 F.O.	-1.5 .08 9.8	L	O	00:55:53	12:00	5	1	4	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 14027 1+8	3171 19 F.O.	-.75 .08 15.5	L	O	01:31:49	8:00	7	4	2	4 MIN - HTR MN= 887	"

OBSERVATORY LOG

DATE D 28 M AUG Y 82 RAW TAPE D 28 M AUG

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG. THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PIX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ES284	COMET BOWELL 6	COMET 12	α 18, 04, 47 δ -23, 8, 23 R 90, 19, 49	L	SWP 17795 1+1	B.O.	.7 .08 8.8	L	O	19:12:21	10:00	1	2	1	MN=	WALLIS
"	COMET D'ARREST COMET		α , , δ , , R , ,	L	LWR 14038 1+			L	O						MN=	"
"	"	"	α " , " , " δ " , " , " R 90, 20, 21.7	L	SWP 17796 1+2	B.O.	-1.3 .08 10.2	L	O	00:36:47	10:00	1	2	1	MN=	"
			α , , δ " , " , " R , ,	L	LWR 14039 1+3	B.O	-.89 .08 13.8	L	O	00:53:28	50:00	1	1	3	4 MIN - HTR MN= 281	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 29 M Aug Y 82 RAW TAPE D 29 M Aug

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 271	AK Sco 58	9 F5	α 16, 51, 23 δ −36, 48, 27 R 85, 35, 52	L	LWR 14048 1+1	957 4158 F.O.	−1.1 .08 14.2	L 3	O O	18/29/04 18/44/13	12/00 12/00	4 3	5 3	2 2	4 MIN-HTR MN=	Johnstone WW.
〃	〃	〃	α , , δ 〃 , 〃 , 〃 R , ,	L	SWP 17804 1+2	962 0 F.O	−1.2 .08 8.2	L	O	19/02/22	170/0	3	4	1	MN=	〃 〃
〃	Ex Lep 〃	12.5 carb +Bm.	α 15, 59, 42 δ −40, 10, 11 R 77, 54, 52	L	LWR 14049 1+3	78 3 S.O.	−1.5 .08 13.2	L	O	22/16/00	30/0	2	3	2	4 MIN-HTR MN=	〃 〃
〃	〃	〃	α , , δ 〃 , 〃 , 〃 R , ,		SWP 17805 1+4	67 7 S.O	.2 .08 8.8			22/51/56	175/00	2	3	1	MN=	〃 〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 30 M AUG Y 82 RAW TAPE D 30 M AUG

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC271	IU ORI 58	K2 III 9.16	α 5, 32, 7.7 δ −5, 43, 33 R280, 48, 27.4	L	LWR 14060 1+1	679 2 F.O.	−1.5 .08 14.5	L	O	18:43:04	30:00	3	0	3	4 MIN-HTR MN= 805	PENSION. CAGO LR
〃	〃	〃	α , , δ 〃 , 〃 , 〃 R , ,	L	SWP 17813 1+2	676 3 F.O.	−1.8 .08 10.2	L	O	18:16:27	150:00	3	0	2	SPECTRUM MOSTLY NEBULAR MN=	〃
〃	TT 2441 58	F5e 10.8	α 5, 34, 22.7 δ −4, 27, 27 R280, 29, 42.8	L	LWR 14061 1+3	157 2 F.O.	−1.5 .08 14.5	L	O	22:27:39	30:00	3	5	2	4 MIN-HTR MN=	〃
〃	〃	〃	α , , δ 〃 , 〃 , 〃 R , ,	L	SWP 17814 1+4	155 9 F.O.	−2.1 .08 10.8	L	O	23:03:20	165:00	2	2	2	MN=	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 31 M AUG Y 82 RAW TAPE D 31 M AUG

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE239	HD269696 16	sdO 11.2	α 5,32,8.1 δ -69,55,07 R 285,54,28.6	H	LWP 1660 1+2	146 4 F.O.	-1.4 .08 9.2	L	O	18:30:58	85:00	4	0	3	MN=	LYNAS-GRAY HB
"	"	" 11.5	α " δ " R "	L	SWP 17820 1+1	137 2/3 F.O	-.54 .08 8.8	L	O	20:03:11 20:10:21	1:15 1:30	4 5	0	1	REF. POINTS 2,-212 AND -34,-204 MN=	"
"	"	" 11.2	α " δ " R "	H	SWP 17821 1+3	142 4 F.O.	-.9 .08 8.8	L	O	20:49:07	100:00	5	0	1	MN=	"
"	"	"	α " δ " R "	L	LWP 1661 1+4	147 3 F.O.	-.45 .08 9.2	L	O	22:32:52	2:00	5	0	2	MN=	"
"	"	"	α " δ " R "	H	SWP 17822 1+6	149 3 F.O	-.45 .08 9.8	L	O	22:59:44	100:00	5	0	2	MN=	"
	NULL		α δ R		LWR 14071 1+5									0	MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 1 M SEPT Y 82 RAW TAPE D 1 M SEPT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SS 190	IO TORUS 04		α 14,15,06 δ -12,30,37.4 R 71,18,46.7	L	SWP 17829 1+	B-O.	.08 11.2	L	O	17:52:14	87:38	4	5	9	OBS. OF IO TORUS. READ AT GSFC. MN=	BERTAUX / AWH.
			α δ R		READ AT GSFC 1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG 1ST sheet of 2

DATE D M Y: 2 SEPT 82 — RAW TAPE D M: 2 SEPT

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
5A166	HD 142983 24	B3IIIpe 4.8	α15 , 55 , 23.1 δ-14 , 08 , 12 R79 , 05 , 30.8	H	LWR 14075 1 + 1	26464 — f/0.	0.16 1.84 13.2	S	S	16:04:30	6:30	5	1	3	4 MIN. HTR. WARM-UP. MN=	HUBERT - DELPLACE / AWH.
SAFETY READ			α , , δ , , R , ,		SWR 1173 1 + 2	"	— —			16:29:00					AVG DN = 150 SAFETY READ TFDC=20.1 MN=	"
5A166	HD 142983 24	B3IIIpe 4.8	α15 , 55 , 23.1 δ-14 , 08 , 12 R79 , 05 , 30.8	H	SWP 17839 1 + 3	26345 — f/0.	-1.6 0.3 9.8	S	S	17:12:06	4:30	4	1	0	MN=	"
"	HD 184279 26	B0 6.9	α19 , 31 , 7.2 δ+3 , 39 , 8 R76 , 12 , 29.9	H	LWR 14076 1 + 4	5455 25 f/0	-1.3 0.08 13.5	L	O	17:51:35	20:00	6	1	2	4 MIN HTR WARM-UP MN=	"
"	" "	" "	α " , " , " δ " , " , " R " , " , "	H	SWP 17840 1 + 5	5412 19 f/0	-1.0 0.08 9.5	L	O	18:22:45	26:00	5	1	1	MN=	"
"	HD 218393 26	B2III 6.8	α23 , 04 , 51.0 δ+49 , 55 , 18 R354 , 01 , 34.7	H	SWP 17841 1 + 6	4812 10 f/0	-0.4 0.08 9.8	L	O	19:46:41	80:00	5	1	1	MN=	"
"	" "	" "	α " , " , " δ " , " , " R " , " , "	"	LWR 14077 1 + 7	4856 17 f/0.	-0.6 0.08 13.2	L	O	21:09:52	70:00	6	1	3	4 MIN HTR WARM-UP MN=	"
"	HD 37202 26	B2IIIpe 2.8	α5 , 34 , 39.3 δ+21 , 06 , 50 R273 , 04 , 59.3	H	SWP 17842 1 + 8	1877 — f/0	-1.4 0.08 8.8	S	S	23:12:17	0:40	6	1	1	MN=	"

OBSERVATORY LOG 2nd sheet of 2

DATE D M Y: 2 SEPT 82 — RAW TAPE D M: 2 SEPT

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
5A166	HD 37202 26	B2IIIpe 2.8	α5 , 34 , 39.3 δ+21 , 06 , 50 R273 , 04 , 59.3	H	LWR 14078 1 + 9	1901 — f/0	-1.4 0.08 13.8	S	S	23:15:55	0:50	7	1	2	NO WARM-UP — NO MIC. MN=	HUBERT / AWH.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 3 M SEPT Y 82 RAH TAPE D 3 M SEPT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESEL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS / BKG / THDA	APERTURE	NP. SEQT.	G.M.T. hh:mm:ss	DURATION mmss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SC146	HD 214952 49	M3II 2.2	α 22,39,41.4 δ -47,08,48 R 177,10,35.9	H	SWP 17847 1+		-1.1 0.08 8.2	L	0	16:03:46	975/a	2	6	9	EXP. STARTED AND READ AT GSFC MN=	ENGVOLD / AWH
		STARTED AND READ-DOWN AT GSFC	α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 4 M SEP Y 82 RAH TAPE D 4 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESEL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS / BKG / THDA	APERTURE	NP. SEQT.	G.M.T. hh:mm:ss	DURATION mmss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 146	HD 78647 47	K5 I 2.3	α 9,6,9.0 δ -43,13,48.0 R 328,5,45.0	H	SWP 17849 1+	4.8	1.6 .08 7.2	L	0	15:30:22 22:53:15 total	440:00 440:00 976:00	2	6	9	EXP. STARTED AND READ AT GSFC MN=	ENGVOLD / JENSEN et
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 5 M SEP Y 82 RAW TAPE D 5 M SEP

Raw Tapes #1 and #2

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI060	3A0729+103 59	14.5	α 7 , 28 , 44.4 δ 10 , 02 , 46 R 270 , 49 , 8.5	L	SWP 17853 1+1	B/0	-.9 ,08 8.5	L	0	17:00:02	50:00	3	0	1	GDE(-1650,-305 1328 Fo B=23 C=25 MN=	HOUCHET ec
〃	〃	〃	α , , δ , 〃 , R , ,	L	LWR 14094 1+2	〃	-2.1 ,08 12:8	L	0	17:54:33	25:00	3	0	2	GDE(117,-861 233 Fo) 4-MIN-HTR MN=	〃
〃	401849-31 69	13.2	α 18 , 51 , 49.0 δ -31 , 13 , 39.2 R 99 , 41 , 48.2	L	SWP 17854 1+3	66 3 SO	-1.6 ,08 8.8	L	0	19:20:01	40:00	3	4	1	GDE(-945,-665 1462 Fo) MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	L	LWR 14095 1+4	74 8 SO	-.8 ,08 13.2	L	0	20:04:09	50:00	4	5	3	GDE(-1144,-520 1488 Fo) 4-MIN-HTR MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	L	SWP 17855 1+5	78 5 SO	-1.1 ,08 8.8	L	0	20:57:34	50:00	3	5	1	GDE(-945,-661 1467 Fo) MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	L	LWR 14096 1+6	76 6 SO	-1.6 ,08 13.8	L	0	21:51:13	55:00	5	5	3	GDE(-1146,-524 1487 Fo) 4-MIN-HTR MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	L	SWP 17856 1+1 #2	63 5 SO	-2.2 .08 8.8	L	0	22:49:54	57:00	3	5	1	GDE(-946,-658, 1484 Fo) MN=	〃
			α , , δ , , R , ,		1+	65 SO				23:49					↓INT. FES counts MN=	

OBSERVATORY LOG

DATE D 6 M SEP Y 82 RAW TAPE D 6 M SEP

Raw Tapes #1 and #2

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI273	HD 168206 10	WC+O 9.4	α 18 , 16 , 19.8 δ -11 , 39 , 16 R 87 , 14 , 24.7	L	SWP 17857 1+1	734 7 FO	-.7 ,08 7.8	L	0	16:14:56	20:00	4	5	1	GDE(1053,-714 159 Fo) MN=	STICKLAND ec
〃	〃	〃	α , , δ , , R , ,	L	LWR 14101 1+2	715 6 FO	-1.1 ,08 14:8	L	0	16:37:56	08:00	5	0	2	GDE(852,-573 183 Fo) 4 MN-HTR MN= 764	〃
〃	HD 149757 12	O9.5V 2.6	α 16 , 34 , 24.1 δ -10 , 28 , 03 R 82 , 25 , 59.4	H	SWP 17858 1+3	2404 435 FU	-1.1 ,08 8.5	L	0	17:32:35	00:25	5	0	1	MN=	〃
〃	HD 5394 20	BoIV 2.6	α 00 , 53 , 40.3 δ +60 , 26 , 47 R 329 , 33 , 53.2	H	SWP 17859 1+4	3513 793 FU	-1.3 ,08 8.5	L	0	18:11:48	00:08	5	0	1	MN=	〃
〃	HD 36861 12	O8 3.8	α 05 , 32 , 22.9 δ +09 , 54 , 08 R 275 , 4 , 2.2	H	SWP 17860 1+2#2	1322 152 FU	-.9 ,08 8.8	L	0	18:45:32	00:30				Played back RAW ARCHIVE 06 SEP #2 FA MN=	〃
〃	HD 45166 10	WR 10.0	α 06 , 23 , 36 δ 8 , 00 , 18 R 273 , 51 , 22.4	L	SWP 17861 1+7	408 3 FO	-1.6 ,08 9.2	L	0	19:41:40	02:00	5	5	1	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	L	LWR 14102 1+6	405 2 FO	-1.5 ,08 13.8	L	0	~~19:46:38~~ 20:00:23	01:50	5	0	2	4-MIN-HTR RTOAPER not executed First 1:50 exposure on sky MN= 704	〃
	HD 82901 51	H ~9	α 09 , 30 , 59.2 δ 62 , 34 , 01 R 336 , 49 , 35.5	H	LWR 14103 1+8	4111 8 FO	-1.0 ,08 14.2	L	0	20:55:32	60:00	1	3	2	GDE(-590,-426 305 SO) 4-MIN-HTR MN= 865	〃

OBSERVATORY LOG

DATE D 6 H SEP Y 82 RAW TAPE D 6 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 273	RZ GRU 54	3w. blue 12.5	α 22 , 44 , 12.0 δ -43 , 00 , 00 R 173 , 43 , 42.3	L	SWP 17862 1+9	133 3 SO	-1.6 .08 9.2	L	O	22:32:03	40:00	4	4	1	GDE(-1243,-278 180 SO) MN=	STICKLAND ee
"	"	"	α , , δ , " , R , ,	L	LWR 14104 1+10	128 3 SO	-1.2 .08 14.8	L	O	23:16:14	28:00				GDE(-1447,-147 149 SO) 4 min ave MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 7 H SEP Y 82 RAW TAPE D 7 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA 115	HD 217712 36	λ Boo 5.1	α 23h , 0m , 17.7 δ 41° , 29' , 19.0 R -0° , 13' , 14.2	L	LWR 14111 1+1	22502 220/1 FO	-3.0 .48 14.5	S L	0	16:15:24 16:18:46	00:18 00:20	5 7	0 0	2	4 min w.up. MN= 843	WEHRLE -HECK A.H.
"	"	"	α , , δ , , R , ,	L	SWP 17868 1+2	22047 70/1 FO	-2.7 .54 9.5	S L	0	16:22:00 16:25:17	00:44 01:30	5 7	0	1	MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 14112 1+3	22000 69 8.0	-1.3 .08 14.8	L	0	16:51:51	15:00	5	0	3	4 min w.up. MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 17869 1+4	22000 72 8.0	-0.5 .08 9.5	L	0	17:07:50	22:00	5	0	0	MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 14113 1+5	22000 91 8.0	-1.2 .08 14.8	L	0	17:05:11	17:00	7	0	3	4 min w.up. MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 17870 1+6	21821 72 8.0	-1.5 .08 9.8	L	0	18:42:40	35:00	5	0	1	MN=	"
"	HD 125162 36	λ Boo 4.3	α 14h , 14m , 22.9 δ +46° , 19' , 1" R 118° , 51' , 11.4	L	SWP 17871 1+7	527 2.1/26 8.0	-1.2 .08 10.2	S L	0 0	19:56:05 19:59:06	0:15 0:25	2 7	0	0	MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 14114 1+9	504 182/29 8.0	-1.2 .08 14.5	S L	0 0	20:02:06 20:05:08	0:06 0:09	4 7	0	2	4 min w.up. MN=	"

OBSERVATORY LOG

DATE D 7 M SEP Y 82 RAW TAPE D 7 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA115	HD 125162 36	λ Boo 4.3	α 14ʰ, 14ᵐ, 28ˢ.9 δ +46°, 14', 1" R 118°, 51', 11".4	L	SWP 17872 1 + 8	498 153/112 f.u.	-0.5 .08 10.2	S L	0	20:34:13 20:37:18	0:30 0:10	7 5	0	0	450 fx sat. MN=	WEHRSE - HECK A.H.
"	"	"	α , , δ , " , R , ,	H	SWP 17873 1 + 11	508 97 f.u.	-1.5 .08 10.2	L	0	21:04:52	10:00	5	0	1	MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 14115 1 + 10	511 77/155 f.u.	-1.4 .08 14.5	L S	0 0	21:29:33 21:42:36	0:05 0:14	6 7	0	2	20 fx sat. 4 min. w.up. MN=	"
"	"	"	α , , δ , " , R , ,	H	LWR 14116 1 + 12	49.6 94 f.u.	-1.4 .08 14.5	L	0	22:13:28	6:00	7	0	2	4 min. w.up. MN=	"
"	"	"	α , , δ , " , R , ,	H	SWP 17874 1 + 13	50.2 66 f.u.	-1.4 .08 9.8	L	0	22:48:00	25:00	7	0	1	MN=	"
"	"	"	α , , δ , " , R , ,	H	LWR 14117 1 + 14	49.6 74 f.u.	-2.1 .08 14.5	L	0	23:21:17	4:00	5	0	2	4 min w.up. MN= 875	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 8 M SEP Y 82 RAW TAPE D 8 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA115	HD 31295 36	λ Boo 4.7	α 4ʰ, 52ᵐ, 8ˢ.3 δ 10°, 4', 22" R 276°, 19', 37".4	L	SWP 17883 1 + 1	332 101/64 f.u.	-1.2 .80 9.2	S L	0 0	16:46:33 16:49:28	0:24 0:30	3 7	0 0	0	MN=	WEHRSE - HECK A.H.
"	"	"	α , , δ , " , R , ,	L	LWR 14124 1 + 3	330 116/33 f.u.	-1.1 .64 13.5	S L	0 0	16:52:25 16:55:17	0:10 0:10	5 7	0 0	2	4 min w.up MN= 761	"
"	"	"	α , , δ , " , R , ,	L	SWP 17884 1 + 2	374 124/89 f.u.	-1.2 .18 9.2	S L	0 0	17:20:30 17:21:43	0:40 0:12	5 5	0 0	0	MN=	"
"	"	"	α , , δ , " , R , ,	H	SWP 17885 1 + 4	332 56 f.u.	-1.1 .08 9.5	L	0	17:49:19	18:00	5	0	0	MN=	"
"	"	"	α , , δ , " , R , ,	H	LWR 14125 1 + 5	332 68 f.u.	-1.1 .08 13.8	L	0	18:21:40	7:00	5	0	2	4 min w.up. MN=	"
"	"	"	α , , δ , " , R , ,	H	SWP 17886 1 + 6	334 52 f.u.	-0.7 .08 9.5	L	0	18:49:49	25:00	7	0	0	MN=	"
"	HD 192640 36	λ Boo 4.9	α 20ʰ, 12ᵐ, 33ˢ.5 δ +36°, 39', 6" R 53°, 6', 52".9	L	SWP 17887 1 + 7	24578 1771/86 f.o.	-1.6 .08 9.8	S L	0 0	20:08:59 20:13:14	1:40 0:23	7 5	0 0	0	MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 14126 1 + 14	23866 1752/44 f.o.	-1.6 .08 13.8	S L	0 0	20:16:08 20:19:13	0:14 0:15	5 7	0 0	2	1 px sat. 4 min w.up. [illegible] MN=	"

OBSERVATORY LOG

DATE D 8 M SEP Y 82 RAW TAPE D 8 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SELT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 115	HD 192640 36	λ Boo 4.9	α 20h, 12m, 19.5 δ +36°, 39', 6" R 53°, 6', 52.9	H	SWP 17888 1+9	23935 85 f.o.	-2.9 .08 9.8	L	0	20:47:00	22:00	5	0	0	3 pix sat. MN=	WEHRSE — HECK A.H.
"	"	"	"	H	LWR 14127 1+11	24461 64 f.o.	-1.2 .08 14.2	L	0	21:22:26	10:00	5	0	2	MN= .552	"
"	HD 184728 36	λ Boo 5.2	α 19h, 53m, 52.0 δ +11°, 17', 22" R 72, 53, 42.8	L	SWP 17889 1+10	21446 1140/64 f.o.	-0.5 .08 9.8	S L	0 0	22:01:08 22:04:50	1:10 0:16	7 5	0 0	0	MN=	"
"	"	"	"	H	SWP 17890 1+12	20000 76 f.o.	-0.7 .08 9.8	L	0	22:29:52	18:00	5	0	1	MN=	"
"	"	"	"	L	LWR 14128 1+13	19918 1302/46 f.o.	-1.1 .08 14.2	S L	0 0	22:58:31 22:59:24	0:16 0:16	5 7	0 0	2	4 min w.up. MN= 891	"
					1+										MN=	
					1+										MN=	
					1+										MN=	

OBSERVATORY LOG

DATE D 9 M SEP Y 82 RAW TAPE D 9 M SEP

9 SEP-2

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SELT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 273	HD 168206 10	WC 9.4	α 18, 16, 19.8 δ -11, 39, 16 R 87, 54, 12.8	L	SWP 17898 1+1	732 2 FO.	-.9 .22 8.5	L	0	16:36:19	20:00	5	5	0	MN=	STICKLAND PP
"	"	"	"	L	LWR 14134 1+1	722 23 FO	-.4 .08 (8.5)	L ?	0 13.2 AT	17:07:32	8:00 H/O	6	0	2	HIR WARM-UP 4 min IMAGE ON TAPE 9 SEP-2 MN= .771	"
"	HD 149757 12	O9.5 V 2.6	α 16, 34, 24.1 δ -10, 28, 3 R 83, 1, 3.4	H	SWP 17899 1+2	2565 374 FU	-.1 .08 8.5	L	0	12:47:53	0:36	5	0	1	MN=	"
"	HD 5394 20	B0IVe 2.6	α 0, 53, 40.3 δ 60, 26, 47 R 332 3, 40.6	H	SWP 17900 1+4	3425 833 FU	-1.2 .08 8.8	L	0	18:31:54	0:08	5	0	1	MN=	"
"	HD 36861 12	O8 3.8	α 5, 32, 22.9 δ 9, 54, 8 R 374, 22, 38.4	H	SWP 17901 1+2	1438 307 FU	-1.2 .08 8.8	L	0	19:07:06	0:25	7	0	1	IMAGE ON TAPE 9 SEP-2 MN=	"
"	HD 88366 51	Van M -8	α 10, 7, 46.2 δ -61, 18, 14 R 343, 19, 58.8	H	LWR 14135 1+3	3678 18 FO	-.8 .08 13.2	L	0	19:44:34	100:00	1	0	4	HYR WARM-UP 24 min IMAGE ON TAPE 9 SEP-2 MN=	NO SPECTRUM
"	RZ GRU 54	Du Mon 12.5	α 22, 44, 12 δ -43, 0, 0 R 169, 33, 18.7	L	SWP 17902 1+4	135 3 SO	-1.8 .08 8.5	L	0	22:05:03	35:00	5	0	0	IMAGE ON TAPE 9 SEP-2 MN=	"
"	"	"	α , , , δ , , , R , , ,	L	LWR 14136 1+5	147 1 SO	-2.3 .08 14.2	L	0	22:53:53	30:00	5	0	3	IMAGE ON TAPE 9 SEP-2 HIR WARM-UP MN=	"

OBSERVATORY LOG

DATE: D 10 M SEP Y 82 RAW TAPE: D 10 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	FOCUS	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot undov/E.s	FOCUS / BKG. / THDA	APERTURE	AP. SHIFT	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EAØ35	KS 292 16	sdO 11.3	α 09, 18, 19.9 δ -45, 19, 07 R 325, Ø6, 41.9	L	SWP 17910 1+1	114 1 F/O	-1.8 .08 7.8	L	O	16:41:40	1:30	6	Ø	Ø	MN=	HEBER JCB
"	"	"	α , , δ , , R , ,	L	LWR 14141 1+2	114 8 F/O	-1.9 .08 12.5	L	O	16 47:09	2:00	5	Ø	2	4-min-hter-wm-up MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 17911 1+3	122 6 F/O	-1.3 .08 7.8	L	O	17:15:49	125:00	5	Ø	2	MN=	"
"	SB 939 16	sdO 10.3	α 23, 57, 46 δ -39, 4Ø, 39 R 199, 1, 31	L	LWR 14142 1+4	300 3 F/O	-0.4 .08 12.5	L	O	20:18:42	2:00	5	Ø	2	4-min-hter-wm-up MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 17912 1+5	298 2 P/O	-1.3 .08 8.8	L	O	20:49:40	3:00	5	Ø	Ø	MN=	"
"	LB 1559 28	sdB	α 0, 29, 18 δ -47, 41, 0 R 206, 52, 53	L	LWR 14143 1+6	179 1 S/O	-.7 .08 12.8	L	O	21:24:28	8:00	5	Ø	2	4-min-hter-wm-up MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 17913 1+7	184 2 S/O	0.4 .08 8.5	L	O	21:45:24	8:00	5	Ø	Ø	MN=	"
"	SB 459 28	sdB	α 01, 06, 04.6 δ -32, 59, 32 R 229, 8, 555	L	LWR 14144 1+8	203 2 S/O	0.6 .08 12.8	L	O	22:49:55	8:00	5	Ø	2	4-min-hter-wm-up MN=807	"

OBSERVATORY LOG

DATE: D 11 M SEP Y 82 RAW TAPE: D 11 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	FOCUS	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot undov/E.s	FOCUS / BKG. / THDA	APERTURE	AP. SHIFT	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA008	NGC 6210 70	P.N. 9.7	α 16h, 42m, 23.7s δ +23°, 58', 29" R 89°, 7', 15.5"	L	SWP 17921 1+1	517 19 f.o.	-1.1 .24 7.2	L	0	17:00:16	6:00	4	5	0	MN=	U. HEBER A.H.
"	"	"	α , , δ , " , R , ,	H	LWR 14149 1+2	513 12 f.o.	-0.2 .01 12.2	L	0	17:09:33	184:00	5	6	9	4-MIN-HTR MN=757	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE (D M Y): 12 SEP 82 — RAW TAPE (D M): 12 SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 087	HD 36861 12	O8 3.8	α 5h, 32m, 22.s9 δ +9°, 54', 8" R 273°, 43', 15".9	H	SWP 17934 1 + 1	1332 190 g.u.	-2.4 .68 7.2	L	O	16:32:26	0:26	5	0	1	MN=	D. STICKLAND A. WILLIS A.H.
"	HD 5394 2 (	B0 IV e 26	α 0h, 53m, 40.s3 δ +60°, 26', 47" R 334°, 34', 0".7	H	SWP 17935 1 + 2	3503 505 g.u.	+1.9 .08 7.5	L	O	17:12:39	0:08	5	0	1	MN=	"
"	HD 149757 12	O9.5 V 2.6	α 16h, 34m, 24.s1 δ -10°, 28', 3" R 83°, 36', 27".3	H	SWP 17936 1 + 3	2417 332 f.u.	-1.1 .08 7.5	L	O	17:56:58	0:25	5	0	1	MN=	"
EI 273	HD 168206 10	WC 9.4	α 18h, 16m, 19.s8 δ -11°, 39', 16" R 98°, 33', 43".3	L	SWP 17937 1 + 10	733 3 f.o.	-1.0 .08 7.5	L	O	18:39:00	20:00	5	5	0	1 pF missing played back MN=	"
	"	"	α , , δ , " , R , ,	L	LWR 14158 1 + 4	733 ' f.o	-1.0 .08 12.2	L	O	19:03:59	8:00	5	0	2	1 px. sat. 4 min warm up MN=	"
EI 274	RZ Gru 54	Dw.No. 12.5	α 22h, 44m, 12.s0 δ -41°, 0', 0" R 165°, 43', 46"	L	LWR 14159 1 + 5	133 1 s.o	-1.1 .08 12.5	L	O	19:57:21	30:00	5	0	3	4 min warm up MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 17938 1 + 7	129 1 s.o.	-1.6 .08 7.5	L	O	20:33:28	40:00	5	5	1	MN=	"
EI 220	HD 88366 51	LPV 8	α 10h, 9m, 46.s2 δ -61°, 18', 14" R 340°, 10', 52".2	L	LWR 14160 1 + 8	4203 7 f.o.	-0.3 .07 12.5	L	O	21:52:05	30:00	1	3	2	Mg II 4 min warm up MN=	"

OBSERVATORY LOG — DATE (D M Y): 12 SEP 82 — RAW TAPE (D M): 12 SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 220	HD 82901 51	LPV ~8	α 9h, 30m, 59.s2 δ -67°, 34', 01" R 330°, 38', 50".4	L	LWR 14161 1 + 9	4676 13 f.o.	-1.7 .08 12.8	L	O	23:15:36	3:00	1	3	2	MN= 371	D. STICKLAND A. WILLIS A.H.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 13 M SEP Y 82 RAW TAPE D 13 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG. THDA.	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 011	BD+25 4655 16	sd O 9.0	α 21, 57, 25 δ 26, 11, 35. R 37, 61, 58.9	H	SWP 17947 1+1	530 Ø F.O.	-1.5 .08 6.5	L	O	16:46:11	45:00	6	0	1	MN=	U. HEBER HB
"	"	"	α " " δ " " " R " "	H	LWR 14170 1+2	536 Ø F.O.	-.06 .08 10.8	L	O	17:35:53	45:00	5	0	3	4 MIN WARMUP MN= 875	"
EA 008	IC 4593 70	NPN 11.2	α 16, 09, 23.3 δ 12, 12, 08 R 90, 3, 43.6	H	SWP 17948 1+3	228 2 F.O.	-.25 .08 8.8	L	O	19:03:35	253:00	5	0	3	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 14 M SEP Y 82 RAW TAPE D 14 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG. THDA.	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 035	JL 76 28	sd B 11.33	α 21, 23, 6.0 δ -82, 54, 0 R 148, 34, 15.5	L	LWR 14178 1+1	451 4 SO	-1.7 0.12 11.8	L	O	16:47:06	6:00	4	0	3	HTR WARM-UP = 4 MN=	HEBER PP
"	"	"	α " " δ " " R " "	L	SWP 17958 1+2	109 3 FO	-1.7 .08 7.8	L	O	16:40:58	14:00	4	0	0	MN=	"
EA 011	BD+34 1543 16	SdO 9.4	α 7, 6, 58 δ 34, 29, 51 R 258, 19, 22.0	H	SWP 17959 1+3	297 1 FO	-2.0 .08 7.5	L	O	18:21:52	180:00	5	0	2	MN=	"
"	SB 485 28	SdB 13.18	α 1, 9, 45.0 δ -26, 28, 0 R 230, 56, 21.1	L	SWP 17960 1+4	94 4 SO	-1.4 .08 8.8	L	O	22:30:43	13:00	5	0	0	MN=	"
"	"	"	α " " δ " " R " "	L	LWR 14179 1+5	85 6 SO	-1.4 .08 11.8	L	O	22:47:05	15:00	4	0	3	HTR WARM-UP 4 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE. D 15 M SEP Y 82 RAW TAPE D 15 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESEL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DKI THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 273	HD168206 10	WC 9.4	α 18, 16, 19.8 δ -11, 39, 16 R 89, 10, 17.2	L	SWP 17965 1+1	721 2 F.O.	-1.4 .08 7.2	L	O	16:16:34	20:00	5	5	1	MN=	STICKLAND - WILL HB
"	"	"	α , , δ , , R , ,	L	LWR 14183 1+2	725 4 F.O.	-1.3 .08 12.5	L	O	16:39:41	8:00	5	0	2	MN= 275	"
"	HD169757 12	07.5E 2.6	α 16, 34, 24.1 δ -10, 28, 3 R 84, 12, 31.7	H	SWP 17966 1+3	2420 380 F.U.	-1.9 .08 7.5	L	O	17:24:08	0:25	5	0	1	MN=	"
EI 087	HD 53974 20	B0IVe 2.6	α 0, 53, 40.3 δ 60, 26, 46.9 R 337, 12, 37.6	H	SWP ~~17967~~ 1+4	3679 500 F.U.	-1.7 .08 7.2	L	O	18:26:?	0:81	5	0	1	MN=	"
"	HD36861 13	08 3.8	α 5, 32, 22.9 δ 9, 54, 8 R 273, 1, 15.5	H	SWP 17968 1+5	1333 318 F.U.	-1.7 .08 7.5	L	O	19:02:43	0:20	5	0	1	MN=	"
EI 273	HD 45146 10-11	WR A0.0	α 6, 23, 36.0 δ 8, 0, 18 R 271, 18, 20.8	L	SWP 17969 1+6	406 3 F.O.	-1.3 .08 7.5	L	O	19:42:50	2:00	5	0	1	MN=	"
EI 213	Azzopardi 287 13	09 12.8	α 01, 00, 19.2 δ -72, 28, 45 R , ,	L	LWR 14184 1+7	142 3 S.O	-1.6 .08 12.2	L	O	20:35:17	60:00	4	0	3	4 MIN - HTR. MN= 805	K. NANDY HB
"	"	"	α , , δ " , " , " R , ,	L	SWP 17970 1+8	147 5 S.O	-1.2 .08 7.5	L	O	21:40:35	75:00	6	0	1	MN= ~~805~~	"

OBSERVATORY LOG

DATE. D 15 M SEP Y 82 RAW TAPE D 15 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESEL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DKI THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 213	Azzopardi 287 13	09 12.86	α 1, 0, 19.2 δ -72, 28, 45 R 203, 36, 53.6	L	LWR 14185 1+9	130 4 S.O.	-.9 .08 12.8	L	O	22:00:01	20:00	5	0	3	4 MIN HTR MN=	K. NANDY HB
"	Azzopardi 315 20-23	B 10.96	α 1, 1, 12 δ -72, 26, 09 R 203, 36, 53.6	L	SWP 17971 1+10	166 1 F.O.	-1.3 .08 7.8	L	O	22:52:41	14:00	3	0	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE D 16 M SEP Y 82 — RAW TAPE D 16 M SEP

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA.	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 011	BD+37 442 16	sdO 10.	α 1, 55, 28 δ 38, 19, 0 R 313, 17, 8.9	H	LWR 14193 1+1	418 13 FO	-2. .08 12.5	L	O	16:47:57	60:00	5	0	4	4 HW-HTR WARM UP MN=	HEBER PP
EA 035	SB 815 28	sdB 10.96	α 23, 41, 42 δ -34, 43, 0 R 183, 18, 17.1	L	SWP 17981 1+1	161 2 FO	-1.2 .08 6.5	L	O	19:01:06	2:00	6	0	0	MN=	"
"	SB 410 28	sdB 12.5	α 0, 58, 56 δ -33, 59, 0 R 216, 39, 45.2	L	LWR 14194 1+2	141 2 SO	-.9 .08 12.5	L	O	19:10:38	12:00	5	0	2	4 MIN HTR WARM UP MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 17982 1+3	147 1 SO	-1. .08 7.2	L	O	20:12:44	11:00	6	0	0	MN=	"
"	SB 460 28	sdB 12.6	α 1, 6, 13.1 δ -27, 9, 12 R 325, 38, 54.1	L	LWR 14195 1+4	150 3 SO	-.8 .08 12.5	L	O	21:11:30	23:00	5	0	2	4 MIN HTR-WARMUP MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 17983 1+5	144 3 SO	-1.3 .08 9.2	L	O	21:42:15	42:00	5	0	0	MN=	"
"	SB 459 28	sdB 12.1	α 1, 6, 4.6 δ -32, 59, 32 R 219, 46, 26.4	L	SWP 17984 1+6	199 2 SO	-1.1 .08 10.8	L	O	23:09:39	8:00	5	0	0	MN=	"
			α , , δ , , R , ,		1+										MN=	

FROM: LUCIANA BIANCHI - VILSPA
TO: AL HOLM - IUESOC - GSFC
INFO: A. CASSATELLA, J.C. BLADES

OBSERVATORY LOG TIME SPENT: 1 SHIFT (7.5 HRS) — DATE D 17 M SEP Y 82 — RAW TAPE D 17 M SEP

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA.	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HAINTEN.	R R TEL 57	— 10.05	α 20, 0, 20.0 δ -55, 52, 4 R 119, 25, 6.7	L	LWR 14202 1+1	406 Ø/42 F.O.	-1.9 .08 11.8	L S	O O	16:34:47 16:43:21	6:00 4:00	4 3	7 7	2 2	MN= 586	L. BIANCHI
"	"	"	α " δ " R "	L	LWR 14203 1+2	384 10 F.O.	-.6 .08 12.2	L	O	17:14:16	6:00	3	7	2	TRAILED R=0.1665 "/SEC I=3 MN= 330	"
"	"	"	α " δ " R "	H	LWP 1664 1+3	418 0 F.O.	-1.9 .08 5.1	L	O	18:27:11	40:00	2	7	3	MN=	"
"	"	"	α " δ " R "	L	LWP 1665 1+4	406 2/25 F.O.	-1.2 .08 6.8	L S	O	19:38:38 19:46:46	5:00 3:30	4 3	7 6	3	MN=	"
"			α " δ " R "	L	LWP 1666 1+5	416 0 F.O.	-.76 .08 7.2	L	O	20:19:52	5:14	2	7	3	TRAILED R=0.191 "/SEC I=3 MN=	"
"	UV 60	—	α " δ — R "	L	SWP 17992 1+7	—	-1.7 .08 6.5	L	O	21:41:30	1:49	2	0	6	UVF TEMP=34 MN=	"
"	WD 3360 20	B2 IV 3.68	α 0, 34, 10 δ 53, 37, 19 R 343, 23, 59.4	L	SWP 17993 1+8	1017 200 F.O.	-1.7 .08 6.8	L S	O O	22:12:41	0:8	9 8	0	1	TRAILED R=10 "/SEC, I=4 MN=	"
"	NULL IMAGE	—	α " δ — R "	L	LWR 14204 1+6	—	—	L	O	—	—	1	1	0	NULL READ AFTER SWITCHING LWR ON MN= 572	"

FROM: L. BIANCHI - VILSPA

TO: AL HOLM - IVE&OC / GSFC

INFO: A. CASSATELLA, JC. BLADES

OBSERVATORY LOG

DATE: D 17 M SEP Y 82 RAW TAPE D 17 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG. THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MAINTEN.	UV 60	/	α , , δ / , / , / R , ,	L	SWP 17994 1+9	/	-1.7 .08 6.8	L	O	22:44:52	1:49	2	0	6	AFTER XPREP, FOLLOWING 30 X OVXP. MN=	L. BIANCHI / LB
〃	〃	〃	α , , δ 〃 , 〃 , 〃 R , ,	—	SWP 17995 1+10	/	-1.4 .08 7.2	/	/	23:11:52	1:49	1	1	6	MN=	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

PAGE 2 OF 2

OBSERVATORY LOG

DATE: D 18 M Sep Y 82 RAW TAPE D 18 M Sep.

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG. THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 271	HD45166 11	WR+ B8 9.9	α 6, 23, 36 δ 8, 00, 18 R 270, 32, 229	L	SWP 18009 1+	373 6 F.O	-1.6 .16 7.8	L	O	16/13/09	2:00	5	5	0	MN=	Willis W.W.
〃	HD 36861 12	O8 3.8	α 5, 32, 23 δ 9, 54, 8 R 272, 21, 40	H	SWP 18010 1+2	1404 182 F.O	-1.8 .08 7.8	L	O	16/50/23	0/20	6	0	1	MN=	〃 〃
〃	HD 5394 20	B0	α 0, 53, 40 δ 60, 26, 47 R 309, 53, 12	H	SWP 18011 1+3	3725 725 F.U.	-1.4 .08 7.8	L	O	17/23/01	0/08	5	0	1	MN=	〃 〃
〃	HD 149757 12	O9 2.6	α 16, 34, 24 δ -10, 28, 03 R 84, 49, 48	H	SWP 18012 1+4	2550 390 F.4	-1.1 .08 7.5	L	O	18/00/16	0/25	5	0	1	MN=	〃 〃
〃	HD 168206 10	WC 9.4	α 18, 16, 20 δ -11, 29, 16 R 89, 48, 15	L	LWR 14205 1+5	727 3 F 0	-1.8 .08 11.5	L	O	18/22/26	8/00	5	0	1	4 min Hrr. MN=	〃 〃
〃	〃	〃	α , , δ 4, 4, 4 R , ,	L	SWP 18013 1+6	735 4 F.0	-1.3 .08 8.2	L	O	18/43/29	20/0	5	6	0	MN=	〃 〃
EI 213	A22 315 25	B8 11.0	α 1, 01, 12.3 δ -72, 26, 15 R 200, 54, 60	L	LWR 14206 1+7	1599 0 F.0	-1.0 .08 12.2	L	O	19/54/32	20/0	6		2	4 min HEr. MN=	NANDY WW.
〃	A22 18 23	B1 12.5	α 00, 45, 24 δ -73, 22, 47 R 196, 38, 5	L	SWP 18014 1+8	174 7 S.0	-1.5 .08 7.5	L	O	20/40/13	35/0	3	0	0	MN=	〃 〃

OBSERVATORY LOG

DATE D 18 M sep Y 82 RAW TAPE D 18 M sep

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 213	A22 18 23	B1 12.5	α 0, 45, 24 δ −73, 22, 47 R 196, 38, 05	L	LWR 14207 1 + 9	176 8 5.0	−1.0 .08 12.5	L	0	21/22/11	45/0	6	0	3	4 min HTR MN=	MAHOY W.W.
"	"	"	α , , δ ", ", " R , ,	L	SWP 18015 1 + 10	675 8 5.0	−.6 .08 7.8	L	0	22/11/25	66/0	4	0	1	MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 19 M 9 Y 82 RAW TAPE D 19 M 9

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA254	ABELL 7 70	PN 15.2	α 5, 0, 51.86 δ −15, 40, 33.4 R 268, 32, 58.3	L	LWR 14212 1 + 1	6.0	−1.3 0.08 11.5	L	0	164800	65:00	4	0	3	GDE(−587, 659) 328 CTS SLOW C(2200) = 110; B = 24 C(2800) = 150 MN= XSTREP	CLEGG WARMUP A.C.
"	NGC 3918 70	70 10.8	α 11, 47, 50 δ −56, 54, 10 R , ,	L	SWP 18028 1 + 2	708 .36 OF	0.20 0.08 6.8	L	0	185953	3:00	5	1	2	EXTENDED C IV 154 He II 88 C III 245 B = 20 MN=	"
	"	"	α , , δ ", ", " R , ,	L	LWR 14213 1 + 3	700 30 OF	0.20 0.08 12.5	L	0	190853	55:00	6	7	3	EXTENDED C = 255, B = 30 C II 152 C III + O III = 281 MN=	WARMUP
	"	"	α , , δ ", ", " R , ,	L	SWP 18029 1 + 4	689 44 OF	−0.9 0.08 7.5	L	0	200930	50:00	5	9	1	EXTENDED C(1800Å) = 180 C(1300Å) = 174 B = 18 MN=	
	"	"	α , , δ ", ", " R , ,	H	LWR 14214 1 + 5	686 43 OF	−1.7 0.08 13.2	L	0	210404	50:00	7	6	2	XSTREP STREP NOT TERMINATED – TFLOOD VISIBLE MN=	WARMUP
	"	"	α , , δ ", ", " R , ,	H	SWP 18030 1 + 6	688 40 OF	−1.2 0.08 8.2	L	0	220030	15:00	0	5	0	C IV : 176, 105 DN He II : 156 C III 185, 187; B = 20 MN=	
			α , , δ , , R , ,	H	LWR 14215 1 + 7	696 47 OF	−1.9 0.08 13.5	L	0	224407	36:00	1	5	3	C II 97, 100 DN Ne IV 118, 138 B = 30 MN= 175	NOT WARMUP
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 20 M SEP Y 82 — RAW TAPE D 20 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG. THDA	APERTURE	AP. SHIFT	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA 254	NGC 1514 70	P.N. 9.4	α 4,6,8.3 δ 30,33,43.0 R 284,50,37.1	L	LWR 14219 1+1	533 6 F.O.	-2.1 .08 12.2	L	O	16:00:36	15:00	5	0	3	4 MIN. HTR MN= 871	CLEGG / AB
"	"	"	α , , δ , , R , ,	L	SWP 18042 1+2	553 6 F.O	-1.2 .08 7.5	L	O	17:47:32	40:00	5	0	1	MN=	"
"	IC 2149 70	P.N. 11	α 5,52,40.9 δ 46,5,53 R 270,10,5.7	L	LWR 14220 1+3	223 3 F.O.	-.93 .08 12.6	L	O	18:52:16	6:00	5	0	2	4 MIN - HTR MN= 823	"
"	NGC 2392 71	P.N 10.4	α 7,26,12.5 δ 21,00,51. R 261,59,42.3	L	SWP 18043 1+4	B.O.	-.97 .08 7.5	L	O	19:33:08	15:00	3	4	1	17 ARCSEC WEST OF CENTRAL STAR MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 14221 1+5	B.O.	-.88 .08 12.8	L	O	20:03:49	60:00	5	3	3	31 ARCSEC WEST OF CENTRAL STAR 4 MIN- HTR MN=	"
"	DQ 1360 70	PN 11.0	α 3,31,07 δ -26,02,12 R 256,19,2.8	L	SWP 18044 1+6	107 0 F.O	-1.5 .08 7.8	L	O	21:52:47	0:45	5	0	1	MN=	"
"	NGC 3918 70	PN 10.8	α 11,47,50 δ -56,54,10 R 359,29,33.3	H	LWR 14222 1+7	712 45 F.O.	-.26 .08 13.2	L	O	21:51:54	25:00	2	3	2	~~4 MIN HTR~~ MN= 534	"
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 21 M SEP Y 82 — RAW TAPE D 21 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG. THDA.	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
E I 273	HD 36861 12	O8 3.8	α 5,32,22.9 δ 9,54,8 R 271,41,4.8	H	SWP 18050 1+1	1323 154 FU	-2.5 .08 6.8	L	O	16:40:55	0:20	5	0	1	MN=	STICKLAND PP
"	HD 5394 20.	BOIVe 2.6	α 0,53,40.3 δ 60,28,40.3 R 342,39,4.5	H	SWP 18051 1+2	3551 536 FU.	-1.7 .08 7.2	L	O	17:21:07	0:08	5	0	1	MN=	"
"	HD 149757 12	O9.5V 2.6	α 16,34,24.1 δ -10,28,3 R 85,28,3.3	H	SWP 18052 1+3	2362 381 FU	-.5 .08 7.2	L	O	18:00:33	0:25	5	0	1	MN=	"
"	HD 168206 10	WC 9.4	α 18,16,19.8 δ -11,39,16 R 90,24,37.6	L	LWR 14227 1+4	741 3 FO	-.7 .08 11.5	L	O	18:24:58	8:00	5	0	2	MN= 530	"
"	"	"	α , , δ , , R , ,	L	SWP 18053 1+6	735 14 FO	-.4 .08 7.5	L	O	18:46:25	20:00	4	5	0	MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 14228 1+5	742 4 FO	-.4 .08 11.8	L	O	19:14:03	8:00	5	0	2	4 MIN HTR MN= 877	"
EI 213	AZZ 258 12	O9 13.75	α 0,59,6.5 δ -72,45,52 R 197,20,56.9	L	LWR 14229 1+7	BO	-.4 .08 12.2	L	O	20:36:11	60:00	5	0	3	GUIDE X -194 Y -280 FES 120 FO 4 MIN HTR MN= 879	NANDY PP
"	AZZ 315 22	B8 10.96	α 1,1,12.3 δ -72,26,15 R 197,52,43.0	L	SWP 18054 1+8	157 6 FO	-2.6 .08 7.2	L	O	22:02:54	25:00	4	0	0	MN=	"

OBSERVATORY LOG

DATE: D 21 M SEP Y 82 RAW TAPE: D 21 M SEP

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 213	A22 393 20	B2 11.5	α 1 , 4 , 22.4 δ -72 , 35 , 43.2 R 198 , 39 , 2.5	L	LWR 14230 1 + 9	107 2 FO	-1. .08 12.8	L	O	22:50:06	16:06	7	0	3	4 MIN-HTR MN=	NYUDY PP
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

FROM: L. BIANCHI / ...
TO: AL HOLM / IUESOC-GSFC
INFO: A. CASSATELLA, JC. BLADES.

OBSERVATORY LOG

DATE: D 22 M SEP Y 82 RAW TAPE: D 22 M SEP

TOTAL TIME SPENT : 1 SHIFT (7.5 HRS)

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	BD+75 325 16	SdO 9.54	α 8 , 4 , 43. δ 75 , 6 , 48 R 238 , 45 , 32	L	LWR 14233 1 + 1	605 2/39 F.O.	-1.9 .08 13.5	L S	O O	16:50:15 16:54:17	00:24 00:48	5 5	0 0	2	MN= 194	L. BIANCHI JB
"	"	"	α , , δ " , " , " R , ,	L	LWR 14234 1 + 2	606 2 F.O.	-1.0 .08 12.5	L	O	17:30:39	00:74	4	0	2	TRAILED: N=3 RATE: 0.81"/SEC MN= 307	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 18065 1 + 3	610 1/26 F.O.	-.93 .08 7.2	L S	O O	18:48:08 18:52:14	0:14 0:28	5 5	0 0	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 18066 1 + 5	603 1 F.O.	-.93 .08 7.5	L	O	19:18:35	0:43	4	0	1	TRAILED: N=3 RATE = 1.38"/SEC MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWP 1676 1 + 4	629 36/1 F.O.	-1.4 .08 6.1	L S	O O	19:34:56 19:30:41	0:20 0:40	4 5	0 0	3	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWP 1677 1 + 6	626 1 F.O.	-1.2 .08 7.2	L	O	20:08:25	1:20	5	0	3	TRAILED: N=3 RATE: 0.60 MN=	"
"	BD+28 4211 12	OP 10.53	α 21 , 48 , 56 δ 28 , 37 , 34 R 52 , 1 , 54	L	SWP 18067 1 + 7	257 4/13 F.O.	-1.7 .08 7.2	L S	O O	21:32:54 21:37:21	0:26 0:52	5 5	0 0	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 18068 1 + 11	296 4 F.O.	-1.4 .08 7.8	L	O	22:04:25	1:18	5	0	1	TRAILED N=3 RATE = 0.77"/SEC MN=	"

FROM: L. BIANCHI

TO: AL HOLM / IUESOC - GSFC

INFO: A. CASSATELLA, J.C. BLADES

OBSERVATORY LOG

DATE D 22 M SEP Y 82 RAW TAPE D 22 M SEP

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DUCAL	BD+28 4211 12	O_p 10.53	α 21, 48, 56 δ 28, 37, 34 R 52, 1, 54	L	LWP 1678 1+8	259 1/14 F.O.	-1.0 -.84 .08 7.8	L S	O O	22:14:19 22:19:03	0:50 1:20	5 5	0 0	3	MN=	L. BIANCHI / JB
"	"	"	α , , δ " , " , " R , ,	L	LWP 1679 1+10	276 0 F.O.	-.70 .08 7.8	L	O	22:55:14	3:20	5	0	3	TRACED I=3 RATE=0.30 MN=	"
/	NULL READ	/	α , , δ / , / , / R , ,	L	LWR 14235 1+9	/	/	/	/	/	/	/	/	/	MN=597	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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OBSERVATORY LOG

DATE D 23 M SEP Y 82 RAW TAPE D 23 M SEP

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ET 273	AZELOPARDI 258 12-13	09 13.7	α 0, 59, 6.5 δ -72, 45, 52 R 195, 33, 4.2	L	SWP 18079 1+1	8.0.	-1.7 .08 7.2	L	O	17:02:56	65:00	5	0	1	MN=	D. STICKLAND / JB
"	AZELOPARDI 393 23	B2 11.5	α 4, 22.4 δ -72, 35, 43 R 196, 52, 35.4	L	LWR 14241 1+2	446 3 S.O.	[illegible] .08 11.8	L	O	18:38:33	10:00	5	0	2	4 MIN - NTR MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 18080 1+3	443 5 S.O.	-1.2 .08 7.5	L	O	18:59:09	15:00	4	0	1	MN=	"
EA080	HD 149 757 12	09.5 V 2.6	α 16, 34, 24.1 δ -10, 28, 03 R 85, 55, 26.8	H	SWP 18081 1+4	2453 580 F.U.	-1.6 .08 7.5	L	O	20:11:06	01:25	5	0	1	MN=	V. DOAZAN - D. STICKLA
"	HD 164284 20	B2 IVe 4.8	α 17, 57, 47 δ 4, 22, 11 R 90, 3, 25.7	H	SWP 18082 1+5	397 80 F.O.	-1.1 .08 7.8	L	O	20:59:09	1:20	4	0	1	MN=	V. DOAZAN - D. THE / JB
"	HD 200120 20	B1.5 Ve 4.7	α 20, 68, 7.4 δ 47, 19.30 R 54, 10, 57.8	H	SWP 18083 1+6	25202 500 F.O.	-1.1 .08 7.8	L	O	21:37:30	1:30	5	0	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 18084 1+7	25900 510 F.O.	-1.1 .08 7.8	L	O	22:05:18	00:1	5	0	1	MN=	"
"	HD 162732 22	B7 Ve 6.4	α 17, 48, 44.7 δ 48, 24, 25 R 92, 12, 16.4	H	SWP 18085 1+8	7079 17 F.O.	-1.1 .08 8.2	L	O	22:47:01	25:00	6	0	1	MN=	"

OBSERVATORY LOG

DATE D 24 M SEP Y 82 RAW TAPE D 24 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THOA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 273	HD36861 (λ Ori) 12	O8 3.8	α 5, 32, 27.9 δ +9, 54, 8 R 270, 59, 56	H	SWP 18096 1+1	1354 304 UF	-2.2 0.08 7.5	L	O	16:47:11	0:20	S	0	1	C = 224 B = 24 MN=	STICKLAND Ac
"	HD31964 33	A8I 3.5	α 4, 56, 22.5 δ +43, 45, 5 R 281, 6, 36	H	LWR 14247 1+2	959 138 UF	-2.0 0.08 11.5	L	O	17 12 29	60:00	7	0	1	4 min warm up MN=	
"	HD 53974 20	BOIIIe 2.6	α 0, 53, 40.3 δ 60, 26, 47 R , ,	H	SWP 18097 1+3	1798114 OF	-1.1 0.08 7.2	L	O	185645	0:08	S	0	1	C = 208 B = 22 MN=	
"	HD168206 10	WC 9.4	α 18, 16, 19.8 δ -11, 39, 16 R 91, 1, 10	L	SWP 18098 1+4	740 3 OF	-1.0 0.08 7.5	L	O	195525	20:00	S	0	1	C = ... E = 179 B = 26 MN=	
"	"	"	α , , δ , , R , ,	L	LWR 14248 1+5	708 1 OF	-1.3 0.08 12.8	L	O	20 11 49	8:00	S	0	1	4 MIN-HTR MN= 775	
EI 151	HD 169515 21	B4 8.8	α 18, 22, 42.7 δ -12, 43, 09 R 91, 26, 30	L	SWP 18099 1+6	749 1 OF	-2.5 0.08 7.8	L	O	21 02 37	60:00	S	0	1	MN=	(WEST) CASSATELLA
"	"	"	α , , δ , , R , ,	L	LWR 14249 1+7	7701 3 OF	-1.3 0.08 12.5	L	O	22 05 40	20:00	6	0	1	4 MIN-HTR MN=	"
STAND	HD159561 33	A5III 2.08	α 17, 32, 36.6 δ 12, 35, 41 R 92, 9, 0.1	L	LWR 14250 1+8	1701384 700 OF	-1.4 0.08 12.8	L	O	231609	0:01	S	0	1	C = 245 B = 26 MN=	A.C.

OBSERVATORY LOG

DATE D 25 M SEP Y 82 RAW TAPE D 25 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THOA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 116	HD192577 47	K3 3?	α 20, 12, 3.3 δ +46, 35, 12 R 66, 36, 32	H	SWP 18108 1+1	666 156 UF	-1.0 0.08 7.5	L	O	16 25 30	50:00	1	5	1	C (FE 191) - 91 DN B = 24 MN=	REUTERS A.C.
"	"	"	α , , δ , , R , ,	H	LWR 14262 1+2	649 155 UF	00.7 0.08 12.5	L	O	17 18 43	50:00	2	7	4	Mg II overexp x ~ 4 Fe II good 4 min Krem up MN= 967	
"	HD 186791 47	K3 2.6	α 19, 43, 52.5 δ +10, 29, 30 R , ,	L	SWP 18109 1+3	1877 449 UF	-1.2 0.08 7.8	L	O	183553	180:00	3	7	2	MN=	
"	HD148478 49	M2 1	α 16, 26, 20 δ -26, 19, 0 R 78, 56, 34	H	SWP 18110 1+4	10702 2127 UF	-.92 0.08 8.2	L	O	22 12 14	4:00	S	0	1	C = 192 B = 21 MN=	
"	"	"	α , , δ , , R , ,	H	LWR 14263 1+5	11644 UF	-0.8? 0.08 12.2	L	O	22 41 29	3:30	S	0	1	4 min warm up MN=	
"	"	"	α 16?, 26, 19.6 δ -26, 19, 0 R 78, 56, 34	H	SWP 18111 1+6	10914 UF	-0.82 0.08	S	O	225619	40:0	S	0	1	5.5 arcmin W of target MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 26 M Sep Y 82 — RAW TAPE D 26 M Sep

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESET	CAMERA / IMAGE NO. / RAW T. FILE	RES CTS / ref. p. / slot window/f.s	FOCUS / BKG / THDA	APERTURE	XP. SEQT.	G.M.T. h/m/s	DURATION m/s	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 116	HD157999 47	K0 4.8	α 17, 24, 02 δ 4, 10, 56 R 91, 58, 52	L	SWP 18120 1+1	428 98 F.U	−1.1 .08 8.5			16/39/16	210/0	1	4	1	MN=	REIMERS LW
EC 116	HD148478 neb. -72		α 16, 26, 19.2 δ −26, 19, 00 R 78, 51, 21	H	LWR 14271 1+2	B/0	−1.2 .08 12.8	S	0	20/42/11	20/0	1	1	1	4 min HTP. MN=	" "
"	"	"	α , , δ 11, 11, 4 R , ,	H	SWP 18121 1+3	B/0	−.75 .08 9.2	S	0	21/11/10	60/0	1	2	0	MN=	" "
"	"	"	α , , δ 4, 0, 4 R , ,	L	SWP 18122 1+4		−1.4 .08 9.5	S	0	22/41/17	8/30	2	1	0	MN=	" "
"	HD149161 47	K4 4.8	α 16, 30, 15 δ 11, 35, 30 R 96, 43, 12	L	LWR 14272 1+5	25794 2653 F.0	−1.7 .08 13.2	L	0	23/33/25	5/00	3	3	2	MN= 471	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 27 M Sep Y 82 — RAW TAPE D 27 M Sep

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESET	CAMERA / IMAGE NO. / RAW T. FILE	RES CTS / ref. p. / slot window/f.s	FOCUS / BKG / THDA	APERTURE	XP. SEQT.	G.M.T. h/m/s	DURATION m/s	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI270	HD168206 10	WC 9.4	α 18, 16, 20 δ −11, 39, 16 R 91, 35, 35	L	SWP 18134 1+1	692 5 F.0	−2.5 .08 8.8	L	0	16/27/52	20/0	4	5	0	MN=	Strickland WW.
"	"	"	α , , δ 11, 11, 11 R , ,	L	LWR 14276 1+4	"	−2.2 .08 13.2	L	0	16/51/03	8/00	5	0	3	4 min HTP MN= 652	" "
"	HD149757 12	O9.5V 2.6	α 16, 34, 24 δ −10, 28, 3 R 86, 48, 54	H	SWP 18135 1+2	2707 552 F.U	−.9 .08 8.8	L	0	17/47/25	9/25	5	0	1	MN=	" "
"	HD5394 20	B0IV 2.6	α 0, 53, 40 δ 60, 26, 47 R 348, 29, 22	H	SWP 18136 1+3	3801 660 F.U	−1.6 .08 9.2	L	0	18/23/06	0/081	5	0	1	MN=	" "
"	HD 31964 33	A8I 3.5	α 4, 58, 22 δ 43, 45, 05 R 282, 14, 38	L	SWP 18137 1+5	944 220 F.U	−.4 .09 9.2	L	0	18/57/05	25/0	7	2	0	MN=	" "
"	"	"	α , , δ 4, 11, 4 R , ,	H	LWR 14277 1+1	93.6 201 F.U	−.6 .08 13.5	L	0	19/28/17	10/0	4	0	2	MN= 543	" "
"	RZ Sgr Ru 54	12.9	α 22, 44, 12 δ −43, 0, 0 R 149, 27, 12	L	SWP 18138 1+2	121 5 S.0	−.2 .08 8.8	L	0	21/15/53	35/0	4	4	1	MN=	" "
"	"	"	α , , δ 4, 4, 4 R , ,	L	LWR 14278 1+3	122 4 S.0	−.8 .08 13.5	L	0	21/55/15	30/0	5	5	3	4 MIN-HTR MN=	

OBSERVATORY LOG

DATE D 27 M Sep Y 82 — RAW TAPE D 27 M Sep

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. plot undov/f.s	FOCUS BKD / THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI273	R2 Gru 54	12.9	α 22,44,12 δ −42, 0, 0 R 149, 27, 12	L	SWP 18139 1+4	122 2 S.O.	−.9 .08 .92	L	O	22/28/20	35/0	4	4	1	MN=	Strickland WW.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 28 M Sep Y 82 — RAW TAPE D 28 M Sep

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. plot undov/f.s	FOCUS BKD / THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 221	HD 192639 13	07 7.1	α 20, 12, 39 δ +37, 12, 02 R 73, 9, 49	H	LWR 14285 1+1	4492 15 F.0	−1.0 .08 12.5	L	O	16/15/44	90/0	8	0	5	4 min MN=	Welsh W.W.
"	HD 193514 13	7.4 07Ib	α 20, 17, 20 δ 39, 6, 56 R , ,	H	SWP 18145 1+2	3410 10 F.0	−1.9 .08 6.8	L	O	17/59/45	140/0	5	0	2	MN=	" "
"	HD164492 13	07.5 7.3	α 17, 59, 21 δ −23, 1, 54 R 89, 58, 17	H	LWR 14286 1+3	3555 39 F.0	−.8 .08 12.2	L	O	21/0/21	13/30	4	0	3	4 MIN HTR MN=	" "
"	"	"	α , , δ " , " , " R , ,	H	SWP 18146 1+4	3573 13 F.0	−.8 .08 8.2	L	O	21/18/53	17/0	5	0	1	MN=	" "
"	HD164402 23	B0I 5.8	α 17, 58, 52 δ −22, 46, 51 R 89, 56, 54	H	LWR 14287 1+5	14843 246 F.0	−1.1 .08 12.8	L	O	21/56/13	4/30	5	0	2	4 MIN HTR MN=	" "
"	"	"	α , , δ " , " , " R , ,	H	SWP 18147 1+6	14745 85 F.0	−1.1 .08 8.2	L	O	22/22/18	7/30	7	0	1	MN=	" "
"	HD164704 24	B5 7.7	α 18, 00, 17 δ −22 53, 12 R 90, 4, 33	H	LWR 14288 1+	1914 3 F.0	−1.5 .08 13.2	L	O	23/00/56	4/0	5	0	4	4 MIN HTR MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 29 M SEP Y 82 RAW TAPE D 29 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RGHT ASCENSION DECLINATION ROLL ANGLE	FOCUS	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GH211	HD 168183 23	Bo III 8.3	α 18 , 16 , 08.3 δ −14 , 00 , 45.4 R 91 , 54 , 45	H	SWP 18155 1+1	1674 7 f. o.	−1.6 0.08 9.2	L	0	16:32:06	150:00	5	0	1	MN=	WELSH / P.B
"	"	"	α , , δ , , R , ,	H	LWR 14295 1+2	1668 5 f. o.	−.3 0.08 12.8	L	0	19:05:09	85:00	5	0	3	4 MIN HTR MN=	"
"	HD 164704 21	B5 7.7	α 18 , 00 , 16.8 δ −22 , 53 , 11.6 R 90 , 5 , 3.9	H	SWP 18156 1+3	1911 5 f. o.	−1.7 0.08 8.8	L	0	20:56:12	50:00	5	0	1	MN=	"
"	HD 93632 13	O4 III 8.3	α 10 , 45 , 16 δ −59 , 50 , 00 R 331 , 56 , 42	H	LWR 14296 1+4	1576 195 f. o.	1.2 0.08 14.2	L	0	22:43:22	65:00	4	0	3	4 MIN HTR MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 30 M SEP Y 82 RAW TAPE D 30 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RGHT ASCENSION DECLINATION ROLL ANGLE	FOCUS	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 273	HD 168206 10	UC 9.4	α 18 , 16 , 19.8 δ −11 , 39 , 16 R 92 , 11 , 32.5	L	SWP 18162 1+1	738 5 f. o.	−1.5 0.08 9.5	L	0	16:47:52	20:00	4	5	1	MN=	STICKLAND / P.B.
"	"	"	α , , δ , , R , ,	L	LWR 14302 1+5	716 3 f. o.	−1.8 0.08 14.8	L	0	17:11:06	8:00	5	0	2	4 MIN HTR MN=	"
"	HD 149757 12	O8.5V 2.6	α 16 , 34 , 24.1 δ −10 , 28 , 3 R 87 , 32 , 35.5	H	SWP 18163 1+2	2397 363 f u	−1.0 0.08 9.8	L	0	17:52:54	00:25	5	0	1	MN=	"
"	HD 5394 20	B0 IV 2.6	α 0 , 53 , 40.3 δ 60 , 26 , 47 R 351 , 33 , 22.1	H	SWP 18164 1+3	3601 728 f u	−1.7 0.08 9.8	L	0	18:18:34	00:08	5	0	1	MN=	"
"	HD 36861 12	O8 3,8	α 5 , 32 , 22.9 δ 9 , 54 , 8 R 269 , 33 , 46.9	H	SWP 18165 1+4	1334 290 f u	−2.2 0.08 10.2	L	0	19:15:50	00:26	5	0	1	MN=	"
"	HD 31964 33	A8 I 3,5	α 4 , 58 , 22.5 δ 43 , 45 , 5 R 283 , 23 , 53.6	H	SWP 18166 1+6	917 131 f u	−1.5 0.08 9.8	L	0	19:58:33	60:00	4	0	1	MN=	"
"	AØ538-66 59	— 13.5	α 5 , 35 , 42.8 δ −66 , 53 , 40 R 257 , 29 , 50.5	L	SWP 18167 1+7	0.0	−.1 0.08 11.5	L	0	22:06:23	62:00	3	0	1	TWO STARS INTO SLIT MN=	"
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 1 M OCT Y 82 — RAH TAPE D 1 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAH T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EAØ51	HD214994 30	A0.1 II-V 4.8	α 22, 39, 24.3 δ +29, 2, 46 R 49, 46, 21	H	LWR 14306 1+1	26374 55 OF	-1.75 0.08 15.2	L	0	14:31:58	8:00	5	0	2	C = 227 D = 40 4 min W-up MN=	FREIRE AC
"	HD 205767 31	A6-7 III-V 4.7	α 21, 35, 5.5 δ -8, 4, 46 R 102, 44, 5	H	LWR 14307 1+2	16213 65 OF	-1.3 0.08 15.5	L	0	15:33:59	12:30	6	0	1	C = 255 B = 30 4 min W-up MN=	"
"	HD 155125 30	"	α 17, 07, 30.4 δ -15, 39, 53 R 87, 26, 46	H	LWR 14308 1+3	2494 625 UF	-1.46 0.08 15.5	L	0	16:30:00	1:15	6	0	1	4 min W-up. MN=	"
"	"	"	α , , δ " , " R , ,	H	SWP 18172 1+4	2490 672 UF	-1.0 0.08 10.5	L	0	16:38:54	18:00	8	0	0	MN=	"
"	HD 159561 31	A4 V 2.1	α 17, 32, 36.7 δ +12, 35, 41 R 96, 11, 52	H	LWR 14309 1+5	3301 1366 UF	-1.6 0.08 14.8	L	0	18:52:22	1:10	6	0	2	MN=	"
"	"	"	α , , δ " , " R , ,	H	SWP 18173 1+6	3253 548 UF	-1.7 0.08 10.5	L	0	18:55:14	45:00	8	2	2	XSPREP MN=	"
"	HD 139006 30	A Ø5 2.3	α 15, 32, 34.2 δ +26, 52, 54 R 116, 48, 44	H	LWR 14310 1+7	3015 635 UF	-0.5 0.08 14.8	L	0	20:46:44	0:40	5	0	2	4 MIN W-UP MN=	"
"	"	"	α , , δ " , " R , ,	H	SWP 18174 1+8	3031 651 UF	-0.5 0.08 10.8	L	0	20:48:00	2:45	7	0	1	XSPREP MN=	"

OBSERVATORY LOG

DATE D 1 M OCT Y 82 — RAH TAPE D 1 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAH T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EAØ51	HD127762 33	A7 III .3	α 14, 30, 3.7 δ +38, 31, 33 R 139, 4, 40.4	H	LWR 14311 1+9	1392 225 UF	-1.4 0.08 14.8	L	0	21:47:55	3:00	5	0	1	MN=	FREIRE AC
"	"	"	α , , δ , , R , ,		1+										MN=	"
"	"	"	α , , δ , , R , ,		1+										MN=	"
"	"	"	α , , δ , , R , ,		1+										MN=	"
"	"	"	α , , δ , , R , ,		1+										MN=	"
"	"	"	α , , δ , , R , ,		1+										MN=	"
"	"	"	α , , δ , , R , ,		1+										MN=	"

OBSERVATORY LOG

DATE: D 2 M OCT Y 82 — RAW TAPE: D 2 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI Ø87	HD37490 24	B3IIIe 4.52	α 5, 36, 37.6 δ +4, 5, 41 R 267, 29, 24	H	SWP 18185 1+1	406 103 OF	-1.65 0.08 10.2	L	O	145010	2:10	5	0	1	C = 245 B = 25 MN= ✓	HAMMERSCHLAG A.C
"	AØ538-66 59	B 13	α 5, 35, 42.9 δ -66, 49, 51 R 255, 44, 52	H	SWP 18186 1+2	35 / OS	-2.4 0.08 10.2	L	O	153254	60:00	4	0	1	C = 128 B = 18 (λ< 1500) C = 87 (λ> 1500) MN=	"
"	HD45166 - 11	WR+B 9.9	α 6, 23, 36 δ 8, 0, 18 R 266, 52, 8	L	SWP 18187 1+3	407 6 OF	-0.69 0.08 10.5	L	O	172011	2:00	5	0	1	C = 217 B = 15 MN= ✓	
"	"	"	α , , δ " , " , " R , ,	L	LWR 14318 1+6	403 2 OF	-0.69 0.08 14.2	L	O	172609	2:00	5	0	1	4 min HTR MN=	
"	HD 5394 20	BØIVe 2.2	α 0, 53, 40.4 δ +60, 26, 47 R 353, 35, 33	H	SWP 18188 1+4	3517 518 FU	-1.0 0.08 10.5	L	O	180530	0:08	5	0	1	C = 231 B = 24 MN= ✓	
"	AD164284 20	B2IVe 4.84	α 17, 57, 47.1 δ 4, 22, 12 R 94, 10, 8	H	SWP 18189 1+5	379 57 FU	-2.79 0.08 10.5	L	O	185745	2:00	5	0	1	C = 238 B = 22 MN= ✓	
"	HD168206 10	WC8, O8 9.4	α 18, 16, 19.8 δ -11, 39, 16 R 92, 37, 19	L	SWP 18190 1+7	737 3 FO	-0.13 0.08 10.5	L	O	194609	20:00	5	0	1	MN= ✓	
"		—	α , , δ , , R , ,	L	LWR 14319 1+8	734 9 FO	-2.2 0.08 14.5	L	O	201809	8:00	5	0	1	4 min HTR C = 199 B = 30 MN= ✓	

OBSERVATORY LOG

DATE: D 2 M OCT Y 82 — RAW TAPE: D 2 M OCT

PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI Ø87	RZ Gru 54	Cat. var. 12.5	α 22, 44, 12.1 δ -43, 0, 0 R 145, 3, 59	L	SWP 18191 1+9	113 2 SO	-.2 0.08 10.2	L	O	21:20:35	26:00	4	0	0	C = 130 B = 18 MN=	HAMMERSCHLAG AC
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 3 M OCT Y 82 RAW TAPE D 3 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE n_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undev/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EAφ51	HD135382 36	Aφp 2.9	α 15, 14, 12.6 δ −68, 29, 49 R 42, 46, 49	H	LWR 14326 1+1	1656 437 UF	−1.36 0.08 15.5	L	0	144115	1:40	5	0	2	C=240 B=39 4m HTR MN=	FREIRE AC
"	"	"	α , , δ , , R , ,	H	SWP 18196 1+2	1665 345 UF	+.80 0.08 10.5	L	0	144621	8:20	8	0	1	λ<1500 good MN=	"
"	HD11753 30	A3V 5.1	α 1, 52, 17.6 δ −42, 44, 30 R 205, 31, 18	H	LWR 14327 1+3	22774 218 OF	−1.9 0.08 15.2	L	0	160331	8:00	5	0	2	~~unsaturated~~ 4m HTR C=224 B=39 MN=	"
"	HD28978 37	A2V 5.7	α 4, 31, 28.6 δ 5, 27, 55 R 268, 51, 11.5	H	LWR 14328 1+4	15596 81 OF	−1.04 0.08 15.5	L	0	165603	23:00	5	0	3	C=230 B=44 4 MIN HTR MN=	"
"	HD28910 31	A8V 4.7	α 4, 31, 0.5 δ +14, 44, 27 R 274, 27, 13	H	LWR 14329 1+5	16648 ~ OF	−1.23 0.08 15.9	L	0	180423	12:40	5	0	3	4m HTR C=222 B=42 MN=	"
"	HD 60178/9 35	AφV+Am 1.6	α 7, 31, 24.7 δ +31, 59, 58 R 259, 14, 31.3	H	LWR 14330 1+6	5260 ~ OF	−1.68 0.08 15.9	L	0	190829	0:30	6	0	2	C=255 B=40 4 MIN HTR MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 18197 1+7	5376 ~ UF	−1.18 0.08 9.8	L	0	193746	3:00	8	0	1	MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 18198 1+8	5337 ~ UF	−1.18 0.08 9.8	L	0	200507	0:30	4	0	0	C=162 B=20 MN=	"

OBSERVATORY LOG

DATE D 3 M OCT Y 82 RAW TAPE D 3 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE n_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undev/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EAφ51	HD.91312 31	A8III-IV 4.7	α 10, 30, 19.3 δ 40, 41, 0 R 220, 39, 6	H	LWR 14331 1+9	27721 830 FO	−1.09 0.08 10.2	L	0	203525	12:30	5	0	2	4 MIN-HTR Fe MN=	FREIRE A.C
"	HD116656 30	A2V 2.3	α 13, 21, 54.9 δ +55, 11, 09 R 166, 48, 44	H	LWR 14332 1+10	13557 ~ FU	−1.03 0.08 15.5	L	0	214530	0:40	1	0	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE: D 4 M OCT Y 82 — RAW TAPE: D 4 M OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
AB 588	GK PER 55	Old Nova 13.3	α 3, 27, 47.5 δ 43, 44, 4.6 R 304, 19, 34.5	L	LWR 14335 1 + 1	78 8 SO	-1.7 .08 15.9	L	O	14:54:11	409:00	4	9	8	4 MIN HTR. MN=	BIANCHINI PP
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: D 5 M OCT Y 82 — RAW TAPE: D 5 M OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 283	CH DRA 66	M4+M 12.8	α 16, 33, 24 δ 57, 15, 0 R 120, 12, 28.4	L	LWR 14341 1 + 1	130 0 SO	-.8 .08 14.2	L	O	15:03:22	120:00	1	3	4	4 MIN HTR ONLY Mg II NO CONTINUUM MN= 739	KEENAN PP
" "	EV LAC 66	M4.5 10.2	α 22, 44, 40 δ 44, 4, 36 R 42, 3, 33.5	L	SWP 18213 1 + 2	355 0 FO	-1. .08 9.5	L	O	17:40:48	100:00	1	3	0	NO CONTINUUM MN=	" "
" "	" "	" "	α , " , δ , " , R , " ,	L	LWR 14342 1 + 3	362 11 FO	-.3 .08 14.8	L	O	19:24:45	25:00	1	4	2	4 MIN HTR ONLY Mg II no continuum MN=	" "
" "	" "	" "	α , " , δ , " , R , " ,	L	SWP 18214 1 + 4	347 2 FO	-.1 .08 10.5	L	O	19:55:05	112:00	1	3	1	NO CONTINUUM. MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 6 M OCT Y 82 RAW TAPE D 6 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 283	CH DRA 66	M4+M 12.8	α 16, 33, 24 δ 57, 15, 00 R 121, 12, 58.9	L	SWP 18223 1+1	135 0 SO	-1.8 .12 7.8	L	O	14:48:49	120:00	1	0	1	NO SPECTRUM VISIBLE MN=	KEENAN PP
"	EV LAC 66	M4.5 10.2	α 22, 44, 40 δ 44, 4, 36 R 43, 23, 31.4	L	SWP 18224 1+2	347 5 FO	-2.2 .08 9.5	L	O	17:44:37	110:00	1	3	1	NO CONTINUUM MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 14346 1+3	359 4 FO	-.6 .08 12.8	L	O	19:38:11	25:00	1	4	2	4 MIN HTR ONLY MgII, FeII no continuum MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 18225 1+4	360 2 FO	-.3 .08 9.5	L	O	20:10:22	97:00	1	3	0	NO CONTINUUM MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 7 M OCT Y 82 RAW TAPE D 4 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 125	BS 135 40	F2 10.	α 7, 17, 56.5 δ -44, 29, 35 R 271, 6, 38.3	L	LWR 14348 1+1	257 1 FO	-2.5 .08 13.2	L	O	14:47:29	60:00	7	9	3	4 MIN HTR MN= 763	REIPURTH PP
"	"	"	α , , δ , , R , ,	L	SWP 18235 1+2	354 1 FO	-1.9 .08 8.5	L	O	15:53:43	120:00	5	0	1	MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 14349 1+3	258 1 FO	-1.1 .08 13.8	L	O	17:51:20	30:00	5	8	3	4 MIN - HTR MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 18236 1+4	260 4 FO	-1.5 .08 9.8	L	O	18:32:00	130:00	4	0	1	MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 14350 1+5	378 132 FO	-1.3 .08 14.2	L	O	20:45:50	10:00	3	4	2	EARTH scan off on FES MN= 535	"
"	FU OR 58	T Tauri 9.	α 5, 42, 38 δ 9, 3, 0 R 267, 7, 7.9	L	LWR 14351 1+6	647 4 FO	-.5 .08 14.8	L	O	21:39:45	10:00	2	3	2	MN= 315	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE: D 8 M OCT Y 82 — RAW TAPE: D 8 M OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/E.S	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

NO SUPPORT DUE TO ESTEC PERSONNEL ON STRIKE

OBSERVATORY LOG

DATE: D 9 M OCT Y 82 — RAW TAPE: D 8 M OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/E.S	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC268	HD 163930	FS+KO	α 17, 55, 51.5 δ 15, 8, 27 R 100, 7, 12.1	L	LWR 14363 1+1	3664 10 f/0	-1.16 0.28 15.9	L	0	14:41:19	9:00	7	0	4	FES AT EXP. END = 3632 4 MIN-HTR MN=	MOE / P.B.
	4	7.63	α , , δ , , R , ,	L	LWR 14364 1+2	3800 17 f/0	-.6 0.10 15.9	L	0	15:20:01	18:00	7	0	4	FES AT EXP. END = 3631 4 MIN HTR MN=	4 /
		7.64	α , , δ , , R , ,	L	LWR 14365 1+3	3771 20 f/0	-.98 0.08 15.9	L	0	16:06:23	4:00	5	0	2	FES AT EXP. END = 3696 4 MIN HTR MN=	4 /
	4	7.71	α , , δ , , R , ,	L	LWR 14366 1+4	3528 17 f/0	-.98 0.08 15.9	L	0	16:42:42	10:00	7	0	2	FES AT EXP. END = 3458 4 MIN HTR MN=	/
	A	7.80	α , , δ , , R , ,	L	LWR 14367 1+5	3236 15 f/0	-.98 0.08 16.2	L	0	17:22:17	12:00	7	0	3	FES AT EXP. END = 3092 4 MIN HTR MN=	/
		7.95	α , , δ , , R , ,	L	LWR 14368 1+6	2826 18 f/0	-.57 0.08 16.2	L	0	18:01:44	16:00	7	0	3	FES AT EXP. END = 2629 4 MIN HTR MN=	/
		8.15	α , , δ , , R , ,	L	LWR 14369 1+7	2349 16 f/0	-.31 0.08 16.2	L	0	18:49:13	23:00	7	0	3	FES AT EXP. END = 2110 4 MIN HTR MN=	/
		8.38	α , , δ , , R , ,	L	LWR 14370 1+8	1899 15 f/0	-.91 0.08 16.2	L	0	19:41:55	50:00	7	0	4	FES AT EXP. END = 1741 4 MIN HTR MN=	/

OBSERVATORY LOG

DATE (D M Y): 9 OCT 82 RAW TAPE (D M): 9 OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/F.S	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 269	HD163930 53	F5+kd 8.4	α 17 , 55 , 51.5 δ 15 , 8 , 27 R 100 , 7 , 12.1	L	LWR 14371 1 + 9	1869 14 1 0	-.91 0.08 16.5	L	0	21:07:31	35:00	7	0	4	FES AT EXP. END = 2198 4 MIN+HT MN=	MOE / BENNDWS
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE (D M Y): 10 OCT 82 RAW TAPE (D M): 10 OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/F.S	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EAØØ7	[illegible] TFLOOD 50%	/	α [illegible] , [illegible] , [illegible] δ [illegible] , [illegible] , [illegible] R , ,	–	SWP 18246 1 + 1	/	0.18 8.8	–	–	00:08	1413:02	2	0	6	SEARCHING FOR REMNANTS MN=	SANZ FERC / P.B.
	M33 - VAR 83 53	14.3	α 1 , 31 , 21.6 δ 30 , 19 , 17 R 341 , 47 , 15.7	L	SWP 18247 1 + 2	34 — Δ 0	0.2 0.08 13.5	L	0	380:1e	15:21:04	2	0	2	MN=	SANZ FERC / P.B.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: D 11 M OCT Y 82 RAW TAPE: D 11 M OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot under/E.s	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 273	HD 164284 26	Be 3	α 17,57,47 δ 4,22,12 R 98,24,51.2	H	SWP 18257 1+1	388 74 FU	-1.1 .10 8.2	L	O	14:12:40	2:00	5	0	1	MN=	HOWARTH PP
"	HD 5394 26	Be 2	α 0,53,40.3 δ 60,26,47 R 3,20,2.1	H	SWP 18258 1+2	3954 855 FU	-.9 .08 8.5	L	O	14:66:38	0:08	5	0	1	MN=	"
"	HD 37490 26	Be 4.5	α 5,36,32.6 δ 4,5,41 R 264,14,25.1	H	SWP 18259 1+3	436 88 FU	-1.4 .08 8.8	L	O	15:46:29	2:10	5	0	1	MN=	"
"	A 0538-66 22	B 14.	α 5,35,42.8 δ -66,53,40 R 246,49,3.7	L	LWR 14384 1+4	BO	-1.9 .08 13.2	L	O	16:44:39	30:00	3	0	3	GUIDE: x=745 ds 160 FO y=-29 4 MIN INTR MN= 763	"
"	"	"	α , , δ , , R , ,	L	SWP 18260 1+5	BO	-1.3 .08 8.8	L	O	17:21:04	40:00	3	0	0	GUIDE. x=944 ds 110 FO y=-218 MN=	"
PH CAL	HD 60753 21	B3III 6.7	α 17,32,8.1 δ -50,28,29 R 270,47,8.3	L	LWR 14385 1+6	7045 71/610 FO	-.6 .08 13.8	L O S		18:23:37 18:26:48	0:07 0:21	5 6	0	2	MN= 559	PATRIARCHI PP
"	"	"	α , , δ , , R , ,	L	LWR 14386 1+7	7114 70 FO	-1.3 .08 13.8	L	O	18:57:52	0 min 31.2 sec	5	0	2	TRAILED RATE = 0.641 arcsec/sec ITER = 1 MN= 327	"
"	"	"	α , , δ , , R , ,	L	LWP 1690 1+8	7206 17/508 FO	-2.1 .08 7.5	L O S		19:53:57 19:58:28	0:06 0:18	5 6	0	2	MN=	"

OBSERVATORY LOG

DATE: D 11 M OCT Y 82 RAW TAPE: D 11 M OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot under/E.s	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PH CAL	HD 60753 21	B3III 6.7	α 7,32,8.1 δ -50,28,29 R 270,47,8.3	L	LWP 1691 1+9	6976 602 FO	-2.5 .08 8.5	L	O	20:31:06	0 min 25.6 sec	5	0	2	TRAILED RATE = 0.781 arcsec/sec ITER = 1 MN=	PATRIARCHI PP
PH CAL	NULL		α , , δ , , R , ,		LWR 14387 1+10										SAFETY READ MN=	
"	HD 60753 21	"	α , , δ , , R , ,	L	SWP 18261 1+11	6973 21/320 FO	-2.5 .08 9.2	L S	O	21:28:01 21:31:48	0:10 0:30	5 6	0	0	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 12 M OCT Y 82 RAW TAPE D 12 M OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. / slot / undov/f.s	FOCUS BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC 268	HD 6980 39	F7+G5 9.7	α 1, 7, 20.8 δ −46, 31, 55 R 179, 45, 34.2	L	LWR 14392 1+1	560 15 FO	−2.5 .08 14.2	L	O	15:02:00	75:00	5	0	3	4 MIN. = HTR MN=	MOE PP
〃	〃	〃	α 〃 〃 δ 〃 〃 R 〃 〃	L	LWR 14393 1+2	637 4 FO	−1.8 .08 14.2	L	O	16:46:24	70:00	7	0	4	4 MIN - HTR MN=	〃 〃
〃	〃	〃	α 〃 〃 δ 〃 〃 R 〃 〃	L	LWR 14394 1+3	825 2 FO	−1. .08 14.5	L	O	18:26:50	50:00	4	0	3	4 MIN - HTR MN=	〃 〃
〃	〃	〃	α 〃 〃 δ 〃 〃 R 〃 〃	L	LWR 14395 1+4	972 2 FO	−.6 .08 14.5	L	O	19:46:57	39:00	4	0	3	4 MIN - HTR MN=	〃 〃
〃	〃	〃	α 〃 〃 δ 〃 〃 R 〃 〃	L	LWR 14396 1+5	1058 2 FO	−1.5 .08 14.5	L	O	20:58:38	40:00	7	0	2	4 MIN - HTR MN=	〃 〃
			α 〃 〃 δ 〃 〃 R 〃 〃		1+										MN=	
			α 〃 〃 δ 〃 〃 R 〃 〃		1+										MN=	
			α 〃 〃 δ 〃 〃 R 〃 〃		1+										MN=	

OBSERVATORY LOG

DATE D 13 M Oct Y 82 RAW TAPE D 13 M OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. / slot / undov/f.s	FOCUS BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 077	Ngc 3622 80	14.0	α 11, 17, 10 δ 67, 30, 55 R 203, 07, 45	L	SWP 18270 1+1	B/0	−.05 .08 10.2	L	O	14/57/55	60/0	2	1	0	MN=	BROSCH W.W.
〃	〃	〃	α 〃 〃 δ 〃 〃 R 〃 〃	L	LWR 14400 1+2	B/0	−1.3 .08 13.8	L	O	16/02/45	120/0	2	1	2	4-MIN HTR MN=	〃 〃
〃	〃	〃	α 〃 〃 δ 〃 〃 R 〃 〃	L	SWP 18271 1+3	B/0	−.9 .08 9.8	L	O	18/05/24	60/0	2	1	0	Oska dropout at Y = 441 MN=	〃 〃
4	Ngc 3682 80	13.4	α 11, 24, 45 δ 66, 51, 54 R 207, 29, 45	L	LWR 14401 1+4	68 8 S.O	−.9 .08 14.5	L	O	20/20/16	73/0	2	1	3	4-MIN HTR MN=	〃 〃
			α 〃 〃 δ 〃 〃 R 〃 〃		1+										MN=	
			α 〃 〃 δ 〃 〃 R 〃 〃		1+										MN=	
			α 〃 〃 δ 〃 〃 R 〃 〃		1+										MN=	
			α 〃 〃 δ 〃 〃 R 〃 〃		1+										MN=	

OBSERVATORY LOG

DATE: 14 Oct 82 RAW TAPE: 14 Oct

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 164	HD ~~[illegible]~~ 25204 21	B3V+ A3IV 3.5	α 3, 57, 54 δ 12, 20, 30 R 272, 13, 06	H	SWP 18283 1 + 1	1157 190 OV.F	-1.8 .08 10.2	L	O	14/52/27	0/40	5	0	0	MN=	Heintze / de Rand[illegible] WW.
"	H.D 4161 66	B9.5 +Fi	α 0, 42, 20 δ 74, 42, 30 R 8, 58.47	L	LWR 14406 1 + 2	15179 315 OV.F	-1.4 .08 14.5	L	O	15/37/30	1/00	8	0	2	4-MIN HTR MN=	"
"	"	"	α , , δ ", ", " R , ,	H	SWP 18284 1 + 3	"	-1.4 .08 10.5	L	O	15/42/16	30/0	5	1	0	MN=	"
"	"	"	α , , δ , ", " R , ,	L	LWR 14407 1 + 4	"	-1.5 .08 14.8	L	O	16/15/43	0/29	6	0	2	4 MIN-HTR MN=	"
"	HD 1486 ~~[illegible]~~ 22	B9+S7 7.3	α 00, 16, 33 δ 58, 51, 30 R 18, 44, 57	H	SWP 18285 1 + 5	4212 " OV.P	-1.2 .08 10.5	L	O	17/03/19	75/0	5	0	1	MN=	"
"	H.D 198288 25	B8Ia+ F0 8.0	α 20, 46, 6 δ 39, 6, 0 R 81, 55, 44	L	LWR 14408 1 + 8	3095 6 OV.F	-.2 .08 14.5	L	O	19/12/32	2/0	3	0	2	4 MIN HTR MN=	"
"	"	"	α , , δ ", ", " R , ,	L	SWP 18286 1 + 6	"	-.2 .08 10.8	L	O	19/18/13	10/0	2	0	0	MN=	"
"	HD 156633 22	B1.5V +B6III	α 17, 15, 30 δ 33, 09, 0 R 114, 31, 22	H	SWP 18287 1 + 7	360 140 4.F	-1.1 .08 10.5	L	O	20/15/24	1/30	5	0	0	MN=	"

OBSERVATORY LOG

DATE: 14 Oct 82 RAW TAPE: 14 Oct

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 164	HD 136175 22	B6V+ F8IV 7.5	α 15, 16, 9 δ 31, 50, 00 R 139, 13, 45	H	SWP 18288 1 + 9	2643 10 OV.F	-1.7 .08 10.2	L	O	21/09/55	37/0	4	0	0	MN=	Heintze de Landtsheer WW.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 15 M Oct Y 82 RAW TAPE D 15 M Oct

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot under/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 077	2.0902+36 80	13.5	α 9,2,37.2 δ +36,30,18 R 247,14,00	L	SWP 18299 1+1	B/0	-1.3 .08 8.5	L	O	14/50/[illegible]	120/0	1	1	0	MN=	BROSCH WW.
"	"	"	α , , δ " , " , " R , ,	L	LWR 14411 1+2	B/0	-1.1 -.08 13.2	L	O	16/54/53	120/0	1	1	4	4 MIN-HTR MN= 663	"
	MGC 2684 80	14.0	α 8,51,24 δ 49,21,3 R 247,00,46	L	SWP 18295 1+3	B/0	-1.6 .08 8.8	L	O	19/41/51	125/0	2	1	1	spectrum very weak. MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 16 M OCT Y 82 RAW TAPE D 16 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot under/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE077	NGC 3682 80	13.5	α 11,24,45.3 δ 66,51,54 R 209,51,39.6	L	SWP 18305 1+1	B/0	-1.5 .20 9.8	L	O	15:16:20	100:00	2	0	1	GDE (1577, 160 128 50) MN=	BROSCH EC
"	NGC 2684 80	14.0	α 08,51,23.9 δ 49,21,03 R 247,28,36.6	L	LWR 14419 1+2	B/0	-.6 .08 13.8	L	O	17:30:21	100:00	2	0	3	GDE (-1285, -686, 231 50) 4 MIN-HTR MN=	"
"	NGC 4566 80	14.0	α 12,33,40.4 δ 54,29,46 R 193,49,26	L	LWR 14420 1+3	B/0	-1.3 .08 15.5	L	O	20:17:24	86:00	1	0	3	GDE (-504, -1062, 62 50) 4 MIN-HTR MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE: D 17 M OCT Y 82 RAW TAPE: D 17 M OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS / ref. p. slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 261	HD 44458 20	B1 Ve 5.84	α 06, 19, 04.8 δ −11, 44, 56 R 257, 16, 42.5	H	SWP 18306 1+1	17363 69 FO	1.6 .10 7.5	L	O	14:20:51	07:30	5	5	1	GDE(−191, 1108 729 FO) MN=	SOMERVILLE ee
"	HD 24131 20	B0.5 V 5.76	α 03, 48, 41.5 δ 34, 12, 35 R 299, 16, 7.8	H	SWP 18307 1+2	14476 65 FO	2.3 .08 7.5	L	O	15:08:22	05:00	5	0	1	NO GDE MN=	"
"	HD 4180 24	B5 III 4.5	α 00, 41, 55.6 δ 48, 00, 40 R 17, 24, 37.9	H	SWP 18308 1+3	430 79 FU	1.0 .08 7.8	L	O	16:01:19	04:00	5	0	0	NO GDE MN=	"
"	HD 217109 20	B2 IV 6.17	α 22, 55, 21.8 δ 39, 02, 28 R 58, 48, 50.6	H	SWP 18309 1+4	11461 36 FO	−.2 .08 8.2	L	O	16:41:29	06:00	5	0	1	NO GDE MN=	"
"	HD 190066 23	B1 Iab 6.48	α 20, 00, 11.7 δ 22, 00, 40 R 95, 30, 20.4	H	SWP 18310 1+5	7877 23 FO	−.3 .08 9.2	L	O	17:26:02	49:00	7	0	1	GDE(1035, −979 185 FO) MN=	"
"	HD 184915 23	B0.5 III 4.96	α 19, 34, 12.0 δ 07, 08, 25 R 99, 18, 27.8	H	SWP 18311 1+6	25759 89 FO	−1.6 .08 8.8	L	O	18:59:08	03:20	5	0	1	NO GDE MN=	"
"	HD 154445 20	B1 V 5.63	α 17, 02, 57.4 δ −00, 49, 30 R 100, 43, 59.6	H	SWP 18312 1+7	16097 46 FO	−1.1 .08 8.8	L	O	19:43:40	08:00	5	0	1	GDE(937, −807 157 FO) MN=	"
	HD 163472 20	B2 IV 5.81	α 17, 53, 45.3 δ 00, 40, 35 R 100, 17, 36.8	H	SWP 18313 1+8	14483 28 FO	−.8 .08 8.8	L	O	20:35:58	11:00	5	0	1	GDE(−887, 682 475 FO) MN=	"

OBSERVATORY LOG

DATE: D 17 M OCT Y 82 RAW TAPE: D 17 M OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS / ref. p. slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 261	HD 170740 20	B2 IV 5.72	α 18, 28, 39.1 δ −10, 49, 55 R 96, 33, 32.2	H	LWR 14427 1+9	14440 500 FO	−.8 .08 185	L	O	21:05:20	8:30	4	0	2	NO GDE 4 MIN-AIR MN=	SOMERVILLE ee
"	"	"	α , , δ , " , R , ,	H	SWP 18314 1+10	14323 460 FO	−.7 .08 8.5	L	O	21:25:03	22:00	5	0	1	NO GDE MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 18 M OCT Y 82 RAW TAPE D 18 M OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undev/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.H.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 073	NOVA HOYA 55	9.2	α 18,31,33.1 δ -26,28,25 R 92,07,52	L	SWP 18323 1+1	895 5 FO	-1.6 .08 9.2	L	O	15:17:11	05:00	3	0	0	GDE(865,98 776 FO) MN=	DRECHSEL-BLADES ee
"	"	"	α , , δ , , R , ,	L	LWR 14433 1+2	883 3 FO	-1.6 .08 14.2	L	O	15:26:49	05:00	5	6	1	GDE(665,238 688 FO) 4 MIN-HTR MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 18324 1+3	873 2 FO	-1.5 .08 9.2	L	O	15:57:56	60:00	7	9	1	GDE(865,98, 757 FO) MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 14434 1+4	860 5 FO	-1.4 .08 16.2	L	O	17:02:18	20:00	7	9	2	GDE(665,237 723) 4 MIN-HTR MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 18325 1+5	859 4 FO	-1.8 .08 9.8	L	O	17:29:28	30:00	5	5	0	GDE(863,96 704) MN=	"
"	HD 317844 66	B1 V ~9	α 17,31,09 δ -32,28,27 R 81,40 31.4	L	LWR 14435 1+6	844 5 FO	-.8 .08 14.5	L	O	18:24:27	01:10	4	0	2	NO GDE 4 MIN-HTR MN=	DRECHSEL ee
"	"	"	α , , δ , , R , ,	H	SWP 18326 1+7	876 3 FO	-.7 .08 9.8	L	O	8:54:09	140:00	5	0	2	GDE(419,1219 173 FO) MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 18327 1+8	1153 2 FO	-1.4 .08 10.8	L	O	21:40:39	01:30	5	0	1	MN=	"

OBSERVATORY LOG

DATE D 19 M OCT Y 82 RAW TAPE D 19 M OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undev/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.H.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 073	NOVA HOYA 55	9.5	α 18,31,33.1 δ -26,28,25 R 92,03,47	L	SWP 18329 1+1	650 2 FO	-.4 .40 7.5	L	O	15:10:44	40:00	5	5	1	GDE(865,97 778 FO) MN=	DRECHSEL-BLADES ee
"	"	"	α , , δ , , R , ,	L	LWR 14441 1+2	644 4 FO	-.2 .20 13.8	L	O	15:57:15	25:00	7	9	2	GDE(665,237 726 FO) 4 MIN-HTR MN= 768	"
"	"	"	α , , δ , , R , ,	L	SWP 18330 1+3	636 6 FO	-.1 .08 8.2	L	O	16:25:23	30:00	4	5	1	GDE(865,95 739 FO) MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 14442 1+4	605 3 FO	-.9 .08 13.8	L	O	16:58:20	06:00	5	6	2	GDE(664,237, 743 FO) 4 MIN-HTR MN=	"
"	RT SCL 66	10.5	α 00,33,59 δ -25,56,57 R 155,39,11.8	L	SWP 18331 1+5	268 1 FO	-1.6 .08 8.5	L	O	18:08:25	24:00	3	0	1	GDE(301,-175 71 SO) MN=	DRECHSEL ee
"	"	"	α , , δ , , R , ,	L	LWR 14443 1+6	251 2 FO	-1.5 .08 13.5	L	O	18:49:27	22:00	6	0	3	NO GDE Two stella added MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 14443 1+6	226 2 FO	-1.8 .08 13.8	L	O	19:26:53	38:00	6	0	3	Lock on 96,-42,30 SO 4 MIN-HTR MN=	"
"	BH CEN 66	B3 V 10.7	α 11,36,49 δ -63,08,36 R 324,41,1.9	L	SWP 18332 1+7	226 1 FO	.2 .08 8.5	L	O	20:43:16	08:30	4	0	1	GDE(1428, -592, 9345 FO) MN=	"

OBSERVATORY LOG

DATE: D 19 M OCT Y 82 RAW TAPE: D 19 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI093	BH CEN 66	B3 V 10.6	α 11 . 36 , 49 δ -63 , 08 . 36 R 324 , 41 . 19	L	LWR 14444 1 + 9	240 5 FO	1.4 .08 13.8	L	O	21:20:30	06:00	5	0	2	GDE (1220, -457, 9627 FO) 4 MIN-HTR MN=	DRECHSEL CC
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: D 20 M OCT Y 82 RAW TAPE: D 20 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA115	HD 188728 36	A Boo 5.23	α 19 . 53 , 52 δ 11 , 17 . 00 R 99 , 15 . 46.3	H	LWR 14449 1 + 1	19700 54 FO	1.2 .08 13.5	L	O	14:24:52	15:00	7	0	2	GDE (-753, 576, 342 SO) 250 tx. lat. 4 MIN-HTR MN=	KOEPPEN CC
"	NGC 6853 70	PN	α 19 , 57 , 26.6 δ 22 , 34 , 45 R 97 , 39 . 2.2	H	SWP 18340 1 + 2	B/O	1.9 .08 9.2	L	O	15:05:37	150:00	1	3	1	GDE (1129, 1080, 1066 FO) MN=	"
"	SB 290 20	Sd B2 10.3	α 00 , 40 . 30 δ -38 , 24 . 00 R 161 , 22 . 9.8	H	LWR 14450 1 + 3	255 1 FO	.7 .08 13.8	L	O	18:22:23	101:00	5	0	0 *	GDE (375, 1566, 75 SO) 4 MIN-HTR MN=	"
"	"	"	α , , δ , " , R , ,	H	SWP 18341 1 + 4	256 1 FO	.8 .08 9.5	L	O	20:06:29	101:00	4	0	1	GDE (573, 1424, 67 SO) MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

* B = 14. During the previous SPREP there was a memory failure. After the first T-flood, the high read was done with ~ 10 minutes delay. Last news: it was not done. CC

OBSERVATORY LOG

DATE D 21 M OCT Y 82 RAW TAPE D 21 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA115	HD80081 36	λ Boo 3.78	α 9, 15, 43.5 δ 37, 01, 30 R 247. 1, 41.6	L	SWP 18353 1+1	714 170 FU	-2.2 .08 9.8	L S	O	15:02:58 15:07:11	00:06 00:35	5 5	0	1	MN=	KOEPPEN ee
"	"	"	α , , δ , , R , ,	L	LWR 14456 1+3	720 152 FU	-1.8 .08 11.8	L S	O	15:11:20 15:15:22	00:05 00:05	6 4	0	2	30fx sat in LGAP 4 MIN-HTR MN= 774	"
"	"	"	α , , δ , , R , ,	L	SWP 18354 1+2	765 97 FU	-.9 .08 9.8	L S	O	15:53:14 16:00:51	00:15 00:45	7 7	0	0	Smap. 600 fx sat Lgap. 300 fx sat MN=	"
"	OV1032+40 20	B2 11.5	α 10, 32, 18.0 δ 40, 36, 00 R 231. 42, 0.6	H	SWP 18355 1+4	100 1 FO	-.8 .08 9.8	L	O	16:56:21	130:00	4	0	2	GDE(-348, 211 127 FO) MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 14457 1+6	96 0 FO	-1.0 .08 14.5	L	O	19:11:02	130:00	3	0	4	GDE(-544, 349 96 FO) 4 MIN-HTR MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 18356 1+5	411 2 50	-.5 .08 10.2	L S	O	21:26:14 21:32:28	01:40 03:00	4 4	0	0	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 22 M Oct Y 82 RAW TAPE D 22 M Oct

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA115	MGC 6905 70	15	α 20, 20, 09 δ 13, 56, 38 R 97, 29, 24	H	SWP 18366 1+1	8/0	-.5 .08 9.5	L	O	14/39/45	200/0	2	4	2	MN=	koppen WW
"	SB290 28	10.3	α 00, 40, 30 δ -38, 24, 00 R 159, 17, 57	H	LWR 14464 1+2	248 0 F.0	-1.1 .08 13.8	L	O	18/47/51	82/0	4	0	3	4 min Htr. MN= 803	"
"	SB939 28	10.4	α 23, 57, 48 δ -39, 40, 00 R 147. 31, 22	H	SWP 18367 1+3	288 3 F.0	-1.7 .08 9.5	L	O	20/36/13	71/0	3	0	0	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 23 M OCT Y 82 RAW TAPE D 23 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 258	Tol 0109 -38 84	14.4	α 1, 9, 9.6 δ -38, 20, 56 R 167, 7, 59	L	SWP 18374 1+1	43 5 01.5	-1.8 .08 9.2	L	0	15/31/36	375/0	2	3	2	MN=	Snijders WW
EE 258	Serendipity	/	α 1, 9, 9.6 δ -38, 20, 56 R 167, 7, 59	L	LWR 14469 1+2		-1.3 .08 13.8	L	0	15/51/17	320/0	0	0	8	MN= 287	SNyders WW
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 24 M OCT Y 82 RAW TAPE D 24 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 255	NGC 1275 Sey II 84"	/ 13.2	α 03, 16, 29.8 δ 41, 19, 51 R 322, 29, 45.3	L	LWR 14475 1+1	66 10 S/O	-1.6 .08 13.5	L	0	15:16:14	150:00	3	4	4	4 MIN-HTR MN=	SNIJDERS JCB
"	"	"	α , , δ , , R , ,	L	SWP 18384 1+2	67 9 S/O	-1.5 .08 8.6	L	0	17:52:30	232:00	2	4	1	FES CNTS 61,69 S/O of 21.59 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE: D 25 M OCT Y 82 — RAW TAPE: D 25 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot / undev/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
STAN	HD159561 31	A5 2.2	α 17,32,36.6 δ 12,35,41 R 112,31,5.3	L	LWR 14482 1+1	3211 Ø F.U.	-1.Ø .08 12.8	L	O	14:28:19	0:2.5	4	5	2	TRAILED R=7.8 1 ITER., 4 MIN-HTR MN=	C. BIANCHI LB
"	HD28319 40	FØ 3.6	α 4,25,48.2 δ 15,45,41 R271,10,48.5	L	LWR 14483 1+2	1055 Ø 380 F.U.	-1.3 .08 12.8	L	O	15:34:07	0:9.6	4	5	2	TRAILED R=2.08 1 ITER. 4 MIN-HTR MN=	"
			α , , δ " , " , " R , ,	L	SWP 18390 1+2	1082 Ø/385 F.U.	-1.8 .08 8.5	L	O	16:01:39	0:31	5	Ø	Ø	TRAILED R=0.63 1 ITER. MN=	"
"	HD210221 30	A3p 6.8	α 22,5,34.2 δ 53,3,45 R 70,42,17.5	L	SWP 18391 1+4	10118 550 F.O.	-2.0 .08 7.5	L	O	17:35:08	1:45	2	1	1	TRAIL R=0.19 1 ITER. MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 14484 1+5	9938 23 F.O.	-.45 .08 13.2	L	O	17:58:40	0:51	3	3	2	TRAIL R=0.39 1 ITER. 4 MIN-HTR MN=	~~T. SNIJDERS~~ LB
EE255	NGC 1275 84	Sey 2 13.5	α 3,16,29.8 δ 41,19,51 R 323,62,48.3	L	SWP 18392 1+6	63 14 S.O.	-15 .08 8.2	L	©	19:23:10	192:00	3	3	1	TRAIL FES CTS: 69 (S.O) 21:47 MN=	T. SNIJDERS "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE: D 26 M OCT Y 82 — RAW TAPE: D 26 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot / undev/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA100	AB AUR 34	Ae 7.2	α 4,52,34.2 δ 30,28,22 R 284,51,40.4	H	LWR 14497 1+1	4818 13 F.O.	-1.1 .08 15.5	L	O	14:36:57	45:00	4	5	3	4 MIN - HTR MN=	F. PRADERIE LB
"	"	"	α , , δ " , " , " R , ,	L	SWP 18404 1+2	4826 6 F.O.	-1.1 .08 8.8	L	O	15:26:06	3:00	5	Ø	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	H	LWR 14498 1+3	4962 9 F.O.	-1.1 .08 15.5	L	O	15:57:24	45:00	5	5	3	4 MIN - HTR MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 18405 1+4	4866 14 F.O.	-1.1 .08 8.8	L	O	16:46:33	3:00	5	Ø	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	H	LWR 14499 1+5	4999 9 F.O.	-.7 .08 15.2	L	O	17:32:41	45:00	5	5	4	4 MIN - HTR MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 18406 1+6	4905 10 F.O.	-0.76 0.08 8.5	L	O	18:20:44	3:00	5	Ø	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	H	LWR 14500 1+7	4903 17 F.O.	-.4 .08 14.8	L	O	18:52:41	45:00	5	5	3	4 MIN - HTR MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 18407 1+8	4928 17 F.O.	-1.3 .08 8.5	L	O	19:42:01	3:00	5	Ø	1	MN=	"

OBSERVATORY LOG

DATE D 26 M OCT Y 82 RAW TAPE D 26 M OCT

PAGE 2

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BRG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA100	18 AUR 34	Ae 7.2	α 4, 52, 34.2 δ 30, 28, 22 R 284.51.40.4	H	LWR 14501 1+9	4939 14 F.O.	-.57 .08 14.8	L	O	20:14:55	45:00	5	5	3	4 MIN-HITR MN=	F. PRADERIE / HB
"	"	"	α , , δ " , " , " R , ,	L	LWP 18408 1+10	4883 9 F.O.	-1.1 0.08 8.5	L	O	21:03:58	3:00	5	Ø	Ø	MN=	"
"	"	"	α , , δ " , " , " R , ,	H	LWR 14502 1+	4919 11 F.O	-1.1 .08 14.8	L	O	21:35:56	45:00				IMAGE READ AT GSFC. MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 27 M OCT Y 82 RAW TAPE D 27 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BRG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM233	ESO 141-G55 84	Sey I 14	α 19, 16, 57.0 δ -58, 45, 51.9 R 86, 27, 30.2	H	LWP 1697 1+	50 4 S/O	-1.8 0.08 8.2	L	O	15:47:00	960:	4	4	9	FES 1383 IMAGE READ AT GSFC MN=	BLADES JCB
"	"	"	α , , δ NULL , R , ,		LWP 1696 1+1										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE: D 28 M OCT Y 82 RAW TAPE: D 28 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM233	ESO 141-G55 84	Sey II 14	α 19 , 16 , 57.0 δ -58 , 45 , 51.9 R 85 , 50 , 17.8	H	LWP 1698 1 +	50 S/o	-21 ·08 12.5	L	O	14:18:21 +21:39:3,					started + read GSFC MN=	Blades VCB
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: D 29 M OCT Y 82 RAW TAPE: D 29 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 020	HZ HER 59	— 14	α 16 , 56 , 1.6 δ 35 , 25 , 5 R 133 , 54 , 47.5	L	SWP 18425 1 + 1	35 2 5.0	.3 .08 10.5	L	O	15:37:04	75:00	3	3	1	MN=	H. SCHMIDT / LB
"	"	"	α , , δ " , " , " R , ,	L	LWR 14517 1 + 2	25 2 5.0	.5 .08 14.5	L	O	16:57:32	174:00	3	3	5	4 MIN-HTR MN= 774	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 18426 1 + 3	8.0	-1.6 .08 10.5	L	O	19:56:05	75:00	3	3	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 14518 1 + 4	8.0	-1.6 .08 15.9	L	O	21:13:08	30:00	3	0	3	4 MIN-HTR MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: 30 OCT 82 RAW TAPE: 30 OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 233	ESO 141-G55 84	Sey I 14.1	α 19, 16, 57.0 δ -58, 45, 52 R 84, 31, 53.5	H	SWP 18434 1 +	42 S/O	-1.4 0.08 9.5	L	O	15 24 56	854	1	3	9	READ DOWN GSFC MN=	BLADES JCB
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: 31 OCT 82 RAW TAPE: 31 OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	NULL		α , , δ , , R , ,		LWR 14529 1 + 1	/									LO-READ. MN= 513	BLADES JCB
EI Ø73	NOVA SGR 82 55	9.8	α 18, 31, 33.1 δ -26, 28, 25.2 R 91, 14, 58.7	L	SWP ✓ 18439 1 + 2	525 F/O	-1.1 .08 9.8	L	O	15:08:06	30:00	4	5	0	guide cnts 864, 109, 740 MN=	— " —
"	"	"	α , , δ " , R , ,	L	LWR ✓ 14530 1 + 3	495 7 F/O	-1.0 .08 15.2	L	O	15:42:24	35:00	7	9	3	4-MIN-HTR good ≤ 2440 Å and ≥ 3110 MN= 744	— " —
"	"	"	α , , δ , " , R , ,	L	SWP 18440 1 + 12	503 1 S/O	-1.3 .08 10.2	L	O	16:16:40 17:02:06	30 min + 30 min	5	6	0	MN=	— " —
"	"	"	α , , δ , " , R , ,	L	LWR 14531 1 + 4	495 9 P/O	-1.3 .08 15.2	L	O	16:51:42	5:00	5	6	2	4-MIN-HTR Mg II 2800 sat few pixels MN=	— " —
PHCAL	NULL	"	α , , δ , " , R , ,		LWR 14532 1 + 5	/	.08 15.3								HIGH-READ MN= 351	— " —
"	UV60	"	α , , δ , " , R , ,		LWR 14533 1 + 6	/	.08 15.5			17:15:46	01:53				FINAL UV TEMP = 39 MN= 351	— " —
"	UV20	"	α , " , δ , , R , ,		LWR 14534 1 + 7	/	.08 15.5			18:45:56	00:38				FINAL UV TEMP = 36 MN=	— " —

⟵ read back at end of shift 1443.

OBSERVATORY LOG

DATE: D 31 M OCT Y 82 RAW TAPE: D 31 M OCT

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undow/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	UV120		α , , δ , , R , ,		LWR 14535 1+8	/	0.08 15.5			19:26:52	3:46				FINAL UV TEMP 41 MN=	BLADES JCB
"	UV60		α , , δ , , R , ,		LWR 14536 1+9	/	0.08 15.5			19:57:39	1:53				FINAL UV TEMP 39 MN=	"
"	UV160		α , , δ , , R , ,		LWR 14537 1+10	/	0.08 15.9			20:26:39	5:81				FINAL UV TEMP (READ ONLY) 39 MN=	"
	second read of UV160		α , , δ , , R , ,		LWR 14538 1+11	/	0.08 15.9								NULL READ MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE: D 1 M NOV Y 82 RAW TAPE: D 1 M Nov

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undow/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 255	NGC 1275 S4	Seyfert 13.6	α 3,16,29.5 δ 41,13,52 R 333 15 39.6	L	SWP 18447 1+1	63 9 F.O.	-2.0 .08 10.2	L	0	13 36 04	145.00	3	3	1	BOTTOM OF IMAGE LOST, FROM Y=297 MN=	T. SNIJDERS JVS
"	NGC 1068 34	Seyfert -	α 2,40,6.6 δ -0,13,21 R 208 2,6.6	L	LWR2 14543 1+2	B.O.	-1.3 .08 15.6	L	0	16 18 51	64:00	3	4	3	10" OFF-NUCLEUS P.A. = 314 4 MIN-HIGH MN= 7.38	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D M Y: 2 NOV 82 — RAW TAPE D M: 2 NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE253	E14-G55 84	Seyf 13.5	α 19 , 16 , 57.0 δ -58 , 45 , 22 R 82 , 34 , 33	L	SWP 18455 1 + 1	49 4 OS	-1.98 0.14 8.8	L	O	125640	60:00	3	4	0	Lyα (diffuse/non-uniform) 160 B=16 , CIV =129 C(1900Å) ~69 MN= —	BARR-DREW AC
"	NGC7469 84	Seyf 13.1	α 23 , 00 , 44.4 δ +8 , 36 , 16 R 101 , 52 . 48	L	SWP 18456 1 + 2	95 15 OS	-1.96 0.08 9.2	L	O	144241	40:00	3	3	0	CIV 96, B = 18 Lyα ~ 109 C(1900Å) ~63 MN= —	
"	"	"	α , , δ , , R , ,	L	LWR 14550 1 +	84 12 OS	-1.18 0.08 13.2	L	O	152636	30:00	3	4	3	E = 164 B = 29 C = 112 4MIN HTR MN= 779	
	PG1351+64 85	QSO 14.8	α 13 , 51 , 46.3 δ +64 , 00 , 18 R 189 , 1 , 10	L	SWP 18457 1 + 4	23 OS	-0.79 0.08 8.8	L	O	170713	160:00	3	4	2	b.o. Lyα 165 C(1900) ~ 70 B ~ 38 MN= —	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 3 Nov 82 — RAW TAPE D M: 3 NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 231	MRK335 84	Seyfert 13.8	α 0 , 3 , 45.3 δ 19 , 55 , 29 R 87 , 55 , 54.7	L	SWP 18462 1 + 1	53 9 S.O.	-1.5 .08 9.8	L	O	13:13:58	45:00	3	5	1	MN=	M. GASKELL / JB
"	"	"	α , , δ " , " , " R , ,	L	LWR 14554 1 + 2	53 7 S.O.	-.7 .08 14.2	L	O	14:04:57	140:00	6	6	4	REF. PNT. USED: -35, -208 4MIN-HTR MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 18463 1 + 3	50 3 S.O.	-.40 .08 9.5	L	O	16:37:53	40:00	3	5	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 14555 1 + 5	41 3 S.O.	-1.0 .08 15.2	L	O	17:23:00	100:00	5	5	4	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 18464 1 + 4	46 3 S.O.	-1.1 .08 11.8	L	O	19:14:13	30:00	3	5	1	REF. PNT: 3, -208 4MIN-HTR MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 4 M NOV Y 82 RAW TAPE D 4 M NOV

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE ϕ98	NGC 2784 80	Gal 11.5	α 9, 10, 5.0 δ -23, 58, 45 R 239, 15, 11.4	L	SWP 18471 1+2	297 10 DS	-1.48 0.08 10.2	L	O	14:16:05	331:00	1	0	3	B = 44 (1500 Å) MN=	ROCCA VOLMERANGE AC
"	NGC 2784 BACK	"	α , , δ , , R , ,	L	LWR 14561 1+1	✓	-1.40 0.08 14.5	L	O	143548	28010	0	0	2	Serendipity 4 MIN HR MN= ✓	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 5 M NOV Y 82 RAW TAPE D 5 M NOV

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
E ϕ98	NGC 1553 80	SO(2) 10.5	α 4, 15, 5 δ -55, 54, 12 R 203, 57, 54.1	L	SWP 18478 1+2	271 84 DS	-1.15 0.08 11.8	L	O	12 2538	441:00	2	0	4	B = 58 / C = 94 (1800 Å) MN=	ROCCA - VOLMERANGE AC
	NGC 1553 BACK 80	"	α , , δ , , R , ,	L	LWR 14566 1+1	✓	-1.15 0.08 16.5	L	O	12:55:18	370:00	0	0	2	4 MIN HR MN= ✓	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D M Y: 6 NOV 82 RAW TAPE D M: 6 NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ES 255	NGC1275 84	-13.5	α 3h, 16m, 29.8s δ 41°, 19', 51" R 341°, 56', 28.4"	L	SWP 18488 1 + 1	67 15 5.0.	-2.2 .20 102	L	O	12:57:13	210:00	3	4	2	MN=.	T. SNIJDERS AH
"	NGC 4151 84	~12	α 12h, 8m, 0s δ 39°, 41', 0" R 221°, 21', 59.0"	L	LWR 14573 1 + 2	277 19 5.0.	-1.5 .08 14.8	L	O	17:07:53	30:00	4	5	2	4 MIN HTR MN= 696	"
"	"	"	α , , δ , " , R , ,	L	SWP 18489 1 + 3	255 24 5.0.	-1.5 .08 11.8	L	O	17:41:23	25:00	3	5	0	MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 14574 1 + 4	254 10 5.0.	-1.3 .08 15.5	L	O	18:18:17	40:00	5	6	3	Mg II sat. (1x) 4 MIN HTR MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 18490 1 + 5	265 13 5.0.	-.7 .08 11.2	L	O	19:02:06	45:00	3	5	1	MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 7 NOV 82 RAW TAPE D M: 7 NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ES 284	Sky Background 90/07		α 6h, 7m, 14.1s δ 26°, 22', 35" R 271°, 59', 58.8"	L	SWP 18497 1 + 1	/	-1.8 .07 9.5	L	O	14:34:41	15.00	0	0	0	About 2' east of comet 1969 IV MN=.	M. WALLIS A.H.
"	comet 1969 IV 06	~12.5	α 6h, 7m, 32.3s δ 26°, 22', 00" R 271°, 59', 58.8"	L	LWR 14579 1 + 2	790 50 5.0.	-1.1 .08 11.2	L	O	16:11:51	40:00	2	2	2	drifts Δα = +115.5"/h Δδ = +39.1"/h MN= 916	"
"	"	"	α , , δ , " , R , ,	L	SWP 18498 1 + 3	165 17 5.0	-1.2 .08 92	L	O	16:56:33	7:10	0	3	0	Lyα MN=	"
"	Comet 1982 g 06	~11.0	α 13h, 04m, 16.2s δ +32°, 54', 20" R 210°, 54', 58.8"	L	SWP 18499 1 + 4	33 5 5.0.	-2.2 .08 92	L	O	18:01:57	15:00	0	3	0	Lyα MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 14580 1 + 5	32 5 5.0.	-1.8 .08 14.2	L	O	18:28:45	55:00	0	4	3	4 MIN HTR MN= 704	"
	Sky Background 90/07		α , , δ , " , R , ,	L	SWP 18500 1 + 6	/	-1.3 .08 92	L	O	19:27:58	15:00	0	2	0	Geo Lyα MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: D 08 M NOV Y 82 RAW TAPE: D 08 M NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot wdow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SE 255	FAIRALL 9 84	Sey 1 13.2	α 01, 21, 51.2 δ -59, 03, 58 R 158, 03, 12.3	L	LWR 14585 1+1	57 8 SO	-2.1 .40 14.8	L	O	13:04:24	50:00	4	4	2	GDE (320, -322 100 SO) 4MIN -HTRMN=	SNIJDERS EC
"	"	"	α , , δ , , R , ,	L	SWP 18506 1+3	50 11 SO	-2.6 .20 10.2	L	O	13:57:52 14:31:22	30.00 20:00	3	6	1	GDE (519, -468, 134 SO) 2 pix SAT. MN=	"
"	NULL		α , , δ , , R , ,		LWP 1707 1+2										MN=	"
"	ESO141-G55 84	Sey 1 13.7	α 19, 16, 57 δ -58, 45, 52 R 18, 13, 55.2	L	LWP 1708 1+4	41 7 SO	-.9 .08 9.8	L	O	16:06:49	50:00	4	5	2	GDE (585, -1106 339 SO) MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 18507 1+5	44 10 SO	-1.6 .08 10.8	L	O	17:00:23	50:00	3	4	1	GDE (792, -1248 277 SO) MN=	"
"	NGC 1068 84	Sey 2 "	α 02, 40, 07.1 δ -00, 13, 31 R 169, 53, 13.9	L	LWP 1709 1+6	139 12 FO	-1.6 .08 11.2	L	O	18:46:32	23:00	3	4	2	GDE (139, -171 131 FO) MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 18508 1+8	143 30 FO	.07 .08 11.5	L	O	19:22:15	23:00	2	4	0	GDE (331, -321, 166 FO) * MN=	"
"	NULL		α , , δ , , R , ,		LWR 14586 1+7										MN=	"

* Star stalled after half of the first read. Re-done

OBSERVATORY LOG

DATE: D 9 M NOV Y 82 RAW TAPE: D 9 M NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot wdow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 23.6	HD 193443 12	O9III 7.24	α 20, 17, 1.2 δ 38, 7, 20 R 108, 58, 37.9	H	SWP 18511 1+1	3610 6 F.O.	-3.1 .08 12.8	L	O	12:35:33	115:00	4	0	1	MICROPHONICS AT Y=173, VISIBLE AT RM=7 READ DURING YAW MN=	PHILLIPS PP
"	HD 13841 23	B1.5Ib 7.34	α 2, 13, 15.6 δ 56, 47, 52 R 15, 40, 4.0	H	SWP 18512 1+2	3654 9 FO	-1.5 .08 12.2	L	O	15:12:20	125:00	5	0	1	MN=	*
"	HD 13866 23	B2IIp 7.49	α 2, 13, 27.2 δ 56, 29, 15 R 15, 54, 1.0	H	SWP 18513 1+	3250 6 FO	-1.4 .08 11.5	L	O	17:55:02	112:00	5	0	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 10 M NOV Y 82 RAW TAPE D 10 M NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot wndow/f.s	FOCUS BKG TIRDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 020	HZ Her 59	A8 14.3	α 16.56.1.6 δ 35.25.5 R 147.15.50.3	L	SWP 18524 1+1	33 2 SO	-1.1 .08 8.2	L	0	13:48:25	40:00	2	0	0	VERY FAINT MN=	THOMAS PP
"	"	"	α " " δ " " R " "	L	LWR 14598 1+2	*	-1.4 .08 12.8	L	0	14:34:54	175:00	3	0	5	* GONE TO LWR4 MOVING THE GUIDE. GUIDE X=-441 Y=-982 4MM HTR MN= 765	"
"	"	"	α " " δ " " R " "	L	SWP 18525 1+3	*	-2.1 .08 8.2	L	0	17:35:02	75:00	2	0	1	* GONE TO SWP4 MOVING THE GUIDE. GUIDE X=-241 Y=-1122 MN=	"
"	"	"	α " " δ " " R " "	L	SWP 18526 1+4	*	-1.3 .08 9.2	L	0	19:12:21	35:00	2	0	0	* SEE ABOVE MN=	"
			α " " δ " " R " "		1+										MN=	
			α " " δ " " R " "		1+										MN=	
			α " " δ " " R " "		1+										MN=	
			α " " δ " " R " "		1+										MN=	

OBSERVATORY LOG

DATE D 11 M NOV Y 82 RAW TAPE D 11 M NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot wndow/f.s	FOCUS BKG TIRDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 007	NULL		α " " δ " " R " "		LWP 1717 1+1										RDPREP MN=	L. SANZ PP
"	M33 VAR 83 53	14.3	α 1.31.21.6 δ 30.19.17 R 63.28.25.4	L	LWP 1718 1+3	BO	-1.4 .08 10.8	L	0	13:28:34	365:00	4	0	2	GUIDE: X=626 Y=571 ch. 244 90 MN=	"
~~"~~	~~NULL~~		α " " δ " " R " "		~~SWR 11764~~ 1+		1								~~THDC=19.2 SAFETY READ~~ MN=	"
"	NULL		α " " δ " " R " "		LWR 14604 1+2										SAFETY READ MN=	"
			α " " δ " " R " "		1+										MN=	
			α " " δ " " R " "		1+										MN=	
			α " " δ " " R " "		1+										MN=	
			α " " δ " " R " "		1+										MN=	

OBSERVATORY LOG

DATE D 12 M NOV Y 82 RAW TAPE D 12 M NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS conf. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ES 058	COMET BOWELL (1980 b) 06	Coma 14.5	α 19, 11, δ -22, 33, R 96, 52, 51.4	L	LWP 1719 1+5	30	-1.7 .08 9.2	L	O	13:35:59	362:00	2	0	2	MN=	FESTOU PP
"	NULL		α , , δ , , R , ,		LWR 14609 1+1										SAFETY READ MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 13 M NOV Y 82 RAW TAPE D 13 M NOV.

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS conf. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EH 126	N 63 A 75	SNR	α 5, 35, 40.43 δ -66, 03, 42.7 R 214, 1, 39.9	H	SWP 18545 1+1	B.0. 35 5.0.	-1.0 .08 9.8	L	O	13:11:16	45:00	1	2	1	MN=	DENNEFELD / JB
"	"	"	α , , δ , , R , ,	H	SWP 18546 1+2	B.0. —	-1.8 .08 9.8	L	O	14:16:48	330:00	1	5	2	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 14 M NOV Y 82 RAW TAPE D 14 M NOV

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI 203	HD98922 26	B9 e 7.2	α 11, 20, 13.0 δ -53, 5, 43 R 284, 14, 38.0	L	SWP 18553 1+1	6514 19 F.O.	-.8 .64 9.2	L	O	12:45:15	3:00	5	5	0	MN= .	SKILLEN JR
"	"	"	α , , δ " , " , " R , ,	L	LWR 14624 1+2	6608 17 F.O.	-1.1 .34 14.5	L	O	13:09:09	1:00	6	0	2	4 MIN - HTR MN= 66.3	"
"	"	"	α , , δ " , " , " R , ,	H	SWP 18554 1+3	6427 16 F.O.	-1.1 .08 9.2	L	O	13:35:31	120:00	5	4	1	MN=	"
"	HD 94878 26	Be 8.7	α 10, 53, 58. δ -60, 7, 31 R 282, 5, 30.0	L	LWR 14625 1+5	1121 5 F.O.	-2.1 .08 13.5	L	O	16:27:14	3:00	5	0	2	4-MIN - HTR MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 18555 1+4	1118 8 F.O.	-2.4 .08 9.8	L	O	16:50:24	10:00	6	0	1	MN=	"
"	HD 215835 26	Be 8.6	α 22, 44, 54 δ 57, 49, 13 R 81, 10, 30.4	H	SWP 18556 1+6	1213 6 F.O.	-1.1 .08 9.8	L	O	17:58:17	109:00	4	0	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 15 M NOV Y 82 RAW TAPE D 15 M NOV

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	NULL		α , , δ , , R , ,		LWR 14632 1+1	/									HI - GAIN MN= .	BLADES JCB
"	CALUV 60%		α , , δ , , R , ,		LWR 14633 1+2	/	-.3 .08 12.8			12:50:51	1:51				FINAL UV TEMP 38 MN= 365	"
"	TFLOOD 100%		α , , δ , , R , ,		LWR 14634 1+3	/	-.2 .08 12.8			13:19:59	0:22				MN=	"
"	NULL		α , , δ , , R , ,		LWR 14635 1+4	/	-.2 .08 13.2								HI - GAIN MN=	"
"	NULL		α , , δ , , R , ,		LWP 1726 1+5	/	.08 55								HI - GAIN MN=	"
"	CALUV 60%		α , , δ , , R , ,		LWP 1721 1+6	/	-.1 .08 6.8			15:01:16	2:04				FINAL UV TEMP 38 MN=	"
"	CALUV 20%		α , , δ , , R , ,		LWP 1722 1+7	/	-.8 .08 7.5			15:36:13	0:41				FINAL UV TEMP 36 MN=	"
"	CALUV 120%		α , , δ , , R , ,		LWP 1723 1+8	/	-1.6 .08 7.8			16:09:54	4:08				FINAL UV TEMP 41 MN=	"

OBSERVATORY LOG

DATE D 15 M NOV Y 82 RAW TAPE D 15 M NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	CALUV 60%		α / δ / R		LWP 1724 1+9	/	-1.0 .08 9.5			16:46:47	2:04				FINAL UV TEMP 38. MN=	BLADES VC3
"	TFLOOD 100%		α / δ / R		LWP 1725 1+10	/	-1.4 .08 8.8			17:18:28	1:40				MN=	— " —
"	CALUV 160%		α / δ / R		LWP 1726 1+11	/	-1.7 .08 9.2			18:00:29	5:31				READ ONLY MN=	— " —
"	SECOND RD ON 160%		α / δ / R		LWP 1727 1+12	/	-1.7 .08 9.5								MN=	— " —
"	NULL		α / δ / R		LWP 1728 1+13	/	.08 9.5								HI-GAIN READ. MN=	— " —
"	NULL		α / δ / R		LWP 1729 1+14	/	.08 9.5								NORMAL READ. MN=	— " —
"	NULL		α / δ / R		LWR 14635 1+15	/	.08								MN=	
			α / δ / R		1+										MN=	

OBSERVATORY LOG

DATE D 16 M NOV Y 82 RAW TAPE D 16 M NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 115	HD 5448 30	A2 4.0	α 00,53,58.1 / δ 38,13,42 / R 69,34,32.1	L	LWR 14643 1+1	715 100 FU	-1.6 .12 12.8	S L	0	12:31:54 12:29:10	00:07 00:07	4 6		02	~50 fx sat. 4 MIN HTR MN=	C. CACCIARI cc
"		"	α / δ / R	L	SWP 18568 1+2	666 116 FU	-1.6 .08 8.8	S L	0	12:37:09 12:34:55	00:30 00:09	5 5		00	MN=	"
"	"	"	α / δ / R	H	LWR 14644 1+3	700 85 FU	-1.7 .08 13.2	L	0	13:07:34	05:00	5	0	2	GDE(603, 891 1325 SO) 4 MIN HTR MN=	"
"	"	"	α / δ / R	H	SWP 18569 1+4	666 130 FU	-2.2 .08 8.5	L	0	13:35:31	10:00	5	0	0	GDE(799, 750 310 FO) MN=	
SE039	HD 31964 40	F0IA 3.6	α 04.58.22 / δ 43.45.05 / R 314.20.15.4	H	LWR 14645 1+5	783 118 FU	-1.4 .08 12.8	L	0	14:42:42	15:00	4	0	2	GDE(-1437, 475 1009 FO) 4 MIN HTR MN=	MOLARO cc
"	"	"	α / δ / R	L	SWP 18570 1+6	766 120 FU	-1.4 .08 7.8	S L	0	15:49:04 15:04:17	10:00 40:00	4 7	3 3	1	GDE (-1230, 337 1089 FO) MN=	"
"	"	"	α / δ / R	H	LWR 14646 1+7	729 130 FU	-1.5 .08 12.8	L	0	16:05:23	50:00	7	4	3	4 MIN HTR MN=	"
"	"	"	α / δ / R	H	SWP 18571 1+8	722 126 FU	-.8 .08 7.8	L	0	16:59:21	55:00	3	3	1	MN=	"

OBSERVATORY LOG

DATE D 16 M NOV Y 82 RAW TAPE D 16 M NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PIX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA115	HD 48097 30	A0 V S.2	α 06 ,39 ,29.5 δ 17 ,41 ,44 R 260, 49 ,42.7	L	LWR 14647 1+9	21914 56 FO	-1.3 .08 12.5	L	0	18:39:43	00:12	5	0	2	4 MIN HTR MN=	CACCIARI ee
"	"	"	α , , δ " , R , ,	H	SWP 18572 1+10	21949 58 FO	-.18 .08 7.8	L		18:42:16	18:00	5	0	0	GDE(-818,198 107 FO) MN=	"
"	"	"	α , , δ " , R , ,	H	LWR 14648 1+11	21935 61 FC	-1.9 .08 12.8	L		19:12:13	13:00	5	0	2	(-1026, 1341 319 SO 4 MIN HTR MN=	"
"	"	"	α , , δ " , R , ,	L	SWP 18573 1+12	21952 58 FO	-1.9 .08 7.5	L		19:38:01	00:40	7	0	0	MN=	"
			α , , δ , R , ,		1+										MN=	
			α , , δ , R , ,		1+										MN=	
			α , , δ , R , ,		1+										MN=	
			α , , δ , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 17 M NOV Y 82 RAW TAPE D 17 M NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PIX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI075	CPD-48 1577 52	9.8	α 08 , 13 ,49.7 δ -49 ,04 , 2 R 243, 55 ,20.2	L	SWP 18578 1+1	642 0 FO	-1.7 .08 7.5	L	0	12:51:31	02:30	6	0	0	10 px sat. MN=	BOHLIN/HARRIS ee
"	"	"	α , , δ " , R , ,	L	LWR 14655 1+2	640 2 FO	-1.7 .08 13.8	L	0	12:57:15	01:30	5	0	2	4 MIN HTR MN=	"
"	"	"	α , , δ " , R , ,	H	SWP 18579 1+3	636 2 FO	-2.0 .08 7.8	L	0	13:23:59	180:00	6	0	2	GDE(661,6, 2073 FO) 50 px sat. MN=	"
"	"	"	α , , δ " , R , ,	H	LWR 14656 1+4	627 4 FO	-1.6 .08 12.8	L	0	16:27:34	150:00	6	0	5	GDE(464,150 2304 FO) 4 MIN HTR MN=	"
			α , , δ , R , ,	L	SWP 18580 1+5	658 16 FO	-.8 .08 8.2	L	0	19:00:49	02:00	6	0	0	3 px sat. MN=	"
			α , , δ , R , ,	L	LWR 14657 1+6	697 18 FO	-.7 .08 14.2	L	0	19:30:21	01:30	5	0	2	4 MIN HTR MN=	"
			α , , δ , R , ,		1+										MN=	
			α , , δ , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 18 M NOV Y 87 RAW TAPE D 18 M NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI Ø75	CK VUL 55	Nov Cam. 19	α 19,45,35 δ +27, 11, 18 R 119, 50, 55	L	SWP 18586 1+1	b.o.	-1.73 0.08 8.2	L	O	131637	160:00	O	O	2	b.o. B=28 MN=	H BOHNHARDT A.C.
PHCAL	NULL	"	α , , δ , , R , ,	"	SWP 18587 1+2	"	"	"	"	17:24:00					LO GAIN READ MN=	CASSATELLA
	60% CALUV	"	α , , δ , , R , ,	"	SWP 18588 1+3	"	-1.0 0.08 10.2	"	"	164832	1:49				Final UVF Temp = 34 MN=	
	20% CALUV	"	α , , δ , , R , ,	"	SWP 18589 1+4	"	-1.0 0.08 10.2	"	"	171523	0:36				Final UVF Temp = 32 MN=	
	120% CALUV	"	α , , δ , , R , ,	"	SWP 18590 1+5	"	-0.6 0.08 10.5	"	"	174044	3:38				Final UVF Temp = 38 MN=	
	60% CALUV	"	α , , δ , , R , ,	"	SWP 18591 1+6	"	-1.38 0.08 10.5	"	"	180842	1:49				Final UVF Temp = 35 MN=	
	160% CALUV	"	α , , δ , , R , ,	"	SWP 18592 1+7	"	-1.36 0.08 10.5	"	"	184259	4:91				Final UVF Temp = 58 MN=	
	NULL	"	α , , δ , , R , ,	"	SWP 18593 1+8	"									Normal RDPREP MN=	

OBSERVATORY LOG

DATE D 18 M NOV Y 87 RAW TAPE D 18 M NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	NULL	"	α , , δ , , R , ,	"	SWP 18594 1+9										high gain read MN=	CASSATELLA
PHCAL	NULL	/	α , , δ , , R , ,		SWP 18595 1+10										Low gain read MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE: 19 NOV 82 — RAW TAPE: 19 NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI099	Z AND 55	Symb 10.3	α 23, 31, 15 δ 48, 32, 31 R 51, 41, 36	L	SWP 18601 1 + 1	305 4/18 OF	-2.1 0.08 7.8	L S	O	12 33 01 131659	40:00 20:00	5 3	7 6	1	H₂ ok SWP130 NIV [illegible] MN=	CASSATELLA [illegible]
"	"		α , , δ , , R , ,	L	LWR 14669 1 + 2	301 " OF	-2.1 0.08 13.8	L	O	134131	20:00	5	6	1	[illegible] 7 pix [illegible] 4-MIN HTR MN=	
"	CI CYG 55	Symb. 10.5	α 19, 48, 21 δ 35, 33, 30 R 121, 44, 0.7	H	SWP 18602 1 + 3	247 10 OF	-2.1 0.08 7.8			[illegible] 144348					Read at GSFC MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: 20 NOV 82 — RAW TAPE: 20 NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI079	Z CAM 54	Dw of N. 11.5	α 8, 15, 40 δ 73, 16, 24 R 283, 44, 11	L	SWP 18608 1 + 1	393 1 OS	-0.47 0.08 8.2	L	O	145210	12:00	3	0	1	C_{1900} ~ 60 C_{1300} ~ 50 B ~ 15 MN=	La Dous AC
"	"	"	α , , δ " , " , " R , ,	L	LWR 14678 1 + 2	373 1 OS	-1.3 0.08 13.2	L	O	150925	11:00 +8 19:00	5	0	1	C = 186 B ~ 49 4 m [illegible] HTR MN=	
	"	"	α , , δ " , " , " R , ,	L	SWP 18609 1 + 3	401 2 OS	-1.35 0.08 8.2	L	O	154747	40:00	5	0	1	C_{1400} = 171 C_{1300} = 180 B ~ 17 MN=	
	SS AUR 54	Dw. nov 11.4	α 6, 9, 35 δ 47, 45, 29 R 300, 11, 27	L	LWR 14674 1 + 4	115 1 FO	-2.22 0.08 13.2	L	O	170500	20:00	6	0	1	1.5 x 4 m HTR MN= /	
	"	"	α , , δ " , " , " R , ,	L	SWP 18610 1 + 5	118 1 FO	-1.22 0.03 8.2	L	O	173309	26:00	7	0	1	MN=	
	CN ORI 54	Dw. nov 12.6	α 5, 49, 40 δ -5, 25, 42 R 230, 37, 34	L	LWR 14680 1 + 6	150 1 FO	-1.8 0.08 13.2	L	O	191220	20:00	4	0	1	C = 166 B = 26 Hor. noise in spectrum 2500-2600Å MN= 583	
	"	"	α , , δ " , , R , ,	L	SWP 18611 1 + 7	137 1 FO	-1.8 0.08 7.8	L	O	194038	7:00	3	0	1	C_{1300} = 72 B = 15 C_{1400} = 49 MN= /	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 21 M Nov Y 82 RAW TAPE D 21 M Nov

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.S	FOCUS BKG THDA	APERTURE	NP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 082	PKS 0537-441 87	15.5	α 5, 37, 20 δ -44, 6, 44 R 208, 25, 12	L	LWR 14687 1+1	B/0	-2.0 .08 12.8	L	0	12/30/19	160/0	3	0	6	4 MIN HTR MN=	TAN21 W.W.
"	PKS 2155-304 87	13.0	α 21, 55, 58 δ -30, 23, 52 R 108, 31,	L L	SWP 18619 1+2	89 4 5.0	-.6 .08 7.2	L S	0 0	16/04/28 16/54/45	40/0 80/0	3 3	0	1 1	MN=	" WW
"	"	"	α , , δ , , R , ,	L	LWR 14688 1+4		-1.5 -.08 13.2	L	0	16/19/20	80/0	5	0	4	4 MIN HTR MN=	"
"	SKY		α , , δ " , " " R , ,	L	SWP 18620 1+3		-1.4 .08 8.8	L	0	18/52/14	40/0	0	0	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 22 M Nov Y 82 RAW TAPE D 22 M Nov

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.S	FOCUS BKG THDA	APERTURE	NP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE130	NGC 3351 80	12.5	α 10, 41, 19 δ +11, 58, 6 R 247, 29, 19	L	LWR 14695 1+1	147 23 5.0	-1.7 .08 15.5	L	0	12/48/31	130/0	3	0	6	2 individual spectra visible 4 MIN HTR MN=	zamorani WW.
"	"	"	α , , δ " , " " R , ,	L	SWP 18628 1+2	147 23 5.0	-1.5 .08 9.8	L	0	15/03/00	284/0	3	0	2	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 23 M MW Y 82 RAW TAPE D 23 M Mar

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 130	NGC 4314 80	13.1	α 12, 20, 02 δ 30, 10, 18 R 232, 18, 29	L	LWR 14704 1+1	103 24 5.0	-.9 .08 155	L	O	13/14/40	120/0	3	0	5	4-MIN HTR MN=	Zamarano MW
"	"	"	α , , δ , , R , ,	L	SWP 18637 1+2	99 23 5.0	-1.5 .08 102	L	O	15/19/47	~~268~~/0 47	2	0	1	MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 14705 1+3	107 22 5.0	-.9 .08 165	L	O	16/11/28	213/0	3	0	7	4 MIN HTR MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 24 M Mar Y 82 RAW TAPE D 24 M MW

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI012	R127 52	10.1	α 5, 37, 06 δ -69, 31, 50 R 203, 18, 16	H	LWR 14712 1+1	372	-1.9 .08 159	L	O	12/47/10	3~~72~~/20	5	0	8	of sat. 10 units of center ap. 4 MIN HTR MN=	Kluve WW.
EI012	R 127 52	"	α , , δ 4, 1., 4 R , ,	L	SWP 18649 1+2	372	-2.6 .08 108	L	O	14/04/49	5/0	3	0	0	MN=	"
EI	"	4	α , , δ 4, 4, 4 R	L	LWR 14713 1+3	372	-1.7 .08 172	S	O	19/35/37	10/0	5	0	3	4 MIN HTR MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 25 M NOV Y 82 RAW TAPE D 25 M NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/L.S	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PA. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA D14	L745-46A 43	dF 13.	α 7,38,0 δ -17,17,0 R 236,35,36.4	L	LWR 14719 1+	310 7 50	-.8 .08 14.8	L	O	13:11:43	100:00	4	0	3	4 MIN-HTRMN=.841	WEIDEMANN PP
			α , , δ , , R , ,		B C 1+										CRASH MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 26 M NOV Y 82 RAW TAPE D 26 M NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot urdov/L.S	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PA. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EAφ24.	v132g Cyg 57	v12.5	α 20h,49m,28. δ +45°,23',37" R 117°,55',18"7	L	SWP 18659 1+1	186 5 50	-.1 .40 7.5	L	O	12:37:51	30:00	2	5	1	MN=	H.NUSSBAUMER A.H.
"	"	"	α , , δ , , R , ,	L	LWR 14724 1+2	112 1 50	-.1 .40 12.5	L	O	13:12:21	30:00	3	4	3	4 min w.up. MN= 823	"
"	"	"	α , , δ , , R , ,	H	SWP 18660 1+3	180 .4 5.0	-1.5 .30 7.5	L	O	13:43:46	180:00	1	4	2	MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 14725 1+4	192 3 5.0	0.9 .20 11.8	L	O	16:53:51	85:00	5	6	4	4 min w.up. MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 18661 1+5	183 4 5.0	-1.7 .40 7.5	L	O	17:27:53	85:00	3	6	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE (D M Y): 27 NOV 82 RAW TAPE (D M): 27 NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EAφ24	V1016 Cyg 57	Pec 10.8	α 19, 55, 19.9 δ +39, 41, 39 R 127, 59, 4.7	L	SWP 18668 1+1	196 H/L OF	-1.18 0.15 12.8	L S	O	125917 125433	7:00 2:00	2 1	7 5	1.	SiIV 175, NIV 152 L OIII 135; CIII] HeII CNA sat B~25 MN=	NUSSBAUMER AC
"	"	"	α , , δ " , " , " R , ,	L	LWR 14733 1+2	198 13/2 OF	-1.96 0.3 13.5	L S	O	132829 132046	25:00 3:00	5 3	7 4	1	B=27 4 MIN HTR MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 18669 1+3	202 1 OF	-1.69 0.08 11.5	L	O	135841	25:00	3	8	2	OI 146 C ≈ 80 SiII 155 B≤19 MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 14734 1+4	202 1 OF	-1.60 0.03 15.9	L	O	142930	25:00	0	5	2	MgV 205 OIII 3132 : 141 HeII 150 4 MIN HTR MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 18670 1+5	202 0 OF	-1.43 0.08 11.2	L	O	150029	15:00	1	5	1	CII 165, 137 B=18 HeII 150 SiII 123 CIII 199 MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 14735 1+6	203 1 OF	-1.35 0.08 10.2	L	O	153056	25:00	2	6	5	4 MIN HTR MgII 158 HgII 3 proud; HeII 1d sat (24R); CIII 5047 : 161 OIII 3132 sat MN= BK=40	"
"	"	"	α , , δ , , R , ,	H	SWP 18671 1+7	198 1 OF	-1.46 0.08 16.2	L	O	170034	150:00	2	7	2	SiIV OIV] ok, NV sat NIII 1486 sat; B=31 OIII 171, Sat; NIV 209 SiX 165 MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 14736 1+8	193 2 OF	-1.97 0.30 14.8	L	O	193502	5:00	3	6	1	OIII 211 only MgII and I sat 4-MIN-HTR MN=	"

OBSERVATORY LOG

DATE (D M Y): 28 NOV 82 RAW TAPE (D M): 28 NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA014	L119-34 43	DF 14.4	α 22, 16, 11.3 δ -65, 44, 27 R 99, 22, 39.6	L	LWR 14743 1+1	B/0	2.8 .08 15.2	L	O	13:08:14	230:00	3	0	6	GDE (767, -375 168 SO) 4 MIN HTR MN= 768	WEIDEMANN CC
STAND	HD 210221 32	A3Ib 6.6	α 22, 05, 34.2 δ 53, 03, 45 R 104, 58, 6.3	L	SWP 18682 1+2	1002) 34 FO	-2.4 .08 10.2	L	O	17:57:36	04:00	3	0	0	VARIABLE MN=	CACCIARI CC
"	"	"	α , , δ , " , R , ,	L	LWR 14744 1+3	9572 25 FO	-2.0 .08 16.2	L	O	18:04:22	04:00	7	0	2	4 MIN HTR MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 18683 1+4	9604 31 FO	-2.1 .08 10.5	L	O	18:35:21	12:00	5	0	0	GDE (-937, 1387 366 SO) MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 14745 1+5	9783 30 FO	-1.3 .08 16.2	L	O	19:05:21	02:00	5	0	2	NO 4-MIN-HTR 3 px sat MN=	"
"	HD 6961 31	A5V 4.5	α 01, 08, 2.5 δ 54, 53, 03 R 65, 19, 27.5	L	SWP 18684 1+6	440 83 FU	-1.4 .16 10.8	L	O	19:42:47	00:20	5	0	0	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE (D M Y): 29 NOV. 82. RAW TAPE (D M): 29 NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA007	AF AND 52	– ~14.5	α 0, 40, 48.6 δ 40, 55, 45.9 R 84, 4, 13.0	L	SWP 18689 1+2	3/0	-1.3 .4 11.2	L	O	13:15:58	391:00	3	0	3	FPM very high. -8, at beginning guide -x = 169, y = 311 [illegible] MN=	SANZ JCB
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE (D M Y): 30 NOV 82 RAW TAPE (D M): 30 NOV

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA007	AF AND 52	~14.5	α 0, 40, 48.6 δ 40, 55, 45.4 R 85, 2, 38.6	L	LWR 14756 1+1	B.O.	-2.8 0.08 14.2	L	0	13:53:44	316:00	2	0	3	4 MIN HTR MN=	SANZ FLC PB
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG Cannot be [illegible] 18698 ?

DATE D M Y: 1 DEC 82 — RAW TAPE D M: 1 DEC

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot undov/f,s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PS 614	3C 66B 86	~13	α 2 , 20 , 2.35 δ 42 , 45 , 58.5 R 41 , 26 , 43.3	L	SWP 18697 8 1 + 1 PM	B.O.	-1.8 0.08 10.8	L	0	11:40:28	355/0	2	0	3	? Continuum barely visible MN=	SHAVER P.B.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 2 DEC 82 — RAW TAPE D M: 2 DEC

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot undov/f,s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 189 [illegible]	ANON 23 [illegible]	B2	α 2 , 18 , 27 δ 56 , 55 , 03 R 48 , 33 , 59.9	L [illegible]	LWR 14766 1+1	586 F/o	-2.2 .08 11.5	S L	O	13:07:58 13:17:50	7:00 7:00	5 7	0 0	2 2	STAR NEAR HD 14943 MN= 607	BARYLAK JCB
"	HD 14443 23	B2 8.4	α 2 , 18 , 27 δ 56 , 55 , 03 R 48 , 33 , 59.9	L	LWR 14767 1 + 2	200 140 P/O	-1.7 .08 11.8	S L	O	14:05:05 14:15:02	6:00 6:00	7 8	0 0	2	Small ap. usable shortward of 2600Å 4 min. lifr MN=	
"	"	"	α , , δ , , R , ,	L	SWP 18706 1 + 3	1950 190 F/o	-1.7 .08 6.1	L	0	14:24:[illegible]	4.0	5	0	0	MN=	
"	HD 14520 29	B9 9.2	α 2 , 19 , 10.5 δ 56 , 51 , 34 R 48 , 33 , 59.9	L	LWR 14768 1 + 4	730 80 P/o	-1.3 .08 12.2	S L	O O	15:10:51 15:43:48	28:00 21:00	7 8	0 0	3	small ap. usable Shortward of 2600Å 4-min-lifr MN=	
"	"	"	α , , δ , " , R 48 , 33 , 59.9	L	SWP 18707 1 + 5	729 3 P/o	-1.4 .08 12.5	L	O	16.09.18	25:00	8	0	0	MN=	
"	HD 14422 29	B7 8.5	α 2 , 18 , 17 δ 57 , 09 , 31 R 48 , 50 , 42.9		LWR 14769 1 + 6	647 1 F/o	-1.5 .08 12.5	L S	O	17:03:23 17:22:09	8:00 6:26	6 4	0 0	2	4-min-lifr MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 3 M DEC Y 82 RAW TAPE D 3 M DEC

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	HD 60753 21	B3 IV 6.7	α 7, 32, 8.0 δ -50, 28, 29 R 220, 41, 37.3	L	LWR 14774 1+1	7387 16/615 FO	-1.1 .42 12.2	L O S	O	10:40:59 10:46:52	0:02 0:21	4 5	0	2	SENS. MONITOR. MN= 521	PATRIARCHI PP
"	"	"	α , , δ , , R , ,	L	LWR 14775 1+2	7201 180 FO	-1.5 .30 12.5	L	O	11:18:46	0:31.2	4	0	2	TRAILED ITER = 1 RATE = .641 arcsec/sec MN= 347	"
"	"	"	α , , δ , , R , ,	L	SWP 18714 1+3	7074 23/394 FO	-2. .08 7.5	L O S	O	11:41:53 11:53:42	0:10 0:30	5 6	0	0	MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 18715 1+4	7373 37 FO	-2.3 .28 7.5	L	O	12:19:17	0:40.8	5	0	0	TRAILED ITER = 1 RATE = .490 arcsec/sec MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 14776 1+5	7211 13 FO	-2.3 .08 12.8	L	O	12:25:54	10:30	5	0	2	MN= 515	"
"	"	"	α , , δ , , R , ,	H	SWP 18716 1+6	7322 20 FO	-2.1 .12 7.8	L	O	12:52:38	10:00	4	0	0	MN=	"
"	NULL		α , , δ , , R , ,		SWP 18717 1+7										HIGH GAIN NULL READ MN=	"
"	CALUV 60%		α , , δ , , R , ,		SWP 18718 1+8					14:15:10					CALUV 60% FINAL TEMP=35 MN=	"

OBSERVATORY LOG

DATE D 3 M DEC Y 82 RAW TAPE D 3 M DEC

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PH CAL	TFLOOD 100%		α , , δ , , R , ,		SWP 18719 1+9					14:40:31	0:16				TFLOOD 100% MN=	PATRIARCHI PP
"	HD 32630 21	B3 V 3.3	α 5, 3, 0.2 δ 41, 10, 8 R 341, 36, 57.6	L	LWR 14777 1+10	1476 213. FU	-2.5 .08 12.5	L	O	16:14:35	0:0.99	5	0	2	TRAILED RATE = 20.2 ITER = 1 MN= 449	"
"	"	"	α , , δ , , R , ,	H	LWR 14778 1+11	1617 226 FU	-1.7 .08 12.8	L	O	16:43:12	0:23	5	0	2	MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 18720 1+12	1500 226 FU	-1.4 .08 7.8	L	O	16:57:37	0:35	7	0	1	MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 18721 1+13	1516 230 FU	.7 .08 7.8	L	O	17:24:11	0:1.01	5	0	0	TRAILED RATE = 18.2 ITER = 1 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 4 M DEC Y 82 — RAW TAPE D 4 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 159	0014 +81 85	QSO 16.5	α 0 , 14 , 4.8 δ 81 , 18 , 42 R 70 , 0 , 36.1	L	SWP 18728 1 + 1	BO	-2. .08 10.8	L	O	10:49:28	418:00	O	O	2	GUIDE: x = -963 y = -61 cts 1850 FO NO SPECTRUM	FRICKE PP
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 5 M 12 Y 82 — RAW TAPE D 5 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 189	MKN 266 84	14.5	α 13 , 36 , 14.7 δ 48 , 31 , 51 R 223 , 03 , 57.6	L	SWP 18736 1 + 1	30 2 S/O	-1.5 0.08 4.2	L	O	10:50:44	418:00	3	4	2	MN=	Kollatschny AWH.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 6 H DEC Y 82 RAW TAPE D 6 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. P slot undov/f/s	FOCUS DAG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE049	PKS 2135-14 85	— 15.5	α 21,35,01.2 δ -14,46,28 R 108,33,34	L	SWP 18741 1+1	B/0	+1.0 0.08 11.8	L	O	12:28:57	318:00	3	3	2	GDE: X=-708 Y=-840 CTS=68 5/0	Bergeron/ AWH
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 7 H DEC Y 82 RAW TAPE D 7 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. P slot undov/f/s	FOCUS DAG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE049	NULL		α , , δ , , R , ,		LWP 1738 1+1		9.2			10:06:39					NULL IMAGE MN=	BERGERON/ AWH
"	PKS 2135-14 85	— 15.5	α 21,35,01.2 δ -14,46,28 R 108,33,6.3	L	LWP 1739 1+2	B/0	-2.5 0.08 10.5	L	O	11:49:58	352:00	3	1	3	GDE X=-911, Y=-702 CTS=82 5/0 MN=	"
"	NULL		α , , δ , , R , ,		LWR 14802 1+1		13.8			17:22:00					NULL IMAGE MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

* 2ND archive tape used

OBSERVATORY LOG

DATE D 8 M DEC. Y 82 RAW TAPE D 8 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f/s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI.113	HD206773 26	BΦe 6.87	α 21, 40, 50.3 δ +57, 30, 25 R 117, 52, 45	H	SWP 18753 1 + 1	5890 112 OF	-2.44 0.5 9.8	L	O	102112	29:00	5	0	2	C=239 B=43 MN=	HUBERT AC
"	"	"	α , , δ " , " , " R , ,	H	LWR 14808 1 + 2	5913 14 OF	-2.27 0.6 14.5	L	O	105426	25:00	7	0	2	~100 pix sat long λ B=36 4m HTR C ~ 100 around 2100Å MN= ✓	
"	HD218393 26	B3IIIe 6.8	α 23, 04, 51.0 δ 49, 55, 18 R 103, 43, 12.	H	SWP 18754 1 + 3	4951 6 OF	-1.31 0.6 9.5	L	O	113945	80:00	5	5	2	C=226 B=56 MN=	
			α , , δ , , R , ,	H	LWR 14809 1 + 4	4845 3 OF	-1.30 0.6 14.5	L	O	130247	70:00	7	7	9	NOT USABLE (ABORTED SPREP) MN=	
	HD58050 26	B2IIIe 6.41	α 7, 21, 36.6 δ 15, 36, 57 R 252, 32, 56	H	SWP 18755 1 + 5	9128 26 OF	-1.5 0.6 9.8	L	O	152135	5:10	5	0	2	C=192 (1800Å) B=60 C=190 (1300Å) MN=	
"	"	"	α , , δ " , " , " R , ,	H	LWR 14810 1 + 6	8943 20 OF	-1.52 0.6 8.2	L	O	152945	6:20	5	0	2	C ≅ 220 B ~ 40 (spiken) MN= —	
"	HD45314 26	BOe 6.64	α 6, 24, 24.4 δ 14, 55, 15 R 245, 52, 56	H	SWP 18756 1 + 7	5192 16 OF	-1.58 0.2 9.5	L	O	161449	17:00	5	0	2	C=232 B ≅ 40 MN= —	
"	"	"	α , , δ " , " , R , ,	H	LWR 14811 1 + 8	5251 16 OF	-1.27 0.3 14.8	L	O	165227	17:00	6	0	2	C=255 MN= 569	

OBSERVATORY LOG

DATE D 8 M DEC Y 82 RAW TAPE D 8 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f/s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI 113	HD58050 26	B2IIIe 6.41	α 7, 21, 36.6 δ 15, 36, 57 R 252, 30, 22	H	SWP 18757 1 + 9	9028 34 OF	-0.48 0.4 9.5	L	O	173803	5:10	5	0	2	C=194 B=34 MN= ✓	HUBERT AC
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE (D M Y): 9 DEC. 87 — RAW TAPE (D M): 9 DEC

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE276	NGC7590 81	EG 13	α 23, 16, 8.9 δ -42, 30, 50 R 109, 24, 40.4	L	SWP 18764 1 + 1	60 - 0S	-2.70 0.08 11.8	L	O	10:53:48	413:00	3	0	4	B = 59 C ≅ 100 at ~1900Å MN= /	PAGEL DIAZ AC
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE (D M Y): 10 DEC 82 — RAW TAPE (D M): 10 DEC

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE276	NGC1667 81	EG 13.7	α 4, 46, 10.4 δ -6, 24, 24 R 70, 40, 56.6	L	SWP 18771 1 +	50 0 0S	-0.66 .2→.05 11.5	L	O	11 17 57	389:00	3	0	4	blind offset C(1300Å) ~ 80 B = 49 MN=	PAGEL DIAZ AC
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: D 11 M Dec Y 82 RAW TAPE: D 11 M Dec

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 276	NGC7590 80	13.5	α 23, 16, 09 δ −42, 30, 50 R 108, 12, 46	L	LWR 14821 1 + 1	73/24 OV.S.	−1.8 .08 12.8	L	O	10/49/39	412/0	2	0	9	MN= 794	PAGEL, DIAZ W.W.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: D 12 M DEC Y 82 RAW TAPE: D 12 M DEC

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 152	NGC 5548 84	13	α 14h, 15m, 43.5s δ +25°, 22', 01" R 225°, 38', 27."9	L	SWP 18782 1 + 1	80 3 5.0	−.6 .08 7.5	L	O	10:46:02	20:00	3	3	0	MN=	P. BARR A.H.
"	NGC 7469 84	13	α 23h, 0m, 44.5s4 δ +08°, 36', 16" R 113°, 17', 46."4	L	LWR 14824 1 + 2	9.9 7. 5.0.	−1.0 .08 11.5	L	O	12:03:22	60:00	4	5	3	MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 18783 1 + 3	77 5 5.0.	−1.2 .08 7.2	L	O	13:06:29	10[illegible]:00	5	3	1	MN=	"
"	AKN 120 84	13.3	α 5h, 13m, 36s.0 δ −0°, 12', 0" R 178°, 50', 25."3	L	LWR 14825 1 + 4	59. 5 5.0.	−2.3 .08 11.8	L	O	15:14:11	60:00	4	5	3	MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 18784 1 + 5	60 6 5.0.	−2.0 .08 7.2	L	O	16:37:56	70:00	3	4	1	MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 13 M DEC Y 82 RAW TAPE D 13 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 625	R 127 52		α 5,37,097 δ -69,31,27 R 184,05,16	L	SWP 18789 1+1	363 — FO	-1.52 0.08 10.2	L	O	11:44:08	15:00	5	0	1	9(-728,573) 377 CTS(15.5) C=158(1300Å) B=38 C=204(1900Å) MN=	WOLF CASSATELLA AC
			α , , δ , , R , ,	L	LWR 14829 1+2	—	-1.70 0.08 13.8	L	O	12:04:48	60:00	7	0	1	9(-928,-708) 347 CTS good λ<1475 λ>3000 MN=	
			α , , δ , , R , ,	H	SWP 18790 1+4	—	-1.87 0.08 13.8	L	O	12:38:54 15:04:18	120:00 163:00 283:00	3	0	3	9(-728,573) B=88 C=175 MN=	
			α , , δ , , R , ,	L	LWR 14830 1+3		-1.17 0.08 13.5	L	O	14:50:48	5:30	5	0	1	C=637 B=27 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 14 M Dec Y 82 RAW TAPE D 14 M Dec

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 214	BD.60°591 12 9g	09V 9.0	α 2,53,6 δ +61,12,53 R 51,21,32	H	LWR 14834 1+3	678 41 F.0	1.2 .12 11.5	L	O	14/33/49	180/0	4	0	4	MN=	McLachlan WW.
	SAFETY Read 99		α , , δ , , R , ,		SWR 1174 1+1		10.5								DM=100 MN=	
	2nd SAFETY READ 99		α , , δ , , R , ,		SWR 1175 1+2		11.5								DM=20 MN=	
	HD 18352 20	B1V 7.0	α 2,55,49 δ 61,5,29 R 50,51,54	H	SWP 18795 1+4	6010 23 F.0	-.9 .08 7.5			14/00/52	6.0/0	5	0	0	MN=	
	HD 17503 72	07V 7.4	α 2,47,15 δ 60,12,42 R 54,5,22	H	LWR 14835 1+5	4446 29 F.0	-1.7 .08 13.2	L	O	15/15/03	70/0	5	0	4	MN=	
	"	"	α , , δ " , " , " R , ,	L &	SWP 18796 1+6	4955 32 F.0	-1.6 .08 8.5	L S	O O	16/28/15 16/59/00	1/00 2/00	4	0	0	MN=	
	"	"	α , , δ 4, 6, 7 R , ,	L	LWR 14836 1+7	4540 31 F.0	-1.1 .08 13.5	L	O	17/04/23	0/45	5	0	2	MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 15 M Dec Y 82 RAW TAPE D 15 M Dec

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EET 251	Q0957 +56 85 A,B	17	α 9,57,57 δ 56,08,18 R 274,54,26	L	LWP 1744 1+2	B/0	-1.2 .10 .85	L	O	11/11/43	39 0/0	3	4	2	MN=	Gondhalekar WW
	NULL		α , , δ , , R , ,		LWR 14839 1+1										MN=	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 16 M Dec Y 82 RAW TAPE D 16 M Dec

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE 235	Null 99		α , , δ , , R , ,		SWP 18806 1+1		-.9 .08 .108			10/25/20	12/0				MN=	Gondhalekar WW
〃	1050+04 80	13.5	α 10,50,29 δ +4,52,51 R 247,11,50	L	SWP 18807 1+2	31 3 S.0	-2.2 .08 10.2	L	O	11/25/24	382/0	4	1	3	B/0. MN=	〃 〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D M Y 17 Dec 82 RAW TAPE D M Dec 82

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
			α , , δ , , R , ,		FES 1385 1 + 1	~~16~~ ~~3~~ ov.S	-1.2 .08 9.2			11/14/40					MN=	KUNTH WW.
EE 085	POX 36 80	15.0	α 11, 56, 24 δ -18, 45, 04 R 249, 3. 15	L	SWP 18813 1 + 2	16 3 OV.S	-1.2 .08 9.2	L	O	11/14/10 17/17/45	350/0 440/0	5	1	9	V. good spec. no em. lines. MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

H/O EXPOSING

Total exp. time = 810 min

OBSERVATORY LOG

DATE D M Y 18 DEC 82 RAW TAPE D M 18 DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE2F1	MKN 492 88	v15	α 15h, 56m, 39s.0 δ 26°, 57', 20" R 209°, 7', 22".7	L	SWP 18816 1 + 1	b.o.	-1.4 .08 9.8	L	O	10:31:40	429:00	1	0	3	MN=	P. CONDHALEKAR A.H.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE (D M Y): 19 DEC 82 — RAW TAPE (D M): 19 DEC

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undev/f.	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 087	HD 77581 59	B0.5Ib 6.9	α 9h, 0m, 13s δ -40°, 21', 25" R 224°, 42', 50".6	H	SWP 18823 1 + 1	5255 14 F.O.	-1.8 0.8 10.8	L	O	11:13:10	150:00	5	0	1	MN=	M. BURGER AH
"	"	"	α , , δ , " , R , ,	L	LWR 14852 1 + 3	5244 13 F.O.	-1.7 .08 15.2	L	O	13:46:13	0:40	5	0	2	MN= 807	"
EA 080	HD 138749 26	B6 V e 4.2	α 15h, 30m, 54s.7 δ +31°, 31', 36" R 214°, 46', 35".0	H	SWP 18824 1 + 2	620 116 FO	-1.1 .08 10.8	L	O	14:41:42	1:45	5	0	1	MN=	V. DOAZAN A.H.
"	HD 162732 26	B7 V e 6.4	α 17h, 48m, 44s.7 δ +48°, 24', 25" R 179°, 29', 34".4	H	SWP 18825 1 + 4	7115 18 F.O.	-0.4 .03 10.8	L	O	15:28:59	25:00	5	0	1	MN=	"
"	HD 200120 26	B1.5 V e 4.7	α 20h, 58m, 7s.4 δ 47°, 19', 30" R 136°, 43', 56".3	H	SWP 18826 1 + 5	26249 518 FO	-.3 .08 11.2	L	O	16:50:24	1:30	5	0	1	MN=	"
"	"	"	α , , δ , " , R , ,	H	LWR 14853 1 + 6	26227 494 FO	-.7 .08 15.2	L	O	16:56:01	1:30	6	0	2	6 px saturated MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 18827 1 + 7	26625 533 FO	-1.1 .08 11.2	L	O	17:22:00	0:01	5	0	0	MN=	"
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE (D M Y): 20 DEC 82 — RAW TAPE (D M): 20 DEC

Raw tapes # 1 and # 2

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undev/f.	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA143	HD50896 "	WN5 6.9	α 6, 52, 08.1 δ -23, 51, 52 R 198, 46, 0.7	H	SWP 18834 1 + 1	6949 0 OF	-1.74 0.1 11.8	L	O	10 39 01	5:00	5	7	1	C(1300Å) - 202 B = 23 C(1200) = 130 HeII strongly over. MN=	BURGER AC
"	"	"	α , , δ , , R , ,	H	LWR 14855 1 + 2	6987 11 OF	-0.96 0.4 15.9	L	O	11 06 12	4:00	4	5	1	E = 231 C(2800) ~ 150 B = 31 MN=	
"	"	"	α , , δ " , , R , ,	L	SWP 18835 1 + 3	7047 14/181 OF	-0.61 0.1 11.8	L S	O	11 33 34 11:35:00	00:04 00:02	4 3	7 5	1	LAP: NV, HeII, NIV overexp SAP MAX DN em. lines 1777 and 92 MN= –	
"	"	"	α , , δ , , R , ,	H	SWP 18836 1 + 4	7232 10 OF	-2.62 0.08 11.8	L	O	12 30 29	1:00	2	5	1	HeII: 190 DN B = 24 MN= –	
"	HD96548 "	WN8 7.9	α 11, 04, 18 δ -65 14, 21 R 249, 37, 17	H	SWP 18837 1 + 1 #2	2926 10 OF	-0.86 0.08 11.8	L	O	13 15 33	40:00	4	5	1	E = 246, 233, 239 C ≈ 156 (1900 Å) B = 35 MN=	PLAYED BACK. Raw tape # 2
"	"	"	α , , δ " , , R , ,	H	LWR 14856 1 + 5	2799 9 OF	-1.99 0.08 15.9	L	O	14 00 16	25:00	4	4	1	E(2727) = 175 C(2900) ≅ 170 B = 35 MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 18838 1 + 6	2745 4 OF	-2.41 0.08 12.2	L	O	14 35 33	33:00	4	5	1	E = 214, 205, 217 B = 36 C = 176 MN= –	"
			α , , δ , , R , ,	L	LWR 14857 1 + 7	2804 10/165 OF	-2.33 0.08 16.5	L S	O	15 30 28 15 30 35	00:20 00:45	5 5	9 5	1	C ≈ 228 C = 212 B = 28 MN= 40	

OBSERVATORY LOG

DATE: D 20 M DEC Y 82 — RAW TAPE: D 20 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 143	H192163 "	WN6 7.7	α 20 , 10 , 17.1 δ + 38 , 12 , 15 R 146 , 5 , 19.8	H	SWP 18839 1 + 8	3774 34 OF	-1.47 0.08 11.8	L	O	16 28 40	20:00	3	6	1	1 pix sat em.line N III N IV 180 DN C = 94 (1750 Å) B ~ 35 MN = –	BORGER A-C
			α , , δ , , R , ,	H	LWR 14858 1 + 9	3761 13 OF	-1.82 0.08 16.5	L	O	17 02 50	20:00	4	5	1	E = 200, 178 C ~ 132 B ~ 32 MN =	
"	"	"	α , , δ " , R , ,	H	SWP 18840 1 + 10	3808 32 OF	-1.39 0.08 12.2	L	O	17 31 40	15:00	3	5	1	E = 200 C = 69 B = 22 MN = –	
			α , , δ , , R , ,		1 +										MN =	
			α , , δ , , R , ,		1 +										MN =	
			α , , δ , , R , ,		1 +										MN =	
			α , , δ , , R , ,		1 +										MN =	
			α , , δ , , R , ,		1 +										MN =	

OBSERVATORY LOG

DATE: D 21 M DEC Y 82 — RAW TAPE: D 21 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 143	HD 192163 "	WN6 7.7	α 20 , 10 , 17.1 δ 38 , 12 , 15 R 146 , 49 , 53.7	H	SWP 18846 1 + 1	4011 32 FO	-.6 .08 10.5	L	O	10:38:47	20:00	3	5	0	GDE (298, 1136 4010 FO) MN =	BURGER CC
"	"	"	α , , δ , " , R , ,	H	LWR 14862 1 + 2	3903 39 FO	-1.4 .08 14.8	L	O	11:05:10	20:00	3	5	2	GDE (99, 1277, 3811 FO) MN =	"
"	"	"	α , , δ , " , R , ,	H	SWP 18847 1 + 3	3840 45 FO	-2.1 .08 10.5	L	O	11:33:01	40:00	4	7	1	GDE (297, 1135 3692 FO) MN =	"
"	"	"	α , , δ , " , R , ,	H	LWR 14863 1 + 5	3939 30 FO	-2.4 .08 15.2	L	O	12:16:12	30:00	4	5	2	GDE (99, 1277, 3666 FO) MN =	"
"	"	"	α , , δ , " , R , ,	L	SWP 18848 1 + 4	3957 39/190 FO	-1.4 .08 10.8	L S	O	12:54:21 12:58:38	00:50 00:30	4 3	8 6	1	MN =	"
"	"	"	α , , δ , " , R , ,	H	SWP 18849 1 + 6	4126 40 FO	-1.7 .08 10.8	L	O	13:24:58	20:00	3	6	0	MN =	"
"	"	"	α , , δ , " , R , ,	L	LWR 14864 1 + 7	3890 39 FO	-2.5 .08 15.2	L S	O	14:08:07 14:13:26	00:25 00:25	4 3	6 5	2	MN =	"
"	HD 96548 "	WN8 7.9	α 11 , 04 , 18.0 δ -65 , 14 , 21 R 248 , 35 , 15.7	H	SWP 18850 1 + 8	3077 8 FO	-1.5 .08 10.5	L	O	15:24:44	40:00	4	5	1	GDE (61, 782 350 FO) MN =	"

OBSERVATORY LOG

DATE D M Y: 21 DEC 82 RAW TAPE D M: 21 DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EA 143	HD96548 11	WN8 7.9	α 11 , 04 , 18 δ -65 , 14 , 21 R 248 , 35 , 15.7	H	LWR 14865 1 + 9	3031 10 Fo	-1.4 .08 15.2	L	O	16:09:26	30:00	4	5	2	9DE (-140, 921 299 Fo) MN=	BURGER ee
11	11	11	α , , δ , 11 , R , ,	H	SWP 18851 1 + 10	3063 5 Fo	-1.3 .08 11.2	L	O	16:57:06	50:00	4	7	1	MN=	11
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 22 DEC 82 RAW TAPE D M: 22 DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SEYFE	AKN 120 84	Seyf 12.8	α 5 , 13 , 37.9 δ -00 , 12 , 16 R 155 , 46 , 52	L	SWP 18855 1 + 1	59 3 OS	-1.73 0.08 9.2	L	O	10 52 11	100:00	3	5	0	4DE(924, -174) 113 Fo B = 20 Lyα 193 CN 156 ; Cont ~108 CIII] 114 MN=	CASSATELLA
			α , , δ , , R , ,	L	LWR 14869 1 + 2	56 3 OS	-1.17 0.08 14.5	L	O	12 36 08	70:00	4	4	1	C = 150 E = 168 B = 31 MN= wo	
			α , , δ , , R , ,	L	SWP 18856 1 + 3	58 8 OS	-1.34 0.08 15.5	L	O	13 50 36	110:00	3	4	1	Lyα 161 / CIV 141 } Contin. ~1800 Å ~ RL CIII wit step B = 32 MN=	
	NGC5548 84	Seyf 12.9	α 14 , 15 , 43.2 δ +25 , 12 , 00 R 232 , 47 , 25	L	SWP 18857 1 + 4	70 10 OS	-2.1 0.08 17.2	L	O	17 17 18	30 00	3	3	0	Lyα 101 / C(1900Å) 60 CIV 91 B = 16 MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 23 M DEC Y 82 RAW TAPE D 23 M DEC

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS / ext. p. slot undov/f.s	FOCUS / BKG / FWHA	APERTURE	AP. SHIFT	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC067	HD 2665 45	45 7.6	α 00 . 27 . 58.2 δ 56 . 47 . 23 R 98 . 28 . 24.7	L	SWP 18871 1+1	2588 9 Fo	-.8 .08 7.5	L	0	10:23:58	75:00	2	0	1	GDE (-875, -1017 138 Fo) C=50 B=32 MN=	CACCIARI ec
"	"	"	α , , δ , " , R , ,	L	LWR 14879 1+2	2572 240 Fo	-1.4 .08 12.2	S L	0	11:42:25 11:59:35	12:00 15:00	4 6	0	2	GDE (-1073, -874 150 Fo) MN=	"
"	HD46703 41	F5 8.9	α 06 . 33 . 49.4 δ 53 . 33 . 38 R 346 . 26 . 45.2	L	SWP 18872 1+3	772 1 Fo	-1.2 .08 8.2	L	0	12:52:40	40:00	2	0	1	GDE (1438, 145 2257 Fo) C=35 B=25 MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 14880 1+4	756 60 Fo	-1.7 .08 12.8	S L	0	13:35:18 13:59:32	10:00 15:00	3 4	0	2	GDE (1236, 282 2142 Fo) MN=	"
"	HD 84937 40	F6 8.2	α 09 . 46 . 12 δ 13 . 59 . 17 R 251 . 00 . 02.6	L	SWP 18873 1+5	1525 4 Fo	-2.2 .08 9.2	L	0	15:12:01	40:00	7	0	1	GDE (-421, -1558 183 Fo) 30 px sat MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 14881 1+6	1521 4/123 Fo	-1.3 .08 13.2	S L	0	16:12:02 15:55:16	07:00 10:00	5 7	0	2	GDE (-619, -1414 183 Fo) MN=	"
"	HD128167 40	F0 4.5	α 14 . 32 . 30.1 δ 29 . 57 . 41 R 229 . 47 . 17.6	L	SWP 18874 1+7	383 55/145 FU	-1.6 .08 8.5	L S	0	17:23:30 17:27:08	00:35 02:00	4 4	0	1	MN=	"
"	"	"	α , , δ " , R , ,	L	LWR 14882 1+8	387 55/126 FU	-1.6 .08 13.5	L S	0	17:31:33 17:34:02	00:15 00:10	7 4	0	2	70 px sat MN=	"

OBSERVATORY LOG

DATE D 25 M DEC Y 82 RAW TAPE D 25 M DEC

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS / ext. p. slot undov/f.s	FOCUS / BKG / FWHA	APERTURE	AP. SHIFT	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
STAND	HD 83754 21	B5 V 5.1	α 09 . 37 . 54.4 δ -14 . 06 . 16 R 233 . 47 . 48.2	L	SWP 18884 1+1	24683 1958 Fo	-.9 .08 9.8	L S	0	10:52:30 10:47:30	00:09.15 00:08	5 6	0	1	TRAIL 2.185 "sec^{-1}" MN=	CACCIARI ec
"	"	"	α , , δ , " , R , ,	L	LWR 14903 1+2	24867 3069 Fo	-1.2 .08 14.2	L S	0	11:02:36 10:58:47	00:05.4 00:04	5 5	0	2	TRAIL 3.698 "sec^{-1}" MN= 860	"
"	HD 108767 22	B9 V 3.00	α 12 . 27 . 16.3 δ -16 . 14 . 12 R 248 . 15 . 60.2	L	SWP 18885 1+4	1754 / FU	-1.0 .08 8.9	L	0	12:11:50	00:04.6	5	0	0	TRAIL 4.34 Spectrum also in SAP MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 14904 1+3	1730 / FU	-1.4 .08 13.8	L	0	12:18:52	00:02.2	5	0	2	TRAIL R=9.058 MN=	"
"	HD 147394 21	B5 IV 3.9	α 16 . 18 . 14 δ 46 . 25 . 53 R 207 . 11 . 10.7	L	SWP 18886 1+5	814 / FU	-2.2 .08 8.2	L	0	13:35:00	00:03.3	5	0	0	TRAIL R=6.07 Spectrum also in SAP MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 14905 1+6	706 / FU	-2.1 .08 13.5	L	0	13:41:28	00:01.98	5	0	2	TRAIL R=10.08 MN=	"
	HD 13267 24	B5 I 6.4	α 02 . 07 . 58.9 δ 57 . 24 . 38 R 78 . 56 . 2.9	L	SWP 18887 1+7	8776 500 Fo	-1.7 .08 8.2	L S	0	15:04:34 14:53:47	05:33 05:00	6 7	0	0	TRAIL R=0.06 4 px sat in LAP MN=	"
			α , , δ , , R , ,	L	LWR 14906 1+8	8196 550 Fo	-1.1 .08 13.2	L S	0	15:25:09 16:20:38	01:02.5 01:00	5 5	0	2	TRAIL R=0.32 MN=	"

OBSERVATORY LOG

DATE D 25 M DEC Y 82 RAW TAPE D 25 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.	FOCUS BRG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
STAND	HD 21291 25	B9 I 4.2	α 03 . 25 . 00 δ +59 . 46 . 04 R 57 . 46 . 31.3	L	SWP 18888 1+9	500 79 FU	-.2 .08 7.8	L	O	16:33:43	06:00	8	0	0	NO XSTREP. FOLL. MN=	CACCIARI ee
"	"	"	α , , δ , " , R , ,	L	LWR 14907 1+11	493 160 FU	-.7 .08 13.5	L	O S	16:48:02 16:42:38	02:34 02:00	8 8	0	2	TRAIL R=0.13 MN=	"
"	HD 22928 24	B5 III 3.0	α 03 . 39 . 21.2 δ 47 . 37 . 45 R 65 . 22 . 14.5	L	SWP 18889 1+10	1702 / FU	-.9 .08 8.2	L	O	17:28:43	00:02	5	0	1	TRAIL R=10.25 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 26 M DEC Y 82 RAW TAPE D 26 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.	FOCUS BRG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
E 252	NGC 5548 84	SEYFERT 13	α 14 . 15 . 43.5 δ 25 . 22 . 01 R 235 . 12 . 31.9	L	SWP 18892 1+1	71 8 SO	-1.2 .12 8.2	L	O	10:39:10	60:00	3	5	1	GDE(1556, -508 257 FO) MN=	BARR. ee
"	"	"	α , , δ , " , R , ,	L	LWR 14920 1+2	72 3 SO	-1.5 .08 13.8	L	O	11:46:21	60:00	4	5	3	GDE(1352, -366 172 FO) MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 18893 1+3	70 18 SO	-1.6 .08 8.8	S	O	12:51:06	60:00	3	3	1	GDE(1714, -505 251 FO) MN=	"
"	NGC 3783 84	SEYFERT 13.5	α 11 . 36 . 33.0 δ -37 . 27 . 41 R 245 . 21 . 50.4	L	LWR 14921 1+4	75 11 SO	-1.8 .08 14.2	L	O	14:30:57	90:00	4	6	4	GDE(-318, -120, 743 FO) MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 18894 1+5	73 16 SO	-1.9 .08 9.2	L	O	16:05:53	101:00	3	5	1	GDE(-120, -262 826 FO) MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

MAX solar activity
170 particles at 11:45
Tuesday

OBSERVATORY LOG

DATE D 27 M DEC Y 82 RAW TAPE D 27 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot under/f.:	FOCUS / DIRG / FHDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC004	HD 2151 44	42 IV 2.8	α 00,23,09 δ -77,32,00 R 95,47,18.0	H	LWR 14929 1+1	1657 344 FU	-2.4 .10 14.5	L	O	10:33:29	15:00	7	5	2	4DE(-281,-771 299 SO CAMT) NO 4MIN MN=171	DRAVINS ee
"	"	"	α , , δ , " , R , ,	H	LWR 14930 1+2	1700 294 FU	-3.5 .54 14.5	L	O	11:13:07	15:00	7	5	2	NO 4MIN MN=347	"
"	"	"	α , , δ , " , R , ,	H	LWR 14931 1+3	1668 353 FU	-2.5 .80 14.8	L	O	11:56:32	15:00	7	5	2	NO 4MIN MN=317	"
"	"	"	α , , δ , " , R , ,	H	LWR 14932 1+4	1654 222 FU	-2.2 .24 15.2	L	O	12:35:48	15:00	7	5	2	4 MIN OFF MN=316	"
"	"	"	α , , δ , " , R , ,	H	LWR 14933 1+5	1650 263 FU	-2.8 .29 15.2	L	O	13:15:06	15:00	7	5	2	4MIN OFF MN=349	"
PHCAL	HD60753 21	B3 IV 6.7	α 07,32,08.0 δ -50,28,29. R 196,37,31.1	L	SWP 18898 1+6	7669 302 FO	2.6 .16 8.5	L S	O	14:33:26 14:29:18	00:40.8 00:30	5 6	0	1	TRAIL R=0.490 N=1 MN=	CACCIARI ee
"	"	"	α , , δ , " , R , ,	L	LWR 14934 1+7	7650 428 FO	-1.8 .24 14.8	L S	O	14:43:57 14:39:49	00:31.2 00:21	5 6	0	2	TRAIL R=0.641 N=1 4MIN ON MN=714	"
"	BD+28 4211 16	Op 10.53	α 21,48,56 δ 28,37,35 R 130,44,33.8	L	SWP 18899 1+9	255 .1 FO	-.5 .30 9.2	L S	O	16:07:26 16:10:40	00:26 01:20	5 7	0	1	MN=	"

OBSERVATORY LOG

DATE D 27 M DEC Y 82 RAW TAPE D 27 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot under/f.:	FOCUS / DIRG / FHDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	BD+28 4211 16	Op 10.53	α 21,48,56 δ 28,37,35 R 130,44,33.8	L	LWR 14935 1+8	255 3 FO	-.5 .16 14.5	L S	O	16:14:23 16:18:22	01:00 03:00	5 6	0	2	MN=696	CACCIARI ee
"	BD+75 325 16	Sd0 9.54	α 08,04,43 δ 75,06,48 R ,	L	SWP 18900 1+10	642 2 FO	-2.3 .10 9.5	L	O	17:25:08	00:14	5	0	0	MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 14936 1+11	610 1 FO	-2.3 .36 14.8	L	O	17:28:34	00:24	5	0	2	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE: D 28 M DEC Y 82 — RAW TAPE: D 28 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. slot / undov/f.	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EC152	HD156074 50	C0 7.6	α 17, 11, 56.5 δ 42, 09, 49 R 198, 17, 39	L	LWR 14938 1 + 1	2728 5 FO	.8/.15 .08 12.8	L L	0	10:34:10 11:14:09	35:00 35:00	4	5	3	R.P (2, -212) R.P (-34, -204) GDE(879, -138, ...) MN= 763	QUERCI ee
"	TX PSC 50	N0 5	α 23, 43, 50.0 δ 03, 12, 36 R 114, 07, 50	L	LWR 14939 1 + 2	346 51 FU	1.9 .08 13.8	L S	0	12:45:35 14:09:12	80:00 10:00	3 1	4 0	2	GDE(967, -671 300 SO) MN=	"
"	TW HOR 50	C4 5.6	α 03, 11, 17.0 δ -57, 30, 30 R 136, 17, 22.5	L	LWR 14940 1 + 3	17366 65 FO	1.5 .08 14.5	L L	0	15:06:31 16:25:16	75:00 78:00	3	3	5	RP (2, -212), (-34, 204) GDE (393, -233, 192 FO) MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE: D 29 M DEC Y 82 — RAW TAPE: D 29 M DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. slot / undov/f.	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CM129	AV-126 23	13.5	α 0, 50, 46 δ -72, 55, 38 R 101, 58, 15	L	LWR 14947 1 + 1	74 — 5 0	-1.9 0.08 15.9	L	0	11:38:28	60:00	5	0	1	MN=	PREVOT / P.B.
"	"	"	α " , " , " δ " , " , " R " , " , "	L	SWP 18908 1 + 2	72 — 5.0	-1.9 0.08 11.2	L	0	12:42:33	100:00	5	0	1	MN=	" / "
"	SK 142 23	13.7	α 1, 9, 16.6 δ -72, 59, 04 R 106, 7, 44.2	L	LWR 14948 1 + 3	57 — 5.0	-1.9 0.08 16.2	L	0	14:42:28	25:00	4	0	1	MN=	" / "
"	"	"	α " , " , " δ " , " , " R " , " , "	L	SWP 18909 1 + 4	57 — 5.0	-2.0 0.08 12.2	L	0	15:16:56	60:00	5	0	1	MN=	" / "
"	SK 76 23	12.8	α 0, 57, 16 δ -72, 48, 11 R 103, 19, 4.5	L	LWR 14949 1 + 5	127 — 5.0	-1.6 0.08 16.5	L	0	16:35:35	20:00	5	0	1	MN=	" / "
	"	"	α " , " , " δ " , " , " R " , " , "	L	SWP 18910 1 + 6	128 — 5.0	-1.2 0.08 12.5	L	0	17:10:24	40:00	5	0	1	MN=	" / "
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 30 DEC 82 — RAW TAPE D M: 30 DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.o.	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 129	AV 398 23	B0.5 I 13.85	α 1 , 4 , 35.4 δ -72 , 12 , 4 R 104 , 37 , 28	L	LWR 14963 1 + 1	47 10 S.O.	-1.2 0.08 14.5	L	O	11:00:49	110:00	5	0	5	High bkg due to previous XSPREP MN=	PREVOT / P.B.
"	"	"	α " , " , " δ " , " , " R " , " , "	L	SWP 18911 1 +	46 3 S.O	-1.4 0.08 8.5	L	O	12:53:19	220:00	4	0	1	MN=	" / "
	SK 7	B3 I 12.66	α 0 , 44 , 00 δ -73 , 56' , 11" R 98 , 47 , 55.5	L	LWR 14964 1 +	133 7 S.O.	-1.3 0.08 14.2	L	O	16:58:26	35:00	5	0	3	MN=	" / "
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D M Y: 31 DEC 82 — RAW TAPE D M: 31 DEC

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.o.	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EM 252	HD 119069 21	B1 III 8.4	α 13 , 38 , 53.0 δ -65 , 35 , 58 R 263 , 15 , 3.8	H	SWP 18917 1 + 1	1632 2 f.o.	-.6 0.08 10.8	L	O	10:54:52	55:00	7	0	1	MN=	WEST / P.B.
"	HD 112481 23	B2 Ib 8.6	α 12 , 54 , 43.5 δ -69 , 30 , 36.0 R 257 , 12 , 54.7	H	SWP 18918 1 +	1619 3 f.o.	-1.1 0.08 11.2	L	O	12:32:34	195:00	6	0	1	MN=	" / "
"	HD 119069 21	B1 III 8.4	α 13 , 38 . 53.0 δ -65 , 35 , 58 R 263 , 15 , 3.8	H	SWP 18919 1 +	1617 5 f.o.	-1.1 0.08 11.8	L	O	16:26:56	40:00	5	0	1	Ref. pt at -5, -208 MN=	" / "
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	