I.U.E

VILSPA OBSERVATORY LOG

VOLUME 7

1984

OBSERVATORY LOG

DATE D 2 M Jan Y 84 RAW TAPE D 2 M Jan

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CYS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOM
FE229	Q 1309-056 85	BALQSO 16.5	α 13, 09, 00.7 δ -05, 36, 42.7 R 247, 27, 25.6	L	LWP 2537 1+	BO	-1.86 ; 26 5.8			08:44:17	total = 874 mins	3	1	9	reading GSFC guide 1002 2557 1037 F0	MC MAHON CG
"	"	"	α δ R	—	FES 1508 1+1	—	—	—		—	—				FES archived for collaboration image LWP 2537 MN=	"
			α 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 3 M JAN Y 84 RAW TAPE D 3 M JAN

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CYS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE229	0903+175 85	Q 16.5	α 09, 03, 49.94 δ 17, 34, 28.0 R 254, 37, 49.8	L	LWP 2541 1+	BO	-29 .08 8.2	L	O	09:22:43					read at GSFC guide x= 1775 y= 70 1041 F/O MN=	R. McMahon / DG.
			α δ R		1+1	FES 1510									FES archived. for collaborative image LWP 2541 MN=	
			α 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 01 Jan 84 RAW TAPE 01 Jan

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.	SPK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE229	0932+501 85	0s0	α 09,32,32 δ +50,06,40 R 293,15 ;23.3	L	SWP 21926 1+	BO	-152 ,08 7.5	L	O	08:50:38	total = 894 min.	1	1	9	read in GSFC guide [X = 1145 Y = -858 Lat 482 50 MN=	MC MAHON CG
"	"	"	α , , , δ , " , R , ,		FES 1507 1+1	"									FES archived for collaboration image SWP21926 MN=	"
			α , , 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 JAN Y 84 RAW TAPE D 4 M JAN

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
FI 158	NULL 99		α , , δ , , R , ,		SWR 1177 1 + 1					mod. at 08:49:01					SAFETY READ AVG 180 MAX 255 MN=	B. PAYNE / DG
	HD77581 59	B0.5Vn 6.9	α 09, 00, 13·2 δ -40, 21, 25·3 R 210, 40, 20·0	L	SWP 21930 1 + 2	588 455 10 F/0	0·08 6·5	L	O	09:30:24	70 sec 11:48	5	5	1	Trail rate 0.05654"/sec GO at 09:30:55 GO at 09:49:47 Total exp 70 sec MN=	〃
	HD 60753 21	B3 Vn 6·7	α 07, 32, 08·1 δ -50, 28, 29 R 188, 46, 22·0	L	SWP 21931 1 + 3	7121 22 F/0	-1·9 0·08 6·8	L	O	10:56:22	0:10	4	0	0	MN=	〃
	HD102567 Cl 59	B1 Vne 9·0	α 11, 45, 33·6 δ -61, 59, 43·9 R 249, 03, 32·4	L	SWP 21932 1 + 4	778 2 F/0	-0·9 0·08 6·8	L	O	11:44:40	16:5	5	0	1	Trail rate 0.05479"/sec MN=	〃
	A1118-616 59	09.5 II-Ie 12·1	α 11, 18, 45·2 δ -61, 38, 31·1 R 238; 20, 57·0	L	LWP 2545 1 + 5	210 s/o	-1·8 0·08 6·1	L	O	12:50:21	60:00	3	0	3	MN=	
	〃	〃	α , , δ , , R , ,	L	SWP 21933 1 + 6	210 3 s/o	-2·7 0·08 6·5	L	O	13:53:44	113:00	3	0	1	Guide X = -350, Y = 908 ct = 387 F/0 MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

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DATE D 5 M JAN Y 84 RAW TAPE D 5 M JAN

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
FC046	L 362-81 37	DA 13·05	α 23, 59, 35·3 δ -43, 26, 08 R 97, 26, 05·4	L	SWP 21940 1 + 1	105 s/o	-1·8 0·08 9·8	L	O	10:10:22	336:00	4	0	3	Guide X = 682 Y = 554 ct = 118 s/o MN=	KOESTER / DG
			α , , 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 6 M JAN Y 84 RAW TAPE D 6 M JAN

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
Fcp46	L19-2 37	DA 13.75	α 14, 26, 12.5 δ -81, 06, 46 R 286, 45, 50.5	L	SWP 21946 1+1	67 6 5/0	-1.5 0.08 9.2	L	O	09:07:34	240:0	7	0	3	Guide x=-491 y=-240 d=95 5/0 MN=	KOESTER/DG
"	"	"	α , , δ , , R , ,	L	LWP 2562 1+2	62 6 5/0	-1.2 0.08 9.5	L	O	13:19:24	147:00	7	0	4	Guide x=-380 y=-90 d=90 5/0 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=	

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DATE D 7 M JAN Y 84 RAW TAPE D 7 M JAN

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
PHCAL	HD 34816 λ LEP 20	B1 IV 4.29	α 05, 17, 16.0 δ -13, 13, 57 R 142, 27, 33.0	H	LWP 2569 1+1	602 79 F/u	-1.2 0.08 10.8	L	O	08:35:03	0:22	4	0	3	MN=	DGIARETTA/DG
	"		α , , δ , , R , ,	H	LWR 17219 1+2	602 91 F/u	-2.1 0.08 12.8	L	O	09:11:57	0:26	4	0	2	No 4 min warmup. MN=	
	BD+28°4211 16	Op 10.53	α 21, 48, 56.0 δ +28, 37, 34 R 138, 35, 15.7	L	SWP 21958 1+3	243 (0/20) F/0	-0.9 0.08 10.5	L S	O O	10:12:38 10:16:12	0:26 1:18	5 6	0	1	MN=	
	"	"	α , , δ , , R , ,	L	LWR 17220 1+4	243 (1119) F/0	(-0.8) (-1.3) 0.08 14.5	L S	O O	10:40:19 10:44:32	01:00 3:00	4 4	0	2	No foreign warmup MN=491	
	"	"	α , , δ , , R , ,	L	SWP 21959 1+6	243 — F/0	-1.3 0.08 10.8	L	O	11:12:27	1:18.1	5	0	1	Trail rate 0.256 "/sec 1 iteration MN=	
	"	"	α , , δ , , R , ,	L	LWR 17221 1+5	243 — F/0	-1.3 0.08 15.2	L	O	11:21:50	3:30	4	0	2	Trail rate 0.095 "/sec 1 iteration. MN=485	
	"	"	α , , δ , , R , ,	H	LWR 17222 1+7	243 22 F/0	-1.6 0.08 15.5	L	O	12:08:16	90:00	5	0	4	Guide at x=-713 y=-604 d=186 5/0 MN=424	
	BD+75°325 16	sd0 9.54	α 08, 04, 43.9 δ +75, 06, 48 R 343, 57, 09.9	L	LWR 17223 1+8	632 2 F/0	(-1.9) 0.08 16.5	L S	O O	14:15:38 14:19:32	0:24 1:12	5 4	0 0	2 2	MN=484	

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DATE D 7 M JAN Y 84 RAW TAPE D 7 M JAN

OSAL	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.	PA. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CAL	BD+75°325	S40	α 08,04,43.0 δ +75,06,48 R 343,57,09.9	L	SWP 21960 1+9	632 (3 29) F/O	-1.6 0.08 10.8	L	O	14:43:43	0:14	5	0	1	MN=	DG/DG
	16	9.54						S	O	14:47:08	0:42	6	0	1		
	11	11	α , , δ , , R , ,	L	SWP 21961 1+10	4	-2.1 0.08 11.2	L	O	15:13:17	0:43	4	0	1	Trail rate 0.46"/sec 1 iteration MN=	11
	11		α , , δ , 11 , R , ,	L	LWR 17224 1+12	11	-2.1 0.08 16.2	L	O	15:20:51	1:14	4	0	2	Trail rate 0.27"/sec 1 iteration MN=	11
	NULL 99		α 00,00,00 δ 00,00,00 R 00,00,00		LWP 2570 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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DATE D 8 M JAN Y 84 RAW TAPE D 8 M JAN

TOPOGAL	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.	PA. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE 176	3C 120	14.5	α 4,30,34.6 δ 5,15,0 R 117,38,57.1	L	SWP 21969 1+1	30 5/0 8/0	-.04 -.08 11.8	L	O	8:44:24	180:00	3	4	1	Gde -837,-282 CIV 100 Mn 252 5/0 Cg 100 MN=	WAMSTEKER /RL
FM 133	PG0304+184	12.6	α 3,4,57.6 δ 18,22,4 R 105,23,2.1	L	SWP 21970 1+2	81/94 7/10 5.0	-1.09 -.08 11.5	L S	O O	12:46:40 13:05:44	14:0 11:0	3 2	0 0	0 0	MN=	PETTINI /RL
4	11	11	α , , δ , 11 , R , ,	L	LWP 2576 1+5	93 5/0	-1.60 -.08 9.8	L	O	13 45:56	20:00	3	0	1	MN=	11
11	PG 2351+196	12.25	α 23,51,12 δ 19,49,27 R 118,25,37	L	SWP 21971 1+			L	O						stars not marked MN=	
11	PG 1743+477	13.2	α 17,43,6.2 δ 47,42,57 R 201,55,65	L	SWP 21971 1+4	100 20? 50	-1.55 -.08 9.5	L	O	15:34:17	14:00	4	0	0	Gde -755,562 1080 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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DATE D 9 M JAN Y 84 RAW TAPE D 9 M JAN

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
FM133	HD 225519	B05V 9.46	α 20, 12, 48.9 δ +38, 46, 17.0 R 165, 25, 47.3	H	SWP 21979 1+1	SB1 2 F0	-1.79 0.08 6.5	L	O	08:58:43	408:00	5 4	0	4	4 particle hits! MN=	PETTINI / BH
			α , , 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 10 M JAN Y 84 RAW TAPE D 10 M JAN

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
FM133-	HD 192303 23	B1 II 8.93	α 20, 10, 58 δ +38, 04, 36 R 166, 55, 57.5	H	SWP 21982 1+1	936 0 F0	-0.93 0.08 7.2	L	O	09;30:56	376:00	5	0	3	max RDN -207 - 180 more typical. MN=	PETTINI / BH
			α , , 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 84 RAW TAPE D 11 M JAN

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
FA035	HD15642 23	BOIII 8.54	α 02,29,23.7 δ +55,06,28 R 90,21,38.6	H	SWP 21989 1+1	1302 34 FO	-0.77 0.08 9.5	L	O	08:58:25	240:00	7	0	2	6 cts out of aperture overexposed at x1.5 long λ MN=	NANDY / BH.
	〃		α 〃 δ 〃 R 〃	L	SWP 21990 1+2	1302 53 FO	-1.23 0.08 10.2	S	O	13 24:09	7:00	7	0	0	overexposed x1.5 long λ MN=	
	S163 64	VLE 14.1	α 5.25.02.1 δ -71,34.24.3 R 151,23.065	L	SWP 21991 1+3	BO.	-1.46 0.08 9.8	L	O	14:26:20	50:00	3	0	1	39 cts out of apt. max DN 60 cont. (dx 1399, 151, 240x150) MN=	
	S163 64	〃	α 〃 δ 〃 R 〃	L	LWP 25918 1+4	35 — SO.	-2.97 0.08 8.5	L	O	15:25:52	27:00	3	0	3	35 cts out of apt. max DN 90 cont. 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 JAN Y 84 RAW TAPE D NOVE M

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
			α δ R		1+										MN=	
			α δ R		1+										MN=	
		ND	α R/T SUPPORT PERFORMED DUE TO δ BETA = Ø RECOVERY AFTER AN ANOMALOUS DELTA-V BURN + OBC CR												MN=	
			α δ R		1+										talker. 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 13 M JAN Y 84 RAW TAPE D 13 M JAN

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undow/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
FM034	5163 64	VLE 13.5	α 5 . 25 . 2.1 δ -71 . 34 . 24.3 R 149 . 58 . 19.2	L	SWP 22001 1+1	56 4 50	+1.96 .08 6.8	L	6	08:53:46	90:00	3	3	0	Gde 1391, 201, 178 50 MN=	NANDY / RG
"	"	"	α , , δ , , R , ,	L	LWP 2613 1+2	(36) (4) 50	+1.41 .08 6.5	L	0	10:31:10	70:00	4	0	2	Gde 1191, 341, 138 MN=	"
"	324 64	VLE 14.1	α 5 . 17 . 39.7 δ -66 . 45 . 17.9 R 148 . 18 . 48.5	L	SWP 22002 1+3	41 — 50	— .08 7.5	L	0	12:18:00	90:00	3	3	0	Gde 1448, -1228 238 B.O. MN=	"
"	AZZ 343 25	88I 13.05	α 1 , 2 , 21.4 δ -72 , 58 , 15.3 R 88 , 44 , 3.4	L	LWP 2614 1+4	100 T 50	-2.36 .05 7.8	L	0	15:07:18	93:00	5	0	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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DATE D 14 M JAN Y 84 RAW TAPE D 14 M JAN

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undow/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
FM034	AZZ 343 25	88I 13.05	α 1 , 2 , 21.4 δ -72 , 58 , 15.3 R 87 , 55 , 54.7	L	SWP 22006 1+1	93 3 30	-1.88 0.08 10.2	L	0	09:07:43	50:00	3	0	1	BCK = 23 Max gross cnt = 83 MN=	NANDY / BH
	AZZ 232 15	09 12.36	α 00 , 57 , 52.2 δ -72 , 26 , 53.1 R 86 , 58 , 19.5	L	LWP 2621 1+2	165 3 30	-2.03 0.08 9.5	L	0	10:12:34	10:00	5	0	2	gde 0 -339, -336 BCK = 20 360 S.O. Gross cnt = 250 MN=	
	"	" 12.36	α " δ " R "	L	SWP 22007 1+3	192 10 50	-1.90 0.08 10.5	L	0	10:43:56	18:00	5	0	1	gde -174, 482, 335 50. BCK = 21 gross cnt, 234 MN=	
	AZZ 6 23	80Ia 13.3	α 00 , 43 , 27.8 δ -73 , 31 , 49.2 R 82 , 56 , 29.0	L	LWP 2622 1+4	80	-2.54 0.08 10.5	L	0	11:33:50	50:00	7	0	3	83 at Rf pt. (50) gde 18, -98, 348 Sat 2800 - 2600 MN=	
	"	"	α " δ " R "	L	SWP 22008 1+5	80	-2.00 0.08 10.5	L	0	12:30:10	65:00	6	0	1	gde 217, -236 42850 Max. cnt. 220 gross BCK. 22 9 pix sat at 12850 MN=	
	"	"	α " δ " R "	L	LWP 2623 1+6	80	-1.90 0.08 10.8	L	0	13:40:01	25:00	5	0	2	gde 19, -100, 35250 BCK = 40 gross cnt max 223 at 2300 MN=	
	AZZ 464	09 13.6	α 01 , 10 , 18.2 δ -73 , 29 , 51.4 R 89 , 19 , 13.1	L	SWP 22009 1+7	80	-1.82 0.08 11.5	L	0	14:19:21	60:00	5	0	1	gde -721, -173, 2.0350 60 cts at RP. 50 BCK = 22 CONT ~240 MN=	
	"	"	α " δ " R "	L	LWP 2624 1+8	80	-2.10 0.08 11.5	L	0	15:23:40	23:00	5	0	2	gde -918, -39, 231 50 BCK = 39 gross ON cnt = 190 MN=	

OBSERVATORY LOG

DATE D 15 M JAN Y 86 RAW TAPE D 15- M JA

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT 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 ASTRON
FA035	AZ2469 20	B0 13.2	α 01 . 11 , 01.0 δ -72 , 45 , 25.1 R 88 , 57 , 8.2	L	LWP 2630 1+1	B0	-1.34 0.08 10.5	L	0	08:58:21	20:00	5	0	3	gde -445, -117, 136 FO BCK = 46 gross cnt = 218 MN=	NANOU/BH
	»	»	α , » δ , » R ,	L	SWP 22014 1+2	B0	-1.26 0.09 11.2	L	0	09:21:50	30:00	5	0	0	gde -246, -256, 150 FO target ds 875Q after BCK = 20 gross cnt = 260 MN=	
	MIS ID 65	?	α 0 . 56 . 53.4 δ -72 . 55 . 46.5 R 85 . 24 . 46.4	L	LWP 2631 1+3	B0	-1.48 0.09 11.2	L	0	10:30:16	24:00	0	0	2	MIS ID of field. Aborted MN=	
	AZ2208 13	09 14.1	α 0 , 56 . 53.6 δ -72 , 55 , 26.5 R 85 , 22 , 29.5	L	SWP 22015 1+4	B0	-1.37 0.08 11.5	L	0	10:18:46	70:00	4	0	1	Repeat B0 manoeuvre. gde -240, -387 240 BCK 21 gross cnt 112 MN=	
	»	»	α , » δ , : R , :	L	LWP 2632 1+5	B0	-1.65 0.09 11.5	L	0	12:35:35	40:00	4	0	3	gde -489, -248 (92,50) BCK 41 CONT gross 163 MN=	
	AZ2454 13	09 13.7	α 01 . 09 . 16.8 δ -72 , 59 , 08.3 R 88 , 13 , 24.1	L	SWP 22016 1+6	B0	-1.61 0.08 12.2	L	0	13:44:36	45:00	5	0	0	gde 296 , -767 212 FO BCK = 0 gross cnt = 254 MN=	
	S24 64	VLE 14.0	α 5 . 17 . 39.7 δ -66 . 45 . 17.9 R 146 . 09 . 21.8	L	LWP 2633 1+7	B0	-1.56 0.08 12.2	L	0	15:12:26	35:00	3	0	3	gde 1275, -430 2450s FO BCK = 42 gross cnt = 98 Jm MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 16 M JAN Y 84 RAW TAPE D 16- M JAN

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT 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 ASTRON
FA012	R126 (HD 37174) 23	B 4.0	α 5 . 36 , 49.0 δ -69 , 24 , 30 R 149 . 38 . 58.2	H	SWP 22022 1+1	159 (28) FO	-1.16 .08 11.5	L	0	10:44:24	302:00	3	0	2	Gde -312, -386, 254 FO MN=	KLARE / RG
			α , , 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 17 M JAN Y 84 RAW TAPE D 17 M JAN

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.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FA 195	AB Aur 34	ADep 7.2	α 4,52,34.3 δ 30,28,22. R 87,38,49.8	H	LWP 2646 1+1	4457 13 FO	-1.62 .08 10.5	L	O	13:25:24	38:00	5	5	3	MgII emission 225 DN 1 MINOR FRAME LOST & PARTICLE EVENT MN=	PRADERIE AT
			α , , δ , , R , ,	H	SWP 22030 1+2	4511 16 FO	-1.33 .08 11.2	L	O	14:07:44	100:00	4	0	1	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ HANDOVER R , ,		FROM 1+	ESFC	AT			13:06	BECAUSE	OF	Σ-9	FAILURE	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 JAN Y 84 RAW TAPE D 18 M JAN

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.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FI Ø91	A 0538-66 59	B2 III-IV 14.	α 5,35,42.8 δ -66,53,40 R 147,30,34.9	L	SWP 22035 1+1	80	-1.76 .08 10.5	L	O	08:59:31	90:00	4	4	0	TWO SPECTRA OF TWO STARS AT SAME TIME IN THE APERTURE MN=	MONK AT
			α , , δ , , R , ,	L	LWP 2651 1+2	80	-1.74 .08 10.2	L	O	10:35:59	50:00	3	0	2	MN=	
	HZ HER 59	Wk A 14	α 16,56,01.6 δ 35,25,05 R 224,39,3.4	L	SWP 22036 1+3	71 2 50	-.79 .08 10.8	L	O	12:32:40	60:00	3	3	0	NV emiss 60 DN CIV emiss 53 DN MN=	
			α , , δ , , R , ,	L	LWP 2652 1+4	60 2 50	-1.05 .08 10.8	L	O	13:38:07	25:00	3	0	1	MN=	
	HD 128220 59	sdO 8	α 14,32,56.6 δ -19,25,58 R 247,31,34.0	H	SWP 22037 1+5	1323 2 FO	-1.04 .08 10.8	L	O	14:36:02	40:00	5	0	1	MN=	
			α , , δ , , R , ,	H	LWP 2653 1+6	1312 3 FO	-1.47 .08 11.5	L	O	15:22:05	25:00	5	0	2	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 19 M JAN Y 84 RAW TAPE D 19 M JAN

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	CES 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
FA 195	HD 250550 34	A0e 9.1	α 5, 59, 6.3 δ 16, 30, 58 R 102, 46, 28.2	H	LWP 2663 1+2	507 4 FO	-1.81 .08 11.2	L	O	08:42:33	236:00	5	5	3	H_2 II emiss · 215 DN MN=	PRAGERIE AT
	NULL IMAGE		α , , δ , , R , ,		LWP 2662 1+1							—	-	-	NULL READ 61 FOR LWP 2663 MN=	
	AB AUR 34	A0e 7.2	α 4, 52, 34.2 δ 30, 28, 22 R 88, 15, 21.4	H	SWP 22048 1+3	4517 13 FO	-1.16 .08 12.2	L	O	13:05:07	162:00	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 20 M JAN Y 84 RAW TAPE D 20 M JAN

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	CES 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
FC φ29	HD 31964 40.	F0I$_a$ 3.5	α 4, 58, 22.0 δ 43, 45, 5 R 74, 1, 56.7	L	LWP 2671 1+1	796 102 FU	-2.00 .08 11.5	L S	O	08:35:39 08:41:31	0:30 1:00	7 7	6 6	1	H_2 II SATURATED (Emission?) MN=	BOEHM AT
			α , , δ , , R , ,	L	SWP 22053 1+2	779 102 FU	-1.24 .08 11.5	L S	O	09:04:53 09:28:03	16:00 33:00	7 3	3 3	0	SATUR λ>1750A MN=	
			α , , δ , , R , ,	L	LWP 2672 1+3	780 109 FU	-1.87 .08 11.2	L S	O	10:04:56 10:11:51	0:20 0:40	6 6	5 5	1	MN=	
			α , , δ , , R , ,	L	SWP 22054 1+4	756 113 FU	-1.99 .08 11.5	L S	O	10:41:21 10:50:06	4:30 6:30	5 3	3 3	0	MN=	
			α , , δ , , R , ,	H	LWP 2673 1+5	788 142 FU	-2.11 .08 11.2	L	O	11:25:19	12:00	5	0	2	MN=	
			α , , δ , , R , ,	L	SWP 22055 1+6	750 140 FU	-2.21 .08 11.2	L	O	11:53:14	40:00	7	3	1	SATUR λ>1700 MN=	
FC φ30	HD 182917 57	M+3 5.8	α 19, 23, 14.2 δ 50, 8, 31 R 190, 25, 7.8	L	LWP 2674 1+7	16666 60 FO	-1.48 .08 10.5	L S	O	13:24:57 13:28:50	0:20 0:10	7 4	0 0	1	MN=	
			α , , δ , , R , ,	L	SWP 22056 1+8	17230 58 FO	-1.48 .08 11.2	L S	O	13:32:37 13:37:12	0:30 0:20	4 3	3 2	0	H_2 II emis: 56 DN MN=	

OBSERVATORY LOG

DATE D 20 M JAN Y 84 RAW TAPE D 20 M JAN

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
FC Ø30	HD 181977 57	M+B 5.8	α 19, 23, 14.2 δ 50, 8, 31 R 190, 25, 7.8	L	LWP 2675 1+9	18794 54 FO	-2.07 .08 10.8	L	O	14:37:46	0:07	5	0	1	MN=	BOEHM AT
			α , , δ , , R , ,	H	SWP 22057 1+10	17635 46 FO	-2.07 .08 10.8	L	O	14:41:31	60:00	5	7	1	HeII emiss. saturk. other lines as well. OK MN=	
			α , , 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 21 Jan 83 RAW TAPE 21 Jan

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
FA181	HD 259431 26	B5 8.7	α 06, 30, 19.4 δ 10, 21, 36 R 115, 22, 53.2	H	LWP 2681 1+1	1875 31 FO	-2.86 .08 10.5	L	O	09:10:17	120:00	5	6	3	guide 1345 1441 cts 33650 B=44 C=220 MN=	TJIN A DJIE CG
"	LKHα215 26	B0.8 10.7	α 06, 29, 56 δ 10, 11, 54 R 115, 27, 21.6	L	SWP 22063 1+2	196 23 FO	-.93 .08 10.2	L	O	11:27:45	16:00	3	0	0	guide 1345 1206 cts 2829 B=16 C=43 MN=	
"	"	"	α , , δ , , R , ,	L	LWP 2682 1+3	189 31 FO	-.73 .08 11.5	L	O	12:02:43	40:00	5	0	3	guide 1145 1345 B=49 C=209 MN=	
"	BD+09 860 34	A0.5 10	α 05, 32, 24 δ 10, 00 28 R 109, 38, 45.2	L	SWP 22064 1+4	384 8 FO	-.54 .08 12.5	L	O	13:09:20	158:00	9	0	2	B=32 C=8×ocn 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 jan Y 84 — RAW TAPE D 22- M jan

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE ID. RAW T. FILE	FES CTS ref. p-slot undow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOM
FA181	BN Ori 34	A2 5 9.9	α 5,33,47.8 δ 6,48,12 R 112,48,18.6	L	SWP 22074 1+1	441 1 FO	-1.23 .08 12.8	L	O	08:55:02	20:00	3	1	1	B=21 C=58 Imin=1698 MN=	Tjin A Djie CG
"	"	"	α , , δ , " , R , ,	L	LWP 2693 1+2	410 8 FO	-1.73 .08 12.8	L	O	09:29:45	30:00	7	1	1	B=30 C=2×overexp MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 22075 1+3	421 3 FO	-2.24 .08 12.8	L	O	10:04:08	180:00	5	3	2	B=32 C=220 MN=	"
"	"	"	α , , δ , " , R , ,	L	LWP 2694 1+	400 3 FO	-1.99 .08 12.5	L	O	13:09:08	12:00	5	0	2	B=36 C=205 MN=	"
"	RR Tau 34	A4e 11.2	α 5,36,23.0 δ 26,23,32 R 88,13,48.3	L	SWP 22076 1+	119 1 FO	-2.90 .08 14.5	L	O	14:20:30	87:00	3	3	1	guide X 601 Y -355 cts 200 FO B=26 C=72 MN=	"
			α , , δ , , R , ,		1+										pb in Σg → 2 last images read in GSFC tape played back on 23rd jan - MN=	
			α , , δ , , R , ,		1+										on 23 jan's raw tape - MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 23 M jan Y 84 — RAW TAPE D 23- M jan

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE ID. RAW T. FILE	FES CTS ref. p-slot undow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOM
FI217	HDE 24534 59	0.97 9	α 5,35,48 δ 26,17,18 R 88,32,52.7	L	LWP 2698 1+1	634 1 FO	-1.62 .08 10.8	L	O	08:25:55	3:30	5	0	3	guide X 225 Y -1311 cts 98 50 B=41 C=225 MN=	GIOVANNELLI CG
"	"	"	α , , δ , " , R , ,	L	SWP 22080 1+2	630 3 FO	-1.68 .08 12.5	L	O	08:50:30	16:00	5	0	1	guide X 428 Y -1453 cts 123 50 B=23 C=212 MN=	
"	"	"	α , , δ , " , R , ,	H	SWP 22081 1+3	638 3 FO	-1.73 .08 13.2	L	O	09:33:43	354:00	4	4	3	guide X -1258 Y 762 cts 242 50 B=49 C=158 E=182 MN=	
			α , , δ , ,												MN=	
			α , , δ , , R , : ,		1+										play-back of the 2 last images of 22 jan. MN=	
			α , , δ , , R , ,		LWP 2694 1+4										MN=	
			α , , δ , , R , ,		SWP 22076 1+5										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 24 M jan Y 84 RAW TAPE D 24 M jan

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.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FI 217			α δ R		1 +										MN=	Giovanelli CG
			α No real time because of EG problem 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 25 JAN 84 RAW TAPE 25 JAN

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.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FI Ø91 HZ HER 59		x ray	α 16, 56, 1.6 δ +35, 25, 05 R 231, 9, 8.8	L	SWP 22099 1 + 1	59 2 50	-0.89 0.08 10.8	L	O	090853	60:00	3	4	2	NV137, CIV 103 B=21 C ≃ 90 at ~ 1700Å MN=	HONK AC
"	"	"	α δ R	L	LWP 2705 1 + 2	58 3 50	-2.01 0.08 10.5	L	O	101509	30:00	4	4	2	C = 141 B = 35 MN=	
"	AØ538-66 59	x ray 14	α 5, 35, 42.8 δ -66, 53, 40 R 140, 13, 11.1	L	SWP 22100 1 + 3	60.	-7.0 0.08 11.2	L	O	115744	115:00	5	0	2	POE(-27, 766) 2 spectra (fainter on C ≃ 250 B ≃ 28 MN=	pic de oppositio to SAT) LAP spectrum is weak / contrived
"	"	"	α δ R	L	LWP 2706 1 + 4	60.	-1.99 0.08 11.2	L	O	135913	48:00	4	0	2	POE(-722, 904) C = 158 B = 36 MN=	
			α δ R		1 +						32				MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	

OBSERVATORY LOG

DATE D 26 M JAN Y 84 RAW TAPE D 26 M JAN

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	ITS CTS ref. p. slot window/f.s	FOCUS DIR; THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE174	NGC 3081 84	Sy 2 14.5	α 9,57,10.1 δ −22,35,11 R 207,52,30.4	L	SWP 22191 1+1	50 0 50	−2.61 0.08 9.8	L	O	07 39 15	428:00	3	4	4	PE(212,801) 3σ(Fe) EN(165) AlII(141) B=82 MN=	DURRET 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=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 28 M JAN Y 84 RAW TAPE D 28 M JAN

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 DAG. THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOM
FE059	NGC3081 84	Seyll 13.6	α 09 . 57 , 10.1 δ −22 , 35 , 11 R206, 46, 55	L	LWP 2710 1+2	B.D. (51 s/o)	−1.0 0.08 10.8	L	O	07:45:37	410:00	3	1	5	GDE X=−1 Y=952 C=150 B=70 CTS: 351 F/O. MN=	DURRET / AW
"	NULL		α , , δ , , R , ,		LWP 2709 1+1		11.5			14:41:02					G1 cut-off 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 29 JAN 84 RAW TAPE 29 JAN

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 BRT THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FIØ90	HZ Her 59	xray 14	α 16 . 56 , 1.6 δ +35, 25 , 05 R 234, 47 , 11	L	SWP 22133 1+2	70 10 50	−2.43 0.08 10.2	L	O	082972	40:00	4	4	2	XSPREP C = 100 B=17 LIV:86 HV:111 MN=	O'BRIEN AC
"	"	"	α , , δ , , R , ,	L	LWP 2713 1+1	81 16 50	−1.69 0.08 9.2	L	O	074821	30:00	4	0	2	C=132 B=27. MN=	"
"	HD128220 16	sd O 8	α 14 , 32 , 56.6 δ +19 , 25 , 58 R 253, 27, 56	H	SWP 22134 1+3	1377 5 FO	−0.60 0.08 10.2	L	O	100506	40:00	5	0	2	MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 22135 1+4	1433 7 FO	−1.09 0.08 10.5	L	O	111428	40:00	5	0	2	MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 22136 1+5	1439 2 FO	−0.78 0.08 10.8	L	O	122327	40:00	5	0	2	C=190 B=42 MN=	"
"	AØ538-66 59	xray 14	α 5 , 35, 428 δ −66, 53, 40 R 136, 04, 21.	L	SWP 22137 1+6	40. 82 2 50	−2.90 0.08 10.5	L	O	141733	32:00	5	0	1	C=184 B=17 GDE(−94,868) 470 FO MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 30 M JAN Y 84 RAW TAPE D 30 M JAN

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 DBS THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FA 208	HK ORI 34	B7 11.8	α 05,28,39.9 δ +12,06,54 R 103,23,30	L	LWP 2718 1+1	281 6 S/O	-2.0 0.08 10.5	L	O	07:41:52	50:00	7	7	3	MN=	CATALA / AWH
"	"	"	α , , δ , , R , ,	L	SWP 22143 1+2	276 4 S/O	-1.6 0.08 9.8	L	O	08:35:11	165:00	5	6	1	C=200 B=33 MN=	"
"	HD 250550 34	A0 9.7	α 05,59,06.3 δ +16,30,58 R 98,24,35	L	LWP 2719 1+3	572 1 F/O	-1.55 0.08 9.8	L	O	11:39:44	4:00	5	1	2	C=213 B=34 MN=	"
"	"	"	α " δ " R "	L	SWP 22144 1+4	522 4 F/O	-1.2 0.08 10.5	L	O	12:05:45	10:00	4	1	0	C=135 B=15 MN=	"
"	BD +46 3471 34	A2 10.2	α 21,50,39.6 δ +46,59,20 R 163,29,09	L	SWP 22145 1+5	315 0 F/O	-1.2 0.08 10.2	L	O	13:07:37	100:00	4	1	1	C=141 B=28 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 31 M JAN Y 84 RAW TAPE D 31 M JAN

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 DBS THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI TOO	1E 0630+178 59	? >15	α 6,30,59.2 δ 17,48,33 R 95,17,20.2	L	SWP 22166 1+2	BO	-2.15 .08 10.2	L	O	07:49:22	120:00	1	1	1	GDE X 808 Y 596 177/50 MN=	VILSPA AT
			α , , δ , , R , ,	E	FES 1516 1+1	1	—	—	—	—	—				FIELD FOR SWP 22166. TARGET IN SWLA MN=	
FA 195	HD 34452 36	Ap 5.4	α 5,15,42.4 δ 33,41,49 R 85,33,4.2	L	SWP 22167 1+3	19624 75 FO	-1.78 .08 10.2	L	O	10:25:14	0:16	7	0	0	SATUR λ > 1614 Å + SATUR. PEAK AT 1310Å MN=	CATALA AT
	AB AUR 34	A0Ve 7.2	α 4,52,34.2 δ 30,28,22 R 91,10,45.1	H	LWP 2720 1+4	4584 9 FO	-1.78 .08 8.5	L	O	10:52:10	197:00	7	7	4	GDE X 33 Y 734 537/FO H,II P Cyg EMiss: SATUR 5x CONTINUUM SATUR AT λ > 2600 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 Feb Y 84 RAW TAPE D 1 M Feb

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.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE 257	Mgc 5548 84	13.0	α 14,15,41 δ +25,22,00 R 257,51,15	L	LWP 2726 1+1	59 18 5.0	.24 .14 9.5	L	O	06/57/25	60/0	3	5	1	~~Dark~~ Comba in CAMS so cnts = 62 MgII 190 Abs.	WAMSTEKER WW
"	"	"	α , , δ , , R , ,	L	SWP 22178 1+2	59 45.0	-1.4 .12 10.8	L	O	08/02/54	90/0	3	5	1	CIII 180 Abs Lyα 200 Abs C 40 Abs MN=	" "
"	"	"	α , , δ , , R , ,	L	LWP 2727 1+3	64 8 5.0	-2.49 .08 11.5	L	O	09/37/18	90/0	4	6	1	MgII 9 pix Sat. MN=	" "
"	"	"	α , , δ , , R , ,	L	SWP 22179 1+4	63 9 5.0	-2.24 .08 11.2	L	O	11/11/26	96/0	3	5	1	CIII 175 DN Lyα 220 DN C 50 Abs 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 Feb Y 84 RAW TAPE D 28 M Feb

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.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE063	Mgc 4593 84	Emiss 13.5	α 12,37,04.7 δ -5,04,16 R 246,16,7.9	L	LWP 2731 1+1	74 9 5.0	0.19 .08 11.5	L	O	07/51/18	120/0	3	5	4	max DN=193 at MgII cont DN=90 MN=	clavel W.W.
"	"	"	α , , δ , , R , ,	L	SWP 22186 1+2	68 11 5.0	-1.91 .08 11.8	L	O	10/00/35	167/0	3	3	1	340M @ CIII 40 DN a cont. MN=	" "
			α , , 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 Feb Y 84 RAW TAPE D 3 M Feb

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 BIN THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FI090	A0538-66 59	B 14	α 5,35,42.8 δ −66,55,40 R 131,18,46	L	SWP 22188 1+1	B/0	−1.62 .08 8.2	L	0	06/13/27	90/0	5	0	1	−160) 109 cts 550 738 MAL cam 1300 170 DMN=	O'Brien WW.
"	"	"	α , , δ , , R , ,	L	LWP 2735 1+2	B/0	−1.80 .08 8.5	L	0	07/55/46	60/0	4	0	3	CNT = 178 gms BKG = 42 MN=	" "
FI090	HD 128220 16	sd0 87	α 14,32.56 δ −19,25,58 R 256,16,24	H	SWP 22189 1+3	1352 2 F.O.	−1.92 .08 8.8	L	0	09/41/26	35/0	5	0	0	CNT = 175 gms BG = 19 MN=	" "
"	" 16	"	α , , δ , , R , ,	H	SWP 22190 1+4	1328 3 F0	−1.92 .08 9.2	L	0	10/47/14	35/0	5	0	1	BG 22 CNT 191 gms gde. 462 −817. MN=	" BH.
"	HZ HER 59	14	α 16,56,01.6 δ +35,25,05.0 R 239,27,41.8	L	SWP 22191 1+5	81 1 S0	−1.42 .08 9.5	L	0	12/03/40	40/0	3	4	0	gde −888 249 MN=	" WW
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 4 M FEB Y 84 RAW TAPE D 4 M FEB #1 #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 BIN THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FI 247	EX HYA 54	B0 13.0	α 12,49,42.6 δ −28,58,40 R 237,12,19.1	L	LWP 2738 1+1	74 1 S0	−1.08 .08 10.2	L	0	07:50:52	17:00	3	4	1	(2,−212) R. Pavlis GDE | −40 E = 148 | −708 B = 74 C = 108 MN=	KRAUTTER AT
			α , , δ , , R , ,	L	SWP 22201 1+2	74 1 S0	−1.44 .08 11.2	L	0	08:12:35 08:31:37	10:00 17:00	2 3	3 3	0	RP(2,−212) GDE(160,−844) RP(−34,−204) GD(127,−83[illegible] FELCTS OF PREVIOUS EXP. MN=	E=102 . 70 B=16 . 16 C=60 . 46 AT raw
			α , , δ , , R , ,	L	LWP 2739 1+1 TAPE 2	72 0 S0	−2.15 .08 10.5	L	0	08:57:53	17:00	3	4	1	GDE(−60,−700) E=144 B=35 C=108 MN=	
			α , , δ , , R , ,	L	SWP 22202 1+2 TAPE 2	67 0 S0	−2.08 .08 10.2	L	0	10:47:27	11:07	2	2	0	TRAIL RATE = 0.03 E=34 B=17 C=38 MN=	
			α , , δ , , R , ,	L	LWP 2740 1+3 TAPE 2	70 0 S0	−2.08 .08 9.8	L	0	11:32:03 11:49:52	12:00 15:00	3 3	4 3	2	RP(2,−212) GDE(−39,−704) RP(−34,−704) GDE(−78,−701) MN=	E=166 E=127 B=38 B=18 C=123 1st loc C=98 2nd loc
			α , , δ , , R , ,	L	SWP 22203 1+4 TAPE 2	70 0 S0	−2.01 .08 9.8	L	0	12:10:52 12:31:09	15:00 15:00	3 3	3 3	0	RP(2,−212) GDE(160,−844) RP(−34,−204) GDE(123,−83[illegible] MN=	E=60 E=59 B=18 B=18 C=64 C=51 1st loc. 2nd loc
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 5 M FEB Y 84 RAW TAPE D 5 M FEB

PROPOSAL	OBJECT TYPE	SP. TYPE m_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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EXPL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE Ø63	NGC 4593 84	Sp. I 13	α 12, 37, 4.7 δ -5, 4, 16 R 246, 11, 38.0	L	SWP 22207 1+1	78 19 50	-2.93 .08 12.8	L	O	07:19:05	20:00	3	3	2	60E X:-341 Y:-841 40/FO MN=	CLAVEL AT
			α , , δ , , R , ,	L	LWP 2741 1+2	77 17 50	-1.34 .08 11.5	L	O	10:55:28	112:00	3	5	1	60E X:-938 Y:-686 115/FO E=196 B=46 C=135 MN=	
			α , , 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 RAW TAPE D M

6–11 FEB, 84

PROPOSAL	OBJECT TYPE	SP. TYPE m_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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EXPL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FCAM	HZ [illegible]	A	α , , δ , , R , ,		1+										MN=	
	NO REAL-TIME SUPPORT DUE TO TELE-FILE TESTS,		α , , δ , , R , ,		1+										MN=	
	AND SHIFT S.O.F. 9. FEB OWED TO NASA.		α , , δ , , R , ,		1+						AWH				MN=	
			α , , 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 FEB Y 84 RAW TAPE D 8 M FEB

PROPOSAL	OBJECT TYPE	SP. TYPE m_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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	NULL IMAGE		α ' " / δ ' " / R ' "	L	LWP 2751 1+1			L	O	14:29:30					TELEFILE TEST MN=	AT
			α ' " / 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 10 M Feb Y 84 RAW TAPE D 10 M Feb

PROPOSAL	OBJECT TYPE	SP. TYPE m_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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FC097	HZ Her 59	A 14.1	α 16, 56, 02 / δ +35, 25, 05 / R 245, 25, 35	L	SWP 22238 1+1	91 2 5.0	-1.81 .04 12.5	L	O	5/34/40	60/0	5	6	2	MV 200 MH=	Imhoff Nusakomic
11	11	11	α ' " / δ 11, 11, 4 / R ' "	L	LWP 2758 1+	94 5 5.0	-2.16 .08 12.5	L	O	6/42/53	30/0	6	0	2	MN=	4
FC097	A0538-66 59	B2 15.0	α 05, 35, 42.8 / δ -66, 53, 40 / R 124, 05, 39	L	SWP 22239 1+	B/0	-1.56 .08 12.2	L	O	09/14/41	160/0	7	0	2	MN=	4
11	4	4	α ' " / δ 4, 4, 4 / R ' "	L	LWP 2759 1+	B/0	-2.32 .08 11.5	L	O	11/58/49	55/0	4	0	2	MN=	4
			α ' " / δ ' " / R ' "		1+										MN=	
			α ' " / δ ' " / R ' "		1+	Obsn taken from SSFC									MN=	
			α ' " / δ ' " / R ' "		1+										MN=	
			α ' " / δ ' " / R ' "		1+										MN=	

OBSERVATORY LOG

DATE D 12 M FEB Y 84 RAW TAPE D 12 M FEB

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.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE174	OI 090.4 87	BL Lac. 14.5	α 07,54,22.6 δ +10,04,40 R 101,36,31.4	L	LWP 2771 1+1	B.O.	-1.5 0.08 10.8	L	O	05:52:55	120:00	3	1	2	GDE: X=-1075 Y=232 CTS: 148 MN= F/O.	TREVES / AWH.
"	"	"	α " δ " R "	"	SWP 22252 1+2	B.O.	-1.2 0.08 10.5	L	O	07:58:39	288:00	3	1	2	GDE: X=-877 Y=93 CTS: 177 F/O MN=	" "
			α 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 FEB Y 84 RAW TAPE D 13 M FEB.

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.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE243	NGC 4552 81	ell.gal ~11	α 12,33,08.4 δ +12,49,54 R 263,36,17	L	SWP 22255 1+1	222 50 S/O	-1.4 0.08 9.5	L	O	05:55:31	411:00	3	1	3	C=90 B=57 MN=	AWH for cassegrain / 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 14 M FEB Y 84 RAW TAPE D 14 M FEB

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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FI ϕ75	SS CYG S4	Dwarf Nova 12.1	α 21, 40, 44. δ 43, 21, 18 R 181, 33, 55.4	H	SWP 22263 1+	248 5 50	0.18 0.08 10.8	L	O	060924	640:00	2	3	8	GOE (-806, 159) 327 FO READ AT GSFC MN=	CASSATELLA
			α , , δ , , R , ,		1+										Max Net Count ≤ 25 DN at long λ Max net Em. Line ≤ 87 DN in CIV R ~ 121 MN=	
	"	"	α , , δ , , R , ,		FES 1521 1+										ref. for SWP 22263 MN=	common rectified 3/5/84 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=	

OBSERVATORY LOG

DATE D 15 M FEB Y 84 RAW TAPE D 15 M FEB

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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE073	NGC 4350 80	Sϕ 12.4	α 12, 21, 26.6 δ 16, 58, 26.5 R 246, 0, 0	L	LWP 2782 1+3	BO	-2.46 0.08 12.2	L	O	07:06:37	306:00	3	3 * 0	4	Acq ofset = 246° gde (-812, -557) (6320) 174 cts at ref pt. MN=	HELD/BH. BGK54 present=? May=III
	"	"	α , , δ , , R , ,	L	SWP 22271 1+1	BO	-2.47 0.02 12.2	L	O	07:17:38	292:00	1	0	2	serendipity BCK = 187 MN=	* emission line in IV but could just be continuum i.e. O public.
	NULL 99		α , , δ , , R , ,		LWP 2781 1+2					12:45:20					NULL read for LWP 2782 (CG-1 CUTOFF) MN=	
			α , , 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 FEB Y 84 RAW TAPE D 16 M FEB

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.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI030	HD 24912 (ζ Per) 14	O7.5III 4.0	α 03, 55, 43 δ 35, 39, 00 R 100, 11, 03.6	H	SWP 22277 1+1	658 69 FU	-1.02 0.08 9.2	L	O	05:32:22	1:00	5	0	0	BCK=20 CNT(gross)=208). MN=	VAN DER KLIS/ BH.
	HD 77581 (Vela X-1) 59	B0.5Ib 7.1	α 09, 00, 13.2 δ -40, 21, 25 R 163, 49, 52.6	H	SWP 22278 1+2	5247 8 FO	-1.46 0.08 10.2	L	O	06:17:18	150:00	5	5	1	BCK=30 CNT(gross)=180 Fine 212 MN=	
FM192	HD 26171 22	B9 5.92	α 04, 06, 13.8 δ 13, 16, 03 R 101, 45, 44.4	H	LWP 2788 1+3	12363 44 FO	-2.24 0.70 8.5	L	O	09:25:04	33:00	8	0	9	BCK=116 ! Flare pk 08:30 MN=	G-REWING, BIANCHI/ BH.
	HD 21686 22	B9 5.13	α 03, 22, 40.3 δ 11, 09, 59 R 103, 48, 00.3	H	SWP 22279 1+4	21598 80 FO	-2.61 0.60 9.5	L	O	10:16:26	22:00	7	0	1	BCK=26 MN=	
	〃	〃	α 〃 δ 〃 R 〃	H	LWP 2789 1+5	22019 63 FO	-2.01 0.50 9.2	L	O	10:50:21	15:00	7	0	3	BCK=49 MN=	
	HD 26912 21	B3 4.29	α 04, 12, 48.9 δ 08, 46, 07 R 101, 55, 26.1	H	SWP 22280 1+6	497 317 FU	-1.05 0.36 9.8	L	O	11:31:19 11:48:58	3:00 2:30	5	0	1	Stop cut off after ~5CNTS. Effective time 2.30. BCK=21 CNT=220 (gross) MN=	
	HD 22484 41	F8 4.29	α 03, 34, 19.1 δ 00, 14, 40 R 102, 44, 37.7	H	LWP 2790 1+7	420 61 FU	-.82 0.16 9.5	L	O	12:36:20	15:00	5	0	2	BCK=31 CNT=210 MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE: D 17 M FEB Y 84 RAW TAPE D 17 M FEB

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.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI030	HD 24912 ζ PER 14	O7.5III 4.0	α 03, 55, 43 δ 35, 39, 00 R 100, 26, 42.9	H	SWP 22286 1+1	635 75 FU	-1.07 0.10 9.8	L	O	05:23:36	1:00	5	0	1	BCK=21 CNT(gross)=210 MN=	VAN DER KLIS/ BH.
	HD 77581 (Vela X-1) 59	B0.5Ib 7.1	α 09, 00, 0.2 δ -40, 21, 25 R 162, 36, 32.2	H	SWP 22287 1+2	5744 7 FO	-0.89 0.08 10.2	L	O	06:24:19	150:00	5	5	1	BCK=30 FLUX=218 MN=	
FM192	NGC 3132 70	P.Neb 8.8	α 10, 04, 55.1 δ -40, 11, 29.0 R 181, 58, 36.6	L	LWP 2796 1+3	1462 51 50	-2.60 0.08 11.8	L	O	09:25:09	13:00	5	5	1	B 229 MN=	G-REWING -BIANCHI/ BH
	〃	〃	α 〃 δ 〃 R 〃	L	SWP 22288 1+4	333 — FO	-2.04 0.08 13.2	L	O	09:53:58	20:00	4	4	0	B=20 CNT=130 gross. MN=	
	G-D4 37	DA 15	α 03, 02, 01.2 δ 02, 45, 23 R 103, 21, 47.4	L	LWP 2797 1+5	B.O.	-2.60 0.08 11.2	L	O	11:09:11	60:00	5	0	3	gdc (931, 1043) (584, 0) BK=33 CNT=210 (gross) MN=	
	〃	〃	α 〃 δ 〃 R 〃	L	SWP 22289 1+6	B.O.	-2.33 0.08 11.5	L	O	12:16:46	33:00	5	0	0	gdc (1130, 908) (631, 702) CNT=182(gross) BCK=14 MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 11 M FEB Y 84 RAW TAPE D 12 M FEB

PROPOSAL	OBJECT TYPE	SP. TYPE m_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.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONO
FM 192	HD 114710 44	G0V 4.28	α 13,09,32.4 δ 28,07,52 R 280,18,50.9	H	LWP 2799 1+1	436 84 F/U	-7.25 .08 9.8	L	O	05:30:21	20:00	7	0	2	B=31 MN=	GREWING/BIMA RG
	HD 113865 30	A3V 6.5	α 13,03,47.1 δ 29,17,47 R 282,24,27.2	H	LWP 2800 1+2	7250 7 F/O	-2.00 .08 10.8	L	O	06:31:28	48:00	7	0	2	Gde -601, 1378 220 FO MN= B=18	
	HD 113797 22	B9V 6.25	α 13,03,44.3 δ 36,03,57 R 288,44,51.0	H	SWP 22295 1+3	10647 54 F/O	-2.12 .08 10.5	L	O	07:36:19	80:00	5	0	0	Gde -1442, 634 122 F O MN= B=18	
	HD 115810 33	A9III 6.02	α 13,16,46.4 δ 35,23,24 R 285,32,58.2	H	LWP 2801 1+4	10838 29 FO	-1.48 .08 11.2	L	O	09:18:29	41:30	6	0	2	Gde -1157, -791 219 FO MN= B=39	
EI 030	HD 24912 14	0.75III 4.0	α 3,55,43 δ 35,39,0 R 100,45,25.3	H	SWP 22296 1+5	719 120 FU	-.75 .08 10.5	L	O	09:41:49	1110	5	0	0	Some misfocus in an unilerating portion of spectrum MN=	VAN DER KLIS RG
	HD 77581 23	B0.5Ib 7.1	α 09,00,13.2 δ -40,21,25 R 161,9,9.7	H	SWP 22297 1+	5380 17 FO	-2.40 .08 10.5	L	O	10:42:29	45:00				Gde 303, 1773 217 SO READ AT GODDARD BECAUSE OF ANTENNA FAILURE MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 19 M FEB Y 84 RAW TAPE D 19 M FEB

PROPOSAL	OBJECT TYPE	SP. TYPE m_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.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOM
EI 030	HD 24912 14	0.75III 4.0	α 3,55,43 δ 35,39,0 R 100,58,13.9	H	SWP 22299 1+1	679 85 F U	-1.69 .08 10.2	L	O	05:03:05	1:10	5	0	1	MN=	VAN DER KLIS RG
"	HD 88661 26	B2IVe 5.7	α 10,10,1.7 δ -57,48,48 R 181,9,42.7	H	SWP 22300 1+2	14865 55 F0	-2.26 .08 10.5	L	O	05:49:02	4:30	5	0	1	MN=	"
"	HD 77581 23	B0.5Ib 7.1	α 9,0,13.2 δ -40,21,25 R 160,6,48.8	H	SWP 22301 1+3	5348 19 FO	-2.35 .08 10.5	L	O	06:39:00	188:00	4	0	1	LB = 5.2 Tk = 197 MN=	"
FM 192	HD 21790 22	B8V 4.72	α 2,28,8 δ -5,14,43 R 100,56,10	H	SWP 22302 1+4	321 64 FU	-2.06 .08 10.8	L	O	09:36:21	6:00	5	0	1	MN=	GREWING-BIMA RG
"	"	"	α , , δ , " , R , ,	H	LWP 2806 1+5	329 53 FU	-1.96 .08 9.8	L	O	10:08:17	4:00	6	0	2	1 Minor frame lost MN=	"
"	HD 23363 22	B7IV 5.1	α 3,41,57.9 δ -1,19,10.1 R 101,34,42.5	H	SWP 22303 1+6	218 27 FU	-2.5 .08 10.8	L	O	10:30:30	7:00	5	0	0	MN=	"
"	"	"	α , , δ , " , R , ,	H	LWP 2807 1+7	242 28 FU	-3.00 .08 10.2	L	O	11:03:36	5:00	5	0	1	MN=	"
	HD 26793 22	B9 6.24	α 4,11,52.1 δ 9,53,11 R 101,15,6.9	H	SWP 22304 1+8	200 27 FU	-2.52 .08 10.5	L	O	11:42:17	7:00	5	0	0	MN=	

OBSERVATORY LOG

DATE D 19 M Feb Y 84 RAW TAPE D 19 M Feb

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT 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.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FM192	HP 9994 41	F8 5.06	α 3, 10, 12.2 δ −1, 22, 55 R 101, 78, 38.5	H	LWP 2808 1+9	218 27 FU	1.96 .08 10.5	L	O	12:27:33	20:00	3	0	2	MN=	Gursky + Brandt / RA
			α , , 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 Feb Y 84 RAW TAPE D 20 M Feb

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RGHT 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.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE073	NGC 4350 80	12.4	α 12, 21, 26.4 δ 16, 58, 20 R 275, 29, 13.6	L	LWP 2816 1+3	155 — 50	-.42 .08 11.8	L	O	06:45:01	352:10	3	0	4	used at F-8, 192 MN=	HELD / RG
	11		α , , δ , , R , ,	L	SWP 22306 1+1	4	-.42 .08 11.2	L	O	06:46:26	32010	1	0	2	MN=	
	NULL		α , , δ , , R , ,		LWP 2815 1+2										Null for LWP 2816 (CC-1 CURREF)	
			α , , 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 Feb Y 84 RAW TAPE D 21 M Fe

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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI030	HD 24912 14	07.5III 4.0	α 3, 55, 43.0 δ 35, 39, 0 R 101, 29, 52.1	H	SWP 22308 1+1	669 77 FU	-2.12 -.08 9.8	L	O	05:31:10	1:10	5	0	1	MN=	Van Der KLI / R
	HD 77581 23	B0.5Ib 7.1	α 09, 00, 13.2 δ -40, 21, 25 R 157, 39, 11.4	H	SWP 22309 1+2	5293 18 FO	-2.12 .09 10.2	L	O	06:07:45	60:00	5	0	1	MN=	
GC083	P 1659 52	Ineq ~13	α 5, 32, 28.5 δ -5, 25, 9.6 R 103, 26, 27.5	L	SWP 2824 1+3	BO	-1.62 .08 9.8	L	O	09:40:40	45:00	3	0	2	1172, 940 19632 FO Roll is of "guide" MN=	BRANCH / R
	P 1746 52	neb. var ~12	α 5, 32 38.2 δ -5, 27, 14.7 R 103, 26, 27.5	L	SWP 22310 1+4	B.0	-1.66 .08 10.2	L	O	10:31:19	30:00	4	0	0	666, 707 26526 FO Roll of "guide" MN=	
	11	11	α 5, δ , R ,	L	LWP 2825 1+5	B.0	-1.14 .08 10.5	L	O	11:10:51	40:00	4	5	2	466, 244 24378 FO Roll of "guide" MN=	
	P1773 52	neb. var ~14	α 5, 32, 41.6 δ -5, 31, 53.8 R 103, 26, 27.5	L	SWP 22311 1+6	B.0	-1.53 .08 10.2	L	O	12:09:55	35:00	2	0	0	-240, 1270 20719 FO Roll as above MN=	
			α , δ , R ,		1+										MN=	
			α , δ , R ,		1+										MN=	

OBSERVATORY LOG

DATE D 22 M Feb Y 84 RAW TAPE D 22 M Feb

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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI030	HD 24912 14	07.5III 4.0	α 3, 55, 43 δ 35, 39, 0 R 101, 45, 21.6	H	SWP 22321 1+1	641 97 FU	-250 .08 10.5	L	O	06:45:30	1:10	5	0	1	MN=	Van der KLI / R6
"	"	"	α , δ , R ,	H	SWP 22322 1+2	670 FU	-2.06 .08 10.5	L	O	06:11:18	1:10	5	0	0	MN=	"
"	"	"	α , δ , R ,	H	SWP 22323 1+3	663 85 FU	-206 .08 10.5	L	O	06:36:44	1:10	5	0	0	MN=	"
"	HD 77581 23	B0.5Ib 7.1	α 9, 00, 13.2 δ -40, 21, 25 R 156, 21, 15.4	H	SWP 22324 1+4	5104 14 FO	-1.62 .08 10.5	L	O	07:17:48	150:00	5	0	1	Z9 crash during exposure. No Hint left... MN=	"
FI007	HD 24912 14	07.5III 4.0	α 3, 55, 43 δ 35, 39, 0 R 101, 48, 47.1	H	SWP 22325 1+5	652 86 FU	-.80 .08 11.5	L	O	10:58:09	1:10	5	0	1	MN=	"
"	"	"	α , δ , R ,	H	SWP 22326 1+6	677 92 FU	-2.01 .08 11.5	L	O	11:32:25	1:10	5	0	1	MN=	"
"	"	"	α , δ , R ,	H	SWP 22327 1+7	662 82 FU	-2.34 .09 11.2	L	O	11:58:00	1:10	5	0	1	MN=	"
"	"	"	α , δ , R ,	H	SWP 22328 1+8	674 81 FU	-2.27 0.08 11.2	L	O	12:26:45	1:10	5	0	1	MN=	"

OBSERVATORY LOG:

DATE D 23 M FEB Y 84 RAW TAPE D M

PROPOSAL	OBJECT TYPE	SP. TYPE m_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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
			α δ R		1 +										MN=	
	NO	REAL-TIME	SUPPORT:		1 +		SHIFT			OWED		TO			NASA. MN=	
			α 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 FEB Y 84 RAW TAPE D 24 M FEB

PROPOSAL	OBJECT TYPE	SP. TYPE m_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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PE272	Ma600 88	gal. 16	α 2,48,27.1 δ 4,14,52.1 R102,38,23.7	L	SWP 23367 1 + 1	BD	-1.28 0:00 8.5	L	O	05:36:04	431:00	3	0	3	gde = (526,172) 997(FO) DCIL= CNT=107 MN=	DUPLOT/DH.
			α 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 25 M FEB Y 84 RAW TAPE D 25 M FEB

PROPOSAL	OBJECT TYPE	MAG. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	ITS CTS conf. 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
FE257	NGC3393 84	Sey f 13.9	α 10, 46, 00.0 δ −24, 53, 48 R 187, 33, 48.8	L	LWP 2844 1+1	48 13 50	−0.63 0.08 8.5	L	O	055136	110:00	2	3	3	GDE(429,−332)725FO C=52 B=44 E=72 MN=	CASSATELLA
FS246	CROMMELIN (1983N) 6	Comet 11.9	α 1, 29, 51 δ −1, 42, 33 R 101, 39, 9	L	SWP 22354 1+2	292 100 50	−5.7 −1.62 0.08 7.8	L S	O	092641 095956	30:00 30:00 60:00	0 0	2 4	2	NUCLEUS. Lyα LAP sat. MN=	FESTOU Lyα SAP 126 DN at LAP 40 DN B=16;
"	"	"	α , , δ , , R , ,	L	LWP 2845 1+3	/	−1.62 0.08 8.5	L S	O	092841 100112	26:00 26:00 52:00	0 0	3 0	4	NUCLEUS IN SWLA E=129 B=39 MN=	
			α , , 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 FEB Y 84 RAW TAPE D 26 M FEB

PROPOSAL	OBJECT TYPE	MAG. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	ITS CTS conf. 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
FE272	NGC2537 88	Hark. 12.5	α 8, 9, 41.3 δ 46, 8, 45 R 50, 55, 31.3	L	SWP 22359 1+1	b.o.	−1.52 0.08 6.8	L	O	055205	325:00	3	0	3	GDE(352,374)117FO C=90 B=45 MN=	DUFLOT
			α , , 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 feb Y 84 RAW TAPE D 27 M feb

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL NIGLE	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 ASTRONOME
FM 197	AV 398 23	BoI 13.87	α 01 , 04 , 34.4 δ -72 , 12 , 01 R 40 , 20 , 20.4	L	SWP 22361 1+1	41 7 SO	-1.43 .08 7.2	L	O	04:37:25	400:00	5	0	4	guide x = -1076 y = -496 B=59 ct = 327 C=246 MN=	PREVOT LE COARER CG
			α , , 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 feb Y 84 RAW TAPE D 28 M feb

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL NIGLE	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
FM197	SK 73 23	B2.5I 12.65	α 0 , 56 , 55.6 δ -72 , 32 , 29 R 37 , 10 , 3.5	L	LWR 17257 1+1	128 3 SO	-.74 .08 11.8	L	O	4:56:19	56:00	7	0	2	guide x 441 y 1136 B=29 ct 188 50 C=2X MN=	Précot + Lecoarer CG
"	"	"	α , , δ , " , R , ,	L	SWP 22365 1+3	131 3 SO	-2.24 .08 8.8	L	O	05:58:21	150:00	7	0	1	guide x 640 y 3938 B=31 ct=169 C=2ySX MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 17258 1+2	119 7 SO	-2.70 .08 13.2	L	O	08:34:29	28:00	5	0	2	B=27 C=224 several MF missing image recorded also on tape MN=	"
"	SK 145 23	B2Ia 12.50	α 01 , 09 , 57.0 δ -72 , 47 , 15 R 40 , 15 , 47.7	L	LWR 17259 1+4	141 4 SO	-1.47 .08 14.2	L	O	10:43:16	25:00	6	0	2	B=27 C=255 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										pb with the signal throughout the night due to snow? LWR 17258 Have several MF missing. MN=	
			α , , δ , , R , ,		1+										recorded on history tape at GSFC. MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 29 M feb Y 84 RAW TAPE D 29 M feb

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
FH197	AV 214 23	B2I 13.35	α 0,57,14.3 δ -72,29,23 R 36,11,35.1	L	LWR 17263 1+1	72 SO	-1.62 .08 12.2	L	O	04:54:31	60:00	5	0	3	guide 1059 D=30 1031 C=230 ct=286 50 MN=	PREVOT CG
"	"	"	α , , δ , , R , ,	L	SWP 22378 1+2	69 2 SO	-2.25 .08 8.8	L	O	05:01:12	150:00	5	0	1	guide 12 65 B=35 11 73 C=180 2 50 30 MN=	"
"	SK 107 13	09 5III 12.9	α 01,01,13.6 δ -72,04,27 R 37,08,40.4	L	LWR 17264 1+3	105 6 SO	-1.73 .08 13.5	L	O	08:56:54	21:00	5	0	2	guide 1650 B=26 581 C=236 29550 MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 22373 1+4	109 6 SO	-2.03 .08 9.8	L	O	09:25:18	29:00	6	0	1	B=17 C: flux X. MN=	"
"	SK 120 23	B0.5 13.50	α 01,03,53.0 δ -73,19,49 R 37,28,26.9	L	LWR 17265 1+6	62 4 SO	-1.56 .08 14.2	L	O	10:17:29 10:55:55	49:00	5	0	3	guide 11 55 B=30 -1271 C=242 ct 3945 MN=	
"	NULL 99	/	α , , δ , , R , ,	-	LWP 2866 1+5	—	—	-	-	—	—	0	0	1	MN=	
			α , , δ , , R , ,		1+										the spectrum is double : there is a companion at 7".5 also inside the aperture. MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 1 M mar Y 84 RAW TAPE D 1 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
FA011	NGC 6210 70	P0 12.	α 16,42,23.7 δ 23,53,29 R 263,25,39.2	H	SWP 22384 1+1	487 13 FO	-.58 .08 5.8	L	O	04:39:01	200:00	7	3	2	guide 258 1144 C=120 S15 FO E=2x E=34 MN=	WEHRSE CG
"	"	"	α , , δ , , R , ,	H	LWP 286 1+2	471 7 FO	-2.15 .08 9.5	L	O	08:05:28	182:00	4	3	4	B=59 guide 58 C=140 -995 E=190 582 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=	

OBSERVATORY LOG

DATE D 2 M mar Y 84 RAW TAPE D 2 M mar

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FA050	HD106223 30	B2 7.42	α 12,10,45.4 δ +30,33,38 R 317, 6, 34.4	L	LWP 2873 1+1	3319 116 LA 312 SA FO	.13 .08 8.5	L S	O	04:26:42 04:32:35	3:00 2:00	7 3	0 0	3	C = 1.5× B = 30 C = 114 MN=	WEHRSE CG
"	"	"	α , , δ , , R , ,	L	SWP 22388 1+2	3358 7 LA 154 SA FO	-.31 .08 8.8	L S	C	04:57:20 04:58:29	3:00 10:00	7 4	0 0	1	B = 24 C = 173 MN=	"
"	UV1758+36 20	B2 11.4	α 17,58.18.0 δ +36,29,00 R 253,55,23.0	L	LWP 2874 1+3	118 3 LA 4 SA FO	-.14 .08 8.5	L S	O	05:59:55 06:09:28	5:00 5:00	7 5	0 0	3	C = 2× B = 32 C = 212 MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 22389 1+4	108 1 LA 4 SA FO	-.58 .08 8.2	L S	O	06:31:25 06:47:04	5:00 5:00	7 6	0 0	1	C = 2× B = 17 C = 3 pix× MN=	"
"	"	"	α , , δ , , R , ,	H	LWP 2875 1+5	423 2 SO	-2.04 .08 8.2	L	O	07:13:49	120:00	4	0	3	B = 60 C = 170 MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 22390 1+6	105 4 FO	-2.05 .08 7.5	L	O	09:18:13	90:00	3	0	1	B = 37 C = 110 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 3 M MAR Y 84 RAW TAPE D 3 M MAR

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FA050	HD 171858 22	9.9 B9	α 18,34,54.6 δ −23,14,12 R 273,28,41.3	H	SWP 22396 1+1	445 13 OV/F	-.52 .08 5.1	L	O	04/57/13	90/0	5	0	1	MN=	WEHRSE W.W.
FA050	HD171858 22	9.9	α , , δ " , " , R , ,	H	LWP 2880 1+2	412 3 OV/F	-3.87 .08 4.5	L	O	06/32/25	90/0	5	0	3	MN=	"
FA011	NGC6210 70	12	α 16,42.23.7 δ 23.53.29 R 264,59,29	H	SWP 22397 1+3	477 8 OV/F	-3.34 .08 5.8	L	O	08/44/15	123/0	3	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 04 M Mar Y 84 RAW TAPE D 04 M Mar

PROPOSAL	OBJECT TYPE	SP.TYPE m_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.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FI041	RX Cas 66	9.36 ge	α 3, 3, 15 δ +67, 23, 7 R 119, 9, 40	L	SWP 22404 1+1	764 0 F.0	1.04 .08 7.2	L	0	04/27/06	170/0	3	8	1	MN=	BOEHNHARDT WW
"	"	"	α , , δ 4, 4, 4 R , ,	L	LWP 2887 1+2	726 9 F0	-2.32 .08 8.2	L	0	07/28/11	49/0	5	8	1	MN=	"
FI 041	HD166937 μ Sgr 66	3.87 B8epIa	α 18, 10, 46 δ -21, 4, 25 R 270, 15, 46	L	LWP 2888 1+3	724 118 F.U.	-1.78 .08 8.5	L	0	09/11/17	0/05	3	0	0	MN=	"
"	"	"	α , , δ , 4, R , ,	L	SWP 22405 1+4	709 89 FU	-1.78 .08 85			09/15/00	0/3	3	0	1	MN=	"
"	"	"	α , , δ , 4, R , ,	H	LWP 2889 1+5	763 112 FU	-1.96 .08 8.5	L	0	10/08/40	2/50	6	0	1	MN=	"
"	"	"	α , , δ , 4, R , ,	H	SWP 22406 1+6	723 113 FU	-1.95 .08 8.2	L	0	10/15/09	11/15	6	0	1	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 05 M Mar Y 84 RAW TAPE D 05 M Mar

PROPOSAL	OBJECT TYPE	SP.TYPE m_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.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FI041	w Ser 66	FseIb 9.4	α 18, 06, 58 δ -15, 33, 37 R 268 14, 33	L	SWP 22412 1+1	713 5 F.0	-.76 .7 5.8	L	0	04/47/18	41/0	3	5	0	MN=	BOEHNHARDT W.W.
"	"	"	α , , δ , 4, R , ,	L	LWP 2890 1+2	679 3 F.0	-2.32 .08 5.1	L	0	05/33/02	12/0	5	6	1	MgII 1 pix cut. MN=	"
"	"	"	α , , δ , 4, R , ,	L	SWP 22413 1+3	667 2 F.0	-2.66 .08 6.5	L	0	05/53/42	41/0	3	5	0	MN=	"
"	"	"	α , , δ , 4, R , ,	L	LWP 2891 1+4	679 F.0.	-2.48 .08 6.1	L	0	06/45/39	12/0	5	6	1	MN=	"
"	"	"	α , , δ , 4, R , ,	L	SWP 22414 1+5	697 7 F.0	-2.39 .08 6.8	L	0	07/12/18	41/0	3	5	0	MN=	"
"	"	"	α , , δ , 4, R , ,	L	LWP 2892 1+6	693 1 F.0	-2.21 .08 6.5	L	0	07/57/56	12/0	5	6	1	MN=	"
"	"	"	α , , δ , 4, R , ,	L	SWP 22415 1+7	697 2 F.0	-1.69 .08 7.2	L	0	08/24/26	89/0	5	8	2	MN=	"
"	"	"	α , , δ , 4, R , ,	L	LWP 2893 1+8	705 3 F.0	-1.44 .08 6.5	L	0	09/50/20	25/0	7	9	1	MN=	"

OBSERVATORY LOG

DATE D 05 M Mar Y 84 RAW TAPE D 05 M Mar.

PROPOSAL	OBJECT TYPE	SP.TYPE m_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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FI041	W Ser 66	FseIb 9.4	α 18, 6, 58 δ −15, 33, 37 R 268, 14, 33	L	SWP 22416 1+9	7.11 6 F.0	−1.71 .08 7.5	L	0	10/20/55	27/0	3	4	0	MN=	BOEHNHARDT 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 6 M MAR Y 84 RAW TAPE D 6 M MAR

PROPOSAL	OBJECT TYPE	SP.TYPE m_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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI029	Sco X-1 59	13.2	α 16, 17, 4.3 δ −15, 31, 14 R 261, 1, 52.1	L	SWP 22424 1+1	89 3 5/0	−1.83 .08 7.8	L	0	05:09:17	70:00	4	5	0	MN=	PENNA /Rb
"	"	"	α , , δ , , R , ,	L	LWP 2901 1+~	26 2 F0	+1.25 .08 7.5	L	0	06:25:22	55:00	5	8	2	1 pix satd Mg II MN=	"
EE270	NGC 4151 89	Sey 1.5 12.5	α 12, 8, 0 δ 39, 41, 0 R 333, 44, 58.9	L	SWP 22425 1+3	169 (10) 80	−1.79 .08 10.2	L	0	08:16:40	60:00	3	5	0	3 pix sat at Lyα gross 245 e CIV local bg ~25 MN=	SNIJDERS /Rb
"	"	"	α , , δ , , R , ,	L	LWP 2902 1+4	165 21 50	−2.66 .08 9.2	L	0	09:24:01	30:00	3	5	1	gross 215 @ Mg II local bg ~ 40 MN=	
"	"	"	α , , δ , , R , ,	L	SWP 22426 1+5	170 11 50	−2.66 .08 9.8	L	0	10:00:45	45:00	2	5	0	Alast PNT gives gross 205 eCIV 174 loc. bg ~ 30 1 pix sat at Lyα MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 7 M MAR Y 84 RAW TAPE D 7 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.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FI041	AR Pav 66	Oe+M3II 10.85	α 18, 15, 23.8 δ −66, 06, 00 R 282, 57, 20.2	L	SWP 22434 1+1	186 1 FO	.06 .08 7.8	L	O	04:40:53	55:00	3	6	0	10 pix sat at λ1900 MN=	BOEHNHARDT IR6
"	"	"	α , , δ , , R , ,	L	LWP 2903 1+(2	182 1 Fo	-1.73 .08 6.8	L	O	05:40:05	90:00	6	7	2	65 pix saturated Guiding from last. Playback [illegible] gives same MN=	"
"	W Cru 66	G 8.6	α 12, 9, 20 δ −58, 30, 18 R 196, 20, 44.3	L	SWP 22435 1+3	1394 2 FO	-1.79 .08 7.8	L	O	06:50:22	22:00	3	3	0	MN=	"
"	"	"	α , , δ , , R , ,	L	LWP 2904 1+4	1432 2 FO	-1.35 .08 7.2	L	O	07:34:58	5:06	3	5	1	MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 22436 1+5	1419 0 FO	-1.26 .08 7.5	L	O	07:56:05	~~70:06~~ 69:06	4	5	0	Moved too early from SWLA. Exact integr. time is 69:06 MN=	"
"	"	"	α , , δ , , R , ,	L	LWP 2905 1+6	1396 6 FO	-1.89 .08 7.2	L	O	09:09:27	10:00	4	6	1	4 pix sat at λ2800 MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 22437 1+7	1385 3 FO	-2.13 .08 7.8	L	O	09:35:25	60:00	4	5	1	MN=	"
"	"	"	α , , δ , , R , ,	L	LWP 2906 1+8	1376 2 FO	-2.13 .08 7.2	L	O	10:38:29	10:00	4	6	1	3 pix sat at λ2800 MN=	"

OBSERVATORY LOG

DATE D 8 M Mar Y 84 RAW TAPE D 8 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.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
IE 135.	Q1630+377 85	QSO 16.0	α 16, 30, 14.9 δ 37, 44, 10 R 272, 39, 2.4	L	SWP 22440 1+	B.0 (6Hz)	-1.21 .08 5.5	L	O	04:57:11	350:00	2	3	2	Code 599-1060 166 50 MN=	SNIJDERS / RG
			α , , 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 9 MAR 84 RAW TAPE 9 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.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PE 135	Q1630+377 85	QSO 16.0	α 16,30,14.9 δ 37,44,10 R 093,32,12	L	SWP 22444 1+1	(4) (11) 8.0	-.56 .08 9.2	L	O	06:55:01	354.00	3	0	2	The first 25 min the object was not in the centre of aperture — very high Y drift MN=	SNIJDERS / Rg
			α δ R		1+										Gdc X=588, Y=457 194 s/o MN=	
			α 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 MAR Y 84 RAW TAPE D 10 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.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI029	SCO X-1 59	13.0	α 16.17.04 δ -15,31.14 R 261,26.43	L	SWP 22453 1+1	93 1 S/O	-0.64 0.08 9.5	L	O	04:59:10	60:00	4	5	1	CIII: 236 DN gross NI 1247Å 1203 DN C=180 E=236 B=25 MN=	PRINJA / AWH.
"	"	"	"	L	LWP 2917 1+2	122 3 S/O	-1.9 0.08 8.8	L	O	06:03:48	60:00	7	1	3	MN=	"
EE270	NGC 4151 84	12.5	α 12.08.00 δ 39.41.00 R 340,22.16	L	SWP 22454 1+3	167 18 S/O	-3.8 0.08 10.2	L	O	07:50:38	40:00	3	5	0	Lyα 246 DN gross CIII 178 CIII](1914) 164 C=60? E=246 B=20 MN=	SNIJDERS / ANH
"	"	"	"	L	LWP 2918 1+4	172 17 S/O	-1.8 0.08 9.2	L	O	08:37:00	30:00	3	5	2	MgII 227 gross C=107 E=227 B=40 MN=	
"	"	"	"	L	SWP 22455 1+5	169 17 S/O	-2.6 0.08 9.8	L	O	09:14:21	93:00	3	6	1	CIII](1914), CIII, Lyα all int. C=80 E=255+ B=22 MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 11 M MAR Y 84 RAW TAPE D 11 M MAR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	IUE CTS ent. p. slot undov/f.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE212	PKS 1404-267 81.	(K) 14	α 14 .04 .37.9 δ -26 .46 .52 R 237.51.19.2	L	SWP 22460 1+1	B.O.	-0.83 0.08 7.5	L	O	04:26:43	380:00	1	1	3	GDE x=576 y=113 ots=510 F/● MN=	MC.GLYNN/ AWH.
			α ' " δ ' " R ' "		1+										LAST SIGMA-9 AT VILSPA MN=	SUPPORT FA
			α ' " 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=	

LWP 04 03:55 05

exit umbra 03:19:10
penumbra 03:20:52

OBSERVATORY LOG

DATE D 12 M mar Y 84 RAW TAPE D 12 M mar P1

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	IUE CTS ent. p. slot undov/f.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	BD+75°325 16.	sdO 9.54	α 8 .4 .43.0 δ +75 .6 .48 R 52 .23 .255	L	SWP 22465 1+1	5[illegible] 1 FO	-2.04 .08 7.5	L	O	04:25.46	0:14	5	0	1	B=14 C=180 MN=	GRY GSE obs. CG
"	"	"	α ' " δ ' " R ' "	L	SWP 22466 1+3	613 0 FO	-3.35 .08 7.5	L	O	05:31:58	0.43.4	5	0	0	trailed I=1 rate = 0.461 B=14 C=160 MN=	"
"	"	"	α ' " δ ' " R ' "	L	LWP 2933 1+2	556 0 FO	-2.48 .10 6.0	L	O	04:34:55	0:20	5	0	4	B=32 C=215 MN=	"
"	"	"	α ' " δ ' " R ' "	L	LWP 2934 1+4	545 1 FO	-3.35 .08 7.2	L	O	05:44:31	1:40	5	0	3	trailed I=1 rate = 0.20 B=31 C=215 Star missing MN=	"
"	HD 93521 12	O9IIIp 7.04	α 10 .45.34.0 δ 37 .50 .4 R 18 .29 .30.0	L	SWP 22467 1+5	5190 10 FO	-3.35 .08 7.2	L	O	06:59:37	0:03	5	0	0	B=17 C=170 MN=	"
"	"	"	α ' " δ ' " R ' "	L	LWP 2935 1+6	5087 10 FO	-3.00 .08 7.5	L	O	07:05:22	0:03	5	0	3	B=31 C=200 MN=	"
"	"	"	α ' " δ ' " R ' "	L	SWP 22468 1+7	5299 2 FO	-2.21 .08 7.2	L	O	08:02:46	0:12	5	0	0	trailed I=1 rate = 1.667 B=17 C=185 MN=	"
"	"	"	α ' " δ ' " R ' "	L	LWP 2936 1+8	5346 0 FO	-1.87 .08 7.2	L	O	08:14:41	0:11	5	0	2	trailed I=1 rate = 1.80 B=35 C=185 MN=	"

OBSERVATORY LOG din kom(1) ena: LRES instead of HRES DATE D 12 M Mar Y 84 RAW TAPE D 12 M Mar P 2

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO./ RAW T. FILE	TES CTS ref. p. slot unkw/f.s	FOCUS DIR. IHDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	κ UMA 2.1	B3 V 1.84	α 13,45,34.0 δ +49, 33, 44 R 316, 27, 18.6	H	SWP 22469 1+9	4577 695 FU	-.39 .08 7.2	L	O	09:23:51	0:06	5	0	1	B = 32 C = 175 MN=	GRY CG
"	"	"	α , , δ , , R , ,	H	LWP 2937 1+10	4563 703 FU	-.39 .08 7.2	L	O	09:29:07	0:05	5	0	2	B = 43 C = 210 MN=	
"	BD+33 2642 2.0	B2 IV 10.83	α 15. 50. 01.0 δ 33, 05, 28 R 281, 10, 25.7	L	SWP 22470 1+11	170 0 FO	-1.26 .08 6.0	L	O	10:41:12	4:00	5	0	1	B = 15 C = 170 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

HV0 : 03:21 off
LWP on: 03:27:49
umbra: 03:15:51
OBSERVATORY LOG GODDARD OBS. DATE D 13 M Mar Y 84 RAW TAPE D 13 M Mar

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot unkw/f.s	FOCUS DIR. IHDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FC 198	HD 99967 47	K2 III 6.36	α 11, 27, 42.0 δ +46, 55, 59 R 1, 24, 55.5	L	SWP 22479 1+1	8258 29 FO	-.43 .08 8.5	L	O	04:09:30	270:00	3	3	2	guide: 369 DN=136 286 B=62 219(SO) C=128 MN=	SCHRIJVER CG
"	HD 168454 47	K3 III 2.70	α 18, 17, 48.0 δ -29, 51, 05 R 273, 4, 49.1	L	SWP 22480 1+2	1775 300 FU	-2.39 .08 8.2	L	O	05:29:40	80:00	3	3	1	guide: 753 DN=125 680 B=25 214 FO C=78 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+						SWP 22479:	em abs			OI 1304Å 136 DN SiII: 1817 Å 1846 Å MN=	
			α , , δ , , R , ,		1+										1925 Å MN=	
			α , , δ , , R , ,		1+						SWP 22480:				OI : 125 DN CII : very weak SiII : 79 DN MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

exit umbra 03:12:14
penumbra 03:14:10

LWP on: 03:26:12

OBSERVATORY LOG

DATE D 14 M Jan Y 84 RAW TAPE D 14 M Jan

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	DIS CTS ref. p. slot undiv/f.s	FOCUS BK; THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EI029	SCO X1 59	X-ray Binary 13.3	α 16,17,04.3 δ -15,31,15 R261,52,31.5	L	SWP 22485 1+1	87 4 50	-1.69 .08 8.8	L	O	04:05:46	60:00	4	5	1	guide -474 -794 E=218 60 50 B=38 MN=	HOWARTH CG
EI029	"	" 12.8	α , , δ , , R , ,	L	LWP 2947 1+2	126 3 50	-2.32 .36 7.5	L	O	05:12:38	50:00	7	0	4	guide -669 -645 B=50 361 50 C=2X MN=	"
"	"	12.9	α , , δ , , R , ,	L	SWP 22486 1+3	121 3 50	-2.84 .08 8.5	L	O	06:07:35	55:00	4	5	1	guide -471 -785 E=228 4 28 50 180 NE B=32 MN=	"
			α , , δ , , R , ,												C=143 MN=	
EE270	NGC 4151 84	Sy Sat 12.6	α 12,08,00.4 δ +39,41,02 R346,52,53.3	L	SWP 22487 1+4	157 13 50	-3.53 .56 7.2	L	O	08:16:38	40:00	3	5	1	Emission + guide E:174 B=22 C=50 MN=	ELVIUS CG
"	"	"	α , , δ , , R , ,	L	LWP 2948 1+	160 13 50	-3.61 .54 7.5	L	O	08:03:29	30:00	3	5	3	guide -195 -480 E:209 366 50 C=83 B=35 MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 22488 1+	160 11 50	-2.48 D1 8.2	L	O	09:38:17	72:00	3	5	1	emission E=255 1 pixel. C=65 B=27 MN=	"
			α , , δ , , R , ,		1+										MN=	

exit umbra 03:08:25
penumbra 03:01:20

OBSERVATORY LOG

DATE D 15 M Jan Y 84 RAW TAPE D 15 M Jan

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	DIS CTS ref. p. slot undiv/f.s	FOCUS BK; THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE162	MRK 673 84	Sy Sat 14.49	α 14,15,06.1 δ +27,05,16.2 R296,52,32.3	L	SWP 22490 1+2	29 80 80	-1.62 .08 7.5	L	O	04:02 04:02:40 04:44:49	28:00 365:00 393:09	3	0	60	during first 28 min station might have been slightly out. MN=	KOLLATSCHNY CG
"	"	"	α , , δ , , R , ,	D	FES 1522 1+1	4	"	2		05:52:19					(difference of -25 to -30 in Y between calculated and observed spacecraft) MN=	
			α , , δ , , R , ,		1+										we did the BO again from a new station => OK. guide -126 MN=	
			α , , δ , , R , ,		1+										318 236 50 B=63 C=97 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

exit { umbra 03 04 07
penumbra 03 06 15

OBSERVATORY LOG: Goddard. DATE D 16 M mar Y 84 RAW TAPE D 16 M mar

page 1

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot unkw/f.s	FOCUS DIG: THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FI065	VW HYI 52.	cdaafs-mk fan cable 9.76	α 04,09,32.3 δ -71,25,29 R 68,23,28.0	L	LWP 2961 1+1	538 4 FO	-2.21 .08 6.5	L	O	03:53:32	35:00	9	9	3	guide -940 -609 212 FO C=10X MN=	WILLIAMS CG
"	"	"	α , , δ , , R , ,	L	SWP 22497 1+2	534 FO	-3.00 .08 7.2	L	O	04:33:53	30:00	9	9	0	guide -740 -751 227 FO C=10X MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 22498 1+3	513 FO	-3.96 .12 7.5	L	O	05:56:21	3:00	8	0	0	B=16 C=2X MN=	"
"	"	"	α , , δ , , R , ,	L	LWP 2962 1+4	500 1 FO	-2.84 .08 7.5	L	O	06:44:23	3:00	8	0	3	256 FF missing C=2X MN=	" X=242 Y=211
			α , , δ , , R , ,	L	LWP 2963 1+6	516 FO	-3.12 .08 7.5	L	O	07:50:n	1:20	6	0	3	28 pixels Sat. MN=	"
			α , , δ , , R , ,	L	SWP 22499 1+5	490 1 FO	-2.88 .08 7.2	L	O	07:55:54	1:20	5	0	0	2 pix Sat MN=	"
			α , , δ , , R , ,	L	SWP 22500 1+7	500 3 FO	-3.05 .08 7.5	L	O	08:32:47	1:15	5	0	0	B=12 2 pix Sat MN=	"
			α , , δ , , R , ,	L	LWP 2964 1+8	485 2 FO	-3.33 .08 7.5	L	O	09:05:10	1:05	5	0	3	2 pix MN=	"

of monitoring of FES cts on back.

OBSERVATORY LOG: DATE D 16 M mar Y 84 RAW TAPE D 16 M mar

page 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 unkw/f.s	FOCUS DIG: THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
"	"	"	α , , δ , , R , ,	L	SWP 22501 1+9	487 FO	-2.89 .08 7.8	L	O	09:39.16	1:15	5	0	0	C=253 B=18 MN=	"
"	"	"	α , , δ , , R , ,	L	LWP 2965 (1+1)	457 1 FO	-3.17 .08 7.8	L	O	10:14:26	1:00	5	0	3	C=224 B=37 (may be not archived on the tape 15 mar, so it has been archived on MN=	
			α , , δ , , R , ,		↓ of 2nd tape. 1+										a 2nd tape 16 march. MN=	
			α , , 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 MAR Y 84 RAW TAPE D 17 M MAR

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	TES CTS / ent. 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
FI 101	EPS AUR 40	FϕI 3.6	α 4 , 58 , 22.8 δ +43 , 44 , 58 R 99 , 24 , 49.4	H	LWP 2972 1+1	919 187 UF	-7.77 0.08 8.2	L	O	040051	10:00	5	5	2	C=210 B=35 MN=	STICKLAND CARSATELLO
"	"	"	α , , δ , , R , ,	H	SWP 22502 1+2	941 153 UF	-3.21 0.10 7.8	L	O	041803	80:00	3	3	2	C=130 B=35 MN=	"
"	"	"	α , , δ , , R , ,	H	LWP 2973 1+3	913 203 UF	-2.48 0.08 8.2	L	O	054615	60:00	8	0	2	MN=	
			α , , δ , , R , ,	L	SWP 22503 1+4	926 181 UF	-2.8 0.08 8.5	L	O	065003	30:00	8	3	1	overexp $\lambda > 1700$ OK 90 B=22 C $\leq$ 15X MN=	
			α , , δ , , R , ,	L	LWP 2974 1+5	935 353/60 UF	-3.14 0.08	S L	O	074454 074845	2:30 0:10	8 5	8 5	1	overexposed E=230 MN= B=40	
			α , , δ , , R , ,	H	SWP 22504 1+6	927 132 UF	-2.70 0.08	L	O	082203	148:00	5	0	3	C=195 B=53 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

GSFC GROUND STATION

OBSERVATORY LOG

DATE D 18 M MAR Y 84 RAW TAPE D 18 M MAR

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	TES CTS / ent. 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 ϕ29	SCO X-1 .59	X-ray 12.5	α 16 , 17 , 4. δ -15 , 31 , 15 R 262 , 19 , 26	L	SWP 22512 1+1	176 1 SO	-1.58 0.08 9.8	L	O	034448	40:00	5	5	1	MN=	HOWARTH A.C.
			α , , δ , , R , ,	L	LWP 2975 1+2	181 SO	-7.11 0.08 9.2	L	O	043214	30:00	7	7	1	MN=	
			α , , δ , , R , ,	L	SWP 22513 1+3	197 5 SO	-7.27 0.08 10.2	L	O	050952	30:00	4	5	2	C=135 B=21 E=196 MN=	
			α , , δ , , R , ,	L	LWP 2976 1+4	197 7 SO	-7.8 0.08 9.8	L	O	054742	20:00	5	0	1	" MN=	
			α , , δ , , R , ,	L	SWP 22514 1+5	174 6 OS	-3.23 0.08 10.2	L	O	061847	32:00	4	5	2	E=179-199 B~10 C=140 MN=	
EE270	NGC 4151 8384	Sey f	α 12 , 08 , 0.4 δ +39 , 41 , 02 R , ,	L	SWP 22515 1+6	154 18 OS	-4.2 0.08 9.8	L	O	074307	45:00	3	5	2	OV 202 CIII 107 B~30 HeII 78 C=51 MN=	ELVIUS A.C.
"	"	"	α , , δ , , R , ,	L	LWP 2977 1+6	158 21 OS	-3.05 0.08 8.8	L	O	083523	35:00	3	5	1	E=236 C=90 B=37 MN=	
			α , , δ , , R , ,	L	SWP 22516 1+7	160 13 OS	-2.33 0.08	L	O	091813 095820	33:00 52:00 85:00	3	6	2	C=40 B=26 CIV L max not MN=	

GSFC GROUND STATION

OBSERVATORY LOG

DATE 19 MAR 84 RAW TAPE 19 MAR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	HES 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
FC 187	VW Cep 54	Dwarf Nova	α 20, 38, 03 δ 75, 24, 58 R 299, 39, 19	L	LWP 2984 1+1	3281 17 OF	-2.40 0.08 9.2	L	O	034317	5:00	S	S	1	E=239 B=32 MN=	VILHU A. CASSATELLA
"	"	"	α , , δ , , R , ,	L	LWP 2985 1+2	3177 12 OF	-2.40 0.08 9.5	L	O	043854	5:00	S	S	1	E=234 B=32 MN=	
			α , , δ , , R , ,	L	LWP 2986 1+3	2587 12 OF	-2.76 0.08 9.5	L	O	052534	5:00	S	S	1	MN=	
			α , , δ , , R , ,	L	LWP 2987 1+4	3097 10 OF	-2.70 0.08 9.5	L	O	061338	5:00	S	S	1	B=35 E=237 MN=	
			α , , δ , , R , ,	L	LWP 2988 1+5	3437 6 OF	-2.17 0.08 9.5	L	O	070513	5:00	S	S	1	MN=	
			α , , δ , , R , ,	L	LWP 2989 1+6	3227 10 OF	-2.55 0.08 9.5	L	O	074433	5:00	S	S	1	E=245 B=37 MN=	
			α , , δ , , R , ,	L	SWP 22518 1+9	2605 10 OF	-2.49 0.08 9.2	L	O	083247	7:00	O	2	1	Lyα MN=	
			α , , δ , , R , ,	L	LWP 2990 1+7	2533 5 OF	-2.69 0.08 9.2	L	O	084518	5:00	S	S	1	E=190 B=37 MN=	

GSFC GROUND STATION

OBSERVATORY LOG

DATE D 19 M MAR Y 84 RAW TAPE D 19 M MAR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	HES 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
FC 187	VW Cep 54	Dwarf Nova	α 20, 38, 03 δ 75, 24, 58 R 299, 39, 19	L	LWP 2991 1+8	3127 9 OF	-2.40 0.08 9.5	L	O	093207	5:00	S	S	1	MN=	VILHU A.C. (GSFC)
"	"	"	α , , δ , , R , ,	L	LWP 2992 1+10	3393 10 OF	-2.35 0.08 9.2	L	O	102459	5:00	S	S	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=	

GSFC GROUND STATION

OBSERVATORY LOG

DATE 20 MAR 84 RAW TAPE 20 MAR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	DES 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
69256	2005-489 84	Seyf 13,66	α 20,05,46.6 δ −48,58,43 R 295,10,48	L	LWP 2993 1+1	61 0 05	−1.87 0.08 8.8	L	O	034922	180:00	7	0	3	FDE(-376,576)454FO OUOUIP: 2420–3060 MN=	CASSATELLA
			α , , δ , , R , ,	L	SWP 22525 1+2	61 0 05	−1.94 0.08 9.8	L	O	065621	100:00	3	0	2	C=110 B=32 MN=	
			α , , δ , , R , ,	L	LWP 2994 1+3	61 0 05	−1.18 0.08 10.5	L	O	08:43:16	70:00	5	0	2	C=195 B=42 764,350 MN=	
		G	α , , δ , , R , ,	L	SWP 22526 1+4	64 0 05	−1.69 0.08 9.5	L	O	10 0006	50:00	3	0	2	C=65 B=20 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

GSFC GROUND STATION

OBSERVATORY LOG

DATE D 21 M Mar Y 84 RAW TAPE D 21 M Mar

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	DES 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
PHCAL	RR Tel 60.	10.5	α 20,00,20 δ −55,52,04 R 295,28,51	H	SWP 22531 1+1	228 1 F.0	−.69 .08 11.2	L	O	03/31/47	40/0	0	7	0	CIV. CIII, HeII Solidly submitted. MN=	W AMSTEKER WW
"	"	"	α , , δ 4,4,4 R , ,	H	LWP 3001 1+2	221 2 F.0	−1.04 .08 11.8	L	O	04/16/02	40/0	2	7	2	MgII Solidly submitted MN=	" "
"	"	"	α , , δ 4,4,4 R , , L	L L	SWP 22532 1+7	227 2 F.0	−1.02 .08 11.8	L S	O O	05/01/56 05/11/00	03/00 12/00	2 2	6 6	0 0	CIV HeII CIII } submitted MN=	" "
"	"	"	α , , δ 4,4,1 R , ,	L L	LWP 3002 1+3	215 0 F.0	−1.02 .08 12.2	L S	O O	05/46/37 05/53/45	03/00 12/00	3 3	6 6	1 1	MgII submitted MN=	" "
"	BD +20° 2462	11.8	α 15,50,02 δ +20,5,28 R 289,21,12	L	LWR 17312 1+4	279 0 F.0	−1.47 .08 13.5	L	O	07/22/15	3/10				magnitude faint!? MN=	
"	η UMa 21	1.7	α 13,45,04 δ +49,23,44 R 327,23,02	H	LWR 17313 1+5	4574 .608 F.4	−.36 .08 14.8	L	O	08/20/54	0/06	4	0	2	MN=	" "
"	BD 75°325 16	9.5	α 8,4,430 δ 75,6,48 R 60,2,42	L	LWR 17314 1+6	622 F.0	−1.22 .08 15.5	L	O	09/13/02	00/14	5	0	1	Rate 0.296 liter. 1 Trailoff MN=	" "
"	"	"	α , , δ 4,4,1 R , ,	L	LWR 17315 1+8	585 5 F.0	−2.20 .08 15.9	L	O	10/22/01	0/24	5	0	1	MN=	" "

OBSERVATORY LOG

DATE D 21 M Mm Y 94 RAW TAPE D 21 M MAR

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
PHCAL	Null 99		α , , δ , , R , ,		LWP 3003 1+ 8							0	0	1	MN=	WAMLIEW WW-
			α , , δ , , R , ,		1+										FIRST VILSPA SUPPORT WITH TELEFILE T85 R/T-COMPUTER FA MN=	
			α , , 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 94 RAW TAPE D 22 M MAR

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
FS246	COMET CROMMELIN 06	COMET 10	α 04 , 08 , 17.2 δ −13 , 1.2, 39.1 R 82 , 10 , 46.3	L	SWP 22544 1+1	B.O.	-1.92 0.08 12.2	L	O	08:14:00	10:00	0	3	0	7cts at my pt. SO roll = 82,10,46.3 R16, -52 drift rates.	FESTOU +CAREY /BH. dy α = 67 cts. gross 19 bkg.
	〃	〃	α , , δ , 〃 , R , ,	L	LWP 3004 1+2	〃	-2.36 0.08 11.8	L	O	05:27:35	10:00	0	1	0	roll, drift as above. (RA, Dec for 15:10) drop out 527, 493 MN= (~2524)	
	3 sky background for C. Crommelin 07	BLG. –	α 04 , 00 . 00 δ −13 , 21 , 3" R 81 , 25 , 22.8	L	SWP 22545 1+3	B.O	-1.43 0.08 12.5	L	O	06:41:13	10:00	0	1	0	Geo crowd dy α = 123 drop out BLK = 19 MN=	
			α , , δ , , R , ,		1+										MN=	
FE270	NGC4151 84	Seyfert 12.6	α 12 , 08 , 00 δ +39 , 41 , 02 R 358 , 58 , 047	L	SWP 22546 1+6	158 28 SO	-0.75 0.08 12.5	L	O	09:25:13	55:00	3	4	0	yde = lost at 9.35 for 20mins NET time in oper = 35 mins MN=	BLK=20 LW = 166 gross LW = 152 gross. CNT = 46 gross. max RROMAGOS / RH
	〃	〃	α , 〃 , δ , , R , ,	L	LWP 3005 1+4	155 28 SO	-2.26 0.08 12.2	L	O	10:24:15	23:15	3	4	1	BLK=27 MW = 152 gross 172cts SO at my end. MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 23 M MAR Y 84 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	IPS 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
PI175	IE1013-477 59	X ray 16.5	α 10, 13, 57.2 δ -47, 43, 12 R 143, 10, 42.7	L	SWP 22553 1+1	B0	-1.16 0.08 12.8	L	O	04:30:43	200:00	3	3	1	gde = -804, -559 2407ch FO BLK=60 INT=65 gain OK=900 MN=	BONNET-BIDAUD / BH
	"	"	α , , δ , , R , ,	L	LWP 3016 1+	B0	-1.32 0.08 11.5	L	O	07:54:33	166:00	3	3	2	gde = -1003, -421 2276 FO (att 2x 0.46 rds) Ng II = 108 MN=	BCK = 39
	NULL 99	/	α , , δ , , R , ,		LWP 3015 1+	/									NULL READ FOR LWP3016 MN=	
			α , , 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 84 RAW TAPE D 24 M MAR

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	IPS 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
PI175	IE1405-451 59	X-ray 15.5	α 14, 05, 58.2 δ -45, 03, 06 R 218, 15, 26.8	L	SWP 22570 1+1	B0	-0.61 0.08 11.8	L	O	03:32:55	101:00	3	5	1	gde = (470, -588) (901 FO) Zeta at RH BLK=75 CNT=66@850 CNT=196 MN=	BONNET-BIDAUD /BH
	"	"	α , , δ , , R , ,	L	LWP 3017 1+2	B0	-0.89 0.08 10.8	L	O	05:18:39	101:00	3	4	2	gde = (271, -451) BCK=39 (382 cts) CNT=129 Ng II=191 MN=	"
	"	"	α , , δ , , R , ,	L	SWP 22571 1+3	B0	-1.99 0.08 11.2	L	O	07:03:37	101:00	3	5	1	gde = (469, -590) 3021 FO BLK=23 INT=60 dropout ~~224~~ 229 Ng II = 212 gain MN= No astronomical data left - due to glitch?	"
	"	"	α , , δ , , R , ,	L	LWP 3018 1+4	B0	-1.92 0.08 10.8	L	O	08:49:48	101:00	3	4	2	gde = (272, -653) 3031 FO BLK=38 Ng II=163 CNT=105 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 MAR Y 84 RAW TAPE D 25 M MAR

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT 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.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FST00	IAO 158913 occultation TRIAL RUN 31	8.4	α 14, 53, 55.3 δ −13, 56, 12 R 256, 09, 53	L	LWR 17327 1+1	B0	−1.61 0.10 13.5	L	O	04:20:37	27:00	7	0	2	Monitor, 0, −40, 256+158 start at α, 57+167 27 2500 saturated. NO heater MN=	FESTOU / BH
	SAO 157913 occultation by Saturn 31	"	α , , δ , " , R , ,	L	LWR 17328 1+3	B0	−2.85 0.08 13.2	L	O	06:38:57	30:00	9	0	3	Monitor, 9, −40, 256+158 Heater warm-up. scattered light 160 x 500 exposure MN=	
EE270	NGC4151 84	Seyfert 12.6	α 12, 08, 00 δ +39, 41, 02 R 3, 6, 23.6	L	SWP 22580 1+4	163 22 S0	−2.03 0.08 6.8	L	O	09:11:09	55:00	3	5	0	gde 1389, −1326 (1995 F0) BLK=16 CSE=212 CNT=46 MN=	BROMAGE / BH
	NULL	99	α , , δ , , R , ,		LWP 3019 1+2					07:34:00					NULL READ AFTER TURN ON AT 07:31 MN=	
	NGC4151 84	Seyfert 12.6	α 12, 08, 00 δ +39, 41, 02 R 3, 6, 23.6	L	LWP 3020 1+5	164 12 S0	−1.26 0.08 6.8	L	O	10:17:30	30:00	3	4	1	BLK=30 CNT=73 Mg II=175 gmm 157 S.0 at end MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 26 M MAR Y 84 RAW TAPE D 26 M MAR

PROPOSAL	OBJECT TYPE	SP.TYPE m_V	RIGHT 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.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FC258/249	ADLEO 48	M3 9.4	α 10, 16, 54 δ 20, 07, 18 R 56, 54, 36	L	SWP 22587 1+1	258 261 22 F0	−2.16 0.08 8.8	L	O	03:34:40 04:03:09	20:00 20:00	1	3	0	(2, −212) gde (−222, −142) Stellar Mg II 930 DN/gmm. CSE = 95 gmm (−26, −204) gde (−253, −142) MN=	BUTLER / BH
	HD 87737 32	AØ 3.5	α 10, 04, 36.0 δ 17, 00, 24.0 R +63, 20, 42.7	L	LWP 3025 1+2	94 7 124 FU	−1.61 0.08 8.5	L	O	04:42:51	00:10	8	0	2	BLK=35 mostly saturated .X3 MN=	
	Arm Con, GU55 BD −62 14263 48	M5 11.0	α 14, 21, 15.0 δ −62, 28, 05.9 R 215, 29, 51.8	L	SWP 22588 1+3	255 256 F0	−1.61 −2.53 0.08 8.2	L	O	06:16:58 06:46:16	20:00 20:00	1	9	0	(2, −212) gde (−957, −1200) 398 S.0 Stellar Mg II 109 DN/gmm (−34, −204) gde (−993, −1194) 382 S.0 MN=	
	48	"	α , , δ , " , R , ,	L	LWP 3026 1+4	248 250 2 F0	−1.90 −2.38 0.08 7.8	L	O	07:12:24 07:36:25	15:00 15:00	1	3	2	(−34, −204) (−1195, −1051) 865 S0. Mg II = 86, BK = 37 (2, −212) gde (−1157, −1056) 357 S0 MN=	
	"	"	α , , δ , , R , ,	L	SWP 22589 1+5	253 252 7 F0	−2.03 −2.03 0.08 7.8	L	O	08:02:07 08:27:13	20:00 20:00	1	3	1	(2, −212) (−958, −1191) 884, S0 dyde = 100 (−34, −204) (−992, −1192) 315, S0 MN=	
	"	"	α , , δ , , R , ,	L	LWP 3027 1+6	250 240 2 F0	−2.38 −2.38 0.08 8.5	L	O	08:57:21 09:24:24	15:00 15:00	1	3	1	(−34, −204) (−1197, −1058) , S0 Mg II = 85 gmm (2, −212) (−1158, −1054) 347, S0 Hot Pix @ x=y=625	
	"	"	α , , δ , , R , ,	L	SWP 22590 1+7	245 255 2 F0	−2.39 −2.21 0.08 8.2	L	O	09:50:29 10:23:10	20:00 20:00	1	3	0	(2, −212) (−961, −1188) 370, S0 Mg II = 92 (−34, −204) (−994, −1189) FGS: 224 started	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 27 M MAR Y 84 RAW TAPE D 27 M MAR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT 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.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PM 233	HD 106111 41.	F6 6.7	α 12 , 10 , 04.2 δ -69 , 52 , 26 R 176 , 36 , 7.5	H	LWP 3035 1+2	11013 29 FO	-2.03 .08 6.8	L	O	03:58:14	399:00	7	0	5	GDE | X -613 Y 748 779/10 COSTOK. λ > 2500 Å MN=	REPORTH AT
	NULL IMAGE	-	α , , δ , , R , ,		LWP 3034 1+1										NULL RES061 FOR LWP 3035 MN=	
			α , , 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 84 RAW TAPE D 28 M MAR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT 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.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FC 249/254	AD LEO 48	M3 9.4	α 10 , 16 , 54 δ 20 , 7 , 18 R 57 , 43 , 33.9	L	LWP 3044 1+2	759 4 FO	-1.00 .08 8.5	L	O	03:36:37 03:51:57 04:06:48 04:21:00	10:00 " " "	3	5	1	(6,-213) RP/(-414,-7) GDE (-5,-211) RP/(-415,-6) GDE (-16,-208) RP/(-426,-2) GDE (-27,-205) RP/(-437,+1) " MN=	BUTLER AT
			α , , δ , , R , ,		" 1+					04:35:37	"				(-38,-203) + /(-458,3) " FLARE IN LAST (1) EXPO. EMISSION HGT: 227 DN BKG: 38 DN MN=	
	HD 87737 32	ADI 3.5	α 10 , 04 , 36 δ 17 , 00 , 24 R 63 , 46 , 5.2	L	SWP 22605 1+1	928 119 FU	-2.04 .08 8.2	L	O	05:10:47	0:10	7	0	0	SOSTOK λ > 1720 Å λ < 1700 | C = 240 DN B = 13 DN MN=	
	PROX CEN 48	M5V 11.0	α 14 , 26 , 18 δ -62 , 28 , 06 R 213 , 47 , 30.1	L	SWP 22606 1+3	260 2 FO	-2.48 .08 7.8	L	O	06:18:50 06:36:50 06:53:18 07:20:50	10:00 " " "	1	0	0	RP(6,-213) / GDE(654,824) (-5,-211) / (643,816) (-16,-208) / (633,899) (-27,-205) / MN=(621,892)	
			α , , δ , , R , ,		" 1+					07:22:19	"				(-38,-203) / (610,894) MN=	
	4		α , , δ , , R , ,	L	LWP 3045 1+4	260 2 FO	-.82 .08 7.8			07:46:46 08:06:06 08:20:21 08:43:03	10:00 " " "	2	3	1	GDE (455,1023) R.P. (444,1025) AS (433,1028) BEFORE (422,1031) MN=	
			α , , δ , , R , ,		1+					08:58:59	"				(411,1033) FLUX EMIS: 84 DN BKG: 38 " MN=	
	4		α , , δ , , R , ,	L	SWP 22607 1+5	260 2 FO	-1.57 .08 7.8			09:20:14 09:39:39 09:54:02 10:18:19	10:00 " " "	1	0	0	RP AND GDE IN SAME ORDER THAN SWP 22606 MN=	
										10:33:28	"					

OBSERVATORY LOG

DATE D 29 M MAR Y 84 RAW TAPE D 29 M 07AR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	ITS 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
FC 249 / 254	RS CVN 46	K0 7.9	α 13, 8, 17.9 δ 36, 12, 1 R 344, 41, 6.2	H	LWP 3049 1+1	1178 3 F0	-1.95 .08 7.8	L	0	03:30:29	45:00	3	0	1	MAX COUNT = 83 DN BKG = 47 DN MN=	BUTLER AT
	PROX CEN 48	M5 V 11.0	α 14, 26, 18 δ -62, 28, 06 R 212, 57, 13	L	LWP 3050 1+2	243 1 F0	-2.11 .08 7.8	L	0	05:34:00	11:06	0	2	1	TRAILED RATE = 0.03 Mg II EMIS: 48 DN BKG = 33 DN MN=	
			α , , δ , , R , ,	L	SWP 22613 1+3	260 2 F0	-1.34 .08 7.8	L	0	06:22:57 06:48:22	20:00 20:00	0	0	0	BP(2,-212)/60c(840,639) BP(-34,-204)/60c(801,641) MN=	
			α , , δ , , R , ,	L	LWP 3051 1+4	260 2 F0	-2.13 .08 8.2	L	0	07:18:28 07:38:19	15:00 15:00	0	3	1	BP(2,-212)/60c(641,778) BP(-34,-204)/60c(605,786) MN=	BKG : 35 DN Mg II EMIS: 72 DN
			α , , δ , , R , ,	L	SWP 22614 1+5	"	-3.00 .08 7.8	L	0	07:59:49 08:24:57	20:00 20:00	0	0	0	SAME BP AND GOC AS SWP 22613 MN=	
			α , , δ , , R , ,	L	LWP 3052 1+6	"	-2.13 .08 8.2	L	0	08:50:57 09:14:07	15:00 15:00	0	3	1	SAME BP AND GOC AS LWP 3051 Mg II EMIS: 72 DN BKG : 40 DN MN=	
			α , , δ , , R , ,	L	SWP 22615 1+7	"	-1.09 .08 7.8	L	0	09:45:29 10:13:28	20:00 20:00	0	0	0	SAME AS SWP 22613 MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 30 M MAR Y 84 RAW TAPE D 30 M MAR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	ITS 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
FS246	COMET CROMMELIN 6	Comet 14	α 05, 01, 00 δ -16, 03, 00 R 79, ,	L	LWP 3058 1+2	43 0 S0	-2.00 0.08 10.2	L	0	050522	103:28	0	6	2	EFF. EXPO = 92 min (in and out of aperture) ENTERED MN=	FESTOU AC
			α , , δ , , R , ,	L	SWP 22621 1+1	/	-2.0 0.08 10.5	L	0	050854	60:00	0	5	1	serendipity; nucleus in LWLA MN=	
EE 270	NGC 4151 84	Seyfert	α 12.08.00 δ 39.41.02 R 9, 28, 49	L	SWP 22622 1+3	159 10 S0	-1.55 0.08 10.5	L	0	082117	40:00	2	5	1	CIV 142; Lyα 251 NV 48; CIII 128 HeII 66 BKG = 23 MN=	ALTAMORE AC
			α , , δ , , R , ,	L	LWP 3059 1+4	151 10 S0	-1.74 0.08 10.8	L	0	091112	30:00	3	5	2	PNT, 10D MgII 206 B = 36 C = 90 MN=	
			α , , δ , , R , ,	L	SWP 22623 1+5	156 15 S0	-1.87 0.08 11.2	L	0	094545	62:00	2	6	2	10:59 PES = 164 s/o CIV 240 HeII 120 Lyα 3pt's out; NV 72 B = 20 MN= CIII 202	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 31 M MAR Y 84 RAW TAPE D 31 M MAR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TRS CTS cef. p. slot window/f.s	FOCUS BAT THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FK 232	FU ORI 42	FSII 9.5	α 5,42,38 δ 9,3,3 R 88,3,58.4	L	LWP 3060 1+1	630 2 FO	-2.16 .08 10.5	L	0	03:47:32	32:00	3	5	1	Mg II emis: 1 pixel sat. B = 36 ON C = 115 ON MN=	REIPURTH ST
	VDB 62 46	K2 10.0	α 5,51;24 δ 1,39,00 R 86,12,23.8	L	LWP 3061 1+2	309 2 FO	-1.30 .08 11.5	L	0	05:52:18	52:00	4	0	1	C = 146 ON B. 38 MN=	
	HR 4110 40	F0Ia 4.7	α 10,25,32.4 δ -57,22,59 R 140,44,53.0	L	LWP 3062 1+3	300 38 FU	-1.86 .08 11.8	L	0	07:34:10	2:00	7	0	1	SATUR. λ > 2500 (2x) MN=	
			α , , δ , , R , ,	L	SWP 22630 1+7	25606 108 FO	-1.81 .08 11.2	L	0	07:42:50	12:00	7	0	0	SATUR λ > 1760 MN=	
			α , , δ , , R , ,	L	LWP 3063 1+5	25994 184 FO	-1.55 .08 12.2	L S	0	08:19:55 08:29:20	5:00 0:45	7 6	0 0	0	SATUR λ > 2400 (5x) some pixels SAT. λ > 2700 MN=	
	AP SGR 41	CEPHEID (late F) 6.2	α 18,10,0.2 δ -23,7,52 R 271,2,6.1	L	SWP 22631 1+6	3268 4 FO	-1.22 .08 11.2	L	0	09:40:42	26:00	0	0	0	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 01 M apr Y 84 RAW TAPE D 1 M apr

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TRS CTS cef. p. slot window/f.s	FOCUS BAT THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
EE124	BS 148 44	G 10.5	α 15,42,01.3 δ -34,08,08 R 245,2 & 0	L	LWP 3069 1+1	185 3 FO	-1.21 .08 11.2	L	0	01:53:38	120:00	3	6	3	B = 52 C = 120 E = 2 pix X. MN=	REIPURTH CG
"	VZ CAR 41	F5 8.8	α 10,26;27.2 δ -59 05,36 R 140,36.46.6	L	LWP 3070 1+2	1142 6 FO	-1.96 .08 11.5	L	0	05:03:04	40:00	5	0	2	B = 37 C = 210 gw 523 736 562 FO MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 22637 1+3	1128 5 FO	-2.43 .08 10.2	L	0	05:48:34	179:00	2	0	1	B = 37 C = 52 MN=	"
			α , , 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 apr Y 84 RAW TAPE D 2 M Apr

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TEST CTS ref. p. slot unrkn/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
GA107	HD186205 21.	B5 8.5	α 19,40,13.8 δ +09,06,30 R 272,34,49.8	L	LWP 3072 1+1	1224 8 FO	-1.65 1.10 11.8	L S	O	01:43:04 02:01:05	5:41 5:00	6 5	0 0	4 4	C 19pix B=44 B=40 C=132	trail R=0.06 GRY CG
"	"	"	α , , δ , " , R , ,	L	SWP 22647 1+2	1217 5 FO	-2.51 .08 12.2	L S	O	02:45:25 03:01:51	5:57 3:00	5 5	0 0	1 1	C=200 B=21 B=21 C=220	trail R=0.06 " MN=
"	HD42111 30	A3 5.7	α 06,06,21.2 δ 02,30,39 R 85,34,11.3	L	LWP 3073 1+3	13805 5500 FO	-2.51 .08 12.2	L S	O	04:14:58 04:26:10	2:26. 1:30	7 7	0 0	3 3	B=34	trail R=.14 " MN=
"	"	"	α , , δ , " , R , ,	L	SWP 22648 1+4	14188 5500 FO	-2.16 .08 11.8	L S	O	04:49:21 04:57:01	1:11 0:40	3 3	0 0	0 0	C=102 B=20 C=119	trail R=.30 " MN=
EE270	NGC4151 84	seyfert 12.5	α 12,08,00.4 δ +39,41,02 R 12,57,0.5	L	SWP 22649 1+5	161 23 SO	-1.38 .08 12.2	L	O	05:51:41	40:00	3	5	1	C=52 B=20 CIII=144 CIV=174	RDE 1132 1525 1851 FO ALTAFLORG CG MN=
"	"	"	α , , δ , " , R , ,	L	LWP 3074 1+6	154 17 SO	-1.04 .08 12.2	L	O	06:37:53	30:00	3	5	3	C=84 B=39 MgII=205	gole 920 1979 1953 FO MN=
"	"	"	α , , δ , " , R , ,	L	SWP 22650 1+7	157 23 SO	-.70 .42 12.5	L	O	07:11:55	95:00	3	6	1	C=72 B=32 CIII:4pix CIV:5pix	gole 433 1522 1567 FO MN=
			α , , δ , " , R , ,		1+											MN=

extra FESPNT,100 : 155_50 at 8:59

OBSERVATORY LOG

DATE D 3 M apr Y 84 RAW TAPE D 3 M apr

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TEST CTS ref. p. slot unrkn/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
GC122	HD99946 40	FOIV 7.0	α 11,27,26 δ 30,14,35 R 91,58,38.9	L	LWP 3082 1+1	4809 16 FO	-1.76 .08 10.5	L	O	O2:13:39	1:30	6	0	3	B=33 C=40pix	VAN DER VEEN CG MN=
"	"	"	α , , δ , " , R , ,	L	LWP 3083 1+2	4458 13 FO	-1.44 .08 10.5	L	O	02:50:00	1:15	5	0	3	B=33 C=1pix	" MN=
"	"	"	α , , δ , " , R , ,	L	SWP 22654 1+5	4402 5 FO	-1.44 .08 10.8	L	O	02:54:08 03:30:07 04:06:23	25:00 + 25:00 30:00	7	3	1	B=22 gole -156 -72 570 FO E=56	" MN=
"	"	"	α , , δ , " , R , ,	L	LWP 3084 1+3	4325 8 FO	-.34 .08 10.8	L	O	03:25:03	1:15	5	0	3	B=32 C=238	" MN=
"	"	"	α , , δ , " , R , ,	L	LWP 3085 1+4	4521 9 FO	-.47 .26 10.8	L	O	04:02:23	1:15	5	0	3	B=34 C=241	" MN=
"	"	"	α , , δ , " , R , ,	L	LWP 3086 1+6	4912 8 FO	-.17 .08 12.2	L	O	04:41:05	1:05	5	0	3	B=32 C=243	" MN=
"	"	"	α , , δ , " , R , ,	L	SWP 22655 1+12	5162 10 FO	-1.00 .08 13.8	L	O	05:10:32 03:46:01 04:13:54 06:37:15	25:00 27:00 +02 26:00	7	3	1	B=22 gole -157 -79 552 FO CIII=72 CII=60	" MN=
"	"	"	α , , δ , " , R , ,	L	LWP 3087 1+7	5499 17 FO	-1.05 .08 13.2	L	O	05:42:30	0:55	5	0	3	B=32 C=243	" MN=

OBSERVATORY LOG

DATE D 3 M apr Y 84 RAW TAPE D 3 M apr

PROPOSAL	OBJECT TYPE	SP.TYPE mv	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TEST CTS ref. p. slot undow/f.s	FOCUS DAC THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC122	HD 89546 40.	F0III 7.0	α 11, 27, 26 δ 30, 14, 36 R 31, 58, 38.9	L	LWP 3088 1+8	5379 14 F0	-1,11 .08 13.8	L	O	06:35:41	0:55	5	0	3	B = 33 C = 239 MN=	VAN DER VEEN CG
"	"	"	α , , δ , , R , ,	L	LWP 3089 1+9	5146 15 F0	-1,99 .08 13.8	L	O	07:03:29	0:55	5	0	3	B = 33 C = 239 MN=	"
"	"	"	α , , δ , , R , ,	L	LWP 3090 1+10	4739 10 F0	-1.64 .08 14.2	L	O	07:41:19	1:05	5	0	3	B = 33 C = 246 MN=	"
"	"	"	α , , δ , , R , ,	L	LWP 3091 1+11	4450 15 F0	-2.08 .08 14.5	L	O	08:14:51	1:05	5	0	3	B = 33 C = 234 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 APRIL Y 84 RAW TAPE D 4 M APRIL

PROPOSAL	OBJECT TYPE	SP.TYPE mv	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TEST CTS ref. p. slot undow/f.s	FOCUS DAC THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA ϕ55	HD 35407 21	B5V 6.3	α 5, 21, 59.7 δ 2, 18, 31 R 84, 58, 42.5	H	SWP 22663 1+1	9249 27 F0	-2.08 .08 12.2	L	O	01:48:24	10:00	5	0	0	C: 230 DN R: 40 MN=	RAMELLA AT
	HD 23383 22	B9V 6.1	α 3, 43, 36.2 δ 55, 46, 07 R 128, 54, 03.3	H	SWP 22664 1+2	10828 30 F0	-2.08 .08 12.5	L	O	02:43:03	30:00	5	0	0	C: 230 DN B: 43 MN=	
	HD 185037 22	B8V 5.8	α 19, 34, 0.4 δ 36, 49, 57 R 268, 8, 26.6	H	SWP 22665 1+3	12196 44 F0	-2.43 .08 12.5	L	O	03:55:54	40:00	7	0	1	SATUR 3x 1200 MN=	
	HD 38831 22	B8V 6.1	α 5, 47, 52.7 δ 58, 57, 08 R 100, 58, 25.9	H	SWP 22666 1+4	10054 27 F0	-2.51 .08 12.8	L	O	05:16:52	30:00	5	0	0	C: 236 DN B: 44 MN=	
	HD 185037 22	B8V 5.8	α 19, 34, 0.4 δ 36, 49, 57 R 268, 13, 55.5	H	SWP 22667 1+5	11864 21 F0	-2.51 .08 12.8	L	O	06:26:40	10:00	4	0	0	C: 152 DN B: 31 MN=	
	HD 119921 30	A0V 5.2	α 13, 44, 0.9 δ -36, 00, 09 R 264, 22, 20.2	H	SWP 22668 1+6	20730 56 F0	-2.16 .08 12.5	L	O	07:40:25	15:00	5	0	0	C: 232 D: 38 MN=	
	HD 135734 22	B8V 4.3	α 15, 15, 02.6 δ -47, 41, 33 R 227, 26, 15.3	H	SWP 22669 1+	845 178 F0	-1.57 .08 12.2	L	O	08:46:08	2:00	4	0	0	C: 156 B: 31 MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 5 M APR Y 84 RAW TAPE D 5 M APR

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	DET CTR ref. p. slot order/l.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FC055	HD 48329 45	G8 3.2	α 6 . 40 . 51.4 δ +25 . 10 . 56.9 R86 . 09 . 00	H	SWP 22672 1+	1283* 264 F/u	-2.08* 0.08 10.5	L	O	00:52:43* 08:13:47	440:00 restarted	3	3	9	* info. given by GSFC at H/O. H/O both ways exposing. MN=	KUIN / AWH.
PHCAL	Sky bg. 07		α " " δ " " R " "	H	LWR 17351 1+1		16.2			01:10:06	240:00	0	0	6	Flare lost exposure net DN=195 (no 4 min. T=077 warm up) MN= 339	AWH
"	" "		α " " δ " " R " "	H	LWR 17352 1+2		17.2			05:39:06	150:00	0	0	4	Flare test exp MN=	"
			α , , 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 APR Y 84 RAW TAPE D 6 M APR

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	DET CTR ref. p. slot order/l.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FA215 C ann	HD 142560 58	T. Tau ~11.	α 15 . 53 . 24 δ -37 . 40 . 58 R242 . 45 . 56	L	LWP 3098 1+1	460 10 S/O.	-1.8 0.08 11.2	L S	O	02:07:47 02:37:01	15:00 ~4:00	5 2	8 3	2 1	SWAP EXP. ABORTED AFTER ~4 mins DUE TO S/C DRIFT (GIE AT EDGE OF FIELD - NOT USABLE FOR SWAP) NOTE 10 hrs HIGH LAP.	Giovannelli / AWH.
"	"	"	α " " δ " " R " "	L	SWP 22683 1+2	108 0 F/O	-2.0 0.08 10.8	L	O	02:48:04	132:00	3	4	1	C = 98 E = 150 B = 33 (grass) MN=	"
GIT00	Z AND. 57	Pec 9.6 9.6	α 23 . 31 . 15 δ +48 . 32 . 31 R 211 . 7 . 59	L	SWP 22684 1+3	585 578 10/S FO	-3.3 0.08 10.5	L S	O	062722 065232	20:00 10:00	3 2	7 5	2	(-862, 28) FOC C ~ 100 MN=	Cassatella / AWH.
"	"	"	α " " δ " " R " "	L	LWP 3099 1+4	557 10 FO	-4.17 0.08 9.8	L	O	070829 073039	10:00 10:00	7 4	7 5	2	C = 2k C = 160 E = 216 MN=	/
			α " " δ " " R " "	H	SWP 22685 1+5	539 10 FO	-4.95 0.08 10.5	L	O	075756	50:00	0	7	2	HeII 10 pix sat 227 CIV 77 SiII 68 NV 49 SiII 138 SiII 120 B = 25 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 7 M APR Y 84 RAW TAPE D 7 M APR

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS cnt. p. slot window/T.	FOCUS DIG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC 262	HD 180093 .52	6ϕ 6.5	α 19,13,17 δ -33,36,40 R 277, 2, 18.7	L	LWP 3108 1+1	3864 17 FO	-1.53 .08 10.5	L S	O	02:08:23 02:48:42	36:00 24:00	7 5	0 0	1	LAP SATUR 1>2650 MN=	EVANS ΔT
	DY CEN 52	B 12	α 13,22;25.3 δ -53,59,11 R 186, 31, 33.7	L	LWP 3109 1+2	117 3 SO	-1.71 .08 10.5	L	O	04:03:15	70:00	6	0	1	MN=	
	HW CEN 52	K 9.6	α 12,40,26.3 δ -54,15,16 R 172, 23, 34.2	L	LWP 3110 1+4	699 1 FO	-2.01 .08 10.2	L S	O	06:08:02 06:52:15	40:00 20:00	6 3	0 0	1	LAP SATUR 1>3000 MN=	
	MV SGR 52	B 12	α 18,41,32.9 δ -21,0,24 R 271, 23, 27.4	L	LWP 3111 1+5	100 18 SO	-1.02 .08 10.2	L	O	08:02:20	45:00	4	0	1	C: 130 ON B: 30 ON 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 84 RAW TAPE D 8 M APR

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS cnt. p. slot window/T.	FOCUS DIG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GH 190	Shima B 37	WR A 8.5	α 6,42,55.7 δ -16,39,23 R 81, 32, 20.5	H	LWP 3119 1+1	BO	-3.46 .08 8.8	S	C	03:32:35	15:00	3	0	2	C=130 B=42 MN=	GRY /CG
"	"	"	α δ R	H	SWP 22693 1+7	BO	-3.02 .08 8.8	S	C	03:52:13	20:00	4	0	1	B=25 gde/1153 -1069 C=100 MN=	"
"	"	"	α δ R	H	LWP 3120 1+8	BO	-1.71 .08 9.2	S	C	04:24:02	25:00	5	0	2	C=184 gde/355 -918 B=44 1806 FO MN=	"
"	"	"	α δ R	M	SWP 22694 1+3	BO	-2.42 .08 9.2	S	C	04:54:00	20:00	4	0	1	C=100 gde/1153 B=25 -1068 1810 FO MN=	"
EE 270	NGC 4151 84	Seyfert 12.6	α 12,08,00.4 δ 39,41,02 R 19,33,44.7	L	SWP 22695 1+4	155 23 SO	-1.32 .08 9.5	L	O	06:05:02	60:00	3	5	1	C=50 B=27 gde 583 1024 CIII = 181 371 FO CIV = 228 MN=	CLAVEL /CG
"	"	"	α δ R	L	LWP 3121 1+5	159 12 SO	-1.20 .08 9.2	L	O	07:09:11	35:00	3	5	3	C=50 B=42 gde 391 1166 MgII=191 (3150 net) 424 FO MN=	
"	"	"	α δ R	L	SWP 22696 1+6	154 13 SO	-1.20 .08 9.8	L	O	07:50:18	60:00	3	5	1	B=25 gde 589 CIII = 192 1025 CIV = 242 395 FO MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 9 M APR Y 84 RAW TAPE D 9 M APR #1 #2 #3

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
GM ϕ4ϕ	BD+5°3235 23	B2/B3 9.2	α 16 . 34 . 17.3 δ 5 . 23 . 22 R283 . 37 . 14.6	H	SWP 22697 1+1 #1	839 3 FO	.81 -08 10.2	L	O	02:21:05	110:00	4	0	1	C=165 B=44 MN=	INNES AT
	NULL 99		α . . δ . . R . .		LWP 3129 1+2 #1										RESIDG1 FOR LWP 3130 MN=	
	BD+5°3235 23	4	α . . δ . . R . .	H	LWP 3130 1+1 #2	799 2 FO	-1.45 .08 11.5	L	O	04:16:01	65:00	5	0	2	MN=	
			α . . δ . . R . .	H	SWP 22698 1+1 #3	802 1 FO	-2.24 .08 13.5	L	O	05:25:21	135:00	6	0	1	C:253 AT λN1400 BN40 MN=	
			α . . δ . . R . .	H	LWP 3131 1+2 #3	772 2 FO	-2.24 .08 12.2	L	O	07:56:20	50:00	5	0	2	C: 202 ON B: 52 MN=	
			α . . δ . . R . .		1+										MN=	
			α . . δ . . R . .		1+										MN=	
			α . . δ . . R . .		1+										MN=	

DATE D 10 M APR Y 84 RAW TAPE D 10 M APR

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
GI 156	RW SEX 63.	B ~10.5	α 10 . 17 . 27 δ -8 . 27 . 05 R87 . 34 . 49	L	SWP 22704 1+1	148 0 F/O.	-0.1 0.08 12.2	L	O	01:36:06	24:00	8	1	0	Heavily overexp! 2-3X MN=	STRUPAT/AWH.
"	" " "	" " "	α " . " . " δ " . " . " R " . " . "	L	LWP 3136 1+2	155 2 F/O	-0.6 0.08 11.5	L	O	02:09:28	13:00	8	1	3	ditto. MN=	" "
"	" " "	" " "	α " . " . " δ " . " . " R " . " . "	L	SWP 22705 1+3	153 1 F/O	-0.8 0.08 12.2	L	O	02:44:01	8:00	5	1	0	C= 237 gross B=17 MN=	" "
"	" " "	" " "	α " . " . " δ " . " . " R " . " . "	L	LWP 3137 1+4	150 0 F/O.	-0.42 0.08 11.5	L	O	03:36:19	5:00	5	1	3	C=234 gross. B=33 MN=	" "
"	V3885 SGR. 63	B 10.5	α 19 . 44 . 12 δ -42 . 07 . 30 R280.54.55	L	SWP 22706 1+5	264 3 F/O.	-1.56 0.08 11.5	L	O	04:59:21	5:00	6	1	0	MN=	
"	" " "	" " "	α " . " . " δ " . " . " R " . " . "	L	LWP 3138 1+6	246 0 F/O	-1.9 0.08 11.5	L	O	05:10:45	3:30	6	1	3	MN=	
"	AR PAV 57	Oe+M3 ~11	α 18 . 15 . 24 δ -66 . 06 . 15 R259.41.39	L	SWP 22707 1+7	196 1 F/O	-1.6 0.08 11.5	L	O	06:10:38	55:00	4	7	1	C=150 g. CCE 12 Pix ref. B=21 ALL 6 Pix SAT MN=	
"	" " "	" " "	α " . " . " δ " . " . " R " . " . "	L	LWP 3139 1+8	204 0 F/O	-1.56 0.08 11.2	L	O	07:07:13	100:00	8	7	3	good for 2200 Å. MN=	

OBSERVATION LOG

DATE D 11 M APR Y 84 RAW TAPE D 11 M APR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS DAC THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA 191	HR 21 17	DO 14.2	α 12,11,25.1 δ 33,13,11 R 23,42,20.3	L	SWP 22712 1+1	(25) B.O.	-1.22 .08 12.2	L	0	02:11:41	35:00	5	0	0	GDE -335 -110 248/FO B = 16 DN C = 255 DN (2 PIX SAT) MN=	TALAVERA AT
			α , , δ , , R , ,	L	LWP 3143 1+2	(22) BO	-1.32 .08 11.5	L	0	02:55:12	50:00	5	0	2	GDE -331 18 284/FO B=35 DN C=255 (2 PIX SAT) MN=	
			α , , δ , , R , ,	L	SWP 22713 1+3	(31) BO.	-1.03 .08 11.8	L	0	03:51:00	35:00	5	0	0	GDE -337 -121 273/FO B: 17 DN C=255 DN (1 PIX SAT) MN=	
			α , , δ , , R , ,	L	LWP 3144 1+4	(26) BO	-.73 .08 11.8	L	0	04:30:48	35:00	5	0	2	GDE -530 16 378/FO B = 37 DN C = 208 DN gross MN=	
EE 270	NGC 4151 84	Sf. I 12	α 12,8,0.4 δ 39,41,2 R 22,34,55.2	L	SWP 22714 1+5	144 12 50	-.95 .08 11.5	L	0	05:31:26	60:00	3	5	1	GDE 880 -1686 1680/FO CIII 162 net DN B=26 CIV 195 net DN C=26 net Lyα 2nd sat MN=	CLOVEL ΔT/BH/00
	"	"	α , , δ , , R , ,	L	LWP 3145 1+6	161 21 50	-1.18 0.09 11.5	L	0	06:37:05	30:00	3	5	2	GDE 670 -1638 2031/FO B=33 C=93 gross Ng I = 167 net MN=	
	"	"	α , , δ , , R , ,	L	SWP 22715 1+	152 18 50	-1.68 0.08 11.5	L	0	07:12:13	60:00	3	5	1	GDE 878 -1684 1663/FO dyd 6pix sat. CIV 2nd gross, 226 net CIII 212 gross, 180 net. B=22 MN=	
	"	"	α , , δ , , R , ,	L	LWP 3146 1+	157 17 50	-1.82 0.06 11.2	L	0	08:17:09	30:00	3	5	2	GDE 866 -1546 B=24 Ng II = 201 gross, 163 net CIII 91 gross, 44 net MN=	168 DN 30 R.P. at end

OBSERVATION LOG

DATE D 12 M APR Y 84 RAW TAPE D 12 M APR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS DAC THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI 156	CD -42°14462 63	B 10.5	α 19,44,12 δ -42,7,30 R 280,13,21.0	L	LWP 3150 1+2	259 2 FO	-1.64 .08 9.8	L	0	02:33:07	2:52	5	0	1	C = 224 DN B = 35 MN=	STRUPAT AT
			α , , δ , , R , ,	L	SWP 22723 1+1	259 2 FO	-1.64 .08 9.8	L	D	02:25:47	4:36	5	0	0	C = 230 DN B = 15 MN=	
			α , , δ , , R , ,	H	SWP 22724 1+3	254 0 FO	-1.64 .08 9.8	L	0	03:14:29	333:00	5	0	3	C = 254 DN B = 50 MN=	
			α , , 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 84 RAW TAPE D 13 M APR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot window/f.s	FOCUS DAC THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI 156	RW Sex 63	B 10.9	α 10,17,27 δ −8,27,5 R85,46,16.4	L	SWP 22730 1+1?	181 1 FO	−1.31 .08 10.2	L	O	01:59:04	6:32	5	0	0	MN=	STEWART / RG
	Nova Muscae 55	11.8	α 11,49,35.1 δ −66,55,43 R152,42,9.9	L	LWP 3151 1+2	303 2 50	−.64 .08 9.8	L	O	03:02:14	10:00	2	4	1	MN=	
	"	"	α . . δ " " R . .	L	SWP 22731 1+3	312 19/7 50	−1.09 .08 10.2	S	O	03:27:12	4:00	1	2	0	yes, smaller 4m, ← larger 15m MN=	TELEFILE problem unable to trigger, star in 0# aperture
	"	4	α . . δ 4, R . .	L	LWP 3152 1+4	316 4/84 50	−1.62 .08 10.2	L	O	04:07:00	50:00	3	7	2	GS in ≤30 in SAP MN=	
	"	4	α . . δ 4 R . .	H	SWP 22732 1+5	314 6 50	−2.31 .08 9.8	L	O	05:34:45	192:00	1	4	1	MN=	
			α . . δ . . R . .		1+										MN=	
			α . . δ . . R . .		1+										MN=	
			α . . δ . . R . .		1+										MN=	

Note: because of hardware problem with the TELEFILE, THERE IS A small chance that the data are corrupted, this will be checked during image processing

OBSERVATORY LOG

DATE: D 14 M APR Y 84 RAW TAPE D 14 M APR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot window/f.s	FOCUS DAC THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
IA 180	V348 SGR 52	B0Ve >11	α 18,37,18.2 δ −22,57,19 R273,45,09.6	L	LWP 3154 1+2	(47/50) BO	−.58 .08 7.2	L	O	01:33:07	140:00	3	3	2	GDE | −526 / −1200 150/FO B=50 DN C=80 DN (EMISS MgII ?) MN=	TALAVERA / AT
	NULL 99		α . . δ . . R . .	L	LWP 3153 1+1										NULL IMAGE READ61 FOR LWP3154 MN=	
	V348 SGR 52	B0Ve >11	α . . δ . . R . .	L	SWP 22739 1+3	(46/50) BO	−1.02 .08 7.8	L	O	03:58:12	288:00	3	3	1	GDE | −326 / −1339 130/FO B=35 EMISS ?? C=70 MN=	
			α . . 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 USE

DATE D 15 M APR Y 84 MAN TAPE D 15 M APR

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. MAN T. FILE	TES CTS ref. p. slot window/t.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA 067	HD 128220B 16	sdO 8.5	α 14 ,32 ,56.6 δ 19 ,25 ,58 R 331 ,15 ,33.7	H	SWP 22747 1+1?	1271 4 FO	-2.00 .08 10.5	L	O	01:39:28	40:00	5	0	1	MN=	HOWARTH RG
"	"	"	α , , δ , 4 , R , ,	H	SWP 22748 1+2	"	-1.00 .08 11.2	L	O	02:40:29	40:00	5	0	1	MN=	
"	"	"	α , , δ , " , R , ,	H	SWP 22749 1+3	"	-.86 .08 11.2	L	O	03:46:09	40:00	5	0	1	MN=	
"	"	"	α , , δ , 4 , R , ,	H	SWP 22750 1+4	1310 7 FO	-.01 .08 11.2	L	O	04:51:52	40:00	5	0	1	MN=	
"	"	"	α , , δ , 9 , R , ,	H	SWP 22751 1+5	"	-.24 .08 12.2	L	O	05:53:32	40:00	5	0	1	MN=	
"	"	"	α , , δ , " , R , ,	H	SWP 22752 1+6	"	-.18 .08 14.2	L	O	06:55:40	40:00	5	0	1	MN=	
"	"	"	α , , δ , " , R , ,	H	SWP 22753 1+	"	-.46 .08 14.8	L	O	07:57:11	40:00	5	0	1	MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY USE

DATE D 16 M Apr Y 84 MAN TAPE D 16 M Apr

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. MAN T. FILE	TES CTS ref. p. slot window/t.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
64 197	HD 5394 26	B0Ve 2.2	α 0 ,53 ,40.3 δ 60 ,26 ,47 R 193 ,17 ,19.2	H	SWP 22760 1+1?	3464 515 FU	-1.91 .08 11.2	L	O	01:46:00	0:08	5	0	0	MN=	DOAZAN RG
"	HD 200120 26	B1.5Ve 4.7	α 20 ,58 ,7.4 δ 47 ,19 ,30 R 261 ,30 ,20.5	H	LWP 3161 1+4	26450 74 FO	-2.78 .08 10.8	L	O	02:20:23	1:30	7	0	1	~600 pix sat MN=	"
"	"	"	α 20 ,58 ,07.4 δ , 4 , aver R , ,	H	SWP 22761 1+2	26450 58 FO	-2.34 .08 11.2	L	O	02:50:24	1:30	5	0	0	MN=	"
"	HD 138749 22	B7V 4.2	α 15 ,30 ,54.7 δ 31 ,31 ,36 R 321 ,38 ,25.0	H	SWP 22762 1+3	588 87 FU	-1.57 .08 11.2	L	O	03:34:41	1:45	5	0	0	MN=	"
GA 067	HD 128220B 16	sdO 8.5	α 14 ,32 ,56.6 δ 19 ,25 ,58 R 331 ,17 ,22.3	H	SWP 22763 1+5	1313 4 FO	-.89 .08 11.2	L	O	04:23:06	40:00	5	0	1	MN=	GILROY RG
FK 215 C aver.	HD 142560 58	T Tauri 11.4	α 15 ,53 ,24 δ -37, 40 ,58 R 237 , 2 ,23.9	L	LWP 3162 1+6	152 2 FO	-1.25 .08 11.8	L	O	06:20:38	15:00	6	8	1	Gde 639,588,76,56 16 pix sat at Mg II MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 22764 1+7	159 1 Fo	-1.29 .08 13.2	L	O	06:40:28	130:00	3	5	1	Gde 841,446,84,80 MN=	"
			α , , δ , , R , ,		1+										MN=	

OBSERVING LOG

DATE D 17 M Apr Y 84 RAW TAPE D 17 M Apr

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/l.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FE 164	MKn 463 84	Sey II 14.5	α 13,53,39.7 δ 18,36,56 R352,44,32.8	L	SWP 22774 1+	28/50 B.0	-.14 .08 11.8	L	O	01:41:20	425:00	3	43		Gde 49; -360 120 135 s/o wet elya MN=	KOLLATSCHNY RG
			α , , 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=	

OBSERVING LOG

DATE D 18 M Apr Y 84 RAW TAPE D 18 M Apr

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/l.s	FOCUS DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GQ 068	MKn 463 84	Sey II 14.5	α 13,53,39.7 δ 18,36,58 R354,41,19.2	L	LWR 17383 1+2	20/40 B.0	-1.32 .08 13.8	L	O	01:54:20	406:00	3	3	6	Gde -157, -211 123 s/o MN=	KOLLATSCHNY RG
	NULL 99		α , , δ , , R , ,	L	LWP 3173 1+1										for LWP 6h NO bad scans MN=	
			α , , 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 TAPE

DATE D 19 M APR Y 84 RAW TAPE D 19 M APR

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS cnt. p. slot under/1..n	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GS264	SAO 152362 32	A3 9.1	α 07, 03, 25.9 δ −19, 19, 53.5 R 75, 57, 15.4	L	LWP 3175 1+1	516 3 F0	−1.68 0.08 10.2	L	O	01:55:44 02:03:27 02:09:20	3:00 3:00 3:00	3	0	3	RP = (−16, −208) Min gde = (−539, 773) (2, −213) (−523, 770) Tgt (−34, −208) (−557, 778) Bkgrn MN=	EVANS/BH. No bad scans. BKG=68, CV=129
	BLANK SKY 99	/	α 7, 03, 25.9 δ −18, 19, 53.5 R 95, 57, 15.4	L	SWP 22786 1+2	/	−1.48 0.08 9.2	L	O	02:26:28	15:00	0	3	0	sky only. MN=	
	Comet CROMMELIN 06		α 7.02.53.0 δ −19, 28, 50.8 R 75, 50, 18.3	L	LWP 3176 1+3	10 50	−2.56 0.08 9.8	L	O	04:02:57	50:00	0	2	3	dy = 69 at 709,342 10 dys of RP. MN=	No bad scans.
			α ' " δ ' " R ' "	L	SWP 22787 1+5	/	−1.68 0.08 9.5	L	O	04:44:00	25:00	0	3	0	dy4=83 BLK=22 λ=1860 58 MN=	Comet?
	SAO 152362 32	A3 9.1	α 07, 03, 25.9 δ −19, 19, 53.5 R 75, 57, 15.4	L	LWP 3177 1+4	516 9 F0	−1.25 0.02 10.2	L	O	05:45:09 05:50:10	3:00 3:00	3	0	3	(2, −212) TOP FPREP (−34, −206) ADITON BCK=62 CNT=126 MN=	No bad scans. Vertical lines across image.
	H0180093 52	6.0 6.5	α 19, 13, 17 δ −33, 36, 40 R 274, 40, 51.1	L	LWP 3178 1+6	7360 18 F0	−1.21 0.08 10.2	S L	O	06:46:57 07:05:51	10:00 15:00	7 7	0	3	BLK=84 Dgde (2, −893) −150, −888 MN=	No bad scans.
	MV SGR 52	B 12.2	α 18, 41, 32.9 δ −21, 00, 24 R 274, 50, 37.7	L	LWP 3179 1+7	86. 11 50	−1.25 0.08 10.5	L	O	01:20:15	27:00	3	0	3	Gde = (−432, −89) CNT = 103 Gwm. BCK = 33 MN=	
			α ' " δ ' " R ' "		1+										MN=	

OBSERVATORY TAPE

DATE D 20 M APR Y 84 RAW TAPE D 20 M APR

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS cnt. p. slot under/1..n	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS RP Gde	OBSERVER / RESIDENT ASTRONOMER
GC091	AD LEO 48	M4 9.4	α 10, 16, 54 δ +20, 07, 18 R 63, 51, 34.7	L	SWP 22795 1+1	745 23 F0	−1.68 −1.13 −1.22 0.08 11.2 11.8 11.8	L	O	01:39:06 02:07:53 02:37:54	25:00 25:00 25:00	1	4	1	(−16, −208) (518, 1081) (−27, −208) (508, 1035) (+5, −213) (540, 1025) MN=(518, 1041)	ANDERSON/BH Max 152 at lyα
"	"	"	α " δ " R "	L	LWP 3180 1+2	272 21 F0	−0.81 −0.44 −0.89 0.08 10.8 11.2 11.5	L	O	03:09:09 03:12:50 03:44:58	10:00 10:00 10:00	2	4	2	(−16, −208) (522, 1173) (+5, −213) (540, 1163) (−37, −203) (299, 1175) MN=	Max 176 at lyβ No bad scans
"	"	"	α " δ " R "	L	SWP 22796 1+3	750 25 F0	−1.35 −1.64 −2.30 0.08 12.8 12.8 12.5	L	O	04:04:01 04:38:37 05:12:06	30:00 30:00 30:00	1	4	1	(−37, −203) (300, 1024) (−16, −208) (518, 1037) (+5, −213) (538, 1023) MN=	Max 162 at lyβ
"	"	"	α " δ " R "	L	LWP 3181 1+4	760 19 F0	−1.90 −1.56 −1.32 0.08 11.8 11.8 11.8	L	O	06:49:47 06:12:40 06:32:49	10:00 10:00 10:00	1	5	2	(+5, −213) (545, 1166) (−16, −208) (523, 1167) (−37, −203) (300, 1185) MN=	Max 1870 lyβ
"	"	"	α " δ " R "	L	SWP 22797 1+5	752 26 F0	−1.59 −1.25 −2.12 0.08 12.2 13.3 12.3	L	O	06:49:29 07:21:02 07:07:06	35:00 35:00 35:00	1	5	1	(−37, −208) (502, 1032) (−16, −208) (521, 1025) (+5, −213) (522, 1022) MN=	Max 179 lyα 760 F/O at end.
			α " δ " R "		1+										MN=	
			α " δ " R "		1+										MN=	
			α " δ " R "		1+										MN=	

OBSERVATORY LOG

DATE D 21 M APR Y 84 — RAW TAPE D 21 M APR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot window/t.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS RP	OBSERVER / RESIDENT ASTRONOMER
G-C091	AD LEO 48	dM4e 9.4	α 10,16,54 δ 20,07,18 R 64,03:11.5	L	SWP 22804 1+1	784 25 FO	-1.11 -1.20 -1.66 0.08 9.8 9.8 9.8	L	O	01:54:29 02:18:52 02:42:25	20:00 20:00 20:00	1	3	0	(-77,-203) (505,1026) (-16,-208) (529,1017) (5,-213) (547,1012) MN=	ANDERSON/ BH $\lambda_{Ly\alpha}$=106 IW β=15 $\frac{CIV}{Ly\alpha}$=35IW
	"	"	α " δ " R "	L	LWP 3187 1+2	796 21 FO	-1.93 -2.17 -2.17 0.08 9.2 9.8 9.8	L	O	08:08:50 03:25:57 02:47:46	10:00 10:00 10:00	3	5	3	(5,-213) (369,1164) (-16,-208) (329,1166) (-37,-203) (302,1174) MN=	$Ly\alpha$ II =177 no bad scans $Ly\alpha$ II = 244
	"	Y	α " δ " R "	L	SWP 22805 1+3	785 81 PO	-2.17 -1.46 -1.46 0.08 9.5 9.5	L	O	04:01:38 04:39:56 05:12:58	30:00 30:00 30:00	2	5	1	(-37,-203) (507,1036) (-16,-208) (529,1024) (5,-213) (549,1019) MN=	$Ly\alpha$ = 175 $\frac{CIV}{Ly\alpha}$ = 51 β = 25
	"	"	α " δ " R "	L	LWP 3188 1+4	787 17 FO	-2.03 -2.21 -2.17 0.08 8.8 8.8 8.8	L	O	05:48:24 06:01:59 06:14:52	10:00 10:00 10:00	2	5	2	(5,-213) (351,1166) (-16,-208) (330,1167) (-37,-203) (311,1173) MN=	no bad scans $Ly\alpha$ II =194 β =33
	"	"	α " δ " R "	2	SWP 22806 1+5	773 19 FO	-2.28 -1.90 -1.66 0.08 9.2 9.2 9.5	L	O	06:38:11 07:22:30 08:06:39	40:00 40:00 40:00	1	5	1	(-37,-203) (570,1034) (-16,-208) (53,1028) (+5,-213) (552,1025) MN=	$Ly\alpha$ =208 $\frac{CIV}{Ly\alpha}$ =88 β =26 300 FIO extrp.
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 22 M APR Y 84 — RAW TAPE D 22 M APR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot window/t.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GM248	HD 54810 47 aur.	KØIII 4.92	α 07,07,44.6 δ -04,09,27.0 R 76,49,55.9	H	LWP 3198 1+5	22890 64 FO	-1.60 0.08 10.5	L	O	01:58:24	120:00	6	0	3	Cde -737, -28 (29980) ~15 MN=	VLADILO/BH "
	NULL 99	/	α " δ " R "		LWP 3197 1+1	/	/			04:00	/				READ-1 for LWP 3198 no bad scans. MN=	
	HD180711 45	G9III 3.07	α 19,12,32.8 δ +67,34,25.0 R 288,08,24.1	H	LWP 3199 1+2	1224 298 FU	-2.22 0.08 11.2	L	O	05:07:21	21:00	6	0	2	Cde -932 +36. ~10 pnts at 255DN. MN=	
	HD199951 45	G6III 4.67	α 20,58,13.7 δ -32,27,16 R 288,16,19.1	H	LWP 3200 1+3	26173 66 FO	-1.78 0.08 11.2	L	O	06:20:53	54:00	6	0	2	Cde -134,1726 (532 i=0) ~10 pnts at 255DN. MN=	
	HD 63295 47	KØIII 3.95	α 07,42,26.9 δ -72,29,11.0 R 82,24,41.7	H	LWP 3201 1+4	544 125 FU	-1.98 0.08 11.5	L	O	08:05:37	42:00	5	0	3	Cde = 342, 1269 (1416 MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LCG

DATE D 23 M APR Y 84 RAW TAPE D 23 M APR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot window/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
GC 134	HD 101947 53	F8 5.0	α 11,41,73 δ -62,12,42 R 137,12,32.2	H	SWP 22818 1+1	21085 94 FO	-1.92 .08 9.5	L	O	02:13:47	55:00	5	0	1	MN=	DEASY AT/BH
	HD 84810 53	6ϕ 3.7	α 9,43,52.4 δ -62,16,37 R 107,9,8.8	H	LWP 3208 1+2	580 97 PU	-1.58 .08 9.2	L	O	03:33:07	45:00	5	0	2	BLK=40 CNT=193 no bad scans. MN=	
	HD 106111 53	G2 6.4	α 12,10,04.2 δ -69,52,26.0 R 148,03,23.3	H	SWP 22819 1+3	9080 40 FO	-1.64 0.08 9.5	L	O	04:42:17	160:00	4	0	1	Gdu(103,-1107) 21850 BLK=30 CNT=170 MN=	
	HD84810 53	G-ϕ 8.7	α 9,43,58.4 δ -62,16,37.0 R 106,58,01.2	H	LWP 3209 1+4	572 81 FU	-0.86 0.08 8.8	L	O	07:19:06	58:00	5	0	2	Gdu(235,415) 17814 BCH=37 CNT=226 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LCG

DATE D 24 M Apr Y 84 RAW TAPE D 24 M apr

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot window/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
GS258	Unknown 03	5.8	α 16,44,16.5 δ -22,15,35 R 262,38,2.0	L	SWP 22827 1+1?	14515 41 FO	-1.78 .08 7.5	L	O	02:04:44	120:00	4	5	1	exposure stopped every 20 min to avoid errors at regpt: Y=20 Lyα=184; Y=160	FESTOU /CG
"	"	"	α , , δ , , R , ,	L	SWP 22828 1+	15428 41 FO	-.78 .08 10.2	L	O	04:52:40	120:00	4	4	2	idem manoeuvre 3,3,2440 Lyα=164 C=160 β=18 Y=32	"
"	"	"	α , , δ , , R , ,	L	SWP 22829 1+	16019 48 FO	-2.00 .10 11.8	L	O	07:35:07	49:00 to be continued	4	4	2	idem manoeuvre 5,5 exposure to be continued in Goddard MN=	"
			α , , δ , , R , ,		1+						Total time =120:00				MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY SITE:

DATE D 25 M Apr Y 84 RAW TAPE D 25 M apr

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FLUXS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GM021	HD 50154 2.1	B3 V 8.9	α 6.48.55.9 δ -24.20.18 R 69.26.433	L	SWP 22836 1+1?	963 2 FO	-1.33 .08 8.5	L S	O	01:50:43 01:55:18	00:50 01:15	5 5	0 0	0 0	B = 15 C = 212 B = 17 C = 184 MN=	SCHMUTZ. NUSSBAUMER SG
"	"		α , , δ , , R , ,	L	LWP 3213 1+2	954 7 FO	-.89 .08 7.5	L S	O	02:21:52 02:25:13	00:24 00:40	4 4	0 0	3 3	B = 35 C = 158 B = 27 C = 144 MN=	"
"	HD 50646 23	B2 III 7.7	α 6.51.08.6 δ -24.06.16 R 69.42.04.9	L	LWP 3214 1+3	2946 4 FO	-1.62 .08 8.2	L S	O	03:09:38 03:13:36	00:06 00:09	4 3	0 0	3 3	B = 35 C = 150 B = 32 C = 126 MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 22837 1+4	2947 7 FO	-1.18 .08 8.2	L S	O	03:42:34 03:45:02	00:20 00:30	6 6	0 0	3 3	B = 20 C = 30 pixel B = 20 C = 30 pixel MN=	"
"	HD 50680 24	B3 III 8.3	α 6.51.10.8 δ -24.03.13 R 69.40.26.0	L	SWP 22838 1+5	1879 9 FO	-1.52 .42 8.3	L S	O	04:25:09 04:29:37	00:30 00:45	5 5	0 0	1 1	B = 18 C = 1 pixel B = 15 C = 1 pix MN=	"
	"	"	α , , δ , , R , ,	L	LWP 3215 1+6	1835 3 FO	-1.91 .08 8.2	L S	O	04:55:28 05:00:03	00:20 00:20	5 4	0 0	3 3	B = 32 C = 230 B = 32 C = 161 MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 22839 1+7	1773 6 FO	-1.92 .12 8.5	L	O	05:04:53	40:00	5	0	1	B = 45 C = 242	guide X = 742 Y = -317 ch = 3456 MN=
"	"	"	α , , δ , , R , ,	H	LWP 3216 1+8	1742 5 FO	-1.82 .08 8.5	L	O	05:50:50	30:00	6	0	3	B = 50 C = few pix	Y 543 Y -177 ch = 3191 MN=
"	HBV 475 57	Symb 13.3	α 20.49.02.6 δ 35.23.37	L	SWP 22840 1+9	80 3	-1.34 .08	L	O	07:21:58	85:00	3	5	1	CIII 161 HeII 197 OIII 215	guide X = -950 Y = -8

OBSERVATORY SITE:

DATE D 26 M APR Y 84 RAW TAPE D 26 M APR

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FLUXS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GM023	HD 51285 20	B2 V 8.2	α 06.53.38.9 δ -24.36.47 R 69.13.15	L	SWP 22851 1+1?	2142 7/40 OF	-1.71 0.4 8.8	L S	O	01:45:57 01:48:53	0:35 0:35	6 4	0 0	2 0	~30 pixel out 1300 B = 18 C = 120 MN=	NUSSBAUMER SCHMUTS
"	"	"	α , , δ , , R , ,	L	LWP 3224 1+2	1994 to/180 OF	-2.06 ~0.4 8.8	L S	O	01:52:135 01:55:23	0:16 0:20	5 4	0 0	3	C = 286 B = 37 C = 153 MN=	
GI013	HBV 475 57	Symb 13.3	α 20.49.2.6 δ 35.23.37 R 275 68.25	H	SWP 22852 1+3	78 3 SO	-2.06 0.4 8.8	L	O	032155	268:00	0	3	4	NeII 166 B = 82 CIII 156 MN=	-
"	"		α , , δ , , R , ,	L	LWP 3225 1+4	49 2 SO	-1.94 0.7 9.2	L	O	075517	52:00	0	4	4	MgII 207, B = 60 OIII 2132 A 159 DN C = 100 (1300) MN=	"
			α , , δ , , R , ,		1+					Note: high solar	= PM during all flare detected also by Exosat	, shift			MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 27 M APR Y 84 RAW TAPE D 27 M APR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	DES 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
GM Φ21	HD51036 21	B5V 8.78	α 6 , 52 , 402 δ -24 , 15 , 04 R 68 , 25 , 45	L	LWP 3227 1 + 17	1138 10 FO	-1.53 0.7 7.5	L S	O	01 52 55 01 55 42	0:22 0:22	4 3	0 0	2	C = 167. B = 33 C = 98 MN=	SCHMUTZ NUSSBAUMER AC
"	"	"	α , , δ , , R , ,	L	SWP 22857 1 + 2	1151 3 FO	-1.00 0.60 8.2	L S	O	022510 022934	0:40 0:40	4 3	0 0	2	C = 165 B = 16 C = 44 MN=	
"	"	"	α , , δ , , R , ,	H	LWP 3228 1 + 3	1152 4 FO	-.93 0.6 7.8	L	O	023417	30:00	4	0	4	C = 170 B = 55 MN=	
			α , , δ , , R , ,	H	SWP 22858 1 + 4	1175 5 FO	-0.49 0.7 8.5	L	O	031005	40:00	4	0	1	C = 150 B = 42 MN=	
"	HD 51013 21 (am)	B3V 8.8	α 6 , 52 , 367 δ -24 , 11 , 28 R 68 , 19 , 46	L	SWP 22859 1 + 5	1176 5 FO	-1.11 0.7 8.8	L S	O	042533 042838	0:40 0:40	5 3	0 0	1	C = 170 B = 18 MN=	
"	"	"	α , , δ , , R , ,	L	LWP 3229 1 + 6	1109 5 FO	-1.83 0.7 8.2	L	O	045322	0:25	4	0	2	C = 160 B = 33 MN=	
"	"	"	α , , δ , , R , ,	H	SWP 22860 1 + 7	1111 7 FO	-1.39 0.7 8.8	L	O	045919	40:00	4	0	1	C = 140 B = 42 MN=	
	"	"	α , , δ , , R , ,	H	LWP 3230 1 + 8	1130 5 FO	0.7 8.5	L	O	054434	30:00	4	0	3	C = 160 B = 52 MN=	

OBSERVATORY LOG

DATE D 27 M APR Y 84 RAW TAPE D 27 M APR

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	DES 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
GM021	HDM2103 10	WC8 8.5	α 20 , 10 , 0.8 δ +36 , 2 , 49 R , ,	H	SWP 22861 1 + 8	2133 6 FO	-.75 0.7 8.8	L	O	070501	102:00	4	7	3	C = 160 E > 2x B = 55 MN=	NUSSBAUMER SCHMUTZ 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 28 M APR Y 84 RAW TAPE D 28 M APR

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	OBSERV
GI 147	HD 143454 63	Pec 10.16	α 15, 57, 24.5 δ +26, 03, 39 R 326, 40, 39.4	L	LWP 3233 1+1	345 5 OF	-1.02 0.10 7.8	L	O	012755	25:00	5	7	2	GDE(-680, 368) 53 CTS (5 σ) C = 220 B = 40 MN=	CASSATELLA AC
"	"	"	α , , δ , , R , ,	L	SWP 22867 1+2	343 5 OF	-1.53 0.08 8.2	L	O	031805	40:00	4	6	2	GDE(-472, 240) 70 CTS 5σ C = 220 B = 40 MN=	
GA146	HD 193237 23	B1.5I 4.9	α 20, 15, 56.5 δ +37, 52, 36 R 281, 56, 57	H	LWP 3234 1+3	25656 30 OF	-1.34 0.3 8.2	L	O	045318	5:00	5	5	2	C = 220 E = 250 B = 45 MN=	
"	"	"	α , , δ , , R , ,	H	SWP 22868 1+4	25712 80 OF	-1.70 0.15 8.8	L	O	051456	25:00	5	0	2	C = 240 B = 45 MN=	
"	"	"	α , , δ , , R , ,	L	SWP 22869 1+5	26232 60 OF	-2.31 0.15 8.8	L	O	061553	0:18	5	0	1	C = 180 B = 20 C = 158 short λ MN=	
GI156	W CRU 45	G4.5Ia6	α 12, 09, 20 δ -58, 30, 18 R 137, 1, 33	L	LWP 3235 1+6	1363 10 OF	-1.80 0.30 8.2	L	O	071216	20:00	5	0	2	MN=	
GA144	AG CAR 23	B1I 7.46	α 10, 54, 11 δ -60, 11, 11 R 114, 37, 21.7	H	LWP 3236 1+7	3819 20 OF	-1.02 0.1 8.8	L	O	081839	29:00	3	6	1	C = 140 E ≈ 200 B = 50 MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 29 M APR Y 84 RAW TAPE D 29 M APR

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	OBSERV
FE184	0.2155-304 85	Q80 13.5	α 21, 55 58.3 δ -30, 27, 54 R 294, 23, 27	H	SWP 22876 1+	72 6 50	-1.40 (-1.40) 0.08 (12.2) 10.8	L	O	010615 082711	440:00 440:00 Total =720	3	1	9	READ AT GSFC MN=	WAMSTEKER AC
			α , , δ , , R , ,		FES 1528 1+1										SKb, TARGET IN SWLA GDE 272, -1116 768 (FO) MN=	
			α , , δ , , R , ,		1+										circled values refer to start VICS AA map MN=	
			α , , 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 APR Y 84 RAW TAPE D 30 M APR -1

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. alot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PIX. LINES	BACKG.	COMMENTS	OBSERV
FE 184	Q 2155-304 85	950 13.	α 21, 55, 58.3 δ -30, 27, 54 R 294, 7, 38.8	L	SWP 22881 1+✓	72 4 5 0	-1.31 (1.43) 0.08 (11.5) 10.8	L	0	233558 065648	440:00 440:00 TOTAL = 845m out.	3	1	9	READ AT GSFC MN= .	WAMSTEKER AC
			α , , δ , , R , ,		FES 1530 1+1										5 kb; TARGET in SKALA GDE(275, -117) 758 F/O MN=	
			α , , 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 APR Y 84 B RAW TAPE D 30 M APR -2 B

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. alot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PIX. LINES	BACKG.	COMMENTS	OBSERV
FE184	Q 2155-304 85	13.0	α 21, 55, 58.3 δ -30, 27, 54 R 292, 50, 48	H	SWP 22880 1+	72 3 5.0	-1.38 .08 11.5	L	0	00/06/43 01/07/47	60/0 310/0	3	1	9	read at GSFC. Total exp. time = 785 MN= dark.	WAMSTEKER WW
			α , , δ , , R , ,		1+		-2.25			06/20/12 06/38/00	15/0 440/0				MN=	
PHCAL	Serendipity		α , , δ 1 , 1 , 1 R , ,	H	LWR 17397 1+1	N/A	-1.38 .08 12.2			00/09/19 01/00/25	50/0 300/0.				= -4.75 KV (DECINAL = 1Φ3) FOR UVC1(2). MN=	Wamsteker WW.
PHCAL	Null		α , , δ 1 , 1 , 1 R , ,		LWP 3251 1+2					06/22/49					MN=	
	FES for SWP 22888 85.		α , , δ 1 , 1 , 1 R , ,		FES 1531 1+3	1				06/15/29					MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 01 M May Y 84 RAW TAPE D 01 M May

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 BIN THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	Null		α 15, 46, 31 δ 28, 18, 32 R 336, 1, 42	L	LWR 17406 1+1		16.9			23/22/54		0	0	8	Higain YQ28 missing read bckg. 39 DN MN=	WAMSTFEB WW.
PHCAL	60% CalUV		α , , δ " " " R " ,	L	LWR 17407 1+2		-.78 .08 16.9		0	23/55/29	01/53	0	0	9	TwVT = 39 RAW (A+3(M+3)/2 = 60.0 bg 121 MN=	〃 〃
〃	20% CalUV		α , , δ " " " R , ,	L	LWR 17408 1+3		-.91 .08 16.9		0	00/24/26	00/38	0	0	9	TwVF = 37 bg 57. MN=	〃 〃
〃	120% CalUV		α , , δ , , R , ,	L	LWR 17409 1+4		-1.04 .08 16.9			00/56/46	03/46	0	0	9	TwVF = 41. bg. 178 MN=	〃 〃
〃	60% CalUV		α , , δ , , R , ,		LWR 17410 1+5		-.75 .08 16.9			01/27/22	1/53	0	0	9	TwVF = 39 bg 107 MN=	
〃	100% FFlood		α , , δ , , R , ,		LWR 17411 1+6		-1.18 .08 16.9			01/51/14	0/22	0	0	X	F MN=	
〃	160% CalUV.		α , , δ , , R , ,		LWR 17412 1+7		-1.33 .08 16.9			02/26/03	05/01	0	0	X	TwVF = 33 MN=	
	2nd Readt.		α , , δ , , R , ,		LWR 17413 1+8		.08 16.5			02/45/52	0/0	0	0	0	bg. 14 MN=	

OBSERVATORY LOG

DATE D 01 M May Y 84 RAW TAPE D 01 M May

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 BIN THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	Null Higain		α 15, 46, 31 δ 28, 18, 32 R 336, 1, 42.	L	LWR 17414 1+9		.08 16.5	L		03/26/42	0/0	0	0	0	bg 91 MN=	WAMSTFEB WW
〃	Null Logain		α , , δ " " " R , ,		LWR 17415 1+10		.08 16.5	L	0	03/47/05	00/0	0	0	1	bg 29 MN=	〃 〃
〃	Null		α , , δ , , R , ,		LWP 3253 1+11		.08 7.2	L	0	4/18/57	0/0	0	0	0	MN=	〃 〃
1	HD155763 .25	3.5 B6 III	α 17, 8, 38 δ 65, 46, 24 R 323, 20, 49	L	LWP 3254 1+12.	1162 F.U.	-.84 .08 9.2	L	0	05/13/53	0/0/44	5	0	0	trailed bg 20 R = 12.89 I = 1 2100 = MN= 56DN	1 〃
〃	〃	3.5 B6 III	α , , δ 11, 6, 4 R , ,	L	LWP 3255 1+13	1119 F.U.	-2.08 .08 9.5	L	0	05/46/04	0/05.76	8	0	0	trail 1.47 R 1 iden. 2100 = 186 DN MN=	〃 〃
〃	〃	〃	α , , δ 4, 4, 4 R , ,	L	LWP 3256 1+14	1200 F.U.	-2.08 .08 9.8	L	0	06/25/22	0/01.5	8	0	0	R = 1.74 trail It = 1. 2100 = scale (255) MN= 80pix	〃 〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 02 M May Y 84 RAW TAPE D 02 M May

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	OBSRVR
QQ068	MKM789 34	14.5 Sept II	α 13, 29, 55.0 δ +11, 21, 48 R 32, 54, 58	L	SWP 22896 1+3	B/0	-.36 .52 11.5	L	O	23/37/45	418:22	3	0	2	MN=	Colina W.W.
PHCAL	LLVC 1(2) Test		α , , δ , , R , ,		LWR 17416 1+1		-.51 .08 12.8			00/18/40	360/0				UVC1(2) 106 =-4.87 KV MN=	Colina W.W.
Mull			α , , δ , , R , ,		LWP 3263 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 03 M MAY Y 84 RAW TAPE D 03 M MAY

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	OBSRVR
GC 084	SA0121038 40	F2 6.5	α 15, 28, 29.6 δ 08, 44, 56.0 R 335, 19, 22.0	L	LWP 3270 1+1	6737 6718 24 FO	-0.38 -0.28 0.08 10.8	L S	O	00:00:08 00:05:19	1:00 1:00	7 5	0 0	1 1	34μr set-new 2900A CNT=713 BCK=30 MN=	BIANCHI/BH
	"	"	α , " δ , , R , ,	L	SWP 22902 1+2	6707 6792 530 1634 FO	-0.62 -0.84 0.07 10.5	L S	O	00:25:38 00:32:24	3:00 3:00	3 3	0 0	0 0	BCK=17. CN=92 Cnts (Actual = 179.814 s.) MN=	
	SA0121078 44	G5 8.6	α 15, 32, 55.9 δ 09, 18, 01.7 R 333, 51, 21.4	L	LWP 3271 1+3	1644 1660 4,109 FO	0.65 0.38 0.02 10.8	L S	O	01:18:44 01:46:20	6:00 4:00	3 2	0 0	2 2	Cole=-211, -193 (336,30) BCK=35. CNT=80 CNT=46 MN=	
	"	"	α , , δ , , R , ,	L	SWP 22903 1+4	1639 2 FO	0.66 0.08 12.8	L	O	01:56:56	10:00	1	0	0	Cole. -13, -340 (38,30) MN=	
	HDE 261262 44	G8 10.5	α 05, 16, 18.2 δ -68, 18, 46.4 R 36, 30, 40.0	L	LWP 3272 1+5	162 2 FO	-1.53 0.08 10.8	L	O	04:00:51	15:00	3	0	2	Cole (-1310, 310) 280FO CNT=86, BGK=32 MN=	
	"	"	α , " δ , , R , ,	L	SWP 22904 1+6	173 2 FO	-1.39 0.08 10.8	L	O	04:23:00	10:00	1	0	0	Cole (-1108, 178) MN=	
PHCAL	HD 155763 25	B6III 3.5	α 17, 08, 38.1 δ 65, 46, 34 R 325, 18, 22.2	L	LWP 3273 1+7	1409 - FU	-1.93 0.08 10.5	L	O	05:37:27	00:01:44	5	0	2	TRAIL = 13.89 1 Interv. 1.43988 Secs. MN=	HASSALL/BH
	"	"	α , " δ , , R , ,	L	LWP 3274 1+8	1353 - FU	-1.83 0.08 10.5	L	O	06:15:01	00:12.86	7	0	2	TRAIL = 7.00 1 Interv. 2.85714 secs MN=	

OBSERVATORY LOG

DATE D 04 M MAY Y 84 RAW TAPE D 04 M MAY

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 THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSRVR
PHCAL	NULL 99		α 0,0,0 δ , , R , ,		SWP 22907 1+1					00:19:25					HI GAIN READ SWP BASELINE MN=	HASSALL / BH
	"		α , " , δ , , R , ,		SWP 22908 1+2		-0.53 0.08 10.2			00:49:34	1:49				60% CALUV FINAL UV TEMP=34 MN=	
	"		α , " , δ , , R , ,		SWP 22909 1+3		-0.55 0.08 10.2			01:18:16	0:36				20% CALUV FINAL UV TEMP =32 MN=	
	"		α , " , δ , , R , ,		SWP 22910 1+4		-1.41 0.08 10.5			01:48:27	3:38				120% CALUV FINAL UV TEMP= 39 MN=	
	"		α , " , δ , , R , ,		22911 SWP 1+5		-1.53 0.08 10.5			02:18:54	1:49				60% CALUV FINAL UV TEMP=35 MN=	
	"		α , " , δ , , R , ,		22912 SWP 1+6		-1.53 0.08 10.5			02:43:42	0:16				100% TFLOOD MN=	
	"		α , " , δ , , R , ,		SWP 22913 1+7		-1.53 0.08 10.8			03:16:20	4:51				160% CALUV FINAL UV TEMP 44 MN=	
	"		α , " , δ , , R , ,		SWP 22914 1+8					03:34:00					SECOND READ MN=	

OBSERVATORY LOG

DATE D 04 M MAY Y 84 RAW TAPE D 04 M MAY

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 THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSRVR
PHCAL	NULL 99		α 0,0,0 δ , , R , ,		SWP 22915 1+9					03:58:00					HIGAIN RD. MN=	
	"		α , " , δ , " , R , ,		SWP 22916 1+10					04:19:00					LOGAIN RD MN=	
GC084	S162 48	M2e 12.8	α 5,24,41.4 δ -71,12,11.7 R 37,37,35.7	L	LWP 3280 1+11	123 4 S 0	-0.88 0.08 9.8	L	O	00:11:45	250:00	3	6	3	(-622 -100.2) (195 cb) 2pt sat at ry IR INT=120 BLK=63. MN=	BIANCHI / BH
	HDE 269262 44	G8 10.5	α 5,16,18.2 δ -68,18,46.4 R 35,26,46.6	L	SWP 22917 1+12	167 0 FO	-2.05 0.08 10.5	L	O	05:09:56	30:00	1	0	0	(-1112, 155) 666cb MN=	
	"	"	α , " , δ , " , R , ,	L	LWP 3281 1+13	166 1 FO	-2.00 0.08 10.8	L	O	05:44:39	45:00	5	0	2	(-1315 242) MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 05 M MAY Y 84 RAW TAPE D 05 M MAY

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 BRG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GQ229	Q 1303	DAL QUASAR 17	α 13, 03, 31·95 δ 30, 48, 55·5 R 32, 27, 41·7	L	LWP 3287 1+	80	-228 0·08 10·2	L	O	00:14:41	Total =855:00	3	1	9	H/O to us expiring. Fan stable at 0.08 Cdts=846, MN=(025, 78,30	MCMAHON/BH
	Field for Q1303		α , , δ , , R , ,		FES 1533 1+1					00:19:0					5kbit for LWP3287 Target in LWL9 MN=	
			α , , 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 06 M MAY Y 84 RAW TAPE D 06 M MAY

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 BRG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GQR29	MR486 85	QUASAR 14·8	α 15, 35, 20·7 δ 54, 43, 23 R 349, 46, 14·2	L	LWP 22932 1+	80.	-209 0·08 8·5	L	O	00:22:45	Total =860:00	4	3	9	FESCATT = 3450. (14, -209) ⇒ 20% wrong. gdc = (-1346, 1249) Use M'Mahon's config matrix + 2 pt. GSF	MCMAHON/BH REA AT
	Field for MR486	"	α , , δ , , R , ,		FES 1534 1+1					00:25:0					Do not use Turnchek (Nov 82) [15 38 21·5 +54 43 04 X] Centred on star 2 5kb	
			α , , 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 07 M MAY Y 84 RAW TAPE D 7 M MAY

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	OBSERV
GA T00	WR 137 (HD 192641) 10	WC7 8.2	α 20, 12, 39.4 δ 36, 30, 28 R 290, 18, 28.4	L	LWP 3300 1+1	2333 8 P0	-2.31 .08 9.8	L S	O	23:39:54 23:47:12	1:40 5:00	7 7	7 7	1	LAP SATUR λ≥2450 SAP " λ≥2410 MN=	TOLOVERA AT
			α , , δ , , R , ,	L	SWP 22939 1+2	2234 5 F0	-1.53 .08 9.8	L S	O	00:09:29 00:17:31	2:06 6:30	5 5	5 6	0	MN=	
			α , , δ , , R , ,	L	LWP 3301 1+3	2223 6 F0	-1.53 .08 9.8	L S	O	01:17:40 01:26:38	2:38 1:30	7 5	7 5	1	LAP: ERROR IN EXP. TIME MN=	
GA 191	HZ 21 17	DO M.2	α 12, 11, 25.1 δ 33, 13, 11 R 45, 11, 24.1	L	SWP 22940 1+4	BO (23)	-.78 .08 9.8	L	O	02:12:09	35:00	5	0	0	GOE | -315 39 291/F0 C: 255 (2 PIX. SAT.) B: 16 MN=	
			α , , δ , , R , ,	L	LWP 3302 1+5	BO (23)	-2.08 .08 9.8	L	O	02:55:03	50:00	5	0	2	GOE | -511 177 C: 235 B: 45 MN=	
			α , , δ , , R , ,	L	SWP 22941 1+6	BO (22)	-1.87 .08 9.8	L	O	03:48:38	35:00	5	0	0	GOE | -314 36 268/F0 C: 255 (3-4 PIX SAT.) B: 16 MN=	
			α , , δ , , R , ,	L	LWP 3303 1+7	BO	-2.39 .08 10.5	L	O	04:38:12	40:00	5	0	2	RESCALED ON GOE GOE | -514 177 294/F0 C: 208 B: 38 MN=	
			α , , δ , , R , ,	L	SWP 22942 1+8	BO (29 CTS AT END)	-1.14 .08 10.2	L	O	05:22:57	28:00	5	0	0	RESCALED ON GOE GOE | -314 38 328/F0 C: 230 B: 15 MN=	

OBSERVATORY LOG

DATE D 07 M MAY Y 84 RAW TAPE D 07 M MAY

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	OBSERV
GA 191	HD 93521 12	O7 V 6.9	α 10, 45, 33.6 δ 37, 50, 04 R 60, 4, 13.5	L	LWP 3304 1+9	5319 5 F0	-1.18 .08 10.2	L	O	06:30:17	0:03	5	0	2	C: 198 B: 33 MN=	TOLOVERA AT
			α , , δ , , R , ,	L	SWP 22943 1+10	5404 9 F0	-1.62 .08 10.2	L	O	06:33:36	0:03	5	0	0	C: 176 B: 13 MN=	
			α , , 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 MAY Y 84 RAW TAPE D 8 M MAY

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 BRG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC 103	HD 155555 44	G5V 6.7	α 17,12,18.0 δ -66,53,40 R 219,23,47.2	L	SWP 22957 1+1	5863 12 FO	-.69 .08 10.8	L	O	23:21:12	60:00	3	3	0	E≃90 DN B≃23 C≃70 MN=	FERNANDEZ / GIMENEZ AT
	HD 219113 41	F8 7.3	α 23,10,50.6 δ 2,24,10 R 288,44,19.1	L	SWP 22958 1+2	3240 7 FO	-1.76 .08 11.2	L	O	01:12:53	120:00	4	3	1	E<97 DN C≃186 AT λ=1900 B=37 MN=	
	HD 107760 44	G3 8.00	α 12,20,6.7 δ 73,31,21 R 38,41,6.3	L	SWP 22959 1+3	1764 3 FO	-2.45 .08 11.5	L	O	04:00:46	90:00	2	2	0	E≃50 B≃35 C≃50 MN=	
	HD ~~65626~~ 65626 44 awh.	G0 6.4	α 7,58,32 δ 57,24,50 R 94,2,4.4	L	SWP 22960 1+	6879 23 FO	-1.67 .08 11.5	L	O	06:09:28	38:00	3	2	0	E≃90 B≃29 C≃75 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 MAY Y 84 RAW TAPE D 8 M MAY

SHIFT STARTS AT 23:00

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 BRG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GA Φ79	BD -7° 3477 28	SdB 10.5-11.4	α 12,41,48.0 δ -8,24,0 R 71,49,50.7	L	SWP 22970 1+1	212 1 FO	-.61 .08 11.2	L	O	00:03:14 00:09:40	1:00 1:00	5 5	0	0	RP(-2,-212) B:15 DN RP(-30,-204) C:190DN MN=	LYNAS-GRAY AT
			α , , δ , , R , ,	L	LWP 3322 1+2	240 1 FO	-.27 .08 11.5	L	O	00:18:26 00:43:01	2:30 2:30	7 7	0	1	RP(-30,-204) SATDR. RP(-2,-212) ΔT λ>2540 MN=	
			α , , δ , , R , ,	H	SWP 22971 1+3	235 2 FO	-.05 .08 11.2	L	O	01:08:11	80:00	4	0	1	C≃166 DN B≃30 MN=	
			α , , δ , , R , ,	L	LWP 3323 1+4	229 3 FO	.01 .08 12.2	L	O	01:36:01 03:18:33	2:00 2:00	5 5	0	1	RP(-34,-204) RP(2,-212) MN=	
			α , , δ , , R , ,	H	SWP 22972 1+5	227 0 FO	-.47 .08 13.8	L	O	03:24:09	70:00	4	0	1	C≃160 DN B≃25 MN=	
			α , , δ , , R , ,	L	LWP 3324 1+6	164 1 FO	-.33 .08 12.8	L	O	04:42:19 05:00:52	2:00 2:00	5 4	0	2	RP(-34,-204) RP(2,-212) MN=	
			α , , δ , , R , ,	H	SWP 22973 1+7	211 1 FO	-.83 .08 14.5	L	O	05:15:18	80:00	4	0	2	C≃180 B≃30 MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 10 M MAY Y 84 RAW TAPE D 10 M MAY

SHIFT STARTS AT 23:00

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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GA Φ79	BD-7°3477 28	sdB 10.5	α 12,41,48.0 δ -8,24,0 R 71,39,2.3	H	LWP 3336 1+2	206 0 F0	-1.22 .08 10.5	L	0	01:05:08	92:00	5	0	3	MN=	LYNDS-GRAY AT
	NULL IDENT		α , , δ , , R , ,		LWP 3335 1+1										READ G1 FOR LWP3336 MN=	
	BD-7°3477 28		α , , δ , , R , ,	L	SWP 22984 1+3	478 2 S0	-1.15 .08 12.5	L	0	03:07:24 03:20:55	1:00 1:00	4 5	0	0	RP(2,-212) RP(-34,-204) MN=	
			α , , δ , , R , ,	L	SWP 22985 1+4	208 1 F0	-1.64 .08 13.2	L	0	03:55:09 03:59:02	1:00 1:00	5 5	0	0	RP(2,-212) RP(-34,-204) MN=	
			α , , δ , , R , ,	L	SWP 22986 1+5	230 0 F0	-1.36 .08 13.5	L	0	04:31:23 04:55:12	1:00 1:00	5 5	0	0	RP(2,-212) RP(-34,-204) MN=	
			α , , δ , , R , ,	H	LWP 3338 1+7	234 1 F0	-1.80 .08 13.2	L	0	05:00:56	95:00	5	0	3	MN=	
	NULL IDENT		α , , δ , , R , ,		LWP 3337 1+6										READ G1 FOR LWP3338 MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 11 M MAY Y 84 RAW TAPE D 11 M MAY

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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC Φ11	CC COM 46	K4 11.5	α 12,09,33.8 δ 22,48,39 R 51,45,5.7	L	LWP 3349 1+2	364 2 S0	-1.34 .08 10.5	L	0	23:34:53	180:00	3	5	2	E: 231 mgII C: 100 B: 60 MN=	RUNIKI AT
	NULL IDENT		α , , δ , , R , ,		LWP 3348 1+1										READ G1 FOR LWP3349 MN=	
	FG HYA 44	G0 10.0	α 8,24,26.7 δ 3,40,52 R 72,19,35.8	L	LWP 3350 1+3	309 1 F0	-1.24 .08 10.8	L	0	03:49:57	45:00	7	0	1	SATUR λ > 2840 MN=	
	HD 106400 46	K0V 9.4	α 12,11,47.9 δ 12,05,55 R 57,2,9.1	L	LWP 3351 1+4	407 2 F0	-2.93 .08 10.8	L	0	05:27:02	25:00	5	4	2	C≈184 B≈20 E≈188 MN=	
			α , , δ , , R , ,	L	SWP 22996 1+5	436 1 F0	-2.06 .08 9.5	L	0	05:55:52	52:00	2	0	0	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 12 M MAY Y 84 RAW TAPE D 12 M MAY

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.	FR. LINES	BACKG.	COMMENTS	OBSERV
GS ϕ48	ED TORUS 03		α 18, 53, 01.1 δ -22, 43, 09 R 175, 21, 57.5	L	SWP 23006 1+2	—	-1.92 .08 102	L	0	23:01:54	240:00	2	3	2	EXP. STARTED AT GIAC EMISSION AT AN 1250, 1400, 1730 MN=	BERTAUX AT
			α , , δ , , R , ,	E	PES 1536 1+1					00:20:00	160:00				MN=	
			α , , δ , , R , ,	L	SWP 23007 1+		-2.14 .08 9.8	L	0	03:53:29	Total =240m	1		3	H/O EXPOSING Emission lines recorded as 235 DN MN= (Clyne)	
			α , , 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 May Y 84 RAW TAPE D 13 M May

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.	FR. LINES	BACKG.	COMMENTS	OBSERV
GC011	HD 164615 40	F2 V 7.1	α 17, 59, 12.6 δ 11, 17, 7 R 307, 6, 73	L	LWP 3358 1+1	4737 7/430 F/O	-.82 .08 7.5	L S	0 0	23:57:20 00:14:18	10:00 2:00	7 4	1 1	1	MN=	ROCINGKI /RG
"	"	"	α , , δ , , R , ,	L	SWP 23015 1+2	4661 16/340 F/O	-.91 .08 7.5	L S	0 0	00:22:06 01:28:07	60:00 12:00	7 3	1 1	0	MN=	"
"	"	"	α , , δ , , R , ,	H	LWP 3360 1+4	4713 10 F/O	-1.55 .08 7.5	L	0	01:46:32	60:00	4	1	1	MN=	"
h	NULL 99	"	α , , δ , , R , ,	H	LWP 3359 1+3	—	—			—					EDGI for 3360 MN=	"
"	TZ Boo 44	G2 V 10.7	α 15, 6, 17.4 δ 40, 9, 30 R 4, 30, 43.8	L	LWP 3361 1+5	193 1 F/O	-1.95 .08 7.8	L	0	03:54:09	80:00	6	1	1	40 pix sat. MN=	"
H	HD 187183 44	G5 V 9.8	α 19, 45, 48.3 δ 9, 11, 2 R 293, 31, 58.0	L	LWP 3362 1+6	475 2 F/O	-1.78 .08 8.2	L	0	05:59:55	45:00	6	1	1	~30 pix sat MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 14 M May Y 89 RAW TAPE D 14 M May

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	OBSERV
GC 041	HD 119931 44	G2V 7.3	α 13,43,36.1 δ 5,21,56 R 45,37,59.7	L	SWP 23019 1+1	4030 10 FO	-2.14 .08 8.5	L	O	23:31:47	60:00	3	0	0	MN=	RUCINSKI RG
"	"	"	α , , δ , , R , ,	L	LWP 3366 1+2	4263 7/293 FO	-1.08 .08 8.5	L	O	0:37:41	60:00	7	0	1	MN=	"
"	BD-0° 4234A 46	K5V 9.9	α 21,29,36.6 δ 0,0,0 R 288,45,59.5	L	SWP 23020 1+3	372 3 FO	-1.96 .08 7.8	L	O	02:51:42	180:00	1	1	1	MN=	"
"	"	"	α , , δ , , R , ,	L	LWP 3367 1+4	377 0 FO	-1.97 .08 7.5	L	O	05:57:21	50:00	4	5	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 15 M May Y 89 RAW TAPE D 15 M May

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	OBSERV
FC017	HD 212697 44	G1V+ G2V 6.6	α 22,23,51.5 δ -16,59,48 R 292,12,51.0	L	SWP 23026 1+1	14034 79 F10	-1.77 .08 9.2	L	O	00:14:29	100:00	5	4	0	Gde 7 1148,836 19450 MN=	Pallavicini
	"	"	α , , δ , , R , ,	H	LWP 3373 1+	14025 36 F10	-1.18 .08 9.2	L	O	01:59:38	20:00	4	3	1	MN=	
	"	"	α , , δ , , R , ,	L	SWP 23027 1+	14229 47 F10	-1.18 .08 9.8	L	O	02:29:26	~~180:00~~ 205:00	7	5	1	MN=	
	"	"	α , , δ , , R , ,	H	LWP 3374 1+	14299 45 F0	-1.73 .08 9.2	L	O	05:59:12	40:00	5	5	0	2 pix int 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 84 RAW TAPE D 16 M may

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.	PM. LINES	BACKG.	COMMENTS	OBSERV
GA096	PG 1159-035 17	14.5	α 11,59,12.3 δ −3,28,57 R 68,51,19.9	H	SWP 23032 1+	34 50	−0.55 −2.70 0.70 0.08 40.5	L	O	21:54:18 05:15:14	440m + Total = 1620m	6	1	9	expo begun at US2, finished at US1. gde: X = −748 Y = −85 cts: 102 FE MN=	WEHRSE /CG
11	11	11	α , , δ , , R , ,	E	FES 1538 1+1	11				23:00:00					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 17 M may Y 84 RAW TAPE D 17 M may

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.	PM. LINES	BACKG.	COMMENTS	OBSERV
GQ260	PKS 1327-206 85	QSO M7	α 13,27,24.5 δ −20,40,48 R 86,32,25.3	L	LWP 3379 1+2	BO	2.48 ,08 8.8	L	O	23:52:41	404:00	3	0	5	gde X: −301 Y: 512 B=80 C=143 cts=2350 MN=	KUNTH /CG
11	NULL 99		α , , δ , 11 , R , ,		LWP 3378 1+3	ARCHIVED ON RAW TAPE 22 MAY−1 fc									READ G1 begin read LWP 3379 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 18 M May Y 84 RAW TAPE D 18 M May

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	OBSERV
GE228	POX 120 88	blue compact galaxy 16	α 13,04,04.6 δ -11,48,20.5 R 73,13,4.6	L	SWP 23042 1+	BO	-2.09 .08 10.5	L	O	23:57:01	410:00	2	3	3	GDE -550 E=118 1310 C=88 1414 30 B=70 MN=	JOUBERT KUNTH /CG
			α , , 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 MAY Y 84 RAW TAPE D 19 M MAY

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	OBSERV
GE228	TOL 41 88	BLUE COMPACT GALAXY 18	α 14,00,05.1 δ -29,59,46.9 R 106,49,39.8	L	SWP 23053 1+2	BO	-1.83 .08 11.2	L	O	00:09:50	397:00	2	3	4	GDE: X=640 Y=-491 dt=125 50 Yα:80 B=51 MN=	JOUBERT KUNTH /CG
11	NULL 99		α , , δ — — R , ,		SWP 23052 1+1					23:00:00					NULL READ TO SEE REMNANT OF A SOO MN=	11
			α , , δ , , R , ,		LWP 3379 1+1 → 8 raw tape		19 May 2								PLAYBACK (17 MAY) MN=	
			α , , 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 MAY Y 84 RAW TAPE D 20 M MAY

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	OBSERV
GQ256	3C273 84	Seyfert 12	α 12,26,33.3 δ 02,19,44 R 63,14,3.2	L	SWP 23063 1+1	91 5 SO	-1.63 .08 6.5	L	O	23:44:18	25:00	3	4	1	B=27 GDE/259 C=70 {1295 856SO B=17 G=161 MN=	GRAY/CG
"	"	"	α , , δ , " , R , ,	L	LWP 3397 1+2	89 0 SO	-1.26 .08 6.5	L	O	00:16:51	30:00	4	0	3	B=37 GDE{59 C=167 {1453 2505O MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 23064 1+3	95 3 SO	-1.26 .08 6.8	L	O	00:52:22	50:00	3	5	1	B=18 GDE/260 E=235 {1296 2585O B=31 C=119 MN=	"
"	"	"	α , , δ , " , R , ,	L	LWP 3398 1+4	95 0 SO	-1.26 .08 6.8	L	O	01:46:06	60:00	5	0	3	B=41 GDE/59 C=249 {1151 2255O MN=	"
"	NGC 5548 84	Seyfert 12.9	α 14,15,43.2 δ+25,22,00 R 29,0,40.8	L	SWP 23065 1+5	71 2 SO	-.56 .08 6.8	L	O	03:35:33	80:00	3	5	1	B=20 GDE{138 E=284 {379 B=35 C=128 215FO MN=	"
"	"	"	α , , δ , " , R , ,	L	LWP 3399 1+6	69 4 SO	-1.00 .08 7.2	L	O	05:02:12	70:00	5	5	3	B=41 GDE{-1587 C=201 {-239 G=255(1 pix) 160FO MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 23066 1+7	73 4 SO	-1.03 .08 7.2	L	O	06:18:24	29:00	2	3	0	B=18 GDE{-1382 C=36 {-380 B=12 1520 E=45 MN=	SEC HV WRONGLY SET TO 3.9 KV WHILE UVC -4.7
---	-	-	α , , δ , , R , ,		1+									-	WHICH IS ~ MEDIUM GAIN SETT S/C ANOMALY MN=	V-0033 REFER Talbot

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OBSERVATORY LOG

DATE D 21 M MAY Y 84 RAW TAPE D 21 M MAY

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	OBSERV
GI042	HD128220B 16	Sd O 8.5	α 14,32,57 δ+19,25,58 R 27,34,27.9	H	SWP 23074 1+1	1251 9 FO	-2.39 .08 8.5	L	O	00:07:11	40:00	5	0	1	B=41 GDE/-673 e=205 {101 1017 FO MN=	HOWARTH/CG
"	"	"	α , , δ , " , R , ,	H	SWP 23075 1+2	1280 1 FO	-2.57 .08 8.8	L	O	01:13:59	40:00	5	0	1	B=41 GDE{-673 C=206 {99 MN=	"
"	"	"	α , , δ , " , R , ,	H	SWP 23076 1+3	1280 FO	-1.43 .08 8.8	L	O	02:15:39	40:00	5	0	1	B=41 C=210 MN=	"
GA197	HD138749 26	B5e 4.22	α 15,30,54.7 δ+31,31,36 R 6,58,9.0	H	SWP 23077 1+4	538 109 FU	-2.04 .08 8.8	L	□	03:47:41	1:45	5	0	1	B=38 C=216 MN=	BARYLAK/CG
"	"	"	α , , δ , " , R , ,	H	LWP 3406 1+5	549 84 FU	-2.04 .08 7.5	L	O	03:55:19	1:15	5	0	3	B=43 C=245 MN=	"
"	HD200120 26	B1e 4.55	α 20,58,07.4 δ 47,19,30 R 293,54,23.1	H	SWP 23078 1+6	320 49 FU	-2.48 .08 8.5	L	O	04:37:46	1:30	5	0	1	B=35 C=252 MN=	"
			α , , δ , " , R , ,	H	LWP 3407 1+7	326 FU	-1.87 .08 7.8	L	O	05:13:02	1:30	5	0	3	B=48 C=255(1 pix) MN=	"
"	HD162732 26	B7e 6.40	α 17,48,44.7 δ 48,24,25 R 332,9,31.8	H	SWP 23079 1+8	6640 20 FO	-0.58 .08 8.2	L	O	06:04:34	22:00	5	0	1	GDE{-994 {-48 160 MN=	

OBSERVATORY LOG

DATE D 21 M MAY Y 84 RAW TAPE D 21 M MAY

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	OBSERV
GA197	4	11	α , , δ , , R , ,	H	LWP 3408 1+9	6555 11 F0	L170 .08 8.2	L	O	06:35:28	12:00	5	0	3	B=43 C=222 MN=	BARYLAK CG
			α , , 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 MAY Y 84 RAW TAPE D 22 M MAY

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	OBSERV
GM081	BD+28°2781 21	B4V 9.8	α 18 , 51 , 8.1 δ 48, 20, 29 R 319, 3 , 4.5	L	SWP 23086 1+1	424 3/28 F0	-1.90 0.08 9.2	L S	O	234043 234923	5:20 5:46	7 5	0 0	1	C = 2X B= 17 C~190 MN=	WEST AC
"	BD-42 6798 23	B2 III 10.3	α 14 , 43 , 51.2 δ -42 , 41 , 10 R 139, 16 , 25.2	H	SWP 23087 1+2	278 1 0F	-1.09 0.08 8.8	L	O	010319	345:00	4	0	4	C ~ 180 B ~ 80 MN=	—
			α , , 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 84 RAW TAPE D 23 M MAY

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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GHØ81	HD121800 20	B3.5V 9.0	α 13,53,34.5 δ 66,21,39 R 29,40,3.8	L	SWP 23094 1+	831 2 OF	-1.62 0.08 7.2	L S	O	232856 234208	3:20 4:40	8 7	0 0	1 1	440 pix mat 83 pix mat MN=	WEST AC
"	HD 238846 20	B2 V 9.6	α 18,17,24.5 δ 55,25,30 R 328,8,52	L	SWP 23095 1+2	489 3 OF	-0.40 0.08 7.8	L	O	004024	5:16	8	0	1	MN=	
"	HD 209684 21	B3V 9.9	α 22,02,49.2 δ -14,00,50 R 290,9,13.7	H	SWP 23096 1+3	438 1 OF	-0.84 0.08 8.2	L	O	013313	300100	8	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 24 M MAY Y 84 RAW TAPE D 24 M MAY

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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GHØ81	HD 156838 20	B2 5.7	α 17,19,18.7 δ -62,49,03 R 205,12,54	H	SWP 23101 1+1	14469 56 OF	-3.04 0.08 9.5	L	O	233718	4:30	5	0	1	CIV 120 } B~30 SiIV 150 } C=200 B~40 MN=	WEST AC.
"	"	"	α , , δ , , R , ,	H	LWP 3424 1+3	14612 +3 OF	-3.0 0.08 10.2	L	O	234600	3:00	6	0	1	few pix mat MN=	
"	HD183761 12	O8? 8.9	α 19,28,48.6 δ -17,20,14 R 282,44,16	L	SWP 23102 1+2	973 1/40 OF	-1.00 0.08 9.8	L	O	003330 004103	3:27 4:36	8 6	0 0	1 1	MN=	
	B.D +48 2781 21 Aqr	B4 9.8	α 18,51,8.1 δ 48,20,29 R 321,0,19	H	SWP 23103 1+4	407 5 OF	-0.78 0.08 9.8	L	O	013150	315:00	8	0	2	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 25 M MAY Y 84 RAW TAPE D 25 M MAY

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	OBSERV
PHCAL	NULL 99		α 00,00,00 δ 00,00:00 R , ,		LWP 3430 1+1		— 0.08 10.5			234430	—				HI GAIN READ MN=	CASSATELLA AR
"	60% CALUV 99		α 00, 00, 00 δ 00, 00, 00 R , ,		LWP 3431 1+2		-1.5 0.08 10.5			003543	2:04				FINAL UVF TEMP = 31 MN=	
"	20% CALUV 99		α , , δ , " , R , ,		LWP 3432 1+3		-2.05 0.08 11.2			011551	0141				UVF = 36 MN=	
	120% CALUV		α , , δ , " , R , ,		LWP 3433 1+4		-2.18 0.09 10.8			015541	4:08				UVF = 41 MN=	
	60% CALUV		α , , δ , 4 , R , ,		LWP 3434 1+5		-7.30 0.08 10.5			023757	2:04				UVF = 38 MN=	
	100% TFLOOD		α , , δ , 4 , R , ,		LWP 3435 1+6		-3.18 0.08 10.8			030537	1:40				MN=	
	160% CALUV		α , , δ , 4 , R , ,		LWP 3436 1+7		-2.44 0.08 10.8			035935	5:31				READ ONLY MN=	
	2nd READ		α , 4 , δ , , R , ,		LWP 3437 1+8		— 0.08 10.8			041500					MN=	

OBSERVATORY LOG

DATE D 25 M MAY Y 84 RAW TAPE D 25 M MAY

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	OBSERV
PHCAL	NULL 99		α 00,00,00 δ 00, 00, 00 R , ,		LWP 3438 1+9		— 0.08 10.8			043200					HI GAIN READ MN=	CASSATELLA AR
"	NULL 99		α , , δ , , R , ,		LWP 3439 1+10		— 0.08 11.2			045500					LO GAIN READ MN=	
GA144	HD 94910 23	B II 7.60	α 10, 54, 11 δ -60, 11, 11 R 88, 35, 48.6	H	SWP 23109 1+11	3392 20 FO	-0.55 0.08 9.8	L	O	233941	200:00	S	6	1	406(886-338)760FO MN=	
"	"	"	α , , δ , , R , ,	L	LWP 3440 1+12	3370 10 FO	-7.06 0.08 10.8	L S	O	055054 055448	0:50 5:00	S 6	0 0	1	C=248 35=B MN=	
			α , , δ , , R , ,	L	SWP 23110 1+13	3284 10 3235 FO	-7.0 0.08 10.2	L	O	060428 061324	4:00 12:00	S S	0 0	1	C= 240 B=25 C=240 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 26 M MAY Y 84 RAW TAPE D 26 M MAY

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	OBSERV
QA 086	3-118 in NGC 6752 83	SdB 17.7	α 19, 6, 12.7 δ -60, 13, 47 R 237, 6, 53.6	L	LWP 3447 1+2	6.0	-1.99 0.08 11.2	L	O	23:51:01	382:00	3	0	6	GDE(265,138) 4327 FO C=170 B=90 MN=	CALOI CHIEFFI AC
"	NULL 99		α 00, 00, 00 δ 00, 00, 00 R , ,		LWP 3446 1+1										READ 91 MN=	
			α , , 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 MAY Y 84 RAW TAPE D 27 M MAY

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	OBSERV
CA037	3507 (N6752) 83	SdB 17.5	α 19, 05, 59.0 δ -59, 57, 24.0 R 236, 13, 26.6	L	SWP 23120 1+2	80	-2.28 0.08 9.8	L	O	23:56:32	411:00	3	0	3	Gde=719,-1198,50 2048 BCK=69 DUT=136 MN=	CALOI BH.
	11 FIELD	11	α , , δ , 11 , R , ,	E	FES 1539 1+1			2		00:03:00					5kb field for SWP 23120 in SWLA MN=	
			α , , 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 MAR Y 84 RAW TAPE D 28 M MAR

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	OBSERV
GA087	3675 (N6752)	83 17·0	α 19, 07, 17·5 δ −60, 01, 36 R 235, 29, 59·6	L	SWP 23126 1 + 1	B 0	−1·64 0·08 10·5	L	0	22:54:17	413:00	3	0	3	gain −687, 1406 187(50). CNT=146 BK=71 MN=	CAL 01 / 13H
			α , , 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 84 RAW TAPE D 29 M May

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	OBSERV
GM097	NGC 6210 70	12	α 16, 42, 23·7 δ 23, 53, 29 R 354, 41, 5·8	H	SWP 23133 1 + 1	485 10 F0	−1·21 ·08 10·5	L	0	23:39:10	430:0	4	8	3	C=235 B=46 (Lα. B=100) E=5÷10x MN=	KÖPPEN RG
			α , , 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 30 M May Y 84 RAW TAPE D 30 M May

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	OBSRVR
GC 150	TX PSC 50	NØ 5:0	α 23,43,50 δ 3,12,36 R 241,56,57.0	L	LWP 3468 1+1	23336 86 FO	-157 .08 9.8	L	O	23:54:15	60:00	3	5	1	1mix out Q MgII MN=	QUERCI RG
	〃	〃	α , , δ , , R , ,	14	LWP 3469 1+	23735 68 FO	-157 .08 10.8	L	O	01:27:08	TOTAL =810:00	1	39		MgII = 227 Dn gross. B=168 READ AT GSFC MN=	
	〃	〃	α , , δ , , R , ,		FES 1540 1+2										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 31 M MAY Y 84 RAW TAPE D 31 M MAY

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	OBSRVR
G 6030	MCG -2-58-12 84	SE#1 13.9	α 23,02,07.2 δ -08,57,19.4 R 242,48,50.5	L	SWP 23142 1+1	80	-0.67 0.08 10.2	L	O	23:58:10	60:00	3	3	0	64 cts at RP. (-1257, -643) 301 SD (offset) (LOCKED NEAR RP. -12,-27)	JONES/HASALL /BH
	〃	〃	α , , δ , , R , ,	L	LWP 3273 1+2	52 - 50	-2.06 0.08 8.5	L	O	01:06:14	60:00	5	5	3	(-148, -487) MgII=203. BCK=32 ERRORS AT RP. - LOCKED (1,15) MN=	
	〃	〃	α , , δ , , R , ,	L	SWP 23143 1+3	51 7 50	-2.41 0.08 9.2	L	O	02:08:08	90:00	3	5	1	(-1267, -626) 319 SD. Ly = 238, BCK=18 (LV=192, MN=	
	NGC 3783 84	SE#1 13.5	α 11,36,33.0 δ -37,27,42 R 80,37,03.9	L	LWP 3474 1+4	82 50	-1.73 0.08 8.2	L	O	04:46:06	80:00	5	6	3	(150, 153) 789 EO 8pk sat of MgII. BCK=62 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 86 RAW TAPE D 1 M JUN

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.	FM. LINES	BACKG.	COMMENTS	OBSERV
G-E030	NGC5643 84	SEY 10.5	α 14, 29, 27.7 δ -43, 57, 15.8 R 119, 04, 08	L	SWP 23147 1+1	64 19 SO	-1.50 0.08 9.5	L	O	24:48:22	240:00	2	0	2	Code (913, 168) 291 5.0 BCK=31 actual BCK=39 V. weak. MN=	JONES-HASSALL/ BH
	MCG -2-58-22 84	SEY 13.9	α 23, 02, 07.2 δ -08, 57, 19.2 R 292, 45, 56.4	L	SWP 23148 1+2	53 7 SO	-1.35 0.08 11.8	L	O	03:04:21	90:00	4	5	1	Code (-1263, -628) 29030 BCK=19. CNT=125 MN=	
			α , , 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 02 M JUN Y 86 RAW TAPE D 02 M JUN

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.	FM. LINES	BACKG.	COMMENTS	OBSERV
G-1042	HD 128220 16	SEY 8.5	α 14, 32, 56.6 δ 19, 25, 58.0 R 38, 41, 18.2	H	SWP 23154 1+1	1264 4 F.O	-1.44 0.08 9.5	L	O	21:26:06	40:00	5	0	1	(672, 243) (669, 0) BCK=26 CNT=202 MN=	HOWARTH /BH
	"	"	α , , δ , " , R , ,	H	SWP 23155 1+2	— F.O	-1.71 0.08 9.8	L	O	22:32:28	40:00				Target in BKGD during SPROB. NO READ made(!) MN=	
	HZ HER 59	12.5	α 16, 56, 01.6 δ +35, 25, 05.9 R 356, 16, 28.5	L	SWP 23155 1+2	83 2 SO	-1.68 0.08 9.5	L	O	23:59:22	60:00	5	4	1	(827, 632) Code. BCK=26 CNT=177 CW=154 CW=202 MN=	
G-Q205	NGC4157 84	SEY 13	α 12, 08, 00.4 δ +39, 41, 02 R 59, 34, 37.6	L	SWP 23156 1+3	177 25 SO	-1.78 0.08 9.2	L	O	01:53:47	50:00	2	5	0	(1132, 434) 513 F.O. CW=183, CW=165, BCK=27 CNT=67. MN=	PEMBTON/BH ≈220
	"	"	α , , δ , " , R , ,	L	LWP 3483 1+4	159 14 SO	-1.73 0.08 8.2	L	O	02:50:12	35:00	3	5	3	CW=210 BCK=31 CNT=36 MN=	
	"	"	α , " , δ , , R , ,	L	SWP 23157 1+5	159/61 79, 17 SO	-1.73 -2.08 0.08 9.2	S L	O O	03:37:57 04:01:10	25:00 47:00	2 2	3 5	1 1	CW=255 (pk) CW=196 CNT=69, BCK=30. MN=	LAP.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 03 M JUN Y 84 RAW TAPE D 03 M JUN

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	OBSERV
GA120	HO+41B	B3	α 12, 20, 01·3		LWP	331,328	−1·03 −1·00	L	O	21:22:02	20:0	6	0	3	(449, −209) Stab. (INT=1·5)	TOBIN/BH
	21	11·67	δ +41, 06, 13	L	3488	2,13	0·10 0·08									
			R 58, 03, 49·6		1+1	SO	9·8	S	O	21:47:41	13:30	5	0	3	CNT=215, BLK=29 MN=	
	"	"	α , ,		SWP	337,341	−1·09 −1·09	L	O	22:06:37	19:00	5	0	0	(15+4mins) CNT=222 BLK=26	
			δ , " ,	L	23164	2,19	0·08									
			R , ,		1+2	SO	9·5	S	O	22:40:06	25:00	5	0	0	CNT=212, BLK=24 MN=	
	PB 166	B1·5	α 13, 21, 55		LWP	171	−0·88	L	O	23:33:23	33:00	7	0	4	BLK=35, CNT×2.	
	20	12·5	δ 49, 38, 12	L	3489	16	0·08									
			R 46, 17, 20		1+3	SO	9·8								MN=	
	"	"	α , ,		SWP	159	−1·21								BCK=45, CNT=165.	
			δ , " ,	L	23165	19	0·08	S	O	00:12:27	35:00	4	0	0		
			R , ,		1+4	SO	9·8								MN=	
	"	"	α , " ,		LWP	159	−0·82								BLK=49, CNT=230	
			δ , ,	L	3490	1	0·08	L	O	00:53:03	16:00	5	0	3		
			R , ,		1+5	SO	10·2								MN=	
	"	"	α , " ,		SWP	150	−1·25								30 px int run 1300ft.	
			δ , ,	L	23166	1	0·08	L	O	01:19:43	25:00	6	0	0		
			R , ,		1+6	SO	10·2								MN=	
	HO+23B	B3	α 12, 05, 24·8		LWP	140,144	−1·00 −1·00	L	O	02:33:19	11:30	7	0	3		
	21	11·0	δ 22, 48, 33·0	L	3491	1,7	0·08									
			R 61, 35, 14·0		1+7	FO	10·2	S	O	02:55:11	7:30	4	0	3	CNT=149 MN=	
	"	"	α , " ,		SWP	142,139	−1·00 −1·00	S	O	03:08:40	12:00	4	0	0	CNT=164	
			δ , ,	L	23167	7,3	0·08									
			R , ,		1+8	F,0	9·8	L	O	03:27:00	8:00	5	0	0	CNT=230. BLK=14 MN=	

OBSERVATORY LOG

DATE D 03 M JUN Y 84 RAW TAPE D 03 M JUN

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	OBSERV
GA120	Feige40	B4	α 11, 18, 53·2		SWP	141,134	−1·04	L	O	06:21:57	9:00	5	0	1	CNT=210 BCK=46	
	21	11·1	δ +11, 35, 44	L	23168	15,19	0·08									
			R 66, 28, 33·8		1+9	FO	9·8 10·2	S	O	04:37:30	10:00	8	0	1	CNT=69 MN=	
			α , ,													
			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 JUN Y 84 RAW TAPE D 4 M JUN

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	RACKG.	COMMENTS	OBSERV
GE252	NGC5236 80	Sp.gal 8.8	α 13, 34, 11.0 δ −29, 36, 38 R 87, 18, 01	H	SWP 23174 1+	114 20 F/O	−1.5 0.08 9.8	L	O	22:07:23	440:00 Total = 820m	3	1	9	Read at GSFC. MN=	WAMSTEKER /AWH.
"	NULL READ	"	α " , " , " δ " , " , " R " , " , "		LWP 3495 1+1					22:52					Will read following distorted (telepite cont) X SPLEP. MN=	" "
"	NGC5236 80	"	α " , " , " δ " , " , " R " , " , "	L	LWP 3497 1+4		−1.7 0.08 9.8	L	O	23:18:00	310:00	3	1	4	Serendipity C=140 B=69 exposure MN=	" "
"	" "	" "	α " , " , " δ " , " , " R " , " , "		FES 1541 1+2										MN=	" "
"	" "	" "	α " , " , " δ " , " , " R " , " , "		LWP 3496 1+3					04:30					G-1 cut-off read MN=	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 5 M JUN Y 84 RAW TAPE D 5 M JUN

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	RACKG.	COMMENTS	OBSERV
GET00	3C390.3 86	15	α 18, 45, 37.9 δ 79, 43, 06 R 333, 39, 16	L	SWP 23179 1+1	B.O.	−0.48 0.08 7.5	L	O	21:50:42	415:00	3	5	3	Redshifted λ_{SiII} = 154 nat. " CIV = 86 nat MN=	WAMSTEKER /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 M JUN Y 84 RAN TAPE D 6 M Jun

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 THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSRTN
GA197	HD120324 26	B2 3.47	α 13.46.35.7 δ -42, 13, 31 R 100, 41, 13.2	H	SWP 23186 1+1	1176 130 FU	+0.40 .08 6.5	L	O	21:29:07	0:24	5	0	0	787 MF miss. MN=	BARYLAK RG
"	HD 138749 26	B7 4.22	α 15, 30, 54.7 δ +31, 31, 36 R 23, 55, 23.0	H	SWP 23187 1+2	578 79 FU	-.90 .08 6.5	L	O	22:26:13	1:45	5	0	0	MN=	"
"	"	"	α . . δ " R . .	H	LWP 3509 1+3	571 70 FU	-1.26 .08 6.1	L	O	23:31:18	1:15	5	0	1	MN=	"
"	HD 200120 26	B1 4.55	α 20; 58.07.4 δ 47, 19, 30 R 307, 3, 19.9	H	SWP 23188 1+4	341 41 FU	-2.03 .08 6.5	L	O	23:12:10	1:30	5	0	0	MN=	"
"	"	"	α . . δ " R . .	H	LWP 3510 1+6	318 43 FU	-2.03 .08 6.1	L	O	27:45:02	1:30	5	0	1	8 Mn cut at C- MN=	"
"	HD 164284 26	B3 4.84	α 17.57.47.1 δ 4, 22, 11 R 332, 39, 18.7	H	SWP 23189 1+5	375 55 FU	-2.46 .08 6.1	L	O	00:45:17	1:30	5	0	0	MN=	"
GQ205	NGC 4151 84	Sey 13+14	α 12.8.4 δ 39, 41, 02 R 61, 51, 20.2	L	SWP 23190 1+7	166 27 SO	-2.13 .08 6.5	L	O	01:37:12	50:00	2	5	0	MN=	PENSTON RG
"	"	"	α . . δ " R . .	L	LWP 3511 1+8	165 29 SO	-1.95 .08 6.1	L	O	02:32:34	36:00	3	4	2	MN=	"

OBSERVATORY LOG

DATE D 6 M Jun Y 84 RAN TAPE D 6 M Jun

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 THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSRTN
GQ205	NGC 4151 "	"	α . . δ " R . .	L	SWP 23191 1+9	167/174 19/84 SO	-1.86 -1.69 .08 6.8	L S	O O	03:14:18 04:15:17	58:00 30:00	3 2	5 3	1	MN=	PENSTON RG
			α . . 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 Jun Y 84 RAW TAPE D 7 M Jun

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	OBSRTV
GQ058	1011+25	9.50	α 10 , 11 , 5.9	L	LWP		-1.35	L	O	21:45:02	412:00	3	0	4	-160,434, 286FO	GOUDHALEKAR
	85	15.5	δ 25 , 4 , 8.		3525		.08									
			R 73 , 39 , 11.4		1+2	B.O.	7.8								MN=	Rb
	NULL		α , ,		LWP										READ 61 for	
	99		δ , ,		3524										LWP 3525	
			R , ,		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 8 M JUN Y 84 RAW TAPE D 8 M JUN

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	OBSRTV
PHCAL	SAFETY		α , ,		SWR											TALAVERA
	READ		δ , ,		1178											AT
			R , ,		1+1										MN=	
	HD 93521	09V	α 10 , 45 , 33.6	L	SWP	5869	.31	L	O	22:27:22	0:03	4	0	0	C ≃ 140	
	12	6.9	δ 37 , 50 , 04		23209	16	.08								B ≃ 13	
			R 74 , 33 , 48.3		1+2	FO	5.5								MN=	
			α , ,	L	LWP	5934	-.06	L	O	22:31:22	0:03	4	0	1	C ≃ 155	
			δ , ,		3535	15	.08								B ≃ 30	
			R , ,		1+3	FO	5.1								R ≃ MN=	
	γ UMA	B3V	α 13 , 45 , 34	H	SWP	4683	-1.84	L	O	23:46:07	0:06	5	0	0	C ≃ 170	
	21	1.8	δ 49 , 33 , 44		23210	582	.08								B ≃ 25	
			R 45 , 24 , 17.3		1+4	FU	5.5								REFERENCE FROM LOW	DISP. SPECTRUM?
			α , ,												MN=	
			δ , ,	H	LWP	4708	-1.84	L	O	23:49:15	0:06	5	0	2	C ≃ 229	
			R , ,		3536	643	.08								B ≃ 40	
					1+5	FU	5.5								MN=	
	BD +75°325	sd0	α 8 , 04 , 43	L	SWP	597	-2.63	L	O	01:15:52	0:14	5	0	0	C ≃ 189	
	16	9.5	δ 75 , 6 , 48		23211	4	.08								B ≃ 12	
			R 129 , 49 , 48.9		1+6	FO	5.1								MN=	
			α , ,	L	LWP	610	-2.63	L		01:19:41	0:20	5	0		LAP CON ≃ IPO	
			δ , ,		3537	1	.08		O					1	B ≃ 30	
			R , ,		1+7	FO	5.5	S		01:23:12	3:00	8	0		SNP CON ≃ SATUR 2.5x	
															MN=	
	BD +75°325	sd0	α 21 , 48 , 56	L	SWP	246	-2.03	L	O	02:39:54	0:26	5	0	0	C ≃ 220	
	...16	10.5	δ 28 , 37 , 55		23212	1	.08								B ≃ 13	
			R 249 , 26 , 56.6		1+8	FO	5.1								MN=	

OBSERVATORY LOG

DATE D 8 M JUN Y 84 RAW TAPE D 8 M JUN

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. SEUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	BD+28°4211 16	sdO 10.5	α 21,48,56 δ 28,37,35 R 299,26,56.6	L	LWP 3538 1+9	248 0 FO	-2.03 .08 5.5	L	O	02:43:05	0:50	5	0	2	C≃194 B≃33 MN=	TALAVERA AT
			α , , δ , , R , ,	L	LWP 3539 1+10	226 1 FO	-.64 .08 5.8	L	O	03:36:10	3:20	5	0	2	TRAILED { R=0.10 Σ=1 C≃204 B≃31 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,	L	SWP 23213 1+11	263 2 FO	-.90 .08 5.5	L	O	04:14:52	1:17	5	0	0	TRAILED { R=0.26 Σ=1 C≃191 B≃13 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 JUN Y 84 RAW TAPE D 9 M JUN

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. SEUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GQ 256	NGC 3783 84	Sey. I 13.5	α 11,36,30.0 δ -37,28,0 R 744,52,57.7	L	SWP 23221 1+1	85 9 SO	-.49 .08 6.8	L	O	21:43:09	90:00	4	5	1	EMIS. CIV = 222 DN B≃25 C≃140 MN=	WAMSTEKER AT
			α , , δ , , R , ,	L	LWP 3540 1+2	83 17 SO	-2.58 .08 7.5	L	O	23:19:26	70:00	5	6	3	B≃42 EMIS HeII = 255 C≃215 MN=	
			α , , δ , , R , ,	L	SWP 23222 1+3	80 10 SO	-3.37 .08 8.5	L	O	00:35:50	125:00	4	6	1	CIV = 255 (4 PIXELS) C≃150 B≃30 MN=	
			α , , δ , , R , ,	L	LWP 3541 1+4	84 17 SO	-1.71 .08 7.5	L	O	02:44:52 03:46:47	55:00 55:00	5	5	3	RP(-2,-22) RP(-30,-104) AGN 2 PIX. EXTR. 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 JUN Y 84 RAW TAPE D 10 M JUN

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. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERV
GA 146	HD 78316 36	A_p 5.2	α 9, 5, 2.4 δ 10, 52, 14 R 69, 26, 30.2	H	LWP 3552 1+1	21302 57 FO	-1.35 .08 7.5	L	0	21:58:19	5:00	6	0	1	MN=	BARYCAK AT
GA 197	HD 138749 26	B5e 4.2	α 15, 30, 51.7 δ 31, 31, 36 R 27, 50, 26.8	H	SWP 23232 1+2	564 79 PU	-2.14 .08 7.2	L	0	22:57:07	1:48	5	0	0	MN=	
			α , , δ , , R , ,	H	LWP 3553 1+3	560 88 FU	-2.14 .08 7.5	L	0	23:01:33	1:15	5	0	1	MN=	
	HD 164284 26	B3 4.8	α 17, 57, 47.1 δ 4, 22, 11 R 339, 46, 2.0	H	SWP 23233 1+4	364 73 PU	-2.14 .08 7.2	L	0	23:42:45	1:30	5	0	0	MN=	
	HD 162732 26	B7e 6.4	α 17, 48, 44.7 δ 48, 24, 25 R 351, 58, 57.4	L	SWP 23234 1+5	6755 14 FO	-2.04 .08 7.5	L	0	01:01:08	0:18	5	0	0	MN=	
			α , , δ , , R , ,	L	LWP 3554 1+6	6667 15 FO	-2.04 .08 7.2	L	0	01:01:36	0:13	5	0	0	MN=	
GA 146	HD 193237 23	B1.5I 4.9	α 20, 15, 56.5 δ 37, 52, 36 R 317, 23, 56.4	H	SWP 23235 1+7	26442 95 FO	-1.61 .08 7.5	L	0	02:00:23	25:00	5	6	0	MN=	
			α , , δ , , R , ,	H	LWP 3555 1+8	26586 79 FO	-1.26 .08 7.2	L	0	02:32:30	5:00	5	6	1	MN=	

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DATE D 10 M JUN Y 84 RAW TAPE D 10 M JUN

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. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERV
GA 146	HD 193237 23	B1.5I 4.9	α 20, 15, 56.5 δ 37, 52, 36 R 317, 23, 56.4	L	SWP 23236 1+9	26362 98 FO	-1.69 .08 7.5	L	0	02:58:01	0:18	5	0	0	MN=	BARYCAK AT
GA 197	HD 200120 26	B1e 4.6	α 20, 58, 7.4 δ 47, 19, 30 R 310, 31, 53.0	H	SWP 23237 1+10	322 44 FU	-3.26 .08 7.5	L	0	04:06:41	1:30	5	0	0	MN=	
			α , , δ , , R , ,	H	LWP 3556 1+11	325 54 PU	-2.83 .08 7.2	L	0	04:10:44	1:30	6	0	2	MN=	
			α , , δ , , R , ,	L	SWP 23238 1+12	331 44 PU	-1.96 .08 7.5	L	0	04:39:37	0:01	5	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 11 M JUN Y 84 RAW TAPE D 11 M JUN

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 BRG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	HD221650 57	Pec. 9.6	α 23, 31, 15 δ 48, 32, 31 R 283, 40, 48.8	H	SWP 23246 1+12	386 2 FO	-.49 .08 8.8	L	O	21:53:34	335:00	3	7	3	CIV, HeII, .. SiIV. MN=	TALAVERA AT
	NULL 1706E 99	—	α , , δ , , R , ,	—	LWR 17422 1+1	—	—	-	-	22:23:20					HIGH GAIN READ THIS LWR BASELINE SEQUENCE WITH VHC AT -4.5 kV. MN=	
	60% CALUV 99		α , , δ , , R , ,		LWR 17423 1+2		-1.55 .08 11.8			22:52:46	1:53				TUVF = 39 MN= 497	
	20% CALUV 99		α , , δ , , R , ,		LWR 17424 1+3		-1.55 .08 12.5			23:26:17	0:38				TUVF = 37 MN=	
	120% CALUV 99		α , , δ , , R , ,		LWR 17425 1+4		-1.89 .08 13.2			23:55:12	3:46				TUVF = 41 MN=	
	60% CALUV 99		α , , δ , , R , ,		LWR 17426 1+5		-2.17 .08 13.5			00:27:24	1:53				TUVF = 39 MN=	
	100% TPLOOD 99		α , , δ , , R , ,		LWR 17427 1+6		-1.30 .08 13.8			00:53:27	0:22				MN=	
	160% CALUV 99		α , , δ , , R , ,		LWR 17428 1+7		-.43 .08 14.2			01:23:57	5:01				TUVF = 42 MN=	

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DATE D 11 M JUN Y 84 RAW TAPE D 11 M JUN

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 BRG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	220% CALUV 99		α , , δ , , R , ,		LWR 17429 1+8		-1.15 .08 14.2			01:57:12	6:54				MN= .511	TALAVERA AT
	NULL 1706E 99		α , , δ , , R , ,		LWR 17430 1+16					02:16:45					WITHOUT PREP MN=	
	NULL 1706E 99		α , , δ , , R , ,		LWR 17431 1+9					02:48:00					HIGH GAIN READ MN=	
	NULL 1706E 99		α , , δ , , R , ,		LWR 17432 1+10					03:08:00					MN=	
	NULL 1706E 99		α , , δ , , R , ,		LWP 3559 1+11					03:36:05					MN=	
	HD221650 57	Pec. 9.6	α 23, 31, 15 δ 48, 32, 31 R 283, 40, 48.8	L	SWP 23247 1+13	379 1 FO	-2.07 .08 10.2	L	O	04:25:54	22:00	4	7	0	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 12 M JUN Y 84 RAW TAPE D 12 M JUN

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	NP. SHOT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERV
GH148	NGC1984 83	G.C. 9.83	α 5, 27, 54 δ -69, 08, 00 R 1, 3, 21.6	L	SWP 23251 1+1	304 9 FO	-1.41 0.08 11.5	L	0	214656	30:00	8	0	2	good λ<1716 MN=	CASSATELLA AC
"			α , , δ , , R , ,	L	LWP 3563 1+2	305 6 FO	-1.40 0.08 10.8	L	0	222308	16:00	8	0	2	good λ>3025 λ<2400 (DN ~200) MN=	
			α , , δ , , R , ,	L	SWP 23252 1+3	302 6 FO	-1.48 0.08 11.2	L	0	225242	7:00	5	0	1	C=200 B=17 MN=	
			α , , δ , , R , ,	L	LWP 3564 1+4	304 9 FO	-1.47 0.08 11.2	L	0	232724	4:30	5	0	1	C=187 B=37 extended Central object? MN=	
"	NGC 1994 83	GC 9.72	α 5, 28, 36 δ -69 9, 0 R 0, 58, 13.	L	SWP 23253 1+5	211 — FO	-1.12 0.08 11.2	L	0	002234	20:00	7	0	2	Extended well exposed ~1500 MN=	
			α , , δ , , R , ,	L	LWP 3565 1+6	204 18 FO	-1.12 0.08 11.2	L	0	010030	13:00	7	0	2	Extended good λ<2400 λ>3030 MN=	
			α , , δ , , R , ,	L	SWP 23254 1+7	208 16 FO	-0.79 0.08 11.2	L	0	014619	9:00	5	0	2	Extended C=210 B=70 MN=	
			α , , δ , , R , ,	L	LWP 3566 1+8	211 14 FO	-1.22 0.08 11.2	L	0	021840	4:30	5	0	2	C=200 B=35 MN=	

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DATE D 12 M JUN Y 84 RAW TAPE D 12 M JUN

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	NP. SHOT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERV
GH148	NGC1983 83	GC 9.94	α 5, 28, 3 δ -69, 1, 30 R 0, 50, 31	L	SWP 23255 1+9	217 46 OF	-1.32 0.08 10.8	L	0	033401	7:00	3	0	2	C=100 B=40 MN=	
			α , , δ , , R , ,	L	LWP 3567 1+10	224 — DF	-0.98 0.08 10.8	L	0	041955	13:00	7	0	2	about 20 pix radius MN=	
			α , , δ , , R , ,	L	SWP 23256 1+11	213 56 OF	-1.41 0.08 10.8	L	0	04:40:03	7:00	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 13 M JUN Y 84 RAW TAPE D 13 M JUN

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 THOA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERV
GA107	HD88195 30	A1 5.9	α 10,07,38.4 δ −8, 9, 43 R 63, 16, 24.4	L	LWP 3570 1+1	13771 1/83 OF	−1.69 0.08 8.5	L S	O	212928 213628	0:33 0:15	4 4	0 0	2	TRAIL R=0.6 I=1 C(SAP)=160 C(LAP)=150 MN= B=39	HASSALL AC
"	"	"	α , , δ , , R , ,	L	SWP 23258 1+2	13013 1/590 OF	−1.25 0.08 9.2	L S	O	220752 221714	1:40 0:40	4 4	0 0	1	TRAIL R=0.2 I=1 C(LAP)=153 C(SAP)=154 D=24 MN=	
"	HD 75309 20	B? 7.85	α 8,45.46.6 δ −46, 15, 59 R 44, 47, 34.1	L	LWP 3571 1+3	2478 7/176 OF	−1.60 0.08 9.5	L S	O	230924 231537	0:20 3:00	5 8	0	3	C(LAP)=230 B=33 MN=	
"	"		α , , δ , , R , ,	L	SWP 23259 1+4	2503 5/ OF	−1.60 0.08 9.8	L S	O	234919 235408	0:35 0:35	5 5	0 0	0	C=229 (LAP) C=175 (SAP) B=17 MN=	
	HD627114 25	B7 7.3	α 7, 41, 19.9 δ −56, 1, 36 R 30,29,40.5	L	LWP 3572 1+6	4183 10 OF	−1.56 0.08 9.8	L	O	003440	0:15	5	0	3	C=205 B=37 MN=	
			α , , δ , , R , ,	L	SWP 23260 1+5	4192 8 OF	−1.56 0.01 9.8	L	O	003756	0:30	3	0	0	C=190 B=19 MN=	
GC230	HD 352 47	K0III 6.07	α 00.05,38.4 δ −2, 43, 34 R 293, 52, 23	L	LWP 3573 1+11	9391 26 OF	−1.90 0.08 10.2	L	O	014457	6:00	5	6	2	C=200 B=36 MN=	SCHRIJVER AC
			α , , δ , , R , ,	L	SWP 23261 1+8	9179 37 OF	−1.47 0.08 9.8	L	O	020656	70:00	5	3	2	C=185 B=29 OI 109 MN=	"

OBSERVATORY LOG

DATE D 13 M JUN Y 84 RAW TAPE D 13 M JUN

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 THOA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERV
GC230	HD352 47	K0III 6.07	α 00,05,38.4 δ −2, 43, 34 R 293, 52, 23	L	LWP 3574 1+9	9091 20 FO	−1.47 0.08 10.2	L S	O	032514	18:00 ~~6:00~~	8	0	2	good below 2000A MN=	SCHRIJVER AC
"	"	"	α , , δ , , R , ,	H	LWP 3575 1+10	9480 25 FO	−1.44 0.08 10.5	L	O	041705	30100	2	3	2	HgII 140 B=40 MN=	
			α , , 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 JUN Y 84 RAW TAPE D 14 M JUN

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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
4M148	L 56 83	9C 11.44	α 0, 55, 49.0 δ -72, 32, 46 R 296,49, 17.0	L	SWP 23264 1+1	234 26 50	-1.87 0.08 9.5	L	0	213222	18:00	3	0	0	GDE(-483 -37) 124 50 EXTENDED C = 110 B = 16 MN=	CACIATELLA
"			α , , δ , , R , ,	L	LWP 3583 1+2	229 14 50	-1.53 0.08 10.2	L	0	215700	25:00	5	0	1	GDE(-682 ,106) 119 50 C = 221 B = 40 c ~ 90 around 2100 MN=	
	NGC 346 83	9C 10.34	α 0, 57, 24 δ -72, 26, 48 R 297, 7, 51.4	L	SWP 23265 1+3	198 246 50	-1.62 0.08 9.8	L	0	230443	10:00	3	0	2	GDE(-133,-464) 120 50 two objects in LAP C = 91 B = 17 MN=	
			α , , δ , , R , ,	L	LWP 3584 1+4	194 283 50	-1.65 0.08 10.2	L	0	232117	20:00	5	0	2	three spectra in LAP C = 219 B = 40 MN=	
	NGC 602 83	9C 12.64	α 1, 28, 19 δ -73, 49, 6 R 303, 51, 14.7	L	SWP 23266 1+5	63 9 50	-1.39 0.08 9.8	L	0	001036	30:00	4	0	1	GDE(949, -557) 87, 50 two objects in LAP C = 165 B = 18 MN=	
			α , , δ , , R , ,	L	LWP 3585 1+6	69 13 50	-1.87 0.08 10.2	L	0	004653	30:00	4	0	2	C = 175 B = 42 two spectra - images toward LAP MN=	
—	NGC 1967 83	9C 10.81	α 5, 27, 3 δ -69, 8, 30 R 358, 46, 49.2	L	SWP 23267 1+7	321 127 50	-2.01 0.08 9.8	L	0	014812	20:00	5	0	1	GDE(785, -795) 226 50 C = 190 B = 20 slightly extended MN=	
			α , , δ , , R , ,	L	LWP 3586 1+8	319 64 50	-2.01 0.08 10.2	L	0	021652	15:00	5	0	2	C = 203 B = 39 slightly extended MN=	

OBSERVATORY LOG

DATE D 14 M JUN Y 84 RAW TAPE D 14 M JUN

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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
4M148	SL 362 83	9C 12.29	α 5, 17, 59 δ -69, 37, 0 R 356, 38, 29.0	L	SWP 23268 1+9	161 25 30	-1.57 0.08 9.8	L	0	030057	30:00	4	0	1	double spectrum C = 130 B = 20 MN=	
			α , , δ , , R , ,	L	LWP 3587 1+10	168 69 50	-1.57 0.08 9.8	L	0	033744	21:00	4	0	1	MN=	
	SL 360 83	9C 10.3	α 5, 17, 49 δ -69, 13, 26 R 356, 32, 59.9	L	SWP 23269 1+11	297 18 FO	-1.14 0.08 9.8	L	0	041847	15:00	8	0	2	3x overexp. extended MN=	
			α , , 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 84 RAW TAPE D 15 M JUN

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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GH180	SK-69°210 23	B0.5I 12.59	α 5,36,22.0 δ -69,03,52 R 0,8,13.1	L	LWR 17442 1+4	137 14 SO	-1.44 0.08 12.2	L	O	21 44 29	100:00	5	0	1	m_{PES} = 12.75 1 p'x nest near 2800Å C=80 B~25 near 2000Å MN=	PREVOT AC
			α , , δ , , R , ,	L	SWP 23270 1+3	121 10 SO	-1.62 0.08 10.8	L	O	23 32 54 0009 00	35:00 278:00 313:00	5	0	2	m_{PES} = 12.89 PES = 12.2 (5,0) C(1200)=3.09 B=43 C(1300)=1.22 MN=	
-	NULL		α , , δ , , R , ,		LWP 3597 1+2										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=	

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OBSERVATORY LOG

DATE D 16 M JUN Y 84 RAW TAPE D 16 M JUN

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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	μ UMa 21	B3 IV 1.8	α 13,45,34 δ 49,33,44 R 51,35,05	H	LWR 17443 1+1	4507 600 F/U.	-1.2 0.08 11.8	L	O	21:35:12	00:06	4	0	2	C=178 (Gross) B=34 no 4 min warm up - no mic MN=	Harris
"	HD 93521 12	O9 IV 7.0	α 10,45,34 δ 37,50,04 R 78,33,40	L	LWR 17444 1+2	5421 12/400 F/O	-1.3 0.08 13.2	L S	O	22:23:40 22:27:40	00:03 00:12	4 6	0 0	2	C=159, B=26 C=255, B=23 MN=433	"
"	BD +75 325 16	O5 V 9.5	α 08,04,43 δ 75,06,48 R 138,38,22	L	SWP 23272 1+3	600 2 F/O	-1.6 0.08 9.2	L	O	23:17:27	00:14	5	0	0	C=178 B=16 MN=	"
"	" "	" "	α " " " δ " " " R " " "	L	LWR 17445 1+4	600 1 F/O	-1.6 0.08 13.8	L	O	23:21:08	00:24	4	0	2	C=178 B=22 MN=495	"
"	BD +28 4211 16	O5 V 10.5	α 21,48,56 δ 28,37,35 R 304,17,36	L	SWP 23273 1+5	250 2 F/O	-1.3 0.08 9.5	L	O	00:36:55	00:26	5	0	0	C=209 B=15 MN=	"
"	" "	" "	α " " " δ " " " R " " "	L	LWR 17446 1+6	250 2 F/O	-1.3 0.08 14.2	L	O	00:40:05	01:00	5	0	2	C=173 B=22 MN=493	"
"	" "	" "	α " " " δ " " " R " " "	L	LWR 17447 1+7	278 2 F/O	-0.9 0.08 14.5	L	O	01:24:45	03:20	5	0	2	Trail R=0.1, I=1 C=188 B=35 MN=497	"
"	" "	" "	α " " " δ " " " R " " "	L	LWR 17448 1+8	255 1 F/O	-1.0 0.08 14.5	L	O	02:03:00	08:20	7	0	2	Trail R=0.04 I=1 C>255 B=26 MN=561	"

OBSERVATORY LOG

DATE D 16 M JUN Y 84 RAW TAPE D 16 M JUN

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.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	NULL 99		α 21, 48, 56 δ 28, 37, 35 R 304, 17, 36		LWP 3603 1+9		6.1			02:36:00					LWP switch-on null. MN=	Harris
"	BD+28 4211 16	SD0 10.5	α " " " δ " " " R " " "	L	LWP 3604 1+10	273 0 F/0	−0.7 0.08 8.2	L	O	03:15:20	03:20	5	0	3	Trail R=0.1, I=1 C=198, B=34 MN=	"
"	" "	" "	α " " " δ " " " R " " "	L	LWP 3605 1+11	250 1 F/0	−1.1 0.08 9.2	L	O	03:55:30	08:20	7	0	3	Trail R=0.04, I=1. C=>255, B=36 MN=	"
			α , , 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 JUN Y 84 RAW TAPE D 17 M JUN

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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GM180	SK−69 108 24	B5I 12.1	α 05, 20, 19 δ −69, 55, 27 R 354, 26, 54	L	SWP 23282 1+1	193 6 S/O	−1.6 0.08 9.8	L	O	21:49:19	240:00	5	1	2	C=244 B=45 MN=	PREVOT/AWH.
"	SK−69 43 23	B1I 11.9	α 04, 56, 26 δ −69, 20, 17 R 348, 52, 22	L	LWP 3612 1+2	228 11 S/O	−1.8 0.08 9.5	L	O	02:09:47	11:00	6	1	3	C=~255 B=32 MN=	"
"	SK−69 270 24	B3I 11.3	α 05, 41, 40 δ −69, 06, 40 R 359, 13, 32	L	SWP 23283 1+	399 9 S/O	−1.8 0.08 10.5	L	O	02:54:37	112:00	7	1	1	C=sat B=29 MN=	"
			α , , 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 jun Y 84 RAW TAPE D 18 M jun

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	OBSERV
GE071	NGC1705 (NUCLEUS) 82	ERR. GALAXY 14	α 04,53,06.0 δ -53,26,26 R347,01,59.8	L	LWP 3621 1+1	BO at proj. 51 50	-1.96 .08 9.8	L	O	22:06:57	180:00	7	1	4	B=58 gde -729 C=2x -659 3550 MN=	CACCIARI/CG
"	NGC1705 (DISK) " 82	"	α , , δ , 4 , R , ,	L	SWP 23285 1+2	BO	-1.76 .08 9.8	L	O	01:10:36	217:00	3	1	1	B=40 gde -541 C=65 -833 391 50 MN=	"
			α , , 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 jun Y 84 RAW TAPE D 19 M jun

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	OBSERV
GE071	NGC1705 (DISK) 82	IRR. GALAXY 14.	α 04,53,06.0 δ -53,26,36. R346,04,11.8	L	LWP 3623 1+2	BO ~50 50	-2.66 .08 7.8	L	O	22:08:48	230:00	3	1	4	B=60 gde -725 C=95 -708 404 50 MN=	CACCIARI/CG
"	NULL 99	"	α 04,53,06.0 δ -53,26,36: R , " ,		LWP 3622 1+1										READ G1 began READ of LWP 3623. MN=	"
"	NGC1705 (NUCLEUS) 82	IRR. GALAXY 14	α 04,53,060 δ -53,26,26: R346,04,11.8.	L	LWP 3624 1+3	BO	-1.16 .08 10.2	L	O	02:50:53	117:0	5	0	4	B=45 gde -716 C=252 -671 388 50 MN=	"
			α , , 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 jun Y 84 RAW TAPE D 20 M jun

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. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FW. LINES	BACKG.	COMMENTS	OBSERV
FI 091	AO538-66 59	NB 14	α 5 ,35 ,42.8 δ -66 ,53 ,40 R 355 ,10 ,40.1	L	SWP 23292 1+1	BO	-.21 .08 10.2	L	O	22:11:13	85:00	5	1	1	B=15 C=204 MN= gde -285 -832 138 FO	HOWARTH / CG +JC
11	11	11	α , , , δ , 11 , R , ,	L	LWP 3634 1+2	BO	-.34 .08 9.8	L	O	23:39:56	60.00	4	1	4	B=41 C=171 MN= gde -483 -745 143 FO	11
GC142	HD142560 58	T Tauri 11.4	α 15 ,53 ,24.0 δ -37 ,40 ,58 R 109 ,24 ,4.2	L	LWP 3635 1+3	158 2 FO	0.35 .08 10.8	L S	O	01:46:03 02:05:18	13:00 13:00	5 4	7 6	3	C=221 B=39 C=150 MN= gde LA -375 323 61 50	GIOVANNELLI / CG +JC
11	11	11	α , , , δ , 11 , R , ,	L	SWP 23293 1+4	171 2 FO	0.60 .08 11.5	L	O	02:26:38	140:00	4	5	1	E=211 B=35 C=146 MN= gde -779 180 19150	11
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

21-JUN-84

comment image SWP 23300 : after the BO, the guide star was found with ~~dY~~ dY ≈ -20 ,
after 9 min of expo, we redid the BO,
finding same error.
⇒ the spectrum is shifted to the edge of aperture and is double.
↳ same for LWP 3630

OBSERVATORY LOG

DATE D 21 M jun Y 84 RAW TAPE D 21 M jun

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 TNDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GA067	HD 128220 16	sdO 8.5	α 14,32,56.6 δ 19,25,58 R 52,03,12.4	H	SWP 23297 1+1	13 14 2 FO	-1.57 .08 10.5	L	O	21:37:48	40:00	5	0	1	C=210 B=40 MN= gda -52.8 409 1166 FO	HOWARTH / CG
"	"	"	α , , δ , , R , ,	H	SWP 23298 1+2	"	-1.41 .08 10.8	L	O	22:39:12	40:00	5	0	1	C=210 B=40 MN=	" "
"	HZ Her 59	BVar Xmagbin 13	α 16,56,02.0 δ 35,25,05 R 17,07,41.9	L	SWP 23299 1+3	24 1 80	-2.00 .08 11.2	L	O	00:08:42	50:00	4	5	1	E=165 B=15 C=150 B=20 MN= gda 1000 293 370 FO	"
"	AB 538-66 59	BVar Xmagbin 14.5	α 05,35,42.8 δ -66,53,40.4 R 354,03,00.6	L	SWP 23300 1+4	BO	-1.25 .08 NS	L	O	02:11:45	80:00 =9+71	3	0	1	BO mispointed by N 87:20 C=88 B=25 MN= gda -268 -308 146 FO 2 spectra position mpld.	" see below
"	"	"	α , , δ , , R , ,		LWP 3638 1+5	BO	-1.78 .08 9.5	L	O	03:56:19	52:00	3	0	3	C=88 B=40 MN= gda -466 -768 141 FO	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 22 M JUN Y 84 RAW TAPE D 22 M JUN

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 BRG THDA	APERTURE	AP. SELT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSRTN
GE 149	SL 360 83	GE. CE. 10.3	α 5, 18, 33.5 δ -69, 16, 0 R 349, 22, 33	L	SWP 23312 1+1	293 87 FO	-1.39 0.08 8.5	L	O	215253	3:00	5	0	1	GDE(138,-102) 149 FO C=200 B=16 MN=	CASSATELLA
	"	"	α , , δ , , R , ,	L	LWP 3642 1+2	290 14 FO	-1.39 0.08 8.2	L	O	220130	3:00	5	0	1	(1121,-910) 157 FO C=240 B=37 MN=	
			α , , δ , , R , ,	H	SWP 23313 1+3	288 22 FO	-1.39 0.08 8.5	L	O	223445	180:00	4	0	3	C(1800)=190 B=67 C(1360)=180 B=60 MN=	
			α , , δ , , R , ,	H	LWP 3644 1+	284 28 FO	-1.4 0.08 9.2	L	O	014048	180:00	5	0	3	C=230 B=70 MN=	
	NULL 99		α 00, 00, 00 δ 00, 00, 00 R , ,		LWP 3643 1+4										READ G 1 cutoff 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 JUN Y 84 RAW TAPE D 23 M JUN

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 BRG THDA	APERTURE	AP. SELT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSRTN
GA 093	JL 9 16	S20 13.2	α 19, 02, 24 δ -72, 35, 00 R 196, 06, 32	L	LWP 3645 1+1	86 0 S/O	-1.8 0.08 8.2	L	O	21:39:37	12:00	4	0	3	C=187 gross B=35 MN=	HEBER / AWH
"	"	"	α " , " , " δ " , " , " R " , " , "	L	SWP 23323 1+2	75 2 S/O	-1.4 0.08 8.8	L	O	22:03:13	9:00	5	0	1	C=201 B=17 MN=	"
GA 101	PHL 1745 38	B4 12.1	α 21, 44, 12 δ -20, 22, 00 R 283, 56, 54	L	LWP 3646 1+3	217 3 S/O	-1.6 0.08 8.5	L	O	23:31:54	13:00	4	0	3	C=183 B=33 MN=	"
"	"	"	α " , " , " δ " , " , " R " , " , "	L	SWP 23324 1+4	51 1 F/O	-1.6 0.08 8.8	L	O	23:50:15	22:00	4	0	1	C=153 B=18 MN=	"
"	PHL 227 38	B3 13.5	α 22, 17, 53.8 δ +01, 45, 46 R 296, 51, 25	L	LWP 3647 1+5	61 0 S/O	-1.8 0.08 8.8	L	O	00:56:27	30:00	4	0	3	C=166 B=36 MN=	"
"	"	"	α " , " , " δ " , " , " R " , " , "	L	SWP 23325 1+6	62 3 S/O	-2.7 0.08 8.8	L	O	01:32:21	60:00	4	0	1	C=171 B=23 MN=	"
"	SB 463 38	B3 12.2	α 01, 06, 42 δ -33, 24, 00 R 297, 06, 52	L	LWP 3648 1+7	213 0 S/O	-1.5 0.08 8.5	L	O	03:16:00	12:00	4	0	3	C=187 B=33 MN=	"
"	"	"	α " , " , " δ " , " , " R " , " , "	L	SWP 23326 1+9	205 3 S/O	-1.8 0.08 8.8	L	O	03:38:34	19:00	5	0	0	C=173 B=19 MN=	

OBSERVATORY LOG

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

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.o	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	ENL. LINES	BACKG.	COMMENTS	OBSERV
GA101	SB 253 38	B2 10.9	α 0,35,54 δ −15,17,0 R294,13,51	L	LWP 3649 1+8	165 0 F/0	−1.4 0.08 8.5	L	O	04:35:31	3:00	5	0	3	C=200 B=32 MN=	HEBER/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 24 M JUN Y 84 RAW TAPE D 24 M JUN

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.o	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	ENL. LINES	BACKG.	COMMENTS	OBSERV
GA095	K121 in NGC 7789 22	B8V 11.6	α 23,55,53 δ +56,25,44 R286,51,11	L	LWP 3650 1+1	317 3 S/0	−1.1 0.08 8.5	L	O	21:43:08	27:00	4	0	3	C=190 gross B=36 MN=	HEBER/AWH
〃	〃 〃	〃 〃	α 〃 , 〃 , 〃 δ 〃 , 〃 , 〃 R 〃 , 〃 , 〃	L	SWP 23337 1+2	81 2 F/0	−0.6 0.08 9.2	L	O	22:16:34	90:00	4	0	1	C=170 B=26 MN=	〃
〃	K677 in NGC 7789 22	B8V 11.2	α 23,54,53 δ +56,21,19 R286,51,11	L	LWP 3651 1+3	116 3 F/0	−1.6 0.08 9.2	L	O	00:06:30	23:00	4	0	3	C=175 B=35 MN=	〃
〃	〃 〃	〃 〃	α 〃 , 〃 , 〃 δ 〃 , 〃 , 〃 R 〃 , 〃 , 〃	L	SWP 23338 1+4	119 2 F/0	−1.9 0.08 10.2	L	O	00:36:01	80:00	4	0	1	C=163 B=26 MN=	〃
〃	K282 in NGC 7789 22	B9.5V 12.0	α 23,54,17 δ +56,21,37 R287,22,09	L	LWP 3652 1+5	195 1 S/0	−1.9 0.08 9.8	L	O	02:13:24	120:00 140:00 AWH	5	0	4	C=250 B=48 MN=	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 25 M Jun Y 84 RAW TAPE D 25 M Jun

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. SEET.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GA101	JL 36 38	B2 12.9	α 19, 56, 18 δ -72, 6, 0 R209, 47, 1.7	L	LWP 3654 1+1	94 2 50	-1.31 .08 9.2	L	0	21:34:29	15:00	4	0	1	Bgd 22 C 185 loc bgd 40 MN=	HEBER RG
GA093	SB 58 16	sd0 12.9	α 0, 7, 30 δ -26, 30, 0 R270, 4, 36.7	L	SWP 23345 1+2	108 2 50	-1.87 .08 9.5	L	0	22:44:18	363:00	4	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 D 26 M Jun Y 84 RAW TAPE D 26 M Jun

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. SEET.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GA101	PHL 25 38	HB 12.2	α 21, 29, 12 δ -17, 32, 00 R285, 44, 28	L	SWP 23352 1+1	190 3 ov/s	-1.96 .08 9.5	L	0	21:43:32	18:00	5	0	1	C=160 at 1850 C=205 at 1300 (Net) MN=	Heber JC + RB
	PHL 25 38	HB 12.2	α 21, 29, 12 δ -17, 32, 00 R285, 44, 28	L	LWP 3658 1+2	194 10 ov/s	-1.57 .08 9.2	L	0	22:10:06	12:00	5	0	1	C=182 (Net) B=36 at 2800Å MN=	
	PHL 460 38	HB 12.2	α 23, 17, 00 δ -22, 36, 00 R286, 52, 40.4	L	SWP 23353 1+3	127 4 ov/s	-1.28 .08 9.5	L	0	23:16:33	33:00	5	0	1	Net = 181 at 1850 Net = 225 at 1300 MN=	
	PHL 460 38	HB 12.2	α , , δ , , R , ,	L	LWP 3659 1+4	196 0 ov/s	-.55 .08 9.2	L	0	23:54:40	16:00	5	0	2	Net = 163 at 1800 MN=	
	SB 357 38	HB 12.5	α 00, 50, 36 δ -36, 38, 00 R292, 57, 46.2	L	SWP 23354 1+5	136 3 ov/s	-.61 .08 9.5	L	0	00:48:55	19:00	4	0	1	Net = 100 at 1300 MN=	
	SB 357 38	HB 12.5	α , , δ , , R , ,	L	LWP 3660 1+6	152 5 ov/s	-1.49 .08 9.5	L	0	01:23:15	13:00	4	0	2	MN=	
	PHL 346 38	HB 11.5	α 22, 34, 54 δ -18, 56, 00 R286, 20, 57.8	L	SWP 23355 1+7	372 1 s/o	-2.01 .08 9.2	L	0	02:17:17	5:00	4	0	0	C=140 loc bgd=18 MN=	
	"	"	α , , δ , " , R , ,	L	LWP 3661 1+9	369 3 s/o	-2.99 .08 9.2	L	0	02:50:58	4:00	4	0	2	C~170 loc bg 40 MN=	

OBSERVATORY LOG

DATE D 26 M Jun Y 84 RAW TAPE D 26 M Jun

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 ENG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	ENG LINES	BACKG.	COMMENTS	OBSERV
GA101	SB 253 38	B3 10.89	α 0, 35, 54 δ -15, 17, 00 R 293, 22, 44.1	L	SWP 23356 1+8	165 2 FO	-1.20 .08 9.2	L	0	03:47:53	3:30	5	0	0	C~180 Loc bg ~18 MN=	Heber / RG
	JL 36 38	82 13.0	α 19, 56, 18 δ -72, 6, 00 R 208, 12, 7.3	L	SWP 23357 1+10	93 3 50	-1.21 .08 9.2	L	0	04:37:36	60:0	3	0	0	C~110 Loc bg 14 MN=	
			α , , 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 Jun Y 84 RAW TAPE D 27 M Jun

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 ENG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	ENG LINES	BACKG.	COMMENTS	OBSERV
GA095	JL9 16	sd0 13.2	α 19, 02, 24 δ -72, 35, 0 R 191, 7, 23.4	L	LWP 3666 1+1	66 3 50	-1.22 .08 9.8	L	0	21:40:21	15:00	5	0	3	C~220, Loc bg ~40 MN=	HEBER / RG
	"	"	α , , δ , , R , ,	H	SWP 23364 1+2	68 1 50	-1.25 .08 9.8	L	0	22:14:19	393:00	3	0	3	B=45 C=170 (Loc. bg ×100) MN=	
			α , , 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 JUNE Y 84 RAW TAPE D 28 M JUN

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	OBSERV
GAØ58	Longmore 8 70	PN (star) 12.5	α 13, 22, 45.1 δ -37, 20, 40 R 78, 13, 41.4	H	SWP 23368 1+1	105 5 OV/S	-2.15 .08 7.8	L	O	22:05:59	401:00	3	0	3	C-95DN MN=	HUSFELD JC/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 29 M JUN Y 84 RAW TAPE D 29 M JUN

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	OBSERV
GØØ56	NGC 7293	13.3 Okm	α 22, 26, 54.8 δ -21, 5, 41 R 283, 54, 53	H	SWP 22369 1+	70 4 5.0V	-2.04 .08 5.1	L	O	22/33/02	444/0				MN=	HUMELA WW
4	NGC7293 71	0.5km 13.3	α 22, 26, 54.8 δ -21, 5, 41 R 283, 54, 53		FES 1547 1+2										MN=	" 4
			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 30 M Jan Y 84 RAW TAPE D 30 M Jan

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT 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.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
gc137	HD 20301 41	F7III 7.0	α 3, 12, 42 δ −35, 44, 34 R 312, 21, 14	L L	LWP 3685 1+1	5978 1315/2 F.0	−1.61 .08 6.1	S L	0 0	23/12/05 22/22/00	5/00 15/00	5 7	1 1	2 2	MN=	Sanner. W.W.
"	"	"	α , , δ , , R , ,	L	SWP 23372 1+2	5891 34 F.0	−1.87 .08 5.8	L	0	22/41/15	15/00	2	0	1	stopped for earth occultation MN=	" "
"	HR 180 45	g8III 4.6	α 00, 28, 58.0 δ −46, 21, 33 R 286, 21, 33	H	LWP 3686 1+	303 50 F.U	−1.69 .08 6.5	L	0	23/54/23	50/0	5	3	2	MN=	" "
"	HD 20301 41	F7III 7.0	α 3, 12, 42 δ −35, 44, 34 R 312, 13, 49	L	SWP 23373 1+	5153 44 F.0	−1.17 .08 6.1	L	0	01/15/43	172/0	5	1	1	Net cnts = 140 a 1800Å. 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 July Y 84 RAW TAPE D 1 M Jul

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT 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.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA056	ABELL 36 70	03 11.5	α 13, 37, 57.8 δ −19, 37, 33 R 71, 44, 26	L	LWP 3692 1+1	381 3 5.0	−1.03 .08 8.5	L	0	20:03:24	5:00	7	0	1	Gde −220, −281 C≈1.3× (137 p/x) B=30 MN=	HUSFELD RLL
	"	"	α , , δ , ", R , ,	H	LWP 3693 1+2	390 50	−1.08 .08 8.5	L	0	20:45:42	315:00	7	0	3	Gde −266, −862 C≈1.2× (200 p/x) Loc B≈100 MN=	
	"	"	α , , δ , , R , ,	L	LWP 3694 1+3	414 5 50	−1.11 .08 8.8	L	0	02:34:20	3:30	5	0	2	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=	

OBSERVATORY LOG

DATE D 2 M JUL Y 84 RAW TAPE D 2 M JUL

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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA056	NGC7009 71	03 11.5	α 21,01;27.6 δ -11, 33, 54 R 294, 8, 47.9	L	SWP 23382 1+1	657 146 FO	-2.35 0.08 7.8	L	O	200918	6:00	4	5	1	90E(390,1450)6350 C(1400)~150, B=13 C(1800)≈HODN B=19 CIII 176, HeII 198	HUSFELD AC
"	"	"	α , , δ , , R , ,	H	SWP 23383 1+2	660 120 FO	-1.62 0.08 12.0	L	O	205222	355:00	3	8	3	90E(387,1452),1200 C(1800)~170 B~80 CIII, HeII strongly sat MN=	
			α , , 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 JUL Y 84 RAW TAPE D 3 M JUL

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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI147	NOVA MUSCAE 55	NOVA 11.98	α 11, 49, 35.1 δ -66, 55, 43 R , ,	L	SWP 23390 1+1	272 6 50	-1.85 0.08 8.5	L	O	200105	15:00	2	6	1	MN=	CACCIATELLI AC
			α , , δ , , R , ,	L	LWP 3705 1+2	270 9 50	-2.19 0.08 8.5	L	O	202944	50:00	5	7	1	C=220 B=40 MN=	
			α , , δ , , R , ,	L	SWP 23391 1+3	272 6 50	-1.81 0.08 8.5	L	O	212725	60:00	3	8	1	SWP 110 C(1800)~90 B=23 MN=	
			α , , δ , , R , ,	L	LWP 3706 1+4	67 5 FO	-1.42 0.08 8.8	L	O	223716	15:00	3	5	1	MgII 191 B=34 MN=	
			α , , δ , , R , ,	H	SWP 23392 1+5	274 4 50	-1.42 0.08 9.2	L	O	230543	222:00	0	4	2	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 4 M Jul Y 84 RAW TAPE D 4 M Jul

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GE073	MS1-3 13	OI 17.3	α 0, 37, 49.4 δ 40, 28, 43 R 290, 12, 40.3	L	SWP 23402 1+	3.0	-4.02 .2 9.2	L	O	19:18:[illegible] 02:44:31	442[M] 440[M]				Started at GSFC from .08 focus -1.55 THDA 11.2 MN=	BIANCHI /RG
			α , , δ , , R , ,		1+										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 5 M Jul Y 84 RAW TAPE D 5 M Jul

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA132	GD391 37	DA 13.4	α 20, 28, 5 δ 39, 03, 20 R337, 14, 54.8	L	SWP 23408 1+1	73 2 50	-.50 .08 9.5	L	O	14:56:23	18:00	5	0	0	C ≥ 220, loc B ~ 15 MN=	Arise /RG
	4M Her 59	CV var	α 18, 14, 58.7 δ 49, 50, 59 R 10, 30, 14.3	L	LWP 3716 1+2	110(57) 2 50	-1.43 .08 9.8	L	O	21:14:25	36:00	4	6	2	Mg II Sat. 5 pix C ~ 110 loc bg ~ 40 MN=	
	〃	〃	α , , δ , 〃, R , ,	L	SWP 23409 1+3	59 2 50	-1.53 .08 9.8	L	O	21:57:42	20:00	3	5	0	190 DN(gross) at CIV loc bg ≤ 20 C(gross) 60 MN=	
	〃	〃	α , , δ , 〃, R , ,	L	LWP 3717 1+4	54 0 50	-1.14 .08 9.8	L	O	22:40:42 23:03:39	20:00 5:00	4	5	1	MN=	
	〃	〃	α , , δ , 〃, R , ,	L	SWP 23410 1+5	41 0 50	-1.14 .08 9.8	L	O	23:17:59	30:00	3	5	0	MN=	
〃	〃	〃	α , , δ , 〃, R , ,	L	LWP 3718 1+6	64 2 50	-1.57 .08 10.2	L	O	23:53:59	20:00	3	5	1	MN=	
	〃	〃	α , , δ , 〃, R , ,	L	SWP 23411 1+7	80 0 50	-1.71 .08 9.8	L	O	00:23:10	36:00	3	6	0	4 pix sat at CIV MN=	
	GD391 37	DA 13.4	α 20, 28, 5 δ 39, 3, 22 R337, 27, 23.5	L	LWP 3719 1+8	118 * 3(79)(250) 50	-2.59 .08 9.8	L	O	01:37:34	25:00	5	0	2	* ogle at predicted posn. It picked up a nearby star. Also start count look too bright. MN=	

OBSERVATORY LOG

DATE D 5 M Jul Y 84 RAW TAPE D 5 M Jul

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.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA252	40391 37	DA 13.4	α , " , δ , , R , ,	L	SWP 23412 1+9	68 3 50	-1.77 .08 9.8	L	O	02:08:36	12:00	5	0	0	MN=	
"	"	"	α , , δ , " , R , ,	L	LWP 3720 1+10	71 3 50	-1.42 .08 10.2	L	O	02:58:33	10:00	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=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 6 M Jul Y 84 RAW TAPE D 6 M Jul

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.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GM195	N 6072 70.	PN 13.0	α 16 , 9 , 41.6 δ -36 , 6 , 1 R 97 , 38 , 54.1	L	LWP 3723 1+1	45 6 50	-1.44 .08 9.5	L	O	20:20:49	30:00	1	1	1	-527, -147, 171 50 MN=	GREWING + BIANCHI R.C.
"	"	"	α , , δ , " , R , ,	L	SWP 23419 1+2	44 9 50	-2.13 .08 9.8	L	O	20:58:13	15:00	1	1	0	-377, -286, 153 50 MN=	
	IC 4406 70	PN 12.5	α 14 , 19 , 15.5 δ -43 , 55 , 27 R 85 , 31 , 22.5	L	LWP 3724 1+3	206 63 50	-1.42 .08 9.8	L	O	21:58:58	30:00	3	3	1	C ~25 lo bg 43 E ~22 at Mg II MN=	
	"	"	α , , δ , , R , ,	L	SWP 23420 1+4	206 45 50	-1.44 .08 9.5	L	O	22:35:37	60:00	2	3	0	E ~85 at CIII MN=	
	"	"	α , , δ , , R , ,	L	LWP 3725 1+5	225 76 50	-1.64 .08 9.5	L	O	23:42:09	60:00	3	3	2	E ~38 at Mg II C ~42 lo bg 44 MN=	
	NGC 6326 70	PN 13.49	α 17 , 16 , 49.1 δ -51 , 42 , 20 R 134 , 37 , 31.6	L	SWP 23421 1+6	206 37 50	-1.80 .08 9.2	L	O	01:17:31	60:00	3	4	0	-1066, 848 273 50 MN=	
	"	"	α , , δ , " , R , ,	L	LWP 3726 1+7	209 12 50	-1.61 .08 9.2	L	O	02:25:09	22:0	2	3	0	MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 7 M JUL Y 84 RAW TAPE D 7 M JUL

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.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI184	Sco X-1 S9	Pec 12.6	α 16, 17, 4 δ −15, 31, 15 R 73, 16, 15	L	SWP 23424 1+1	163 0 SO	−.91 0.08 8.8	L	O	204615	30:00	3	5	1	CIV 163; NV 183 HeII 90 C(1900)=100 B=17 MN=	SANFORD AC
"	"	Pec 12.7	α , , δ , , R , ,	L	LWP 3728 1+2	139 0 SO	−1.48 0.08 8.8	L	O	212324	30:00	5	0	2	C=251 B=36. MN=	
"	"	12.7	α , , δ , , R , ,	L	SWP 23425 1+3	149 5 SO	−1.62 0.08 9.5	L	O	220031	30:00	3	4	1	NV 160, CIV 161 C=110 B=17 MN=	
"	"	-	α , , δ , , R , ,	L	LWP 3729 1+4	"	−1.05 0.08 9.5	L	O	224411	20:00	5	0	2	FES 169 at 23:07 C=210 B=35 MN=	
GI215	E1551+718	Xray 16.5	α 15, 51, 40.5 δ 71, 54, 07 R 45, 01, 44	L	SWP 23426 1+5	b.o.	−1.83 0.08 8.8	L	O	000025 002021	10:00 147:00 157:00	3	3	1	(500, 527) 272 (5,0) C=69 B=42 (190) C=53 B=26 (1400) CIV 63 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 8 M JUL Y 84 RAW TAPE D 8 M JUL

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.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC027	HD150798 .46	K4III 1.91	α 16, 43, 21 δ −68, 56, 19 R 135, 00, 104		FES 1550 1+1		-			001800					FIELD 20 KB – STAR IN REF PNT MN=	
"	"	-	α , , δ , , R , ,	H	SWP 23430 1+	3487 " FU	−0.91 0.08 11.2	L	O	185921 003237	300:00 420:00 720:00				GSFC – GIC(−440, −709) VILSPA (439, −710) 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 9 M JUL Y 84 RAW TAPE D 9 M JUL

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
GC024	HD186791 47	K3II 2.62	α 19,43,52.9 δ 10,29,24 R 347,38,38.8		FES 1552 1+ 1										MN=	REMERS AR
	— —	—	α , , δ , , R , ,	H	LWP 3740 1+ —		-.37 0.08 10.5	L	O	183912 020942	442:00 278:00				GSFC starts VILSPA starts 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 10 M JUL Y 84 RAW TAPE D M

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
GC 168	HD 206778 47	K2Ib 2.4	α 21,41,44 δ 09,38,42 R 312,39,32	H	SWP 23437 1+	397 F/O	-2.43 -2.6 0.08 10.22 8.2 (8.9)	L	C	19:03:05 02:25:19	440:00 (440:00)				H/O exposing both ways. MN=	JUDGE/ 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=	

OBSERVATORY LOG

DATE D 11 M JUL Y 84 RAW TAPE D 11 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GΦ225	PG 1351 +64 85	Φ50 14.8	α 13 , 51 , 46.1 δ +64 , 00 , 29 R 73 , 42 , 57	L	SWP 23443 1+1	B.O. (25 s/o)	-1.3 0.08 7.2	L	O	20:00:24	210:00	3	6	2	25ch. s/o at 19.4h GDE : X=-425 Y=1035 ch: 262 s/o MN= C=130 E=255(Φ50 P_{LW}) B=40	FALOMO / AWH
"	" "	" "	α " , " , " δ " , " , " R " , " , "	L	LWP 3752 1+2	B.O	-1.7 0.08 7.5	L	O	23:44:58	100:00	4	3	3	GDE : X = -626 Y = 1176 ch: 239 s/o C=147 E=71 MN= B=43	"
"	3C 273 85	Φ50 12.5	α 12 , 26 , 33 δ 02 , 19 , 44 R 67 , 50 , 58	L	SWP 23444 1+3	93 7 s/o	-1.5 0.08 8.2	L	O	02:08:22	39:00	3	5	1	C=117 E=255 (Φ50 P_{LW}) B=18 ch=164. MN=	"
			α , , 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 JUL Y 84 RAW TAPE D 12 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GΦ225	3C 273 85	Φ50 12.5	α 12 , 26 , 33 δ 02 , 19 , 44 R 67 , 54 , 43	L	LWP 3757 1+1	90 6 s/o	-1.5 0.08 8.2	L	O	19:55:31	30:00	4	1	3	C_{MAX} = 200 gross B = 36 (local) MN=	FALOMO / AWH
"	PG 0026 +12 85	Φ50 14.7	α 00 , 26 , 38 δ 12 , 59 , 29 R 295 , 03 , 08	L	SWP 23451 1+2	B.O	-2.0 0.08 7.8	L	O	21:35:10	150:00	3	4	1	GDE X=171 Y=180 368ch s/o C=81 E=148 (Φ50 P_{LW}) B=32 MN=	"
"	" "	" "	α " , " , " δ " , " , " R " , " , "	L	LWP 3758 1+3	B.O	-1.6 0.08 8.2	L	O	00:12:30	70:00	3	1	4	GDE X = -30 Y=316 309ch s/o C=93 B=32 MN=	"
"	PKS 2155 -304 87	Φ50 14.0	α 21 , 55 , 58 δ -30 , 27 , 54 R 264 , 24 , 38	L	SWP 23452 1+4	B.O. (81 s/o)	-1.6 0.08 8.5	L	O	02:07:09	40:00	3	1	1	GDE X=750 Y=-888 C=87 B=19 773 F/o. MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY I.C.U.

DATE D 13 M JUL Y 84 RAW TAPE D 13 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS col. p. slot undov/f.s	FOCUS BIAS THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	η UMa 21	B3 1.84	α 13 45 34 δ +49 33 44 R 72 52 50	H	SWP 23457 1+1	4447 F/u.	−2.1 0.08 9.2	L	O	20:04:54	0:06	4	0	1	Prep. performed on Loves configuration with star at X=129, Y=−32 to check on −ve residual problem. MN: This time: NO RESIDUAL!	AWH.
"	Zeta Cas 20	B2 3.68	α 0 34 10 δ 53 37 19 R 294 12 36	H	LWR 17473 1+2	845 F/u	−1.6 0.08 12.2	L	O	21:08:18	0:2.1	5	0	2	4 min. htr. warm-up. Prep. and exposure with UVC at nominal −5.0 kv. MN=	"
"	"	"	"	H	LWR 17474 1+3	996 F/u	−2.4 0.08 12.5	L	O	21:40:21	0:42	7	0	2	4 min. htr. warm-up. " MN=	"
"	"	"	"	H	LWR 17475 1+4	"	−1.9 0.08 13.2	L	O	22:11:56	0:21	5	0	2	4 min. htr. warm-up. " MN=	"
"	"	"	"	H	LWR 17476 1+5	1013 F/u	−1.9 0.08 13.8	L	O	22:50:17	0:42	7	0	2	" " MN=	"
"	"	"	"	H	LWR 17477 1+6	1029 F/u	−2.3 0.08 14.2	L	O	23:34:14	0:28.5	5	0	2	" Prep. and exposure with UVC at −4.5 kv MN=	"
"	"	"	"	H	LWR 17478 1+7	981 F/u	−1.8 0.08 14.2	L	O	00:03:37	0:57	7	0	2	" " MN=	"
"	"	"	"	H	LWR 17479 1+8	994 F/u	−1.8 0.08 14.5	L	O	00:33:59	0:28.5	5	0	2	" " MN=	"

OBSERVATORY I.C.U.

DATE D 13 M JUL Y 84 RAW TAPE D 13 M JUL

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PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS col. p. slot undov/f.s	FOCUS BIAS THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	Zeta Cas 20	B2 3.68	α 0 34 10 δ 53 37 19 R 294 12 36	H	LWR 17480 1+9	1003 F/u	−1.8 0.08 14.5	L	O	01:03:07	0:57	7	0	2	4 min. htr. warm-up. Prep and exposure with UVC at −4.5kv MN=	AWH
"	BD+28 4211 16	SD0 10.53	α 21 48 56 δ 28 37 35 R 323 01 57	L	LWR 17481 1+10	232 F/0	−1.4 0.08 14.8	L	O	01:59:05	1:22	5	0	2	no 4 min warm up. Prep + exposure with UVC at −4.5kv MN=	"
"	NULL		α δ R		LWP 3759 1+11		6.5			02:30:39					Camera-switch null. MN=	"
	PHCAL programme not completed due to various problems encountered with both EDS1 and EDS2.		α 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 JUL Y 84 RAW TAPE D 14 M JUL

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
GC135	HD224085 52	K2 7.4	α 23,52,29.1 δ +28,21,18 R 30,36,54.8	H	LWP 3760 1+1	2729 11 ov/f	-2.2 -.08 7.2	L	O	20:05:41	020:00	1	3	3	E=118 at 2802 B=54 no continuum MN=	DOYLE CLAVEL
	//	//	α , , δ , // , R , ,	H	SWP 23465 1+2	2680 8 ov/F	-2.2 .08 8.2	L	O	20:31:35	376:00	1	3	3	E=86 at Lyα 1215 B=37 E=109 at HeII 1640 MN=	//
			α , , 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 JUL Y 84 RAW TAPE D 15 M JUL

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
GC208	TW HYA 58	T TAU	α 10,59,30.1 δ -34,26,7.0 R 48,12,15.2	H	SWP 23467 1+1	126 F/O	-2.75 0.57 10.5	L	O	18:55:47					exposure started at GSFC (US2) and redd at GSFC MN=(US1)	PENSTON CLAVEL
			α , , 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 84 RAW TAPE D 16 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS DX: THDA	APERTURE	AP. SHUT.	G.H.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC206	TW HYA 58	10.4	α 10, 59, 30.1 δ -34, 26, 7 R 47, 32, 41.2	H	LWP 3777 1+1		-1.82 0.71 9.5	L	0	18:48:58					exp. started and to be read at GSFC MN=	PENSTON CLAVEL
			α , , 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 17 M JUL Y 84 RAW TAPE D 17 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS DX: THDA	APERTURE	AP. SHUT.	G.H.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC135	HD224085 5.2	K2 7.2	α 23, 52, 29.1 δ +28, 21, 18 R 302, 56, 49.5	H	LWP 3791 1+1	2901 11 ov/f	-1.13 .12 8.8	L	O	19:46:14	030:00	2	4	3	E = 147 (MgII) E MN=	DOYLE CLAVEL
			α , , δ , , R , ,	H	SWP 23473 1+2	2919 14 ov/f	-.76 .08 7.8	L	O	20:21:08	380:00	1	3	3	E = 94 (Lyα) MN=	
			α , , 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 JUL Y 84 RAW TAPE D 18 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESEL.	CAMERA IMAGE NO. RAW T. FILE	IES 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
6E TOO	3C390.3 86	R Galaxy 15	α 18,45,37.9 δ 79,43,06 R 15,37,22.9	L	LWP 3808 1+1	B.O.	-2.15 .08 8.2	L	0	19:54:58	412:00	3	4	5	605 | -710 532 354/F0 DAT 2MIS: 185 DN FLT : 150 DN BKG: 100 MN= CON: 104 DN MN=	TALAVERA/ - WAMSTEKER AT
			α , , 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 84 RAW TAPE D 19 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESEL.	CAMERA IMAGE NO. RAW T. FILE	IES 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
6S 104	URANUS 0.3	5.5	α 16,30,55.0 δ -21,50,16 R 81,18,20.5	L	SWP 23477 1+	14059 46 PO	-2.48 0.08 6.8	L	0	20:34:57					Read AT 61FC MN=	PRACKE AT
			α , , δ , , R , ,	E	PES. 1556 1+1	1		2		20:18:30	160:00				MN=	
			α , , 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 JUL Y 84 RAW TAPE D 20 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ent. p. slot window/f.	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GS 104	URANUS 03	5.5	α 16, 30, 49.3 δ -21, 50, 05 R 81, 18, 0.1	E	FES 1557 1+1		1	2		18:33:00	160:0				MN=	PRIAGE AT
			α , , δ , , R , ,	L	SWP 23478 1+	13247 44 F0	-2.00 0.08 5.8	L	0	19:43:08					Redo 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 21 M JUL Y 84 RAW TAPE D 21 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ent. p. slot window/f.	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI 184	SCO X1 59	Rec. 13	α 16, 17, 40 δ -15, 31, 15 R 75, 47, 20.5	L	SWP 23479 1+1	130 2 50	-2.74 .08 6.5	L	0	20:10:14	40:00	4	5	0	emis CIV ≃180 DN BKG ≃19 C ≃ 120 MN=	HOWARTH AT
			α , , δ , , R , ,	L	LWP 3837 1+2	138 21 50	-1.52 .08 6.5	L	0	20:57:19	40:00	6	0	2	MN=	
			α , , δ , , R , ,	L	SWP 23480 1+3	136 4 50	-1.67 .08 7.5	L	0	21:44:35	50:00	4	5	0	C ≃ 142 emis CIV : 1 pix saturé B ≃ 16 MN=	
GC 108	HD 319139 46	K5e 10.6	α 18, 10, 53.0 δ -32, 48, 30 R 109, 11, 18.6	L	LWP 3838 1+4	223 1 F0	-2.06 .08 7.5	L	0	23:33:33	50:00	3	5	2	emiss HeII 220 DN C = 45 B = 38 MN=	DE LA REZA - LLORENTE AT
			α , , δ , , R , ,	L	SWP 23481 1+5	222 1 F0	-1.52 .08 7.5	L	0	00:29:01	138:00	2	3	1	CIV emiss : 94 DN HeII emis : 77 B = 27 C ≤ 40 MN=	
GQ 256	2005-488 84	Seyfert 13.3	α 20, 05, 46.6 δ -48, 58, 43 R 180, 28, 55.0	L	SWP 23482 1+6	55 0 50	.30 .08 6.1	L	0	05:16:50	60:00	3	0	0	C : 54 AT LONG λ B : 26 MN=	TARAVERA AT
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 22 M JUN Y 84 RAW TAPE D 22 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot window/f.s	FOCUS DKC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC 108	HD 319139 46	K5e 10.6	α 18,10,53.0 δ -32,48,30 R 108,36,48.4	L	LWP 3844 1+1	222 0 FO	-3.00 .08 7.2	L	0	20:04:20	40:00	3	4	2	MgII EMIS: 180 DN C:96 B:40 MN=	DE LA REZA - LLORENTE AT
			α , , δ , , R , ,	L	SWP 23490 1+2	216 4 FO	-1.95 .08 6.8	L	0	20:50:43	120:00	2	3	1	EMISS | CIV: 104 HeII: 89 C:45 B:30 MN=	
GC 142	RU LUPI (HD 142560) 58	dG5e 11.4	α 15,23,24 δ -37,40,58 R 88,45,4.1	L	LWP 3845 1+3	143 10 FO	-1.24 .08 6.5	L S	0	23:57:16 00:21:48	10:00 10:00	4 3	6 4	2	MgII | SATUR IN LAP SAP: 170 DN C:129 LAP B:36 MN=	GIOVANNELLI AT
			α , , δ , , R , ,	L	SWP 23491 1+4	125 0 FO	-.92 .08 6.5	L	0	00:44:31	123:00	3	3	0	EMISS: 119 CIV C:90 B:28 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 JUL Y 84 RAW TAPE D 23 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot window/f.s	FOCUS DKC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GE 252	NGC 5236 80	GALAXY	α 13,37,11.0 δ -29,36,39 R 68,7,13.3	E	FES 1558 1+1			2		19:28:00	40:00				IMAGE FOR SWP 23501 MN=	TALAVERA AT
			α , , δ , , R , ,	H	SWP 23501 1+	119 13 FO	-2.07 .08 6.1	L	0	19:38:32 + 02:14:53	395:00 +				GDE | 1479 330 P/O -710 READ AT GSFC MN=	
			α , , δ , , R , ,	L	LWP 3846 1+		-2.07 .08 5.5	L	0	19:40:44	387:00	3	0	4	SERENDIPITY C: 150 DN B: 75 MN=	
			α , , 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 84 RAW TAPE D 24 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TRK CTS ref. p. slot window/f.	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI224	E 2003225 6.3	— 15.0	α 20, 03, 32.0 δ +22, 31, 20.0 R 04, 05, 11.1	L	LWP 3856 1+1	B.O.	-0.82 0.08 9.8	L	O	19:25:38	20:00	3	1	2	-1456, -524, (284 FO 22 ch 30 at R.P. C=84 B=31 MN=	TREVES/BH
	"	"	α , , δ , " , R , ,	L	SWP 23503 1+2	BO	-0.84 0.08 10.5	L	O	19:52:40	46:00	3	4	1	(-1257 -673) 295 C=64 (@ long λ) Hall=102 CTE=0.157 STE=33, BTE=52, CE=70 MN=	
	"	"	α , " , δ , " , R , ,	L	LWP 3857 1+3	BO	-1.34 0.08 11.2	L	O	20:43:01	20:00	3	1	2	(-1457, -537 262 FO C=80 B=32 MN=	
	"	"	α , " , δ , , R , ,	L	SWP 23504 1+4	BO	-1.04 0.08 12.5	L	O	21:09:54	45:00	3	4	0	(-1257, -676) 264 FO CTE=122 C=49. B=22 MN=	
	"	"	α , " , δ , " , R , ,	L	LWP 3858 1+5	BO	-1.53 0.08 12.2	L	O	21:59:21	20:00	3	1	2	(-1458, -535) 249 B=34 C=72 MN=	
	"	"	α , " , δ , , R , ,	L	SWP 23505 1+6	BO	-1.21 0.08 13.8	L	O	22:29:51	40:00	3	3	0	(-1258, -676) 238 CTE=79 B=17 C=47 MN=	
	"	"	α , " , δ , " , R , ,	L	LWP 3859 1+7	BO	-1.64 0.08 12.8	L	O	23:14:06	20:00	3	1	1	(-1459, -538) 239 C=92 B=34 MN=	
	"	"	α , " , δ , " , R , ,	L	SWP 23506 1+8	BO	-1.71 0.08 14.5	L	O	23:42:42	40:00	3	4	0	(-1255, -675) 257 B=18 C=59 CTE=154 MN=	

OBSERVATORY LOG

DATE D 24 M JUL Y 84 RAW TAPE D 24 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TRK CTS ref. p. slot window/f.	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI224	E 2003225 6.3	— 15.0	α 20, 03, 32.0 δ +22, 31, 20.0 R 04, 05, 11.1	L	LWP 3860 1+9	BO	-1.80 0.08 13.2	L	O	00:28:27	20:00	3	1	2	(-1456, -538) 244 C=76 B=31 Particle hit @ ~ 2180 Å. MN=	TREVES/BH
	"	"	α , " , δ , , R , ,	L	SWP 23507 1+10	BO	-2.24 0.08 14.8	L	O	00:56:02	40:00	3	3	1	(-1257, -677) 238 CTE=108 C=51 B=18 MN=	
	"	"	α , " , δ , " , R , ,	L	LWP 3861 1+11	BO	-2.31 0.08 13.8	L	O	01:41:43	20:00	3	1	2	(-1455, -536) 258 C=80 B=36 MN=	
	"	"	α , , δ , " , R , ,	L	SWP 23508 1+12	BO	-2.4 0.08 15.2	L	O	02:08:15	40:00	3	3	0	(-1254, -675) 256 C=53 B=19 CTE=85 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY ID(S):

DATE: D 25 M JUL Y 84 RAW TAPE D 25 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	LES CTS ref. p. slot undov/f.s	FOCUS mm: THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI224	H2215-086 59	X-ray ~13.5	α 22, 15, 17.2 δ -8, 36, 07 R 294, 31, 12.6	L	SWP 23511 1+1	45 S0	-1.94 0.08 9.8	L	O	20:05:25	50:00	3	4	0	(-1089, -805) 180 FO IIeII=107 B=19 CII=147 C=81 MN=	TREVES / BH
	"	"	α , , δ , , R , ,	L	LWP 3872 1+2	44 1 S0	-1.34 0.08 10.5	L	O	21:01:38	20:00	3	4	2	(-1288, -663) (158 FO NyII=154 C=133 B=35 MN=	
	"	"	α , , δ , , R , ,	L	SWP 23512 1+3	50 1 S0	-0.66 0.08 10.5	L	O	21:30:28	50:00	3	4	0	(-1090, -805) 179 FO CII=164 B=18 C=81 MN=	
	"	"	α , , δ , , R , ,	L	LWP 3873 1+4	48 2 S0	-0.14 0.08 10.8	L	O	22:26:40	20:00	3	3	2	(-1287, -668) 149 FO NyII= 128 C=102 B=34 MN=	
	"	"	α , , δ , , R , ,	L	SWP 23513 1+5	57 1 S0	-2.15 0.08 11.8	L	O	22:56:57	50:00	3	4	1	(-1058, -808) 192 FO CII=107 B=23 C=67 MN=	
	"	"	α , , δ , , R , ,	L	LWP 3874 1+6	64 1 S0	-0.02 0.08 11.8	L	O	23:56:46	20:00	3	3	2	(-1286, -666) 194 FO NyII=109 C=93 B=32 MN=	
	"	"	α , , δ , , R , ,	L	SWP 23514 1+7	45 1 S0	0.59 0.08 13.2	L	O	00:36:26 00:57:25 01:11:38 01:32:28 01:46:31 02:07:26 02:28:29	7x 7:00	3	3	0	(-1066, -810) 187 FO (-1110, -802) 155 (-1068, -804) 184 MN=	(R.P.) Other (quasars) 0.15 (6, -213) -0.29 0.06 (-38, -208) 0.40 0.31 (-16, -208) -0.34 CII=77. C=53 B=19
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY ID(S):

DATE: D 26 M JUL Y 84 RAW TAPE D 26 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	LES CTS ref. p. slot undov/f.s	FOCUS mm: THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GQ158	A1795 81	Emission line Galaxy ~14	α 13, 46, 34.0 δ +26, 50, 28.0 R 76, 14, 00.4	L	SWP 23522 1+		-1.78 0.08 9.5	L	O	19:48:56					SET UP BY GSFC H/O both ways enjoying FES delivered by GSFC (1559) (gdz = -246, -233). MN=	HASWALL / BH.
			α , , 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 JUL Y 84 RAW TAPE D 27 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot window/f.s	FOCUS DIR: THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GQ185	PKS 2152-69 86	~14	α 21, 52, 58.6 δ -69, 55, 41.1 R 205, 48, 34.8	L	SWP 23526 1+ 2	BO.	-1.17 0.08 7.2	L	O	20:39:53	60:00	1	2	1	(-397, -939) dy a = 52 (380 50) B = 15 MN=	TADHUNTER +SNIJDERS / BH.
	"	"	α , , δ , , R , ,	L	LWP 3885 1+ 3.	BO	-1.34 0.08 6.8	L	O	21:44:46	25:00	1	1	2	(-396, -801). (368 30) MN=	
	"	"	α , , δ , , R , ,	L	SWP 23527 1+	BO	-1.77 0.08 7.5	L	O	22:15:46	272:00	2	3	2	(-398, -940) (379 50) dy = 118 B = 29. C = 72. MN=	Jumps in FPM up to 0.4
			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=	

DATE D 28 M JUL Y 84 RAW TAPE D 28 M JUL

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot window/f.s	FOCUS DIR: THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA 056	NGC6826 70	Plan Neb 06. 10-2	α 19, 43, 27.2 δ +50, 24, 10.0 R 11, 56, 59.0	H	LWP 3887 1+ 1	486 6 FO	-1.11 0.08 6.1	L	O	19:59:51	130:00	5	5	4	(dd. -370, 1379) 250(30) B = 57 C, E = 240, 2/minut. MN=	WERNER / BH.
	"	"	α , , δ , , R , ,	L	SWP 23537 1+ 2	486 45 FO	-2.22 0.08 6.5	L	O	22:15:37	1:30	5	0	0	max = 233 B = 13 Noise near y = 419 MN=	Cyan by eraal
	"	"	α , , δ , , R , ,	L	LWP 3888 1+3	485 58 FO	-2.31 0.08 7.5	L	O	22:54:23	1:30	5	0	3	max = 220 B = 22 MN=	
	HD172248 22	B6 8.9	α 18, 36, 36 δ 05, 24, 46 R 48, 39, 09.7	L	SWP 23538 1+ 4	831 2 FO	-2.83 0.08 6.8	L	O	23:34:21	6:30	5	0	0	(508, -1107) max 215 MN=	
	"	"	α , , δ , , R , ,	L	LWP 3889 1+5	871 1 FO	-1.61 0.08 7.5	L	O	00:08:23	1:30	5	0	2	max 184 B = 29 MN=	
	HD171931 22	B7 9.2	α 18, 34, 48.1 δ 05, 16, 27 R 49, 17, 51.7	L	SWP 23539 1+	721 1 FO	-0.04 0.08 6.8	L	O	00:43:23	10:00	5	0	0	(-397, 1721) max 179. B = 15 MN=	
	"	"	α , , δ , , R , ,	L	LWP 3890 1+	697 3 FO	-0.13 0.08 7.8	L	O	01:35:31	3:00	4	0	3	max = 173 B = 31 MN=	
	HD172012 22	B9 9.2	α 18, 35, 11.8 δ +05, 29, 17 R 49, 03, 06.2	L	SWP 23540 1+	684 7 FO	-0.66 0.08 8.8	L	O	02:18:06	18:00	5	0	0	max = 232, B = 22 MN=	

OBSERVATORY LOG

DATE D 29 M Jul Y 84 RAW TAPE D 29 M Jul.

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
gA056	K 282 30	A0 12.0	α 23, 54, 17 δ +56, 21, 37 R 313, 27, 6	L	SWP 23553 1+1	196 7 S.O.	-1.04 .08 7.2	L	0	19/53/30	43/0	4	0	3	1 min interrupted for pos. check. actual t exp 413 MN=	Werner WAMSTEKER
			α , , δ , , R , ,		1+										Backg. 80 at cnts 200 1600 MN=	
			α , , 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 Jul Y 84 RAW TAPE D 30 M Jul

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
gE255			α 13, 34, 017 δ -29, 38, 48 R 65°, 58, 19	L	SWP 1+	B/0	-1.71 .08 9.2	L	0	20/12/08 2/27/59	375/0 + 444/0				guide X1059 Y-157 MN=	WAMSTEKER W.W.
"	SM EVANS	21.0	α , , δ 14, 4, 4 R , ,		FES 1562 1+1					20/00/0					MN=	4
1	Serendipity		α , , δ , , R , ,	L	LWP 1+		-1.71 .08 8.5			20/21/17	444/0				MN=	5
			α , , 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/0 EXPOSING

OBSERVATORY LOG

DATE D 31 M Jul Y 84 RAW TAPE D 31 M Jul

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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
gA093	HD17612	B9 9.2	α 18, 35, 11.8 δ 5, 29, 17 R 52, 16, 14	L	LWP 3902 1+1	643 3 F.0	-.84 .08 9.5	L	0	19/48/38	4/40				MN=	WERMER WW.
4	HD172271 30	A0 9.1	α 18, 36, 36 δ 5, 32, 35 R 51, 57, 41	L	SWP 23565 1+2	782 5 F.0	-.89 .08 9.8	L	0	20/02/37	9/00	4	0	0	MN=	〃
〃	〃	〃	α , , δ 4, 〃, 4 R , ,	L	LWP 3903 1+3	761 3 F.0	-1.05 .08 9.8	L	0	20/48/50	02/45	4	0	1	MN=	〃
	HD171782 25	B8 7.8	α 18, 04, 01.9 δ 5, 14, 46 R 52, 52, 24	L	SWP 23566 1+5	2493 7 F.0	-.93 .08 9.5	L	0	21/53/48	2/00	4	0	0	MN=	
	〃	〃	α , , δ 〃, 〃, 1 R , ,	L	LWP 3904 1+4	2462 6 F.0.	-.90 .08 9.8	L	0	22/00/14	00/40	5	0	1	MN=	
gC230	HD352 47	K2III 6.07	α 00, 05, 38 δ -2, 43, 00 R 291, 3, 47	L	LWP 3905 1+6	8517 22 F.0	-1.70 .08 8.8	L	0	23/54/15	4/00	4	6	0	3pix sakmatell in Mg II MN=	Schryver. WW
〃	HD352 47	〃	α , , δ , , R , ,	L	SWP 23567 1+7	7956 24 F.0	-1.70 .08 8.8	L	0	00/05/46	7.0/0	5	9	0	MN=	〃
〃	〃	〃	α , , δ 〃, 〃, 9 R , ,	H	LWP 3906 1+8	8400 27 F.0.	-2.3 .08 8.8	L	0	01/22/38	46/0	2	4	?	MN=	〃

OBSERVATORY LOG

DATE D 1 M AUG Y 84 RAW TAPE D 1 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 THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC169	HD115383 44	40V 5.3	α 13, 14, 17.5 δ 09, 41, 06 R 74, 33, 58.2	H	SWP 23574 1+1	19327 50 F0	-.57 0.8 9.5	L	0	16 5604 0017 53	440:00 440	3	0	9	READ AT GSFC MN=	JORDAN AE
			α , , δ , , R , ,		1+						=880:0				STEP = -1.58 THDA = 11.2 FPM = 0.08 MN=	
			α , , 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 H AUG Y 84 RAW TAPE D 2 - 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	NP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI 110	NOV SGE 55	Nova 7.56	α 19, 24, 3.4 δ 27, 15, 52 R 27, 26, 50.5	L	SWP 23580 1 + 1	3375 6 OF	-3.02 0.54 8.8	L	O	175830	20:00	4	0	1	GDE(-209, 1449) 2363 FD C = 135 B = 25	LEIBOWITZ CASSATELLA
			α , , δ , , R , ,	H	LWP 3917 1 + 2	3401 5 OF	-2.24 0.30 9.2	L	O	182733	25:00	3	3	1	(-412, 1592) C = 100 B = 20	
			α , , δ , , R , ,	L	LWP 3918 1 + 3	3697 5/230 OF	-1.96 0.08 9.5	L S	O	193849 192604	1:00 10:00	4 7	4 7	2 2	C = 160 E = 176 B = 40	
	CI CYG 57	Symb 10.6	α 19, 48, 21 δ 35, 33, 24 R 18, 07, 2	L	SWP 23581 1 + 4	238 5 OF	-2.10 0.08 8.8	L	O	201322	20:00	3	5	1		
			α , , δ , , R , ,	L	LWP 3919 1 + 5	246 3 OF	-1.37 0.08 9.5	L	O	203935	20:00	4	5	2	C = 150 B = 40 E = 160	
	AG DRA 57	Symb 10.04	α 16, 01, 23 δ 66, 56, 24 R 67, 02, 8	L	SWP 23582 1 + 6	400 379 0/31 FO	-1.42 0.08 8.8	L S	O	213104 220126	20:00 5:00	3	6	1	GDE(1166, -1232) 232 50 11+ΣI 8 pix not CIV 130; NV 132	
			α , , δ , , R , ,	L	LWP 3920 1 + 7	378 1 FO	-1.90 0.08 9.2	L	O	221236	15:00	4	6	1		
	Z AND 57	Symb 10.21	α 23, 31, 15 δ 48, 32, 30 R 320, 38, N	L	SWP 23583 1 + 8	331/324 0/12 FO	-2.27 0.08 8.8	L S	O	231501 000114	40:00 15:00	4 3	8 6	1	C = 170 B = 25 CIV 4pix not 4pix slot	

OBSERVATORY LOG

DATE D 2 H AUG Y 84 RAW TAPE D 2 - 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	NP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI 110	Z AND 57	Symb 10.2	α 23, 31, 15 δ 48, 32, 30 R 320, 38, 11	L	LWP 3921 1 + 9	331 " OF	-1.48 0.08 8.8	L	O	002357	23:00	7	8	1	MN=	LEIBOWITS (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 D 3 M AUG Y 84 RAW TAPE D 3 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 THDA	APERTURE	AP. SELT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC 250	HD206936 49	Me 3.71	α 21, 41, 58.5 δ +58, 33, 01 R 348, 14, 47.3	L	LWP 3928 1+1	941 190 UF	-2.59 0.8 10.5	L	O	175828	50:00	4	5	1	E = 206 B = 40 C = 143 MN=	QUERCI AC
"	TX PSC 50	CS 5.09	α 23, 43, 50, δ 3, 12, 36 R 297, 46, 30	L	LWP 3929 1+2	24263 90 OF	-2.33 0.08 9.8	L	O	20 5953	60:00	3	3	1	C = 94 B = 40 E = 103 MN=	
QI 184	SCO X-1 59	Xray 12.78	α 16, 17, 4 δ -15, 31, 15 R 77, 27, 45	L	SWP 23592 1+3	134 5 50	-1.53 0.08 8.5	L	O	220607	35:00	4	5	1	XSPREP NV 186; CIV 240 HeII 120 B=19 C(1900) = 130 MN=	WILLIS Ac
			α , , δ , , R , ,	L	LWP 3930 1+4	157 5 50	-1.53 0.08 9.2	L	O	224646	20:00	5	0	2	C = 177 B = 33 MN=	
			α , , δ , , R , ,	L	SWP 23593 1+5	144 5 50	-1.19 0.08 8.8	L	O	231545	35:00	4	5	1	NV 195 CIV 185 B=28 C = 116 (1900 A) MN=	
			α , , δ , , R , ,	L	LWP 3931 1+6	140 2 50	-1.19 0.08 9.2	L	O	235244	20:00	4	0	2	C = 190 B = 35 MN=	
			α , , δ , , R , ,	L	SWP 23594 1+7	140 3 50	0.08 9.2	L	O	002828	18:00	3	3	1	CIV 110 NV 110 C(1900) = 78 B = 25 MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 4 M AUG Y 84 RAW TAPE D 4 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 THDA	APERTURE	AP. SELT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC170	A59 47	KI 10.9	α 19, 06, 08.0 δ -60, 02, 03 R 142, 28, 33.2	H	LWP 3939 1+4	B.0	-1.6 .10 9.8	L	O	18:08:39	— 785:0	1	1	9	B.O. exp. read at GSFC MN=	C. JORDAN JC
	10	11	α , , δ , , R , ,	E	FES 1567 1+1		-1.6 .10 9.8	2	O	17:24:00	160:00				FES for image LWP 3939 MN=	GDE x=231 y=-1193 CTS=3542 (F10)
			α , , 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 AUG Y 84 RAW TAPE D 5 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 / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI042	A0538-66 59	X-Ray bin 14	α 05,35,47.8 / δ -66,53,40.4 / R 311,27,30.3	L	LWP 3946 1+1	B.O.	-4.7 .30 8.2	L	O	17:51:07	80:00	5	ϕ	3	184 Net at 2610Å 70 Net at 2350Å MN=	HOWARTH JC
	//	//	α / δ // / R	L	SWP 23609 1+3	B.O.	-2.5 .08 8.5	L	O	19:18:43	90:00	5	O	1	215 Net at 1310Å 130 Net at 1800Å 100 Net at 1550 MN=	//
GA198	HD37490 26	B3III e 4.5	α 05,36,32.6 / δ 04,05,40 / R 288,15,58	H	SWP 23610 1+4	454 60 F/O	-2.70 .08 9.2	L	O	21:49:45	002:10	5	O	1	MN=	DOAZAN JC
	HD5394 26	BϕIIIe 2.2	α 00,53,40.4 / δ 60,26,47 / R 305,55,36.1	H	LWP 3947 1+7	3366 450 F/O	-1.78 0.03 8.8	L	O	22:55:26	000:08	7	O	3	2400N at MgII MN=	//
	//	//	α / δ // / R	H	SWP 23611 1+5	3454 1200 F/O	-1.78 .08 9.5	S	O	22:51:14	000:12	4	O	1	MN=	//
	HD200120 26	B1.5IIe 4.7	α 20,58,07.4 / δ 47,19,30 / R 01,12,08.5	H	SWP 23612 1+6	399 50 F/O	-4.0 .08 9.2	L	O	23:59:12	001:30	5	O	1	MN=	//
	HD138749 26	B7IVe 4.2	α 15,30,54.7 / δ 31,31,36 / R 72,01,03.4	H	SWP 23613 1+8	553 65 F/O	-.61 .08 10.2	L	O	00:23:04	001:45	5	O	1	MN=	//
			α / δ / R		1+										MN=	

DATE D 6 M AUG Y 84 RAW TAPE D 6 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 / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GIϕ13	HBV475 57	Symbiotic 13.5	α 20,49,02.6 / δ 35,23,37 / R 05,00,11.8	L	SWP 23623 1+2	79 1 S/O	-2.06 1.0 9.2	L	O	13:59:52 18 17:06	5:00 + 80:00	2	5	2	183 Net at HeII1640 147 Net at CIV 136 Net at CIII] MN=	SCHMUTZ JC
	//	//	α / δ / R	L	LWP 3954 1+3	82 5 S/O	-1.80 .08 8.8	L	O	19:46:45	50:00	2	5	4	158 Net at 2783Å 98 Net at 2800 Å MN=	
			α / δ // / R	H	SWP 23624 1+5	75 3 S/O	-1.14 .08 9.5	H	O	20:43:33	244:00	4	3	3	60 Net at HeII 20 Net at CIV 45 Net at CIII] MN=	
			α / 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 AUG Y 84 RAW TAPE D 7 M AUG

PROPOSAL	OBJECT TYPE / DECLINATION / ROLL ANGLE	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.	SPL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
TOO	NOVA ~~SGE~~84 55	NOVA 7	α 19,24,03.4 δ 27,15,52 R 33,25,49.3	L	LWP 3967 1+1	1778/8 1823/167 f/0	-1.9 .8 10.2	L S	O O	17:50:19 17:58:17	8:00 10:00	4 6	4 6	3	120 Net at ~2300 20px saturated MN=	MASSALL JC
"	"	"	α , , δ , " , R , ,	L	SWP 23638 1+2	1819 79 f/0	-1.2 .1 10.2	S L	O O	18:21:44 18:48:54	10:00 35:00	2 3	2 3	1	E=48 DN grow. (0=27) E:102, C~80 @ 1940 MN=	"
"	"	"	α , , δ , " , R , ,	H	LWP 3968 1+3	1741 f/0	-.7 .08 9.8	L	O	18:27:58	90:00	3	3	3	MN=	"
GA 146	HD193237 23	B1Ia 4.9	α 20,15,56.5 δ 37,52,36 R 15,45,17.9	H	SWP 23639 1+4	25737 90 f/0	-1.8 .08 9.5	L	O	21:26:47	25:00	5	6	1	MN=	CASSATELLA JC
"	"		α , , δ , " , R , ,	H	LWP 3969 1+5	25933 39 f/0	-2.7 .08 9.8	L	O	22:04:34	5:00	5	6	3	MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 23640 1+6	26738 10 f/0	-1.5 .08 9.5	L	O	22:38:59	00:18	5	5	1	MN=	"
PHICAL	BD+28°4211 16	S20 10.5	α 21,48,56 δ 28,37,35 R 347.02,59.6	L	LWP 3970 1+7	238/0 237/33 f/0	-1.2 .08 9.5	L S	O O	23:50:27 23:57:40	00:50 6:00	5 7	Ø Ø	2	MN=	CLAVEL JC
"	"		α , " δ , R , ,		1+										MN=	"

OBSERVATORY LOG

DATE D 8 M AUG Y 84 RAW TAPE D 8 M AUG

PROPOSAL	OBJECT TYPE / DECLINATION / ROLL ANGLE	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.	SPL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA Ø8	R 123 60	OB(e) 10.5	α 5,35,42.0 δ -69,42,00 R 308,29,59.1	H	LWP 3976 1+1	201 2 F0	-2.74 .08 10.5	L	O	17:31:54	210:00	6	0	3	C: 255 (few pixels) B≥75 MN=	WEITHERER AT
			α , , δ , , R , ,	H	SWP 23646 1+	199 3 F0	-1.94 .08 9.8	L	O	21:17:19	210:00	4	5	1	CTMS: 233 C: 192 B: 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 9 M AUG Y 84 RAW TAPE D 9 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
6A ϕ48	R 84 60	Ber 11.5	α 5,14,12.0 δ -69,34,00 R 302,34,38.4	H	SWP 23655 1+	289 19 50	-2.33 .08 8.5	L	0	18:06:02	400:00	5	0	3	C = 250 B = 80 MN=	LEITHERER AT
			α , , 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 10 M AUG Y 84 RAW TAPE D 10 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
6S ϕ48	LO TAUS 03-04		α 18,44,2.8 δ -23,16,12 R 91,25,57.0	E	FES 1574 1+1			2		17:50:00	160:00				MN=	BERTAUX AT
			α , , δ , , R , ,	L	SWP 23664 1+	2643 - FA	-2.33 0.40 48	L	0	16:46:24	240:00	2	3	2	STARTED AT GSFC EXP: 82 DN BKG. 50 DN MN=	
			α , , δ , , R , ,	L	SWP 23665 1+	2643 - FA	-2.33 .08 8.5	L	0	21:42:02 23:51:00	40.00 200:00				EXP. STOPPED AND RESTARTED BECAUSE OF BAD DRIFT 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 11 M Aug Y 84 RAW TAPE D 11 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GM208 207	RS69 8S	9.50 15.4	α 17,00,13.4 δ 51,53,37 R 61,59,43.4	L	SWP 23678 1+2	1750 B0	-2.7 .08 9.2	L	O	18:04:46	403:00	1	3	3	gde (A) X=479 Y=-132 B=80 C=125 dis=222.50 MN=	PETTINI / CC
"	"	"	α , , δ , " R , ,	/	FES 1575 1+1	/	/	/	/	17:15:00	SRbts				FIELD FOR SWP 23672 S Rbt MN=	"
			α , , δ , , R , ,		1+										Spectra of OII, Hγ, CIII, NIII MN=	
			α , , 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 AUG Y 84 RAW TAPE D 12 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GM208	DY PEG 53	RR Lyr 10.3	α 23,06,21.9 δ +16,56,40.6 R 321,26,40.6	H	LWP 3987 1+	187 0 F/O	-2.5 .08 9.2	L	O	18:00:05	870:00	6	09		Read at GSFC MN=	PETTINI / JC
			α , , δ , , R , ,	H	SWP 23679 1+	/	-2.5 .08 8.8	L	O	18:03:44					- serendipity - 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 13 M AUG Y 84 RAW TAPE D 13 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GE φ78	SN in N1559	SN 13.3	α 04, 17, 00 δ -62, 55, 00 R286, 33, 05.9	L	SWP 23682 1+2	82 100. 50	-2.53 0.08 6.1	L	O	18:11:53	168:00	2	1	1	(726, 668) gde N.B. Galaxy cannot be fitted in aperture. MN=	GRY / BH. C=61 B=42 XS NNP.
	"	"	α , , δ , " , R , ,	E	FES 1577 1+1			2		18:10:00					Field for SWP 23682 MN=	
PHCAL	HD3360 20	B2IV 3.7	α 00, 34, 10.3 δ +53, 37, 20 R , ,	L	LWP 3988 1+3	890 118 FU	-1.76 0.08 7.5	L	O	22:13:18	00:01.96	5	0	3	R=20.83, I=1 T=0.96015 secs C=201 B=43 MN=	HASIALL / BH.
	"	"	α , " δ , , R , ,	L	LWP 3989 1+4	929 111 FU	-2.17 0.08 8.5	L	O	22:55:29	00:03.84	7	0	3	R=5.21, I=1 T=3.83877 secs C=X Limit @ 2800 C=200 at 2700 B=16 MN=	
	HD 155763 25	B6III 3.5	α 17, 08, 38.1 δ +65, 46, 34 R 62, 31, 15.7	L	LWP 3990 1+5	1226 401 FU	-2.52 0.08 9.2	L	O	23:58:39	00:01.64	5	0	3	R=13.89 I=1 T=1.43988 SECS C=189 B=19. MN=	
	"	"	α , , δ , , R , ,	L	LWP 3991 1+7	1254 365 FU	-2.62 0.08 8.8	L	O	00:36:41	00:05.10	7	0	3	R=4.0 I=1 T=05.000 SECS C=xL @ 2800 C=174 @ 2700A B=45 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 14 M AUG Y 84 RAW TAPE D 14 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GH208	DY PEG PG 1339+611 98	horizontal branch 10.38	α 13, 38, 31.8 δ +61, 07, 57 R 109, 17, 17.6	L	SWP 23686 1+1	276 SO	9.2	L	O	16:28:15	8:0	4	0	1	exposed by GSFC Read in Vibja as a Vibja image MN=	PETTINI / CG B=12 C=157
"	DY PEG 53	RR Lyrae 11	α 23, 06, 21.9 δ +16, 56, 40.6 R 323, 08, 13.8	H	LWP 3994 1+	179 2 FO	-1.71 .08 9.2	L	O	17:47:44	887:06	3	9		gde 389 979 242 FO MN=	"
"	Sky 67	Sky back. —	α , , δ " , " , " R , ,	L	SWP 23687 1+	/	-1.40 .08 9.2	L	O	18:12:02	820:0	0	0	9	Sorry! PE during exp. of LWP3995 READ IN GSFC MN=	"
"	DY PEG FIELD		α , , δ " , " , " R , ,		FES 1579 1+3										FES FOR LWP 3995 AND SWP 23687 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 Aug Y 84 RAW TAPE D 15 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.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GM808 207	RS 69 85	A5O 15.4	α 17 ,00,13.4 δ +51 , 53 ,37.3 R 65,39 ;48.9	L	SWP 23691 1+1	BO 13 (5,0)	-1.48 .20 9.8	L	O	17:57:42	410:00	3	1	3	GDG B=72 C=114 MN= 474 -154 241(50)	PETTINI / CG
			α , , δ , , R , ,		1+										FPT oscillating from .08 to .50 during MN= with. after start	
			α , , 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 Aug Y 84 RAW TAPE D 16 M Aug 1/2

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 THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI 184 442	HD128820 16	Sc O 8	α 14 ,32 ,56.6 δ +19 ,25 ,58 R 88 ,17 ,28.8	H	SWP 23699 1+1	1276 4 FO	2.24 .08 9.2	L	O	17:44:38	40:00	5	0	1	gde B=40 C=200 MN= X= -194 Y= 662 ct= 933(50)	HOWARTH / CG
"	"	"	α , , δ , , R , ,	H	SWP 23700 1+2	1296 4 FO	-2.56 .08 9.5	L	O	18:52:18	40:00	5	0	1	gde B=41 C=192 MN= X= -195 Y= 662 ct=1070(50)	"
"	"	"	α , , δ , , R , ,	H	SWP 23701 1+3	1324 1 FO	-2.93 .08 9.8	L	O	19:58:00	40:00	5	0	1	gde B=42 C=210 MN= X= -195 Y= 663 ct= 975(50)	"
GI 184 "	Sc0X-1 59	Sc0X1 13	α 16 ,17 ,04.3 δ -15 ,31 ,15 R 78 ,50 ,32.8	L	LWP 4003 1+4	77 3 SO	-1.60 .08 9.2	L	O	21:17:06	30:00	4	0	3	gde B=35 C=163 MN= X= -405 Y= -151 ct= 340(50)	"
"	"	"	α , , δ , , R , ,	L	SWP 23702 1+5	77 7 SO	-.82 .08 9.8	L	O	21:53:10	30:00	3	3	1	B=20 C=64 CIV = 85 NV = 74 MN= gde -805 -296 383(50)	"
"	"	"	α , , δ , , R , ,	L	LWP 4004 1+6	84 6 SO	-.82 .08 9.8	L	O	22:28:13	30:00	3	0	3	B=35 C=148 CIV = 119 MN= gde -403 -151 320(50)	"
	"	"	α , , δ , , R , ,	L	SWP 23703 1+7	87 4 SO	-.47 .08 10.2	L	O	23:03:05	40:00	3	3	2	B=25 C=81 CIV =119 NV =99 MN= gde -204 -296 340(50)	"
"	"	"	α , , δ , , R , ,	L	LWP 4005 1+8	92 4 SO	-.91 .08 10.2	L	O	23:48:55	22:46	3	0	3	B=35 C=140 MN= gde -402 -156 305(50)	"

OBSERVATORY LOG

DATE D 16 M Aug Y 84 RAW TAPE D 16 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 DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI184	SCO X1 59	SCO X1 13	α 16,17,04.3 δ -15,31,15 R 78,50,328	L	SWP 23704 1+9	95 4 50	-.17 .03 10.2	L	O	00118:34	29:00	3	3	1	B=2 9da -204 C=7 -300 3105 CW=34 NZ=84 MN=	HOWARTH / CG
	11		α δ FESPNT R		1+	98 50		2+		00158					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 17 M Aug Y 84 RAW TAPE D 17 M Aug 18 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 DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC167	HD 31398 47	K3 II 2.7	α 04.53,44.0 δ +33, 05, 19 R 272,32,33.1	H	LWP 4014 1+11	1824 530 FU	-.339 .08 8.5	L	C	17:51:56	415:00	7	76		GDE 1299 -513 2951 FO MN=	JUDGE / CG
			α δ R		off tape 18 Aug										Image can not be read at R and of the shift be camera Telegid down. read at GSFC and reconded Ro. MN=	
			α δ R		1+										playback done agin shift of 1.8 AUG MN=	
			α 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 Aug Y 84 RAW TAPE D 18 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 / THDA	APERTURE	NO. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GS188	SATURN centre of light 03	Solar 0.6	α 14, 34, 24.0 δ -12, 46, 51 R 72, 28, 46.0	L	LWP 4024 1+1	28673 14467 FU	-2.98 .08 8.2	S	0	18:17:33	5:00	7	0	2	sat occn at 1N 2530 MN=	MOORE/CG
"	SATURN 2"N of centre of light 03	"	α , , δ , , R , ,	L	LWP 4025 1+2	28673 — FU	-2.88 .08 8.5	S	0	18:57:16	5:00	7	0	2	REF PT of centre of light X=-4 Y=-209 MN=	"
"	4" North 03	"	α , , δ , , R , ,	L	LWP 4026 1+3	28673 — FU	-2.79 .08 8.8	S	0	19:35:23	5:00	7	0	3	Ref Pt X=-1 Y=-211 MN=	"
"	6" North 03	"	α , , δ , , R , ,	L	LWP 4027 1+4	"	-2.79 .08 9.2	S	0	20:13:58	5:00	7	0	2	Reg pt of centre of light X=+6 Y=-212 MN=	"
"	8" North 03	"	α , , δ , , R , ,	L	LWP 4028 1+5	"	-2.70 .08 9.2	S	0	20:54:16	5:00	7	0	2	saturn occn at 2630A X=+13 Y=-214 MN=	"
"	10" North 03	"	α , , δ , , R , ,	L	LWP 4029 1+6	"	-2.60 .28 9.5	S	0	21:35:51	5:00	4	0	2	X=20 Y=-215 B=32 C=170 MN=	"
"	2" SOUTH 03	"	α , , δ , , R , ,	L	LWP 4030 1+7	"	-2.60 .08 9.5	S	0	22:18:32	5:00	7	0	3	Reg pt of centre of light X=-23 Y=-206 MN=	"
"	4' SOUTH 03	"	α , , δ , , R , ,	L	LWP 4031 1+8	"	-2.17 .08 9.8	S	0	23:01:45	5:00	7	0	2	Reg pt of centre of light X=-30 Y=-205 MN=	"

OBSERVATORY LOG

DATE D 18 M Aug Y 84 RAW TAPE D 18 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 / THDA	APERTURE	NO. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GS188	SATURN 6"South of centre of light 03	Sdar 0.6	α 14, 34, 24.0 δ -12, 46, 51 R 72, 28, 46.0	L	LWP 4032 1+9	28673 — FU	-2.17 .08 9.8	L	0	23:44:43	5:0	7	0	2	ref pt of centre of light X=-32 Y=-203 Saturn occn occn at 2630 MN=	MOORE/CG
"	SATURN centre of light 03	"	α , , δ , , R , ,	L	LWP 4033 1+10	"	-2.47 .08 9.8	L	0	00:27:55	3:00	7	0	2	reg pt of centre of light X=-16 Y=-208 MN=	"
GC167	playback of image		α , , δ , , R , ,		LWP 4014 recorded on 17 Aug 84. 1+11										MN=	cg.
			α , , 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 AUG Y 84 RAW TAPE D 19 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.	DV. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC 210	HD 12929 47	K2 III 2.00	α 2,4,21.0 δ 23,13,35 R 293,43,49.7	H	LWP 4038 1+1	3082 412 FU	-2.20 .08 8.2	L	O	17:41:47	8:00	3	4	1	MgII emis: 1760 DN BKG: 37 C: 160 MN=	ARTRU AT
			α , , δ , , R , ,	L	SWP 23726 1+2	3123 770 FU	-2.20 .08 7.5	L	O	17:54:44	140:00	3	4	1	SiII emiss: 179 DN MN=	
			α , , δ , , R , ,	H	LWP 4039 1+3	3119 605 FU	-.89 .08 7.8	L	O	20:20:18	16:00	6	5	1	MgII emis: 1 pix satur. C = few pix. sat λ>2800 B: 42 MN=	
	HD 1671 41	F5 III 5.2	α 0,18,28.7 δ 37,41,29 R 318,59,41.3	L	SWP 23727 1+4	19156 44 FO	-2.20 .08 8.5	L	O	21:15:00	193:00	7	5	1	CIV emiss: 194 cont satur λ>1680 other emiss: SiIV, CO, SiII <100 DN B: 30 MN=	
			α , , δ , , R , ,	H	LWP 4040 1+5	19538 53 FO	-1.62 .08 7.5	L	O	00:31:32	14:00	5	0	1	C: 117 DN E: metal in MgII cont B: 40 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 20 M AUG Y 84 RAW TAPE D 20 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.	DV. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA 102	G180-23 37	DA 14.3	α 15,59,32.4 δ 36,57,22 R 79,52,16.1	L	SWP 23733 1+1	B.0	-1.64 .08 9.5	L	O	18:06:30	120:00	1	1	1	NO SPECTRUM. WRONG COORDINATES PROPER MOTION NOT TAKEN INTO ACCOUNT MN=	VAUCLAIR AT
	G185-32 37	DA 13.2	α 19,35,11.0 δ 27,36,30 R 45,50,9.3	L	LWP 4043 1+2	80 5 50	-1.41 .08 9.5	L	O	21:01:41	45:00	5	0	1	C: 240 B: 36 MN=	
			α , , δ , , R , ,	L	SWP 23734 1+3	84 7 50	-1.09 .08 9.8	L	O	21:52:55	50:00	3	0	0	C: 111 B: 23 MN=	
	GD 219 37	DA 13.0	α 19,19,23.0 δ 14,34,54 R 57,47,45.9	L	LWP 4044 1+4	84 4 50	.26 .08 9.8	L	O	23:08:18	25:00	5	0	1	C: 190 B: 30 MN=	
			α , , δ , , R , ,	L	SWP 23735 1+5	85 4 50	.21 .08 11.2	L	O	23:39:30	68:00	5	0	1	C: 242 B: 22 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 21 M AUG Y 84 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC210	HD6903 45	G-OIII 5·57	α 01,07,08 δ +19,23,31 R 300,47,44·7	H	LWP 4045 1+1	13581 38 F0	-2·36 0·08 8·2	L	O	18:07:38	45:00	5	0	2	Code (-45, 1435) C=190 B=39. MN=	ARTRU/BH
	"	"	α , , δ , , R , ,	T	SWP 23747 1+2	13718 48 F0	-1·90 0·08 8·5	L	O	18:57:55	90:00	5	3	1	Code (155, 1288) C=245 146 cts E=9.5 @ CIII B=24 MN=	
	HD1671 41	F5III 5·18	α 00,18,28·7 δ +37,41,29 R 320,25,25·6	H	LWP 4046 1+3	19456 61 F0	-0·77 0·08 8·8	L	O	22:40:16	25:00	5	0	3	Code (-1459, -342) (632, 50) B=42 C=255 10 px sat MN=	
	"	"	α , , δ , , R , ,	L	SWP 23748 1+4	14350 49 F0	-0·77 0·08 8·8	L	O	23:10:10	24:00	7	0	0	(-1254, -484) Code sat A 71800 B=22 C=255 MN=	
	HD6903 45	G-OIII 5·57	α 01,07,08 δ +19,23,31 R 300,52,23·0	H	LWP 4047 1+5	14261 100 F0	-1·66 0·08 9·2	L	O	00:00:18	47:00	5	0	3	(44, 1031) 129 FO C=210 B=41 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 22 M AUG Y 84 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA102	FEIGE22 37	WDA 12·6	α 02,27,39·0 δ +05,02,30·0 R 284,57,39·6	L	SWP 23753 1+1	134 1 S0	-2·39 0·20 9·8	L	O	17:33:01	40:00	6	0	1	115 px sat at short λ B=25 Code -384, MN=1, 147 FO	VAUCLAIR/BH
	"	"	α , , δ , , R , ,	L	LWP 4052 1+2	118 6 S0	-1·55 0·08 9·8	L	O	18:18:50	20:00	5	0	3	max C=248 B=28 MN=	
	GD279 37	WDA 12·5	α 01,48,56·0 δ +46,45,12·0 R 303,43,04·1	L	SWP 23752 1+3	138 1 S0	-0·71 0·08 10·2	L	O	19:14:47	25:00	5	0	0	Code (1509, -466) J3 FO max C=172 B=19 MN=	
	"	"	α , , δ , , R , ,	L	LWP 4053 1+4	133 1 S0	-1·16 0·08 10·2	L	O	19:57:31	12:00	4	0	2	Code (1303, -525) max C=174 B=31 MN=	
	~~R548 Sky~~ ~~65~~ ~~37~~ 07	~~WDA~~ ~~14·3~~	α 01,33,44·5 δ -11,35,46·0 R 275,40,48·1	L	SWP 23755 1+5	80	-1·71 0·08 10·2	L	O	20:57:01	150:00	1	0	1	Code 489, 1316 FO 740 20 cts at MP. but not a sausage! MN=	mis IT a red cut whilst during (23/8/84)
	" ~~65~~ 07	"	α , , δ , , R , ,	L	LWP 4054 1+6	"	-0·90 0·08 9·5	L	O	23:30:21	33:04	1	0	1	292, 1454 747 FO See above. MN=	Intended target was just off slit, operator error for this & previous exp.
	FEIGE22 37	WDA 12·6	α 02,27,39·0 δ +05,02,30·0 R 284,52,26·5	L	SWP 23756 1+7	115 17 S0	-1·48 0·08 10·2	L	O	00:31:40	15:00	5	0	1	Code. (-385, -1153) B=22 C=207 121 FO MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 23 M AUG Y 84 RAW TAPE D 23 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
G-M036	HD99897 12	06V 8.3	α 11, 26, 38.5 δ −62, 22, 37 R 19, 36, 58.6	L	LWP 4055 1+1	1420 6/193 F0	−1.57 −1.57 0.08 9.2 9.2	L S	O O	17:25:58 17:30:31	2:30 1:00	7 4	0 0	2	C=235 (X4 to 840) C=152 B=26 MN=	SOMERVILLE/ BH
	〃	〃	α , , δ , , R , ,	L	SWP 23767 1+2	1589 6 F0	−1.65 0.08 9.8	L	O	18:09:11	1:10	5	0	0	C=190 B=17 MN=	
	〃	〃	α , , δ , , R , ,	H	LWP 4056 1+3	1429 6 F0	−1.65 0.08 9.8	L	O	18:15:10	50:00	5	0	3	C=147 B=44 MN=	
	〃	〃	α , , δ , , R , ,	L	LWP 4057 1+4	1442 3 F0	−2.19 0.08 10.5	L	O	19:39:05	1:00	7	0	3	C=255 85 μA sat. min 1800A. B=28 MN=	
	HD99953 23	B2 Ia 6.45	α 11, 27, 00.4 δ −63, 16, 41 R 19, 30, 23.8	L	LWP 4058 1+5	7362 7/558 F0	−1.70 −1.98 0.08 10.8	L S	O O	20:14:01 20:17:35	1:00 0:25	7 5	0 0	0 0	C=255 B=16 17>2400 C=256 – Arc MN=	
	〃	〃	α , , δ , , R , ,	L	SWP 23768 1+6	6111/558 Q1/558 F0	−1.76 −2.10 0.08 9.8	L S	O O	20:20:46 20:24:46	0:50 1:25	5 5	0 0	0 0	C=203 B=19 C=206 MN=	
	〃	〃	α , , δ , , R , ,	H	LWP 4059 1+7	7082 14 F0	−2.10 0.08 10.8	L	O	20:56:05	15:30	5	0	3	C=255 – OK. B=47 MN=	
	〃	〃	α , , δ , , R , ,	L	LWP 4060 1+8	7239 16 F0	−2.10 0.08 10.8	L	O	21:51:30	00:25	6	0	2	C=255 x2 per. aft 1100 2500 B=23 MN=−3600A	

OBSERVATORY LOG

DATE D 23 M AUG Y 84 RAW TAPE D 23 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
G-M036	HD101190 12	06V 7.3	α 11, 35, 49.5 δ −62, 55, 12 R 24, 40, 22.9	L	LWP 4061 1+9	3862 117 F0	−2.10 −2.10 0.08 11.2	L S	O O	22:26:41 22:29:28	0:83 0:22	7 6	0 0	3 3	C=255 sat B= x3. C=255 – 25 μA sat. MN=	SOMERVILLE/DH
	〃	〃	α , , δ , , R , ,	L	SWP 23769 1+10	3742 136 F0	−2.10 0.08 10.2	L	O	22:32:05	0:16	5	0	0	C=1780=18 MN=	
	〃	〃	α , , δ , , R , ,	H	LWP 4062 1+11	3842 109 F0	−2.10 0.08 11.2	L	O	23:08:27	13:30	5	0	3	(Ido. 426, 1752) C=220 MN=	
	〃	〃	α , , δ , , R , ,	L	LWP 4063 1+12	3875 122 F0	−2.02 −2.02 0.08 11.2	L S	O O	00:00:20 00:02:57	0:19 0:18	7 5	0 0	3 3	C=255 ↑ >2450A (X1.5) B=23 C=244 MN=	
	HD101545 13	09.5Ib 6.38	α 11, 38, 14.7 δ −62, 17, 29 R 22, 15, 24.4	L	LWP 4064 1+13	9118 25 F0	−2.01 0.08 11.2	L S	O O	00:37:06 00:39:51	0:12 0:09	7 4	0 0	2	C=255·(X1.7)= 17 2550A. B=25 C=172 MN=	
			α , , δ , , R , ,		1										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 24 M AUG Y 84 RAW TAPE D 24 M AUG

PROPOSAL	OBJECT TYPE 159	SP. TYPE m_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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GE251	N145AS in LMC/72	HII 14	α 05,40,31·1 δ −69,46,09 R 294,09,05·8	L	SWP 23771 1+1	80	−1·6 0·08 8·5	L	O	18:33:55	30:00	1	O	1	55cts at RP (PNT = −14,−203) gde (474 F.O) 1247,78 (MN= FO	ISRAEL WAMSTEKER/ ISA
	〃	〃	α ,, ,, δ 〃 ,, R ,, ,,	L	LWP 4072 1+2	〃	−1·62 0·08 8·8	L	O	19:11:25	60:00	2	O	3	(1025,925, 2FOFO) Max = 60 cut B = 45. MN=	
	N11A LMC 72	12	α 04,57,10.0 δ −66,27,54 R 284,20,35·1	L	SWP 23772 1+3	139 20 50	−1·96 0·08 8·8	L	O	21:12:34	~~150:00~~ 90:00	5	5	0	Gde = (1433, −96FO 152) MN=	
			α ,, ,, δ ,, ,, R ,, ,,	L	LWP 4073 1+4	122 17 5.0	−2·46 ·08 9·2	L	O	22/48/21	90/0	7	0	1	Sat. 2800 - 2500 MN=	
	SK-66 36 72	11.4	α 04,57,01 δ −66,27,52 R 284,20,35	L	SWP 23773 1+5	456 0 5.0	−1·57 ·08 9·5	L	O	00/25/01	22/00	3	0	0	Max. 50 @ 1800 MN=	
			α ,, ,, δ ,, ,, R ,, ,,		1+										MN=	
			α ,, ,, δ ,, ,, R ,, ,,		1+										MN=	
			α ,, ,, δ ,, ,, R ,, ,,		1+										MN=	

OBSERVATORY LOG

DATE D 25 M AUG Y 84 RAW TAPE D 25 M AUG

PROPOSAL	OBJECT TYPE	SP. TYPE m_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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GSO54	JUPITER 3	— −2·6	α 18,11,39·0 δ −23,28,43·0 R 91,13,50·2	L	SWP 23780 1+1	80	−1·99 0·08 9·2	L	O	17:56:46	15:00	7	4	1	Guiding on Ganymede. 155 @ Ly α 1. (615, 902) 2 u 572 B = 13 MN= FO.	FRICKE/ISA sat 1A > 1800Å
	SATURN 3	— 0·6	α 14,36,00·8 δ −12,56,14 R 72,52,0·5	L	SWP 23781 1+2	80	−2·20 0·08 9·2	L	O	19:24:04	60:00	7	4	1	Guiding on Titan. (69, 414) 1st half (72, 419) 2nd half MN=	900 FO. Max Ly α = 130 Sat 1A > 1800 Å.
	URANUS 3	— 5·6	α 16,29,30·7 δ −21,47,41 R 81,11,43·6	L	SWP 23782 1+3	12845 1056 FO	−1·62 0·08 9·5	S L	9/5	21:29:14 21:29:14	188:0 105:0	3 0	4 4	2 2	LAP shut at 23:13:25 (i.e 104:11 in LAP) (249,−93) Gde on centre of Lyα. MN=	D=35 C=127 Ly α = 136 LAP Ly α = 77 SAP
			α ,, ,, 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 Aug Y 84 RAW TAPE D 26 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 DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC024	HD 192713 45	G2 5.2	α 20, 13, 20.5 δ +23, 21, 17 R 46, 11, 8.8	H	SWP 23789 1+1	17098 55 FO	-1.36 .10 9.5	L	O	17:27:31	150:00	2	3	1	MN=	CHE – JOHANNSTENKEL /RG
	〃	〃	α , , δ , , R , ,	H	LWP 4086 1+	17320 41 FO	-1.27 .08 9.5	L	O	20:05:04	90:00 105:00	4	6	2	loc bg ~60 C ≥ 180 gross Mg II dat 2:3 x MN=	
	HD 161096 47	K2 2.8	α 17, 41, 0.0 δ +4, 35, 12 R 7.7, 30, 37.1	L	SWP 23790 1+	1581 261 FU	-1.27 .08 9.5	L	O	22:25:41	120:00	3	5	0	log bg ~40 C ~70 gross MN=	
			α , , 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 84 RAW TAPE D 27 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 DAC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC024	HD 192909 47	K4 3.9	α 20, 13, 55.5 δ 47, 33, 35 R 35, 56, 82.9	H	SWP 23796 1+1	598 98 FU	-2.07 .08 10.2	L	O	17:41:41	25:00	4	4	0	loc bg ~40 Cont ~160 gross weak PCyg profiles MN=	CHE-BOHNEN – STENGEL /RG
〃	〃	〃	α , , δ , 〃 , R ~~35~~, 46, 250	H	LWP 4093 1+2	590 104 FU	-1.73 .08 10.5	L	O	18:11:55	25:00	5	7	2	loc bg ~45 Cont ≥ 200 gross MN=	〃
〃	HD 192577 47	K4 3.7	α 20, 12, 3.3 δ 46, 35, 20 R 36, 46, 3.0	H	SWP 23797 1+3	674 120 FU	-1.39 .08 10.5	L	O	18:57:04	12:00	5	4	0	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	H	LWP 4094 1+4	676 110 FU	-1.39 .08 10.8	L	O	19:29:43	12:00	7	7	2	more than 2050 pix sat. 2-3 x MN=	〃
〃	HD 205114 45	G2 6.2	α 21, 29, 46.5 δ 52, 23, 55 R 15, 4, 25.5	H	SWP 23798 1+5	8659 26 FO	-1.09 .08 10.5	L	O	20:15:03	200:00	4	4	1	loc bg ~65 C ~200 gross MN=	〃
〃	HD 187076 49	M3 3.6	α 19, 45, 9.4 δ 18, 24, 34 R 57, 35, 11.1	H	LWP 4095 1+6	819 141 FU	-3.37 .08 9.5	L	O	00:17:15	32:00	7	7	2	MN=	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 28 M Aug Y 84 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/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
GM115	NGC 3918 70	Pl. Neb 9	α 11, 47, 49.02 δ −56, 54, 16.2 R 21, 16, 51.8	H	SWP 23806 1+1	646 488 FO	−4.27 .08 9.8	S	O	17:52:28	40:00	1	3	0	Loc bg ~15 CIII ~85 DN gross MN=	CLEGG + SAHU / RC
	"	"	α , , δ , " , R , ,	L	LWP 4096 1+2	660 47 FO	−3.30 .08 8.8	L	O	18:38:22	4:30	3	4	1	Loc bg ~27 NE IV ~140 DN gross C ~65 gross MN=	
	"	"	α , , δ , " , R , ,	H	SWP 23807 1+3	654 447 FO	−2.77 .08 10.2	S	O	19:07:23	80:00	1	4	0	Loc bg ~35 CIII ~145 gross CIV ~140 He II ~120 MN=	
	"	"	α , , δ , 4 , R , ,	H	SWP 23808 1+4	679 585 FO	−.92 .08 10.5	S	O	21:11:22	80:00	1	4	1	observing at 4" E used RP (−6, −220) CIII ~140 CIV ~120 Loc bg ~40 MN= HeII ~120	
	"	"	α , , δ , 4 , R , ,	H	SWP 23809 1+5	663 566 FO	−2.54 .08 10.8	S	O	23:03:25	103:00	1	4	1	observing at 4" W used RP (−26, −196) Loc bg ~40 CIII ~165 CIV ~120 MN= HeII ~140	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 29 M Aug Y 84 RAW TAPE D 29 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 mmm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GM236	Diff Light IUE2 near 7 on 73	Refl. Neb. (99.)	α 5, 38, 22 δ −2, 2, 0 R 280, 16, 55.8	L	SWP 23816 1+2	B.O.	−2.3 .08 9.2	L	O	17:48:24	120:00	3	3	1	Loc bg ~25 C ~90 gross Gde 1070, −300 5102 FU MN=	YE BOER / RC
	"	"	α , , δ , " , R , ,	L	LWP 4100 1+3	B.O.	−7.77 .08 8.8	L	O	17:30:51	162:00	3	0	2	"Serendipity" C ~90 gross Loc bg ~50 MN=	
	"	"	α , , δ , 4 , R , ,	E	FES 1581 1+1					18:43:00	(160:00)			0	FOR SWP 23816 MN=	
	Diff. Light IUE #2 73	Ref Neb (99.)	α 5, 38, 18 δ −2, 0, 0 R 280, 13, 1.7	L	SWP 23817 1+4	B.O.	1.55 .08 10.5	L	O	20:25:38	60:00	4	3	0	Loc bg ~20 C ~120 Gde 576, −190 5763 FU MN=	
	"	"	α , , δ , 4 , R , ,	L	LWP 4101 1+5	B.O.	−.78 .08 10.5	L	O	20:51:33	60:00	3	0	1	"Serendipity" C ~80 gross Loc bg ~40 MN=	
	Diff. Light IUE #3 73	Ref Neb (99.)	α 5, 38, 26 δ −2, 4, 0 R 280, 12, 31.2	L	SWP 23818 1+6	B.O.	−1.90 .08 10.8	L	O	22:01:55	105:00	3	0	1	C ~60 Loc bg ~30 Gde 1573, −405 6397 FU MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 30 M Aug Y 84 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	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
GQ256	F9 84	Seq I 12.8	α 1 ,21 ,51.2 δ −59, 3 ,59 R270 , 2 ,15.2	L	SWP 23824 1+1	49 50	−3.65 1.48 8.5	L	O	15:36:15	75:00	2	5	1	4α ~200 loc bg ~ 70 6dn (−1062, +1, 15750 MN=	Bo
	4	4	α , , , δ , , , R , ,	L	LWP 4106 1+2	36 13 50	−2.20 .08 8.5	L	O	16:58:30	60:00	3	4	2	MgII ~ 160 loc bg ~ 45 C ~ 100 MN=	4
T00	Nova Vul 55	N.A ~8	α 19 ,24 ,34 δ 27 ,15 ,52 R 58 ,50 ,54.3	L	LWP 4107 1+3	2154 6/148 F0	−2.19 .08 9.2	L	O	19:02:34	3:00	7	7	1	−458,565	
	11	11	α , , δ , , R , ,	L	SWP 23825 1+5	2178 5 2340 F0	−2.19 .08 8.5	L S	O O	19:17:04 19:52:48 19:[illegible]	30:00 10:00	7 5	6 5	0 0	MN=	
	9	9	α , , δ , , R , ,	L	LWP 4108 1+4	2328 6 F0	−1.87 .08 9.2	L	O	20:06:21	1:00	5	6	1	MN=	
			α , , δ , , R , ,	H	LWP 4109 1+6	2467 6 F0	−.70 .08 9.9	L	O	20:41:06	36:00	5	5	3	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 31 M Aug Y 84 RAW TAPE D 31 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 BRG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SM236	DFL IUE4 73	—	α 5 ,38 ,34 δ −2 , 8 , 0 R279,28 , 2.3	L	SWP 23831 1+2	B/0	−3.38 1.96 7.2	L	O	14/59/30	199/55	3	1	4	cont. 110 } 1300A Bg 70 } MN=	de Boer W W
〃	〃	〃	α , , , δ 〃 , 〃 , 〃 R , ,	L	LWP 4117 1+5	B/0	−3.38 2.00 7.5	L	O	15/01/04	215/00	2	1	8	POS take to be on the SWP +Δ ape. MN=	〃 〃
〃	DFL. IUE4 73	—	α 05 . 38 . 34 δ −2 , 08 , 00 R279 , 28 , 2.3		FES 1582 1+1					18/28/04					MN=	〃 〃
〃	DFL. IUE5 73	—	α 5 , 38 , 25 δ −2 , 16 , 12 R279, 24 , 47	L	SWP 23812 1+6	B/0	−2.05 .08 9.2	L	O	19/36/56	100/00	2	1	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 1 M SEP Y 84 RAW TAPE D 1 M SEP

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.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GH116	DD M-1 70	P.N. 14	α 16, 38, 34.7 δ +38 42, 58 R 84, 3, 53.4	L	SWP 23839 1+1	55 0 50	-2.29 1.98 7.8	L	O	151057	15:00	3	0	1	m_{PES} = 13.77 C = 59 B = 12 MN=	ALEGG AC
"	—	—	α , , , δ , , R , ,	L	LWP 4123 1+2	34 0 50	-1.81 0.88 8.2	L	O	153909	50:00	4	0	1	C = 176 B = 46 MN=	
			α , , δ , , R , ,	L	SWP 23840 1+3	36 0 50	-0.29 0.08 8.5	L	O	164749	60:00	3	0	1	(804 - 1432) 40E B = 23 C = 100 MN=	
	SN-1		α 16, 18, 30.4 δ -00, 09, 6.2 R , ,	L	SWP 23841 1+5	70 2 50	-1.91 0.08 8.8	L	O	191444	20:00	3	3	1	NW 100; C(1900) = 75 B = 17 C(1400) = 107 MN=	
			α , , δ , , R , ,	L	LWP 4124 1+6	71 0 50	-1.91 0.08 8.5	L	O	194122	40:00	5	0	1	C = 196 B = 40 MN=	
			α , , δ , , R , ,	L	SWP 23842 1+7	72 4 50	-1.90 0.08 9.2	L	O	2036:55	40:00	5	4	1	NW 161 C(1300) = 180 B = 18 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE D 2 M SEP Y 84 RAW TAPE D 2 M SEP

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.	PK. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA198	HD37490 24	B3IIIe 4.5	α 3, 36, 32.6 δ 4, 5, 40 R 277, 9, 47.6	H	SWP 23851 1+(	404 50 UF	-3.60 1.62 7.2	L	O	150023	2:10	5	0	1	MN=	BARYLAK AC
"	HD5394 26	BØIVe 7.2	α 0, 53, 40.4 δ 60, 26, 47 R 326, 39, 40	H	SWP 23852 1+2	3349 1200 UF	-2.58 0.56 7.2	S	O	155259	0:16	3	0	1	C = 103 B = 25 MN=	
"	—	—	α , , δ , , R , ,	H	LWP 4131 1+5	3642 700 UF	-2.52 0.24 7.2	L	O	161102	0:06	5	0	1	MN=	
	HD200120 26	B1.5Ve 4.7	α 20, 58, 7.4 δ -47, 19, 30 R 31, 7, 0	H	SWP 23853 1+3	27080 480 FO	-2.08 0.08 7.5	L	O	164623	1:30	5	0	1	MN=	
	HD138749 25	B7 4.2	α 15, 30, 54.7 δ 31, 31, 36 R 93, 2, 39	H	SWP 23854 1+4	545 180 FW	-2.43 0.08 7.5	L	O	173627	1:45	5	0	1	MN=	
GI TOO	2 AND 57	Pec	α 23, 31, 15 δ +48, 32, 31 R , ,	L	SWP 23855 1+6	334 1 FO	-2.39 0.08 7.2	L	O	181916	25:00	3	8	1	C = 95 (1900)	VIOTTI AC
			α , , δ , , R , ,	L	LWP 4132 1+7	317 2 FO	-1.66 0.08 7.8	L	O	185209	5:00	2	5		MN=	
			α , , δ , , R , ,		SWP 23856 1+8	321 5 FO	-1.67 0.08 7.8	L	O	190323	10:00	5	8	1	C = 248 E = cat (HgII spin-orbit)	
			α , , δ , , R , ,	A						193031	5:00	3	5		C = 72 MN E = 154 (HgII)	
			α , , δ , , R , ,		SWP 23856 1+8	321 5 FO	-1.67 0.08 7.8	L	O	194203	95:00	1	7	2	MN=	

SERVICE LOG

DATE D 03 M SEP Y 84 RAW TAPE D 03 M SEP

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	DES CTS ref. p. slot window/f.s	FOCUS BKG FHDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI 179	WX HYI 54	DNova 12·9	α 02, 08, 28·5 δ −63, 32, 47 R 235, 49, 43·2	L	SWP 23863 1+1	111 7 50	−2·56 0·54 6·8	L	O	15:07:23	40:00	3	3	1	(gal 575, 44.) B=16 C=88 E=84, λ_{gal}=116 MN=	HASSALL/BH
	〃	〃	α , 〃 , δ , , R , ,	L	LWP 4138 1+2	30 6 F0	−2·01 0·08 6·8	L	O	15:51:53	30:00	4	0	2	(376 186) C = 181 B=35 MN=	
	〃	〃	α , 〃 , δ , , R , ,	L	SWP 23864 1+3	129 14 50	−1·55 0·08 7·5	L	O	16:27:39	45:00	3	3	1	(572, 44) B=25 C=99 E=95, λ_{gal}=163 MN=	
	VW HYI 54·	Dwarf Nova 14·0	α 04, 09, 32·3 δ −71, 25, 29 R 267 53, 39·1	L	LWP 4139 1+4	49 – 50	−2·62 0·08 7·5	L	O	17:46:31	105:00	6	6	2	(849, 466) 2kR B=26 E=255, λ_{gal} II C=255 NH1 2700 λ_{gal} 33 pk sat. MN=	F0
	〃	〃	α , 〃 , δ , , R , ,	L	SWP 23865 1+5	37 2 50	−1·9 0·08 7·2	L	O	19:35:32	105:00	5	0	1	B=21 C=173 λ_{gal}=210 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE 4 SEP 84 RAW TAPE 4 SEP

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	DES CTS ref. p. slot window/f.s	FOCUS BKG FHDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GM 115	SDDM-1 70.	PlNeb 4.2	α 16, 38, 34.7 δ 38, 48, 05 R 86, 35, 59·3	L	SWP 23872 1+1	42 2 50	−2·51 ·36 8·5	L	O	14:43:42	135:00	5	5	1	C~240. Loc bg~30 Code 744, 1457 MN= 373 F0	CLEGG + SAHU /RB
	〃	〃	α , , δ , 4 , R , ,	L	LWP 4145 1+2	37 3 50	−1·14 ·08 7·8	L	O	17:06:04	150:00	7	1	2	MN=	
	SN-1 70	PlNeb 14·0	α 16, 18, 30·4 δ −0, 9, 6 R 82 49, 29	L	SWP 23873 1+3	68 3 50	−1·77 ·08 8·2	L	O	20:18:05	50:00	5	0	0	C~200 Loc bg~20 MN=	
			α , , 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 USE: DATE D 5 M Sep Y 84 — RAW TAPE D 5 M Sep

PROPOSAL	OBJECT TYPE	SP. TYPE mv	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	RES CTS ref. p. slot window/I.s	FOCUS DNG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GQ225	SC 120 84	8C4 14.3	α 4,30,31.6 δ 5,15,0 R277.22.37.4	L	SWP 23880 1+	B/0 36/14 5.0	-2.03 .08 6.1	L	0	15/19/01	220:00	3	4	4	loc bg ~38 Ε ~160 C ~90 MN=	WAMSTEKER R.G.
			α , , δ , , R , ,	L	LWP 4153 1+	33 2 50	-1.07 .08 6.5	L	0	19:06:13	130:00	3	4	3	loc bg ~50 HgII ~190 C ~150 MN=	
			α , , 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 USE: DATE D 6 M Sep Y 84 — RAW TAPE D 6 M Sep

PROPOSAL	OBJECT TYPE	SP. TYPE mv	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	RES CTS ref. p. slot window/I.s	FOCUS DNG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI004 + GC023	HD 31964 40	FoIa+? 3.0	α 4,58,22.5 δ 43,45,5 R274.53.365	H	LWP 4158 1+	1282 283 FU	-1.80 1.48 6.8	L	0	14:41:50	8:00	5	0	4	MN=	RG
"	"	"	α , , δ , , R , ,	H	SWP 23885 1+2	1269 310 FU	-1.37 .96 7.5	L	0	14:59:50	60:00	4	0	1	"C" ~180 loc bg ~50 MN=	"
"	"	"	α , , δ , , R , ,	H	LWP 4159 1+3	1277 172 FU	-1.24 .30 7.5	L	0	16:02:57	40:00	7	0	2	MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 23886 1+4	1275 336 FU	-1.58 .08 8.2	L	0	16:49:28	3:00	5	0	0	MN=	"
"	"	"	α , , δ , , R , ,	L	LWP 4160 1+5	1286 191 FU	-1.92 .08 8.2	L	0	17:46:55	0:12	7	0	1	MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 23887 1+6	1277 323 FU	-1.93 .08 8.2	L	0	17:52:35	20:00	7	0	0	C ~7X MN=	"
"	"	"	α , , δ , , R , ,	L	LWP 4161 1+7	1285 284 FU	-1.93 .08 8.5	L	0	18:33:32	2:00	8	0	2	C ~20X MN=	"
"	"	"	α , , δ , , R , ,	H	SWP 23888 1+8	1290 324 FU	-2.27 .08 8.5	L	0	19:04:55	132:00	7	0	1	MN=	"

OBSERVATORY USE

DATE: D 7. H SEP Y 84 — MAN TAPE: D 7. M SEP

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	EXPOS. CTS est. p. slot window/t.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	TAU SCO 20	BOY 2·84	α 16, 32, 46 δ -28, 06, 51 R 81, 02, 18·0	H	SWP 23894 1+1	1947 326 FU	-2·72 2·38 7·5	L	O	14:09:07	0:06	5	0	1	B=21 C=200 MN=	HASJALL/BH
	"	"	α , , δ , , R , ,	H	LWP 4168 1+2	2057 416 FU	-2·78 1·98 7·5	L	O	14:37:01	0:06	5	0	1	B=2·8 C=226 MN=	"
G I 179	VW HYI 54	Durchf Note 11·0	α 04. 09. 32·3 δ -71, 25, 29 R 259, 05, 05·9	L	SWP 23895 1+3	143 25 FO	-2·67 0·62 7·5	L	O	15:25:56	7:00	6	0	0	(-888, -1118) 20px sat @ B=18 MN=	
	"	"	α , , δ , , R , ,	L	LWP 4169 1+4	137 4 FO	-1·66 0·08 7·5	L	O	16:23:26	4:00	5	0	1	(-1087, -976) B=29 C=250 MN=	
	"	"	α , , δ , , R , ,	L	SWP 23896 1+5	134 1 FO	-1·66 0·08 7·5	L	O	16:52:45	6:30	5	0	0	(-888, -1118) 3px =255 B=13 MN=	
	"	"	α , , δ , , R , ,	L	LWP 4170 1+6	129 140 21 FO	-1·33 -0·84 0·08 7·8	L	O	17:19:23 17:28:53	4:00 4:00	5 5	0 0	2 2	(RP 2,-212) (-1071, -984) (RP -34, -204) (-1108 MN=792)	MAX 224 B=36
	"	"	α , , δ , , R , ,	L	SWP 23897 1+7	128 138 5,2 FO	0·66 -0·80 0·08 7·5	L	O	18:02:08 18:13:30	6:00 6:00	5 5	0 0	0 0	RP (-34, -204) (-905, -1119) RP (2, -212) (-868, -1126) MN=	Max = 218 B=13
PHCAL	HD 60753 21	B3 IV 6·69	α 07, 32, 08·14 δ -50, 28, 28·9 R 303, 35, 48·4	L	LWP 4171 1+8	7231 47 FO	-1·58 0·08 7·8	L	O	19:38:23	0:25·44	5	0	1	Trail R=0·79, I=1 t.on/t.s: 25.64/0.5sec C=209 B=21 MN=	

OBSERVATORY USE

DATE: 7 SEP 84 — MAN TAPE: 07 SEP

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	EXPOS. CTS est. p. slot window/t.s	FOCUS BKG THDA	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 6·69	α 07, 32, 08·14 δ -50, 28, 28·9 R 303, 35, 48·4	L	SWP 23898 1+9	6485 50 FO	-1·18 0·08 8·2	L	O	19:47:12	0:40·82	5	0	0	R=0·49 I=1 40. 8163secs. B=20 C=194 MN=	HASJALL/BH
	"	"	α , , δ , , R , ,	L	LWP 4172 1+10	6546 6596 10/50 FO	-2·27 -2·27 0·08 8·2	L S	O O	20:48:42 20:52:21	0:06 0:18	5 6	0 0	1 1	C=222 B=25 40px sat MN=	
	"	"	α , , δ , , R , ,	L	SWP 23899 1+11	6536 6555 19/172 FO	-2·27 -2·27 0·08 8·2	L S	O O	20:56:19 20:59:48	0:10 0:30	5 6	0 0	0 0	C=208 B=13 10px sat MN=	
			α , , 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 08 M SEP Y 84 — IAM TAPE D 08 M SEP

PROPOSAL	OBJECT TYPE	SP. TYPE / m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/t.s	FOCUS BKG THDA	APERTURE	AP. SHIFT	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	BD +33 2642 20	B2 IV 10.83	α 15, 50, 01.0 δ +33, 05, 28.0 R 95, 51, 00.6	L	SWP 4179 1+1	161 2 FO	-1.66 1.84 7.5	L	O	14:52:44	3:10	5	0	2	B=24 C=239 MN=	HASSALL/BH
	BD +33 2642 20	"	α , , δ , , R , ,	L	SWP 23903 1+4	162 1 FO	-1.61 1.82 7.2	L	O	16:58:54	4:00	5	0	0	C=205 B=16 MN=	
	HD 214680 13	O8 III 4.9	α 22, 37, 01.0 δ +38, 47, 22 R 10, 38, 35.7	L	LWP 4180 1+2	26412 — FO	-1.58 0.96 7.8	L	O	15:44:38	0:02	5	0	1	R=9.90 I=1 t. exp = 2.0202 secs C=214 B=32 MN=	
	"	"	α , , δ , , R , ,	L	LWP 4181 1+3	25272 126 FO	-1.71 0.08 8.2	L	O	16:19:06	0:06	7	0	1	R=3.00 I=1 t. exp = 6.66666 secs. (3x) B=21 MN=	
	BD +75 325 16	sd O 9.54	α 08, 04, 43.0 δ +75, 06, 48.0 R 227, 44, 39.5	L	LWP 4182 1+5	542 2 FO	-3.51 0.08 7.8	L		17:38:50	1:40	5	0	1	R=0.20 I=1 t. exp = 100.0 s C=227 B=38. MN=	
	"	"	α , , δ , , R , ,	L	SWP 23904 1+6	539/538 1/4 FO	-3.51 -3.65 0.08 7.5	L S	O O	17:48:23 17:52:32	0:14 0:42	5 6	0 0	0 0	C=214 B=18 8px sat MN=	
GI179	VW HYI 54	Dwarf Nova 13.0	α 04.09.32.3 δ -71.25.29 R 257, 58, 11.1	L	LWP 4183 1+7	92 4 SO	-2.19 0.08 7.8	L	O	18:51:05	25:00	5	0	2	(-1068, -994) 451 FO C=209 B=34 MN=	
	"	"	α , , δ , , R , ,	L	SWP 23905 1+8	79 1 SO	-1.32 0.08 7.5	L	O	19:21:28	35:00	4	0	0	(-869, -1141) C=120 B=16 MN=	

PROPOSAL	OBJECT TYPE	SP. TYPE / m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/t.s	FOCUS BKG THDA	APERTURE	AP. SHIFT	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI179	WX HYI 54	Dwarf Nova ~15.0	α 02, 08, 285 δ -63, 32, 47 R 230, 18, 24.9	L	LWP 4184 1+9	BO	-0.45 0.08 7.8	L	O	20:28:14	50:00	3	4	1	19 cts S/O at RP. (360, 231) 244 S.O. B=36 C=122 E=460 MN=	
			α , , 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 USE

DATE D 9 M Sep Y 84 RAW TAPE D 9 M Sep

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot window/I.S.	FOCUS DIG. THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GM037	HD 23478 21	B3 IV 6.8	α 3, 43, 32 δ 32, 8, 8 R 286.32, 25	H	LWP 4190 1+1	6208 19 F.0	-2.99 1.4 6.5	L	0	14/52/56	12/08	5	0	2	@ Mg II C = 200 Bg = 48 MN=	CANILL WW
"	"	"	α , , δ " , " , " R , ,	H	SWP 23920 1+2	6223 23 F.0	-2.11 .96 6.5	L	0	15/14/48	29/0	5	0	1	MN=	" "
"	HD29309 20	B2 V 7.1	α 04. 35. 03 δ 31, 53, 59 R 279. 14. 07	H	LWP 4191 1+3	4153 10 F.0	-1.09 .20 6.5	L	0	16/18/29	49/0	5	0	2	MN=	" "
"	"	"	α , , δ " , " , " R , ,	H	SWP 23921 1+4	4148 7 F.0	-.56 .08 6.8	L	0	17/12/21	180/0	6	0	2	λ > 1600 a bit saturation MN=	" "
"	HD 25539 21	B3 V 6.9	α 4, 1, 32.2 δ +32, 26, 07 R 284, 1, 6.8	H	LWP 4192 1+5	5886 F.0	-2.48 .08 6.8	L	0	20/39/15	15/0	5	0	1	MN=	" 4
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY USE

DATE D 10 M SEP Y 84 RAW TAPE D 10 M SEP

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot window/I.S.	FOCUS DIG. THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI234	VW Hyi 54	Dwarf Nova 13.6	α 04, 09, 32.3 δ -71, 25, 29.0 R 256, 06, 58.7	L	LWP 4201 1+1	67/61 / SO	C1.69 C1.62 0.14 7.2	L	0	15 22:35 16:24:04	52:00 52:00	5	6	1	B=43 RP= (2, -212) (923, 576) RP = (-34, -204) (913, 580) MN=	HASSALL/BH 3 pix cut at Mg II 3 pix cut at Mg II
	"	"	α , , δ " , " , R , ,	L	SWP 23923 1+2	70/66 9i SO	-0.89 -0.89 0.08 6.5 7.5	L	0	17:24:51 18:24:57	52:00 52:00	4	4	0	C = 146 B=210 E=107 RP = (-34, -204) (974, 440) 274 FO. RP = (2, -212) (1029, 432) MN=	
	WXHyi 54	Dwarf Nova ~14.8	α 02. 08. 285 δ -63, 32, 47 R 228, 11. 06.9	L	SWP 23924 1+3	BO	-.045 0.05 8.2	L	0	20:36:42	41:00	2	3	0	(13 ch at RP (55 1, 102) 235 FO C = 43 B = 26 E((55)) = 57 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATION LOG

DATE D 11 M Sep Y 84 RAW TAPE D 11 M Sept

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TEST CTS: (ref. p. slot index/f.s	FOCUS BIAS THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA094	GD 294 37	WPA 12	α 07, 13, 20.0 δ +58, 29, 48 R 247, 4, 25.2	L	SWP 23929 1+1	216 6 50	-2.16 1.68 6.5	L	O	4, 29.43	10:00	2	0	1	ydc X = 1147 Y = -1542 ct: 415(50) C = 42 B = 30 MN=	VAUCLAIR / CC:
"	"	"	α , , δ , " , R , ,	L	LWP 4207 1+2	219 4 50	-1.58 1.02 6.8	L	O	15:06:19	30:00	4	0	3	ydc X = 933 Y = -13 95 ct: 493(50) B = 42 C = 157 MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 23930 1+3	219 4 50	-1.58 .08 7.2	L	O	16 06.32	75:00	3	0	1	X = 1143 ct: 398(50) Y = -1543 B = 25 C = 100 MN=	"
"	GD 419 37	WDA 13	α 01, 34, 55.0 δ +83, 19, 48 R 325, 57, 53.0	L	LWP 4208 1+4	75 2 50	-1.71 .40 7.5	L	O	18 07:34	25:00	5	0	2	GDC X = -305 Y = -422 ct = 164 FO B = 35 C = [illegible] MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 23931 1+5	80 1 50	-1.71 .08 8.2	L	O	18:46:24	45:00	6	0	0	GDC X = -105 Y = -566 ct = 181 FO B = 18 C = [illegible] MN=	"
"	G 261-45 37	WDA 13	α 21, 36, 22.0 δ +82, 49, 48 R 25, 30, 5.3	L	LWP 4209 1+6	83 1 50	-.93 .08 8.2	L	O	19:59:31	25:0	5	0	2	GDC X = -611 Y = 397 ct = 286 FO B = 35 C = 225 MN=	"
"	"	"	α , , δ , " , R , ,		SWP 23932 1+7	82 2 50	-1.71 .08 8.5	L	O	2030:34	47:00	6	0	0	GDC X = -410 Y = 261 ct = 227 FO DD = [illegible] MN=	"
			α , , δ , " , R , ,		1+										MN=	

OBSERVATION LOG

DATE D 12 M Sept Y 84 RAW TAPE D 12 M Sept

PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TEST CTS: (ref. p. slot index/f.s	FOCUS BIAS THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FI091	A 0538-44 59	B Van 13/14	α 05, 35, 42.8 δ -66, 53, 40.4 R 274, 53, 15.5	L	SWP 23940 1+1	BO 90? 50	-2.46 .76 7.2	L	O	15.00 05	100:00	5	0	1	ydc 788 -618 127 FO C = 242 B = 26 MN=	PRINJA / CG
"	"	"	α , , δ , " , R , ,	L	LWP 4213 1+2	"	-1.69 .08 6.1	L	O	16:53 00	45:00	4	0	3	ydc 589 -479 146 FO C = 173 B = 40 MN=	"
GA102	GD31 37	WDA 14.4	α 02. 31. 37.5 δ -5, 24, 52 R 270, 34, 2.6	L	SWP 23941 1+3	BO 31 (50)	-1.07 .08 7.5	L	O	18 28 43	170.00	4	0	2	ydc -122 -1626 180 FO C = 170 B = 40 MN=	VAUCLAIR / CG
			α , , 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 84 RAW TAPE D 13 M SEP

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION POLL NUMB.	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FILT. CTR ref. p. slot nm/w/l.s	FILTER (BB) THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CI 179	VW HYI	Dwarf Nova 14·2	α 04, 09, 32.3 δ −71, 25, 29.0 R 253, 10, 35.1	L	SWP 23951 1+1	37 6 50	(−2.77 −2.20 4.00) 0.08 (8.2) 8.5	L L	O	05:09:14 16:06:21	52:00 52:00	4 4	3 3	1 1	B=37 C=142, E=109 (−34, −204) (965, 490) (2, −212) MN (1003, 487)	HASSALL / BII 237.F0
	"	"	α , , δ , , R , ,	L	LWP 4220 2+2	49 19 50	(−1.44 −1.98) 0.08 (7.0) 8.5	L	O	17:05:19 18:01:54	52:00 52:00	5	5	1	B=27 C=207, E=240 (2, −212) (802, 623) (−34, −204) MN (768, 629)	
	WX HYI 54	Dwarf Nova 13·3	α 02, 08, 28.5 δ −63, 32, 47 R 225, 03, 45	L	SWP 23952 1+3	80 4 50	−1.58 0.08 8.5	L	O	19:22:24	60:00	5	5	0	(539, 130) glob B=24 C=196 E=172 MN=	
	"	"	α , , δ , , R , ,	L	LWP 4221 1+4	71 — 50	−2.65 0.08 8.8	L	O	20:29:44	47:00	5	6	1	B=23 (341, 272) 263.F0 SW saturn ny II 70 ub at 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 84 RAW TAPE D 14 M Sep

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION POLL NUMB.	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FILT. CTR ref. p. slot nm/w/l.s	FILTER (BB) THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA123	HD144941 ·20	B9 10·1	α 16, 06, 21 δ −27, 08, 06 R 77, 11, 275	H	SWP 23961 1+1	304 7 F.0	−2.87 1.90 7.5	L	O	14/49/65	210/0	3	0	3	MN=	Jeffery WW
			α , , δ , , R , ,	H	SWP 23962 1+ auto	314 3 F.0	−1.92 .08 9.2	L	O	18/47/46	179/0	3	0	1	taken for 1 min out of aperture 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=	

OBSERVATION LOG

DATE D 15 M sep Y 84 RAW TAPE D 15 M sep

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION POLL NAME	RESOL.	CAMERA IMAGE NO. RAW T. FILE	IRIS CTS cnt. p. slot nrckw/l.n	FOCUS NR: THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GEOS7	TFLOOD 402	99	α 00,14,04.1 δ +81,18,26.5 R , ,		SWP 23970 1+1						00:06				MN=	GONDHALEKAR /CG
GEOS7	Q0014+81 85	QSO 16.5	α 00,14,04.1 δ +81,18,26.5 R 348,31,26.6	L	SWP 23970 1+1	BO 10 50	-4.12 1.44 7.5	L	O	15:07:21	370.00	1	1	3	gde X = -109 Y = -1157 US = 1064 R Geocoronal gamma weak MN= (max=210)	"
			α , , 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=	

OBSERVATION LOG

DATE D 16 M sep Y 84 RAW TAPE D 16 M sep

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION POLL NAME	RESOL.	CAMERA IMAGE NO. RAW T. FILE	IRIS CTS cnt. p. slot nrckw/l.n	FOCUS NR: THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GEOS7	MICH 393 88.	blue compact galaxy 15	α 02,03,42.6 δ -0,31,46.4 R273,38,9.2	L	SWP 23979 1+1	451 BO	3.09 .66 6.8	L	O	14:55.00	382.0	3	5	3	gde X = -61 Y = -715 US = 157 50 B=84 C=165 MN= CII = 202 CIII = 154 Lyα : fewer X MN=	GONDHALEKAR /CG
			α , , δ , , R , ,		1+											
			α , , 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 Sep Y 84 RAW TAPE D 17 M Sep

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION POLL NAME	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TEL CTR ref. p. slct mrkw/l.c	FILTER NO: THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	BD+75°325 16.	Sd O 9.54	α 08,04,43.0 δ +75,06,48 R 235, 3, 37.5	L	SWP 23984 1+1	537 3 OF	-2.48 .40 6.8	L	O	15:21:15	0:14s	5	0	0	C = 195 B = 17 MN=	GRY/CG
"	"	"	α , , δ , " , R , ,	L	LWP 4240 1+2	558 0 OF	-2.48 .48 6.8	L	O	15:24:36	0:20	5	0	3	C = 228 B = 34 MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 23990 1+3	505 1 OF	-1.46 .08 7.2	L	O	16:27:20	0:47	5	0	0	Trail, R = 0.46 I = 1 MN=	"
"	"	"	α , , δ , " , R , ,	L	LWP 4241 1+4	568 2 OF	-1.80 .08 7.2	L	O	16:37:12	1:43	5	0	3	trail, R = 0.20 I = 1 MN=	"
"	"	"	α , , δ , " , R , ,	L	LWR 17508 1+5	580 2 OF	-0.40 .08 9.5	L S	O	17:54:32 17:57:41	0:24 1:12	5 5	0 0	2	C = 240 B = 12 C = 180 B = 15 MN=	"
"	TAU SCO 20	B0V 2.84	α 16,32,46 δ -28,06,51 R 79,57,18.4	H	LWR 17509 1+6	2020 316 UF	-1.18 .08 11.2	L	O	18:48.53	0:06	5	0	2	C = 205 B = 32 MN= 462	"
"	HD 214680 12	O8III 4.9	α 22,37,01.0 δ +38,47,22 R 23,14,46.1	L	LWR 17510 1+7	27396 82 OF	-2.05 .08 11.8	L	O	19:42:32	0:12.48	5	0	2	trail R = 8.26 I = 1 MN=	"
"	NULL " 99	"	α , , δ , " , R , ,		LWP 4242 1+8							2	0	0	NULL READ when switching back to LWP NOPAR MN=	"

OBSERVATORY LOG

DATE D 17 M Sep Y 84 RAW TAPE D 17 M Sep

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION POLL NAME	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TEL CTR ref. p. slct mrkw/l.c	FILTER NO: THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	HD 214680 12	O8III 4.9	α 22,37,01.0 δ +38,47,22 R 23,14,46.1	L	LWP 4243 1+9	27921 OF	-1.48 .08 6.8	L	O	20.41:36	0:2.07	5	0	3	Trail R = 9.90 I = 1 C = 216 B = 3.5 MN=	GRY/CG
"	"	"	α , , δ , " , R , ,	~~L~~	~~LWP 4244 1+10~~			~~L~~	~~O~~		~~0:6.83~~				~~Trail R = 3.00 I = 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 ID: DATE D 18 M SEP Y 84 RAW TAPE D 18 M SEP

PROPOSAL	OBJECT TYPE	SP. TYPE mv	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FGS CTS (ref. p. star index/f.n	FOCUS (in) THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI179	WXHII 54	Dwarf Nova 14.5	α 02, 08, 28.5 δ −63, 32, 47 R 219, 59, 36.0	L	SWP 23998 1+1	80	−4.17 1.08 8.5	L	O	14:56:09	108:00	3	4	1	29ch w RP (516,178) 244 FO PNT (−23, −205) C=90, δ=61, E=155 MN-	HASSALL/BH
	VWHII 54	Dwarf Nova 13.9	α 04, 09, 32.3 δ −71, 25, 29 R 248, 10, 23.8	L	LWP 4251 1+	49 / 80	−2.24 −2.59 0.08 8.2	L	O	17:18:23 18:14:00	52:00 52:00	5	5	1	B=49 (2, −212) (751, 616) 254 FO (−34, −204) (914, 306) MN-	
	〃	〃	α , , δ , , R , ,	L	SWP 23999 1+	33 4 80	−2.45 −2.06 0.08 8.5 8.8	L	O	19:10:51 20:05:50	52:00 52:00	4	3	0	(914, 563) B=21 (−34, −204) C=120 B=95, C 2, −212) (749, 553) 256, FO. 49ch at RP MN= at end.	
			α , , 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 ID: DATE D 18 M Sep Y 84 RAW TAPE D 18 M Sep

PROPOSAL	OBJECT TYPE	SP. TYPE mv	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FGS CTS (ref. p. star index/f.n	FOCUS (in) THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SA008	R 127 52	9.7 O+WN	α 5, 37, 9.7 δ −69, 31, 27 R 268 19 .48	L	LWP 4256 1+1	395 5 F.O	−2.47 .08 7.5	L	O	15/02/44	05/30	7	5	0	MN-	Zickgraf WW.
〃	〃	〃	α , , δ 〃 , 〃 , 〃 R , ,	L	SWP 24007 1+3	388 84 F.O.	−2.61 .08 7.2	L	O	15/12/58	15/00	5	7	0	MN=	〃
〃	〃	〃	α , , δ 〃 , 〃 , 〃 R , ,	L	LWP 4257 1+2	400 9 F.O	−2.47 .08 7.8	L	O	15/44/45	3/00	5	5	0	MN=	〃
〃	〃	〃	α , , δ 〃 , 〃 , 〃 R , ,	H	LWP 4258 1+4	414 12 F.O	−1.90 .08 8.2	L	O	16/35/15	210/0	5	6	2	MN=	〃
〃	SIII 13	10.4 O psc	α 5, 28, 42 δ −69, 10, 52 R 266, 5, 17	L	SWP 24008 1+5	287 140 F.O	−1.18 .08 7.8	L	O	21/00/00	12/0	4	0	1	Ref pnt. −19, −234 MN=	〃
〃	〃	〃	α , , δ 〃 , 〃 , 〃 R , ,	L	SWP 24009 1+ ann.	~~284~~	−1.53 .08 8.5	L	O	21/38/58	8/00	3	0	1	Ref pnt −19, −238 MN=	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 20 M Sep Y 84 RAW TAPE D 20 M Sep

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	ITF CTF ref. p. slot wedge/f.s	FOCUS INC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA008	S 114 '13	O pec 10·2	α 5 , 28 , 42.0 δ −69, 10 , 52 R 265, 23 , 13	L	LWP 4260 1+1	292 108 F.O	−2·33 ·30 7·8	L	O	15/04/27	11/00	7	1	1	MN=	Zickgraf WW
			α , , δ , , R , ,	L	SWP 24017 1+3	285 25 F.O.	−2·24 ·08 8·2	L	O	15/29/10	15/0	5	1	0	MN=	" WW
			α , , δ , , R , ,	L	LWP 4261 1+2	288 116 F.O	−2·51 ·08 8·5	L	O	16/08/48	5/0	4	1	0	MN=	" "
			α , , δ , , R , ,	H	LWP 4262 1+4		−1·99 ·08 8·8			16/45/48	30 2/0	4	4	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 D 21 M SEPT Y 84 RAW TAPE D 21 M SEP

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PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	ITF CTF ref. p. slot wedge/f.s	FOCUS INC THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA209	HD 37490 23	B2 IIIe 4.5	α 05 · 36 · 32.6 δ 04 · 05 · 41 R 270 . 59 . 51.3	H	SWP 24029 1+1	431 F/U	−0.88 0.5 8.8	L	O	14:34:07	02:10	5	0	1	B=24 C=230 MN=	Howarth / AWH
"	HD 200120 20	B1.5 IVe 4.5	α 20 , 58 , 07.4 δ 47 , 19 , 30 R 52 , 13 , 13.7	H	SWP 24030 1+2	525 88 F/U	−1.6 0.2 8.8	L	O	15:22:02	02:30	7	0	1	B=25 C=255 MN=	"
"	HD 164284 20	B2 IIe 4.8	α 17 · 57 · 47.1 δ 04 · 22 · 12 R 89 . 15 . 56.9	H	SWP 24031 1+3	365 97 F/U	−1.2 0.08 9.2	L	O	16:03:15	02:10	5	0	1	B=22 C=220 MN=	"
GI233	VW H/I 54	Dwarf Nova 9.8	α 04 , 09 , 32.3 δ −71 , 25 , 29 R 245 , 15 , 56.5	L	LWP 4264 1+11	435 5 F/O	−1.6 0.08 8.5	L	O	16:52:09	01:30	5	0	1	B=30 C=215 MN=	Hassall / AWH
"	"	"	α " , " , " δ " , " , " R " , " , "	L	SWP 24032 1+4	" "	−1.9 0.08 9.2	L	O	16:57:47	02:00	5	0	0	B=12 C=201 MN=	"
GA209	HD 37490 23	B2 IIIe 4.5	α 05 , 36 , 32.6 δ 04 , 05 , 41 R 270 , 59 , 51.3	H	SWP 24033 1+5	444 73 F/U	−2·23 0.08 9.2	L	O	18:06:05	02:10	5	0	1	B=22 C=230 MN=	Howarth / AWH
"	HD 200120 20	B1.5 IVe 4.5	α 20 . 58 , 07.4 δ 47 . 19 , 30 R 52 22 , 53.5	H	SWP 24034 1+6	530 192 F/U	−1.4 0.08 9.5	L	O	18:54:11	02:30	7	0	1	B=24 C=255 MN=	"
"	HD 164284 20	B2 IIe 4.8	α 17 , 57 , 47.1 δ 04 , 22 , 12 R 89 , 15 , 56.9	H	SWP 24035 1+7	365 59 F/U	−0.6 0.08 9.5	L	O	19:46:05	02:10	5	0	1	B=22 C=220 MN=	"

OBSERVATORY LOG

DATE D 21 M SEPT Y 84 RAW TAPE D 21 M SEP

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PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TSS CTS ref. P. slot undov/f.s	FOCUS BKG THOA	APERTURE	NP. SAUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA209	HD 200120 20	B1.5IVe 4.5	α 20,58,07.4 δ 47,19,30 R 52,27,46.8	H	SWP 24036 1+8	26622 482 F/O	-0.6 0.08 9.5	L	O	20:34:53	02:30	7	0	1	B=24 C=255 MN=	Howarth/AWH
"	HD 164284 20	B2IIIe 4.8	α 17,57,47.1 δ 04,22,12 R 89,21,54.0	H	SWP 24037 1+9	363 62 F/u	-0.2 0.08 9.8	L	O	21:15:45	02:10	5	0	1	B=23 C=220 MN=	"
			α , , 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 SEPT Y 84 RAW TAPE D 22 M SEP

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PROPOSAL	OBJECT TYPE	SP. TYPE m_V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TSS CTS ref. P. slot undov/f.s	FOCUS BKG THOA	APERTURE	NP. SAUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA209	HD 37490 23	B2IIIe 4.5	α 05,36,32.6 δ 04,05,41 R 270,59,51.3	H	SWP 24047 1+1	397 F/u.	-2.4 1.5 10.5	L	O	13:48:37	02:10	5	0	1	B=22 C=230 MN=	Howarth/AWH
"	HD 200120 20	B1.5IVe 4.5	α 20,58,07.4 δ 47,19,30 R 52,13,13.7	H	SWP 24048 1+2	27009 F/O.	-1.9 0.8 10.5	L	O	14:51:42	02:30	7	0	1	B=24 C=255 MN=	"
"	HD 37490 23	B2IIIe 4.5	α 05,36,32.6 δ 04,05,41 R 270,39,18.2	H	SWP 24049 1+3	396 F/u	-1.9 0.2 10.5	L	O	15:46:00	02:10	5	0	1	B=22 C=230. MN=	"
"	HD 200120 20	B1.5IVe 4.5	α 20,58,07.4 δ 47,19,30 R 53,22,26.2	H	SWP 24050 1+4	27164 F/O	-1.5 0.08 10.5	L	O	16:29:21	02:30	7	0	1	B=24 C=255 MN=	"
"	HD 25940 21	B4Ve 4.0	α 04,05,01.3 δ 47,34,52 R 291,43,48.0	H	SWP 24051 1+5	605 98 F/u.	-1.9 0.08 10.5	L	O	17:17:31	02:10	5	0	1	MN=	"
"	HD 37490 23	B2IIIe 4.5	α 05,36,32.6 δ 04,05,41 R 270,37,19.7	H	SWP 24052 1+6	406 53 F/u	-3.28 0.08 10.5	L	O	17:55:49	02:10	5	0	1	B=22 C=230 MN=	"
"	HD 200120 20	B1.5IVe 4.5	α 20,58,07.4 δ +47,19,30 R 53,28,22.3	H	SWP 24053 1+7	26773 F/O	-2.4 0.08 10.8	L	O	18:40:16	02:30	7	0	1	B=24 C=255 MN=	"
"	HD 164284 20	B2IIIe 4.8	α 17,57,47.1 δ 04,22,12 R 89,47,06.9	H	SWP 24054 1+8	363 F/u	-2.4 0.08 10.8	L	O	19:20:05	02:10	5	0	1	B=23 C=220 MN=	"

OBSERVATORY LOG

DATE D 22 M SEPT Y 84 RAW TAPE D 22 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 BBC / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA 209	HD192685 21	B3V 4.8	α 20, 13, 08.7 δ 25, 26, 17 R 73, 46, 38.9	H	SWP 24055 1+9	27342 F/O	-1.5 0.08 10.8	L	O	20:01:45	01:40	5	0	1	B=22 C=200 ARCHIVED ON RAW TAPE MN= 22 SEP-2	Howarth / AWH Follow
"	HD 200120 20	B1.5 Ve 4.5	α 20, 58, 07.4 δ 47, 19, 30 R 53, 34, 13.8	H	SWP 24056 1+10	26443 F/O	-1.5 0.08 10.8	L	O	20:44:34	02:30	7	0	1	B=25 C=255 MN=	"
			α 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 SEPT Y 84 RAW TAPE D 23 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 BBC / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EX. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GI155	V2057 Oph. 54	CV. 15	α 17, 05, 14.0 δ -25, 44, 38 R 83, 56, 45	L	SWP 24057 1+1	B/O (30 s/o at RP.)	-2.2 0.2 9.8	L	O	14:30:41	30:00	1	3	0	GDE: X=845 Y=-230 CIII=28 ABT 119 cts F/O. MN=	GREENHILL / AWH
"	"	"	α " δ " R "	"	LWP 4280 1+2	"	-2.1 0.2 10.5	L	O	15:06:36	30:00	3	3	2	GDE: X=649 Y=-91 NgIII=92 DN NET. 148 cts F/O. MN=	C=80 B=40 "
"	"	"	α " δ " R "	"	SWP 24058 1+3	"	-1.6 0.08 10.5	L	O	15:41:36	70:00	3	3	1	GDE: X=844 CIII=80 NET Y=-232 SiIII=29 NET 144 F/O. MN=	C=60 B=24 "
"	"	"	α " δ " R "	"	SWP 24059 1+4	"	-1.5 0.08 11.5	L	O	17:17:00	65:00	3	3	1	GDE " C=60 B=22 CIII=73 NET SiIII=29 NET MN=	"
"	"	"	α " δ " R "	"	SWP 24060 1+5	"	-1.4 -1.8 0.08 11.8	L	O	18:48:32 19:23:16	30:00 30:00	1	3	1	GDE X=868, Y=-236 CIII=35 DN NET 127 F/O GDE X=820, Y=-227 137 F/O CIII=43 NET MN=	B=23 "
"	"	"	α " δ " R "	"	SWP 24061 1+6	"	-1.8 0.08 12.2	L	O	20:16:15 20:50:24	30:00 30:00	1	3	1	GDE X=820, Y=-227 CIII=28 DN NET GDE X=865, Y=-239 CIII=33 DN NET 126 F/O MN=	B=21 "
"	"	"	α " δ " R "	"	LWP 4281 1+7	"	-1.8 0.08 10.8	L	O	21:24:59	22:00	3	3	3	GDE: X=646 Y=-86 NgIII=58 NET. 135 F/O MN=	C=70 B=42 "
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 24 M 09 Y 84 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 indov/f.s	FOCUS DAT THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	ITFNULL 99		α 00 , 41 , 55.7 δ +48 , 00 , 40 R 347 , 21 , 03.9	H	LWP 4295 1+1	451 / U/F	-5.75 1.66 8.8		C	14:11:30	000:00	0	0	3	44 DN at center MN=	CLAVEL / CLAVEL
"	CALUV 80% 99		α , , δ , " , R , ,	H	LWP 4296 1+2	"	-3.19 .12 8.8		C	15:08:42	002:46	0	0	9	154 DN at center MN=	
"	CALUV 240% 99		α , " , δ , , R , ,	H	LWP 4297 1+3	"	-1.88 .10 8.8		C	15:51:12	008:17	0	0	9	253 DN at center MN=	
	CALUV 80% 99		α , " , δ , " , R , ,	H	LWP 4298 1+4	"	+.54 .08 8.8		C	16:39:06	02:46	0	0	9	157 DN at center MN=	
	CALUV 140% 99		α , " , δ , , R , ,	H	LWP 4299 1+5	"	-.67 .08 8.8		C	17:20:14	04:50	0	0	9	219 DN at center MN=	
	NULL 99		α , " , δ , " , R , ,	H	LWP 4300 1+6	"	-1.04 .08 9.2		C	18:08:11	00:00	0	0	3	44 DN at center, Ramp failure at MN= RAW(PS3 CH31)=55	17:52:45
	CALUV 80% 99		α , " , δ , " , R , ,	H	LWP 4301 1+7	"	-1.54 .08 9.2		C	18:51:53	002:46	0	0	9	156 DN at center MN=	
	CALUV 20% 99		α , 4 , δ , , R , ,	H	LWP 4302 1+8	"	-1.71 .08 9.2		C	19:34:50	00:41	0	0	6	75 DN at center MN=	

OBSERVATORY LOG

DATE D 24 M SEP Y 84 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 indov/f.s	FOCUS DAT THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	CALUV 60% 99		α 00 , 41 , 55.7 δ +48 , 00 , 40 R 347 , 21 , 03.9	H	LWP 4303 1+9	/	-2.2 .08 9.2		C	20; 18:25	002:04	0	0	9	131 DN at center MN=	CLAVEL / CLAVEL
"	NULL 99		α , , δ , " , R , ,	H	LWP 4304 1+10	/	-1.8 .08 9.2		C	21:14:46	00:00	0	0	3	45 DN at center MN=	"
			α , , 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 SEP Y 89 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 cnt. p. slot undov/f.	PIXUS BRG THDA	APERTURE	NR. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	NULL 99		α 00,41,56 δ 48,00,40 R 348,28,52.6	H	LWP 4332 1+1	497 X FU	-4.1 1.98 8.2		C	14:08:30	00:00	0	0	3	computer crash at 14:24 43 DN at center MN=	CLAVEL / CLAVEL
"	NULL 99		α , , δ , " , R , ,	H	LWP 4333 1+2		-2.7 1.5 8.2		C	14:35:44	00:00	0	0	3	47 DN at center MN=	
	CALUV 80% 99		α , , δ , " , R , ,	H	LWP 4334 1+3		-1.81 0.5 8.2		C	15:18:20	02:46	0	0	9	152 DN at center MN=	
	CALUV 40% 99		α , , δ , " , R , ,	H	LWP 4335 1+4		-1.81 .12 8.2		C	16:01:20	01:23	0	0	9	102 DN at center MN=	
	NULL 99		α , , δ , " , R , ,	H	LWP 4336 1+5		-1.44 .08 7.8		C	17:06:13	00:00	0	0	3	lamp fails RAW(AS3 CH31)=62 abort at 16:43 ; 2 attempts fail ; last abort at 17:04 MN= RAW(AS3 CH31)=55	
	CALUV 80% 99		α , , δ , " , R , ,	H	LWP 4337 1+6		-1.44 .08 8.2		C	17:43:48	02:46	0	0	9	151 DN at center MN=	computer crash at 17:55
	CALUV 120% 99		α , , δ , " , R , ,	H	LWP 4338 1+7		-1.08 .08 8.2		C	18:39:20	04:08	0	0	9	193 DN at center MN=	lamp fails at 18:23:42 ABORT at 18:26:20 Resumed at 18:27:55
	NULL 99		α , , δ , " , R , ,	H	LWP 4339 1+8		-1.17 .08 8.2		C	19:26:55	00:00	0	0	3	44 DN at center MN=	lamp fails at 19:12:15 RAW(AS3 CH31): Abort at 19:24:00 (2

OBSERVATORY LOG

DATE D 25 M SEP Y 89 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 cnt. p. slot undov/f.	PIXUS BRG THDA	APERTURE	NR. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	CALUV 80% 99		α 00,41,58 δ 48,00,40 R 348,28,52.6	H	LWP 4340 1+9		-1.68 .08 8.2		C	20:11:04	02:46	0	0	9	153 DN at center MN=	CLAVEL
	CALUV 280% 99		α , , δ , " , R , ,	H	LWP 4341 1+10		-2.1 .08 8.2		C	20:46:51	09:40	0	0	9	254 DN at center MN=	
	CALUV 170% 99		α , , δ , " , R , ,	H	LWP 4342 1+11		-1.34 .08 8.5		C	21:31:38	05:52	0	0	9	238 DN at center MN=	
			α , , 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 SEP Y 84 RAW TAPE D 26 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	IPS CTS ref. p. slot vidov/f.s	FOCUS DKG THDA	APERTURE	NP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	NULL 99	/	α 00 , 41 , 55.7 δ 48 , 00 , 40 R 349 , 39 , 12.8	H	LWP 4366 1+1	533 / F/U	-3.2 .12 7.5		C	14:34:37	00:00	0	0	3	44 DN at center MN=	CLAVEL
	CALUV 80% 99	/	α , , δ , " , R , ,	H	LWP 4367 1+2	/	-1.89 .08 7.8		C	15:12:06	02:46	0	0	9	150 DN at center MN=	
	CALUV 120%	/	α , , δ , " , R , ,	H	LWP 4368 1+3	/	-1.81 .08 7.8		C	15:50:35	04:08	0	0	9	192 DN at center MN=	
	CALUV 40% 99	/	α , " , δ , , R , ,	H	LWP 4369 1+4	/	-2.6 .08 8.2		C	16:34:15	01:23	0	0	9	101 DN at center MN=	
	CALUV 60% 99	/	α , , δ , " , R , ,	H	LWP 4370 1+5	/	-2.32 .08 8.2		C	17:19:31	02:04	0	0	9	125 DN at center MN=	
	CALUV 20% 99	/	α , " , δ , , R , ,	H	LWP 4371 1+6	/	-1.88 .08 8.2		C	17:58:19	00:41	0	0	6	730 N at center MN=	
	CALUV 80% 99	/	α , , δ , " , R , ,	H	LWP 4372 1+7	/	-1.09 .08 8.2		C	18:39:08	02:46	0	0	9	149 DN at center MN=	
	CALUV 280% 99	/	α , " , δ , , R , ,	H	LWP 4373 1+8	/	-.73 .08 8.2		C	19:25:42	09:40	0	0	9	254 DN at center MN=	

OBSERVATORY LOG DATE D 26 M SEP Y 84 RAW TAPE D 26 M SEP

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	IPS CTS ref. p. slot vidov/f.s	FOCUS DKG THDA	APERTURE	NP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	CALUV 200% 99	/	α 00 . 41 , 55.7 δ 48 , 00 , 40 R 349 , 39 , 12.8	H	LWP 4374 1+9	/	-1.26 .08 8.5		C	20:09:01	006:54	0	0	9	248 DN at center MN=	CLAVEL
"	CALUV 60% 99	/	α , , δ , " , R , ,	H	LWP 4375 1+10	/	-1.69 .08 8.5		C	20:53:44	002:04	0	0	9	126 DN at center MN=	
"	CALUV 140% 99	/	α , " , δ , , R , ,	H	LWP 4376 1+11	/	-1.78 .08 8.5		C	21:30:23	004:50	0	0	9	210 DN at center MN=	
			α , , 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 27 M SEP Y 84 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	TES CTS ref. p. slot undov/f.s	FOCUS INT. THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	CALUV 80% 99		α 00, 41, 55.7 δ 48, 00, 40 R 350, 46, 15.5	H	LWP 4402 1+1		-2.76 .6 7.8		C	14:40:59	002:46	0	0	9	148 DN, center MN=	CLAVEL
	CALUV 140% 99		α , , δ , , R , ,	H	LWP 4403 1+2		-2.78 .16 7.8		C	15:23:56	004:56	0	0	9	210 DN, center MN=	
	CALUV 100% 99		α , , δ , , R , ,	H	LWP 4404 1+3		-2.25 .08 7.8		C	16:04:46	003:27	0	0	9	171 DN, center MN=	
	CALUV 170% 99		α , , δ , , R , ,	H	LWP 4405 1+4		-1.44 .08 7.8		C	16:45:06	005:52	0	0	9	233 DN MN=	
	CALUV 200% 99		α , , δ , , R , ,	H	LWP 4406 1+5		-1.01 .08 8.2		C	17:24:43	006:54	0	0	9	246 DN MN=	
	CALUV 80% 99		α , , δ , , R , ,	H	LWP 4407 1+6		-.65 .08 8.5		C	18:08:06	002:46	0	0	9	150 DN MN=	
	CALUV 120% 99		α , , δ , , R , ,	H	LWP 4408 1+7		-.65 .08 8.5		C	18:47:47	004:08	0	0	9	190 DN MN=	
	CALUV 20%		α , , δ , , R , ,	H	LWP 4409 1+8		-.30 .08 8.5		C	19:28:31	000:41	0	0	6	38 MF missing- from history tape. Full image should be on file # 1+12 72 DN MN=	replayed.

OBSERVATORY LOG

DATE D 27 M SEP Y 84 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	TES CTS ref. p. slot undov/f.s	FOCUS INT. THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	CALUV 40% 99		α 00, 41, 55.7 δ 48, 00, 40 R 350, 46, 15.5	H	LWP 4410 1+9		-.82 .08 8.5		C	20:06:17	01:23	0	0	8	99 DN, center MN=	CLAVEL
	CALUV 280% 99		α , , δ , , R , ,	H	LWP 4411 1+10		-1.26 .08 8.5		C	20:40:59	009:40	0	0	9	254 DN MN=	
	CALUV 80%		α , , δ , , R , ,	H	LWP 4412 1+11		-1.35 .08 8.8		C	21:26:22	002:46	0	0	9	149 DN MN=	
			α , , 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 84 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	TES CTS ref. p. slot undov/f.s	FOCUS DIR THOA	APERTURE	AP. SHIFT	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	CALUV 80% 99	/	α 00,41,55.7 δ 48,00,40 R 351,55,36.1	H	LWP 4426 1+1	/	-4.21 .42 7.5		C	14:55:21	02:46	0	0	9	146 DN at center MN=	GRY.
"	CALUV 70% 99	/	α , , δ , " , R , ,	H	LWP 4427 1+2	/	-2.99 .48 7.8		C	15:36:13	05:52	0	0	9	229 DN, center MN=	"
"	CALUV 20% 99	/	α , , δ , " , R , ,	H	LWP 4428 1+3	/	-2.96 .08 8.2		C	16:29:27	00:41	0	0	6	71 DN, center MN=	CLAVEL
	CALUV 40% 99	/	α , , δ , " , R , ,	H	LWP 4429 1+4	/	-2.16 .08 8.2		C	17:10:21	01:23	0	0	8	98 DN, center MN=	"
	CALUV 60% 99	/	α , , δ , " , R , ,	H	LWP 4430 1+5	/	-2.23 .08 8.5		C	17:57:46	02:04	0	0	9	122 DN, center MN=	"
	CALUV 80% 99	/	α , , δ , " , R , ,	H	LWP 4431 1+6	/	-1.88 .08 8.5		C	18:36:56	02:46	0	0	9	146 DN, center MN=	"
	CALUV 100% 99	/	α , , δ , " , R , ,	H	LWP 4432 1+7	/	-1.83 .08 8.5		C	19:19:23	03:27	0	0	9	167 DN, center MN=	"
	CALUV 120% 99	/	α , , δ , " , R , ,	H	LWP 4433 1+8	/	-1.17 .08 8.8		C	20:06:35	04:08	0	0	9	186 DN, center MN=	"

OBSERVATORY LOG

DATE D 28 M SEP Y 84 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	TES CTS ref. p. slot undov/f.s	FOCUS DIR THOA	APERTURE	AP. SHIFT	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	CALUV 140% 99	/	α 00,41,55.7 δ 48,00,40 R 351,55,36.1	H	LWP 4434 1+9	/	-1.69 .08 8.8		C	20:45:21	04:50	0	0	9	205 DN, center MN=	CLAVEL
"	CALUV 20% 99	/	α , , δ , " , R , ,	H	LWP 4435 1+10	/	-1.78 .08 8.8		C	21:31:46	00:41	0	0	6	72 DN, center MN=	"
			α , , 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 SEP Y 84 RAW TAPE D 29 M SEP

PROPOSAL	OBJECT TYPE	SP. TYPE m_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.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GC089	HD 62044 47	K1 III 4.28	α 7, 40, 11.4 δ +29, 0, 22 R 258, 7, 7.5	H	LWP 4449 1+1	405 85 UF	-3.27 0.08 9.2	L	0	143520	25:00	3	7	1	GIDE(-136, 1037)162 FO C = 97 B ≅ 30 ε = sat MN=	ENGVOLD AC
"	"		α , , δ , , R , ,	H	SWP 24078 1+	415 64 UF	-3.18 0.08 9.2	L	0	150526 171119 193048 212658	120:00 120:00 120:00 120:00	5	6	9	READ AT GSFC	
"	"		α , , δ , , R , ,		FES 1583 1+2					143000	⇓ TOTAL =757:0				20 kB field	
			α , , δ , , R , ,		IMAGE READ AT GSFC											
			α , , δ , , R , ,		1+											
			α , , δ , , R , ,		1+											
			α , , δ , , R , ,		1+											
			α , , δ , , R , ,		1+											

OBSERVATORY LOG

DATE D 30 M SEP Y 84 RAW TAPE D 30 M SEP

PROPOSAL	OBJECT TYPE	SP. TYPE m_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.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GQT00	3C 371 .87	BL LAC 14.4	α 18, 07, 18.5 δ 69, 48, 58 R 95, 25, 15.5	L	SWP 24086 1+1	30 0 SO	-1.81 0.08 17.2	L	0	151911	154:00	3	0	2	C = 73 · B = 41 (1500 Å) spike ≈ 1680 Å MN=	GILL40221 AC
FIT00	N VUL 55	Nova 9.01	α 19, 24, 3.4 δ 27, 15, 52 R 85, 57, 12.2	L	SWP 24087 1+2	960 0 FO	-1.12 0.08 12.2	L	0	184052	7:00	5	5	0	406 (556, 1152) 460 FO CII : 166 ; NIII 252 C ≅ 230 B ≅ 17 MN=	CASSATELLA
"	"		α , , δ , , R , ,	L	LWP 4456 1+3	939 5 FO	-0.70 0.08 10.8	L S	0	185924 190554	2:00 15:00	7 8	7 8	1	LAP not usable 2700 - 2960 Å SAP not usable 2,500 - 3015 Å MN=	"
"	"		α , , δ , , R , ,	H	SWP 24088 1+5	968 945 f/l FO	-0.36 0.08 11.8	L	0	193440 201918	30:00 35:00 65:00	2	2	3	NIII : 86 B = 54 MN=	"
"	"		α , , δ , , R , ,	L	LWP 4457 1+4	949 4 FO	-0.79 0.08 11.5	L	0	200951	4:00	5	7	1	C = 186 B = 32 E(MgII) ≅ 15 px/Å sat MN=	"
"	"		α , , δ , , R , ,	H	LWP 4458 1+6	964 2 FO	-1.32 0.08 11.5	L	0	210134	26:00	3	4	2	MgII : 136 B = 35 C = 85 MN=	AV. RES CTS = 954 ± 11
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 1 M OCT Y 84 RAW TAPE D 1 M OCT

PROPOSAL	OBJECT TYPE	SP. TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	IRS CTS ref. p. slot undov/f.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GM 261	NGC 6153 70	Pl Neb ~12.0	α 16, 28, 4.6 δ -40, 8, 49.4 R 71, 47, 55.2	L	LWP 4475 1+1	232 53 50	-2.12 .64 10.2	L	O	14:08:59	30:00	2	0	1	O III 3133 ~60 cts net is actually a spike! MN=	MO /RG
"	"	"	α , , δ , , R , ,	L	SWP 24092 1+2	225 97 50	-2.24 .10 9.8	L	O	14:45:03 (15:17:56) restarted	60:00	2	0	1	MN=	
"	"	"	α , , δ , , R , ,	L	LWP 4476 1+3	234 39 50	-1.69 .08 10.5	L	O	15:54:39	120:00	3	3	2	MN=	
"	"	"	α , , δ , , R , ,	L	SWP 24093 1+4	238 50 50	-.63 .08 10.5	L	O	17:58:48	167:00	3	3	1	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE D 2 M OCT Y 84 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	IRS CTS ref. p. slot undov/f.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GA 146	HD193237 23	B4Ia 4.9	α 20, 15, 56.5 δ 37, 52, 36 R 76, 30, 44	L	SWP 24102 1+1	26077 100 OF	-1.18 0.08 9.2	L	O	143159	00:18	5	0	1	C = 185 B = 14 MN=	CA DS ARELLA AC
"	"	"	α , , δ , , R , ,	H	SWP 24103 1+2	27897 100 OF	-0.70 0.08 9.5	L	O	145929	25:00	5	6	1	MN=	
"	"	"	α , , δ , , R , ,	H	LWP 4483 1+3	26287 100 OF	-0.65 0.08 9.2	L	O	153402	5:00	5	6	1	MN=	
GI 147	HD143454 63	Pec 10.2	α 15, 57, 24.5 δ 26, 3, 39 R 113, 17, 28.9	L	LWP 4484 1+4	448 10 OF	-.61 0.08 9.2	L	O	173027	25:00	5	6	2	90° (563, 105) 67.5 B = 129°! MN=	
"	"	"	α , , δ , , R , ,	L	SWP 24104 1+5	430 0 OF	-1.73 0.08 9.2	L	O	18:03:57	40:00	4	5	0	MN=	RG
PHCAL	HD155763 25.	B6III 3.5	α 17, 8, 38.1 δ 65, 46, 34 R 111, 3, 17.6	L	LWP 4485 1+6	1331 — FU	-2.46 .08 9.8	L	O	19:39:31	00:01.4	5	0	2	TRAIL R = 13.89 I = 1 MN=	
"	"	"	α , , δ , , R , ,	L	SWP 24105 1+7	1284 — FU	-2.46 .08 9.8	L	O	19:46:57	00:03.0	5	0	0	TRAIL R = 6.7 I = 1 Visible also in SWAP MN=	
	BD+75°325 16	sd0 9.5	α 8, 4, 43 δ 75, 6, 48 R 247, 11, 7.5	L	SWP 24106 1+8	648 1 FO	-1.16 .08 9.8	L	O	20:41:15	0:43.5	4	0	0	TRAIL R = 0.46 I = 1 MN=	

OBSERVATORY LOG

DATE D 3 M oct Y 84 RAW TAPE D 3 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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC689	Ibem 47	K1 4.28	α 7, 40, 11.4 δ 29, 00, 22 R258, 36, 29.4	H	SWP 24107 1+	419 73 FU	-2.51 .08 9.2	L	O	13:12:35 15:17:42 17:22:55 20:07:51	120:00 120:00 120:00 120:00	5	6	9	READ AT GSFC Total time = 80810	ENG VOLD /RG
	"	"	α , , δ , " , R , ,	H	LWP 4494 1+2	417 94 FU	-1.57 .08 9.8	L	O	19:28:33	25:00	3	7	2	51 pix sat at MgII MN=	
	4	7	α , , δ , 4, R , ,	E	FES 1584 1+1					13:03					Rel SWP 24107 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

4 oct 84 4 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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GQ225	3C 120 84	Ley 14.3	α 5, 30, 31.6 δ 5, 15, 0. R268, 9, 20.2	L	SWP 24115 1+	31 50	-2.90 .08 10.5	L	O	15:08:47	210:00	3	4	1	CIV ~ 120 wet loc bgn 40 cont ~ 70 MN=	NAMSTICKER /RG
	"	"	α , , δ , 4 , R , ,	L	LWP 4500 1+	26 50	-1.83 .08 9.8	L	O	18:44:27	120:00	3	4	1	loc bg 48 MgII 194 cont 130 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

ORIGINAL OBSERVING LOG

DATE: D 05 M OCT Y 84 RAW TAPE: D 05 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	OBSERV
G Q225	MCG +8-11-011 84	Seyfert 14.5	α 05, 51, 09.7 δ +46, 25, 51.0 R 276, 23, 17.3	L	SWP 24123 1+1	80	-2.70 0.08 11.2	L	O	14:01:53	280:00	3	3	2	(170, 660) 4235/0 29 cts NRP. (Δ=3 Δy=-4) Hyd-96 B=31 MN= C=104	WHMSTEKER/ Dit Hyperentwicklung 16/4 H.
	"	"	α , , δ , " , R , ,	L	LWP 4505 1+2	"	-1.30 0.08 10.5	L	O	18:46:53	110:00	3	4	2	(-27, 800) 4855/0 Hyd: 162 C: 112 MN= B=46	
			α , , 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: 6 OCT 84 RAW TAPE: 6 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	OBSERV
GA100	H045166 11	WN Pec 1003	α 6, 23, 36 δ 18, 0, 18 R 265, 44, 6	H	SWP 24128 1+1	355 5 F.O.	-2.35 .08 11.5	L	O	19/54/45	60/0	3	3	0	Cont = 90 CIII = 100 Bg = 19 MN=	Skillman WW.
"	"	"	α , , δ , , , R , ,	H	LWP 4508 1+2	357 8 F.O.	-1.92 .08 10.2	L	O	15/01/48	60/0	3	3	1	Cont 120 Bg 27 MN=	" "
"	"	"	α , , δ , , , R , ,	H	SWP 24129 1+3	359 1 F.O	-2.34 .08 11.2	L	O	16/06/49	60/0	3	3	1	MN=	" "
"	"	"	α , , δ , , , R , ,	H	LWP 4509 1+4	365 5 F.O.	-1.81 .08 11.2	L	O	17/13/32	50/0	3	3	1	Cont 120 Bg 27 MN=	" "
"	"	"	α , , δ , , , R , ,	H	SWP 24130 1+5	362 2 F.O	-1.38 .08 11.5	L	O	18/10/16	60/0	3	3	1	MN=	" "
GI178	VW Hydri 54		α 4, 9, 32.3 δ -71, 25, 29 R 230, 23, 18.0	L	LWP 4510 1+7	249 0 F.O	-1.31 .08 10.8	L	O	20/27/17	07/00	5	5	0	guide x497 925 MN=	HASSALL WW
"	"	"	α , , δ , , , R , ,	L	SWP 24131 1+6	249 F.O.	-1.31 .08 11.5	L	O	20/37/11	11/39	3	0	0	C 55 Bg 23 MN=	" "
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 07 M OCT Y 82 RAW TAPE D 07 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	NP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GI178	VW HYI 54	Dunaf Nova 9.9	α 04, 09, 32·3 δ −71, 25, 29·0 R 229, 39, 51·6	L	LWP 4520 1+3	436 2 P/O	−3·07 0·14 11·8	L	O	14:06:38	1:30	6	0	0	7pn sat. ~2800 B=19 MN=	HASSALL/BH
	"	"	α , , δ , , R , ,	L	SWP 24142 1+1	443 5 F/O	−2·72 0·10 11·8	L	O	14:11:24	2:00	5	0	0	C=257 B=13 MN=	
GC199	L151 IRAS 5 64	Jet 16·0	α 04, 28, 60·0 δ +18, 01, 41·1 R 276, 13, 50·6	L	SWP 24143 1+4	80	−2·25 −1·31 0·08 11·8	L	O	15:46:19 19:48:15 20:19:44	240100 30:00 10:00	1	0	2	gels (1010,−1160) (92,50). B=39 MN=	DOAZAN/BII
	Field for " SWP24143	"	α , , δ , , R , ,	E	FES 1586 1+2	/	/	L	O	15:05	40:0				(5kb.) 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 OCT Y 84 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/f.s	FOCUS BKG THDA	APERTURE	NP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GI178	VWHyi 54	dwarf nova 10·2	α 4, 9, 32·3 δ −71, 25, 29 R 228, 41, 41	L	SWP 24148 1+1	223 0 F·0	−1·62 ·30 9·2	L	O	13/42/55	03/00	5	0	0	C=200 B=13 Microph. MN=	Hassall WW.
"	"	"	α , , δ 4, 4, 1 R , ,	L	LWP 4528 1+2	224 2 F·0	−2·02 ·34 10·2	L	O	13/51/47	02/00	5	0	1	C=195 B=50 MN=	" WW
GC199	HH30 71	16	α 4, 28, 49·6 δ 18, 6, 3 R 276, 11, 46	L	SWP 24149 1+	B/O	−1·89 ·10 9·5			14/51/13	444/0	3	45	0·4	GO. X1187 Y −45 MN=	DOAZAM WW
"	"	"	α , , δ 4, 11, 4 R , ,		FES 1587 1+3					14/00/00					MN=	
			α , , δ , , R , ,		1+ H/O										MN=	
			α , , δ , , R , ,		EXPOSING										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 09 M OCT Y 84 RAW TAPE D 09 M OCT

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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GQ225	3C120 84	Sey. 0.8 14.5	α 4,30,31.6 δ 5,15,00.0 R 266,5,47.7	L	SWP 24155 1+1	80	-24 0.10 9.5	L	O	13:48:17	190:00	3	4	1	31 ch at RP. (527,985) 24750 CBCK jumps ~2h) E=162 (2 MN= B=36 C=20	HASSALL /BH
GA209	HD 24912 13	O7.5III 4.0	α 03,55,43.0 δ +35,38,56 R 295,16,31.7	H	SWP 24156 1+2	618 81 FU	-0.80 0.08 10.2	L	O	18:30:02	1:00	5	0	1	Signal drop out. B=20 C=214 MN=	HASSALL pp.HENRICHS.
GI233	VW HYI 54	Dwarf Nova 12.9	α 4 09 32.3 δ -71,25,29 R 227,27,47.4	L	LWP 4534 1+3	93 2 50	-2.30 0.08 9.2	L	O	20:01:59	15:00	4	0	1	(-421,-1358)(53750) C=169 B=52 MN=	
	VW HYI 54	"	α , , δ , , R , ,	L	SWP 24157 1+4	78 5 50	-3.08 0.08 9.5	L	O	20:21:51	20:00	3	3	0	(-217,-503) B=26 C=70 E=110 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 OCT Y 84 RAW TAPE D 10 M OCT

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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GE136	ESO 550-IG 38 88	BCG 14	α 0,34,25.6 δ -33,49,47 R 169,13,38.0	L	SWP 24158 1+1	36 50	-2.27 .24 9.7	L	O	16:10:20	277:00	3	5	2	gde 556 516 80 .. B=56 C=131 MN= gde=135	OLOFSSON/CG
			α , , 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 OCT Y 84 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 undov/f.s	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSRVN
GE125	NGC 55#1 72	HII reg ~14	α 0, 12, 30.0 δ -39, 29, 13.0 R 161, 53, 17.0	L	SWP 24159 1+1	80 (7150)	-1.89 0.08 8.2	L	O	16:06:43	280:00	5	0	i	71 cts at RP. (-623, -425) 3095/0 B=33 C=200 @ 15000	SANZ/BH
			α , , 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 OCT Y 84 RAW TAPE D 12 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 THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSRVN
GO225	3C 120 84	Sey Gal 14.5	α 04, 30, 31.6 δ +05, 15, 00 R 266, 43, 09	L	SWP 24165 1+	80	-4.17 0.80 9.8	L	O	13:48:07	190:00	3	3	1	30 50 at RP. (523, 993) 23950 BKG jumping about. MN=	HASSALL/BH CE=126 C=91 B=28
GI233	VW HYI 54	Dwarf Nova 14.2	α 04, 09, 323 δ -71, 25, 29 R 222, 34, 16.2	L	LWP 4559 1+	39 / 50	-2.20 -2.56 0.08 (8.2)	L	O	17:49:08 18:45,32	52:00 52:00	5 5	0 0	2 2	(2, -212) (421, 993) C=219, B=33 (-34, -206) (386, 997) MN=	198E/O 221
	"	"	α , , δ , , R , ,	L	SWP 24166 1+	37 / 50	-1.95 0.08 8.8	L	O	19:44:34	45:00	3	3	0	(-16, -208) (602, 847) B=15 C=113 @ 1300 CE=90 C=75 @ 1900 MN=	241F/O
			α , , 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 13 M 10 Y 84 — NEW TAPE D 13 M 10

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	OBSERV
GA209	HD36486 13	09.5II 2.2	α 05,29,27.0 δ -00,20,04 R261,11,54.0	H	SWP 24169 1+1	3509 UF	-1.17 .98 8.8	L	O	13:36:4	0035	5	0	1	B=36 C=208 MN=	HASSALL CG
GE125	NGC 55#1 72	HII nebula 14.0	α 00,12,30.0 δ -39,29,13 R159,48,15.3	L	LWP 4570 1+	BO 7162	-1.70 .10 8.5	L	O	15:45:29	287:00	7	0	5	gde -807 -304 261 50 B=75 LWR saturated MN=	SANZ CG
			α , , 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 14 oct 84 — NEW 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC090	HD159181 (PDRA) 45	G2Ib II 2.79	α 17,29,18.1 δ 52,20,15 R116,29,2.8	H	LWP 4580 1+1	157 364 FU	-2.59 1.72 8.5	L	O	13:09:01	60:00	7	0	5	gde X=831 Y=725 ob=301(50) C=2-3X B=100 MN=	JENSEN CG
11	11	11	α , , δ , , R , ,	H	SWP 24174 1+2	1544 398 FU	-1.57 .28 7.8	L	O	14:13:14	300:00	4	6	3	gde X=1030 Y=585 ob=317(50) B=72, C=186 MN=	11
11	11	11	α , , δ , , R , ,	H	SWP 24175 1+	1565 FU	-1.60 .08 10.5	L	C	15:53:56	300:00				gde X=1028 Y=587 ob=291(50) read in GSFC 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 15 M oct Y 84 RAW TAPE D 15 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.	FM. LINES	BACKG.	COMMENTS	OBSERV
GC030	HD 159181 (PDRA) 45	G2 III 2.8	α 17,29,18.1 δ 52,20,15 R 117,24,47.7	H	LWP 4590 1+1	1600 3.83 F.U	-1.88 1.04 12.8	L	O	13:31:50	40:00	7	7	4	gdc X=1328 Y=-591 ds=343.09 MN=	JENSEN / CG
"	"	"	α , , δ , " , R , ,	H	SWP 24180 1+6	1536 226 FU	-1.82 .08 10.5	L	O	14:18:02	32?:00	4	6	3	gdc X=1541 Y=-727 ds=332.80 MN=	"
PHCAL	NULL 99	/	α 00.00.00 δ 00.00.00 R , ,		LWR 17511 1+2	/	/	/	/	15:05:10	—	0	0	3	switch on LWR (DEGAS) MN=	GRY / CG
"	serendipity 99 awp	/	α , , δ , " , R , ,	L	LWR 17512 1+3	/	-1.81 .08 14.2		O	15:35:43	30:00	0	0	2	peak=70DN back = 9DN rate = 2.03DN/s MN=	flare "
"	"	/	α , , δ , " , R , ,	L	LWR 17513 1+4	/	-1.81 .08 15.5		O	16:18:52	120:00	0	0	3	peak = 213 DN back = 20 DN rate = 1.66 DN/s MN=	"
"	NULL 99	/	α , , δ , " , R , ,		LWP 4591 1+5	/	/	/	/	19:24:59	—	0	0	0	switch on LWP MN=	"
GC030	WAVCAL 99	/	α , , δ , " , R , ,	H	SWP 24181 1+7	/	-1.73 .08 12.8		C	CAL:43:45 201 TF:45:07	0:18.. 0:05	0	7	5	MN=	JENSEN / CG
			α , , δ , , R , ,		1+										MN=	

DATE D 16 M Oct Y 84 RAW TAPE D 16 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.	FM. LINES	BACKG.	COMMENTS	OBSERV
GQ229	PG 1700+518 84	Seq. 15.5	α 17,00,13.3 δ 51,52,37 R 129 45.69	L	SWP 24185 1+	B/O	-2.52 .08 11.5	L	O	13/17/45	162/00 + 42/00 + 195/00 + 10/00	3	3	9	409+444 TOTAL on H/O = 845:00 awn. MN=	Worsall WW
	"	"	α , , δ , , R , ,	D	FES 1590 1+1			2		13/30/00	20:00				Field for SWP 24185 20kb FESIROM MN=	"
PHCAL	LWR Flare 99 test		α , , δ , , R , ,	L	LWR 17523 1+2		-1.79 .08 14.8	L	O	17/20/59	120/0	0	0	3	Serendipity MN=	"
			α , , δ , , R , ,		LWR 17524 1+3		-1.70 .08 17.2			19/58/33	20/0	0	0	0	MN=	"
PHCAL	Null 99		α , , δ , , R , ,		LWP 4592 1+4					20/20/00					MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE D 17 M OCT Y 84 RAW TAPE D 17 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	OBSERV
GQ052	NGC3516 84	Sy I 13.1	α 11, 03, 22.8 δ +72, 50, 24 R 215, ~~59~~, 54.6	L	SWP 24192 1+1	L07 14 ov/s	-1.81 .08 11.5	L	O	13:45:58	200:00	3	5	2	CIV: 124 DN Net CIII]: 95 DN " Lyα: 149 DN Net cont: 820 DN 1250-1450 Å	CLAVEL
"	ESO113 84	Sy I 13.3	α 01, 21, 51.2 δ -59, 03, 59 R , ,	L	SWP 24193 1+2	B.O.	+.09 .08 11.8	L	O	19:54:20	48:00	2	4	1	Lyα: 103 DN net CIV: 430 DN net cont: 140 DN at 1300Å MN=	Wait ~1 hr at β ≈ 25°16' to cool S/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=	

OBSERVATION LOG DATE D 18 M OCT Y 84 RAW TAPE D 18 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	OBSERV
GQ229	PG1700+518 84	Sey 15.5	α 17, 00, 13.3 δ +51, 53, 37 R 126, 48, 07.9	L	LWP 4596 1+	80	-1.85 0.16 10.8	L	O	16:21:54	865:00 AM	8	0	9	C26, -324) 244 S/C H/O exposing. to G-SPC MN=	HMASALL (APPLEMAHON) BH
	"	"	α , , δ , , R , ,	F	FES 1591 1+1			2		18:05:00	160:00				Fdd for LWP 4596 20kp FESCROM. MN=	
			α , , 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 OCT Y 84 — 1/2 — NEW DATE 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 undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GA039	HD36486 13	09.5II 2.2	α 5 ,29 ,27.0 δ -0 ,20 , 4 R258, 08 ,40.2	H	SWP 24214 1+1	3528 824 618	-2.18 .50 11.2	L	O	17; 54:47	000:05	5	5	1	167 Net at ~1300 MN=	PRINJA JC
〃	HD24912 13	07.5III 4.0	α 03, 55 ,43.0 δ +35 ,39 ,00 R300, 16 , 44.2	H	SWP 24215 1+2	609 107 F/U	-2.58 .10 10.8	L	O	14: 02:12	001: 10	5	5	1	190 Net DN at ~1300 MN=	〃
	〃	〃	α , , δ , 〃 , R , ,	H	SWP 24216 1+3	608 96 F/U	-2.14 .10 10.8	L	O	14:28:25	001:10	5	5	1	MN=	〃
	HD36486 13	09.5 II 2.2	α 5 , 29 . 27.0 δ -0 , 20 , 4 R258, 5 ,20.1	H	SWP 24217 1+4	3427 486 F/U	-1.80 .08 10.8	L	O	15: 16:14	000:05	5	5	1	MN=	〃
	HD24912 13	07.5III 4.0	α 03 ,55 , 43.0 δ +35 ,39 , 00 R300, 13 , 44.0	H	SWP 24218 1+5	615 143 F/U	-1.71 .08 10.8	L	O	15: 38: 34	001:10	5	5	1	MN=	〃
	〃	〃	α , , δ , 〃 , R , ,	H	SWP 24219 1+6	621 76 F/U	-1.31 .08 10.8	L	O	16:25:19	001:10	5	5	1	MN=	〃
	HD209975 13	09.5Ib 5.2	α 22 . 03 , 36.2 δ 62 ; 02, 10 R 60 , 52 , 22.8	H	SWP 24220 1+7	21567 96 F/O	-.56 .08 10.8	L	O	17:12:30	005:00	5	5	1	185 Net DN at 1300 MN=	〃
	HD24912 13	07.5III 4.0	α 03, 55 ,43.0 δ +35 , 39 , 00 R 300, 22 , 46.5	H	SWP 24221 1+8	606 97 F/U	-2.21 .08 11.8	L	O	18: 05:15	001:10	0	0	1	no spectrum MN=	

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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	OBSERV
GA039	HD24912 13	07.5III 4.0	α 03, 55 , 43.0 δ +35, 39 , 00 R 300, 22 ,46.5	H	SWP 24222 1+9	605 83 F/U	-2.26 .08 11.8	H	O	18:32:30	001:10	5	5	1	MN=	PRINJA JC
	〃	〃	α , , δ , 〃 , R , ,	H	SWP 24223 1+10	612 80 F/U	-1.97 .08 11.8	H	O	18: 59:50	001:10	5	5	1	MN=	
	HD209975 13	09.5Ib 5.2	α 22, 03 . 36.2 δ +62, 02 , 10 R 60 , 59 ,32.4	H	SWP 24224 1+11	21465 58 F/O	-2.40 .08 11.5	H	O	19: 44: 51	005:00	5	5	1	MN=	
	〃	〃	α , , δ , 〃 , R , ,	H	SWP 24225 1+12	27896 98 F/O	-1.18 .08 11.2	H	O	20:16:11	005:00	5	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 20 M OCT Y 84 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. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GA039	HD 24912 13	07.5III 4.0	α 03,55,43.0 δ +35,39,00 R 300,51,06.9	H	SWP 24238 1+1	671 F/U	-3.7 0.4 9.2	L	O	13:07:31	01:10	5	O	1	C=230 MAN. GROSS B=24 MN=	PRINJA/AWH
"	HD 36486 13	0.9.5II 2.2	α 05,29,27.0 δ -0,20,04 R 257,34,25.5	H	SWP 24239 1+2	3519 774 F/U	-4.0 0.1 9.2	L	O	13:58:49	00:05	5	O	1	C=220 B=23 MN=	"
"	HD 45314 20	B0IV 6.8	α 06,24,24.4 δ +14,55,15 R 264,21,15	H	SWP 24240 1+3	4224 12 F/O.	-2.2 0.08 9.2	L	O	14:55:16	20:00	5	O	1	C=210 B=24 MN=	"
"	HD 36486 13	09.5II 2.2	α 05,29,27.0 δ -0,20,04 R 257,31,12	H	SWP 24241 1+4	3390 499 F/U	-2.5 0.08 9.2	L	O	15:57:29	00:05	5	O	1	C=210 B=24 MN=	"
"	HD 24912 13	07.5III 4.0	α 03,55,43.0 δ +35,39,00 R 300,57,39	H	SWP 24242 1+5	616 104 F/U.	-2.1 0.08 9.2	L	O	16:50:24	01:10	5	O	1	C=230 B=23 MN=	"
"	" "	" "	α -,-,- δ -,-,- R -,-,-	H	SWP 24243 1+6	701 F/U	-1.7 0.08 9.2	L	O	17:16:08	01:10	5	O	1	C=230 B=24 MN=	"
"	HD 209975 13	09.5Ib 5.2	α 22,03,36.2 δ 62,02,10 R 62,00,41	H	SWP 24244 1+7	21610 93 F/O	-1.7 0.08 9.2	L	O	18:21:25	05:00	5	O	1	C=220 B=24 MN=	"
"	HD 24912 13	07.5III 4.0	α 03,55,43.0 δ +35,39,00 R 301,01,31	H	SWP 24245 1+8	662 73 F/U	-2.5 0.08 9.2	L	O	19:10:19	01:10	5	O	1	C=230 B=24 MN=	"

OBSERVATORY LOG

DATE D 20 M OCT Y 84 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. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GA039	HD 24912 13	07.5III 4.0	α 03,55,43.0 δ +35,39,00 R 301,01,31	H	SWP 24246 1+9	685 F/U	-2.2 0.08 9.2	L	O	19:35:50	01:10	5	O	1	C=230 B=24 MN=	PRINJA/AWH
"	HD 209975 13	09.5Ib 5.2	α 22,03,36.2 δ 62,02,10 R 62,07,03	H	SWP 24247 1+10	21837 101 F/O	-1.8 0.08 9.2	L	O	20:20:16	05:00	5	O	1	C=230 B=24 MN=	"
			α , , 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 21 OCT 84 RAW DATA 21 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	OBSERV
GQ052	NGC3516 84	SgI 13.1	α 11 .03 .22.8 δ +72,50 .24 R 218 .12 .32.9	L	SWP 24253 1+1	108 15 0/S	-2.67 .8 10.2	L	O	13:25:11	203:00	3	4	3	140 Net DN at Lya 126 Net at CIV 1550 98 Net at CIII] 1908 MN=	CLAVEL CLAVEL
"	ESO113-IG45 84	SpI 13.3	α 01 .21 .51.2 δ -59,03 .59 R 179, 10 .07.4	L	SWP 24254 1+2	30 B.O.	-2.05 .08 10.8	L	O	18:03:27	90:00	3	4	2	143 Net DN at Lya 64 Net DN at CIV 1550 200N Net at N1700 P 450N Net at NV 1240	
	"	"	α . . δ . " . R . .	L	LWP 4603 1+3	B.O	-1.27 .08 9.5	L	O	19;39:44	64:08	3	3	3	65 DN net at Mg II 21 DN Net Contin. at λ 2750 A MN=	
			α . . 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 22 OCT 84 RAW DATA 22 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	OBSERV
GC026	HD 206778 47	K2 2.4	α 21 .41 .43.7 δ +09 .38 .41 R 97 .17 .50	L	SWP 24263 1+1	2276 364 F/U	-2.1 0.4 10.8	L	O	14:03:46	120:00	4	7	2	B=39 C=160 MAX. GROSS OI 1304 } SAT. SiII 1817 } MN=	REIMERS / AWH
"	HD 89758 49	M0 3.0	α 10 .19 .21.5 δ +41 .45 .06 R 234 .50 .11	L	SWP 24264 1+2	1404 255 F/U.	-1.6 0.08 11.2	L	O	17:03:52	120:00	3	5	1	B=32 C=65 OI=254 MAX. GROSS SiII=125 MN=	"
"	HD 108907 49	M2III 5.2	α 12 .27 .55.8 δ +69 .28 .41 R 199 .52 .45	L	SWP 24265 1+3	23648 96 F/O	-1.2 0.08 11.5	L	O	19:59:37	48:00	4	5	1	B=21 Suffering reflection C=140 for an M2 star! OI=217 Probably binary CII=243 companion accretion disc ?? MN=	
			α . . 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 84 RAN TAPE D 23 M OCT

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PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT 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 mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GI178	VW HYI 54	Dwarf Nov 9.6	α 04, 09, 32.3 δ -71, 25, 29 R 213 57, 13.6	L	LWP 4617 1+2	456 0 F/O	-3.64 0.08 10.5	L	O	14:14:03	1:00	5	0	2	C = 214 B = 36 MN=	HASSALL 18H
	〃	〃	α , , δ , 〃 , R , ,	L	SWP 24276 1+1	467 0 F/O	-3.21 0.08 10.5	L	O	14:18:12	1:10	5	0	0	B=12 C=185 MN=	〃
GI110	Z AND 57	Pec 10.20	α 23, 31, 15 δ 48, 32, 30 R 50, 3, 15	L	SWP 24277 1+3	335 326 0/21 FO	-1.93 0.08 10.5	L S	O	151708 155409	30:00 5:00	3 2	8 5	0	MN=	CASTAFELLA (LEIBOWITZ) AC
〃	〃	〃	α , , δ , , R , ,	L	LWP 4618 1+4	318 0 FO	-1.94 0.08 10.5	L S	O	160707 163040	10:00 5:00	5 3	7 5	1	MN=	
〃	AX AER 57	Pec 11.4.	α 1, 33. 6 δ 54.0 , 18 R 6, 40, 21	L	SWP 24278 1+5	117 0. FO	-1.62 0.08 10.8	L	O	170925	30:00	3	6	1	MN=	
〃	〃	〃	α , , δ , , R , ,	L	LWP 4619 1+6	118 0 FO	-1.65 0.08 10.8	L	O	174509	25:00	3	7	1	C ~ 130 B ~ 40 E = 2x MN=	
〃	AG DRA 57	Pec	α 16, 01, 23 δ 66, 56, 24 R 147, 48, 20	L	SWP 24279 1+7	412 0 FO	-0.95 0.08 11.2	L S	O	185131 193117	20:00 5:00	3 2	6 5	1	FDE(-823, -1352) NII 216 SiN 181 CIV 105 HeII 2001 C=82 MN=	α(1600 36.9) δ(66 51 10) 4D HeII SAP very exp
〃	〃	〃	α , , δ , , R , ,	L	LWP 4620 1+8	430 5 FO	-2.17 0.08 10.8	L	O	194055	15:00	5	6	1	C = 223 B ~ 40 HG2 = 2x. MN=	

OBSERVATORY LOG

DATE D 23 M OCT Y 84 RAN TAPE D 23 M OCT

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PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT 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 mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
FIT00	N VUL 55	Nova 9.09	α 19, 24, 3.4 δ 27, 15, 52 R 103, 25, 52.1	L	SWP 24280 1+9	897 10 FO	-2.12 0.08 10.8	L	O	203950	10:00	5	6	1	C ~ 100 B ~ 0 E_{H} ~ 2x (1750A) MN=	
			α , , 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 24 M OCT Y 84 RAW TAPE D 24 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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC #24	HD 108907 49	M3 III 5.0	α 12 , 27 , 55.8 δ 69 , 28 , 41 R 201 , 25 , 25.3	L	LWP 4630 1+1	21661 57 FO	-4.92 .08 11.5	L	0	13:48:16	30:00	7	7		Ngll emis = sat. 3x C = sat λ ≥ 2600 MN=	REIMERS AT
	HD 12533 47	K3 II 2.1	α 2 , 00 , 49.2 δ 42 , 05 , 22 R 357 , 11 , 34.2	L	SWP 24282 1+2	6295 620 FU	-2.42 .08 10.5	L	0	15:01:33	75:00	99	99	99 ?	COMPANION STAR IN THE APERTURE V. long saturation Bkg - not measured. MN=	
	HD 192713 45	G2 5.2	α 20 , 13 , 20.6 δ 23 , 21 , 17 R 99 , 9 , 40.0	H	SWP 24283 1+3	18133 38 FO	-2.40 .08 11.5	L	0	17:25:55	135:00	5	0	1	C = 210 B = 60 RETURNENCE LOW.RES MN=	
GD 178	VW HYI 54	Dwarf Nova 9.2	α 4 , 9 , 32.3 δ -71 , 25 , 29 R 212 , 41 , 49.8	L	LWP 4631 1+4	811 5 FO	-1.69 .08 10.2	L	0	20:28:53	0:30	4	0	1	C = 140 B = 30 MN=	HASSALL
			α , , δ , , R , ,	L	SWP 24284 1+5	820 4 FO	-1.69 .08 11.2	L	0	20:32:47	0:30	3	0	0	C = 69 B = 22 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE D 25 M OCT Y 84 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 undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC052	ES0113-1649 84	S8I 13.3	α 01 , 21 , 51.2 δ -59 , 03 , 59 R 170 , 28 , 56	L	SWP 24291 1+1	~35 B.O.	-2.57 .08 8.8	L	0	14:15:29	120:00	3	5	2	210 DN at Lyα (hot) 115 DN at CIV 1550 (hot) 17 DN net cont at 1900 Å 32 DN net cont at 1300 Å MN=	CL AUEL JC
"	"	"	α , , δ , " , R , ,	L	LWP 4639 1+2	B.O.	-1.85 .08 8.5	L	0	16:20:10	120:00	3	5	2	163 DN net at MgII 48 DN net contin. at 2750 Å B=60 MN=	
GI178	VW HYI 54	Dwarf Nova 9.0	α 04 , 09 , 32.3 δ -71 , 25 , 29 R 211 , 46 , 24.3	L	SWP 24292 1+3	944 1 F/0	-1.32 0.08 9.2	L	0	18:42:56	0:30	4	0	0	C ~160 @ 1300 B=12 MN=	HASSALL/BH
	"	"	α , " , δ , , R , ,	L	LWP 4640 1+7	891 4 F/0	-1.22 0.08 9.5	L	0	19:40:12	0:30	5	0	1	C ~186 @ 2800 B=30 MN=	
	"	"	α , " , δ , , R , ,	L	SWP 24293 1+4	892 0 F/0	-1.23 0.08 9.2	L	0	19:43:50	0:40	5	0	0	C ~198 @ 1300 B=13 MN=	
	"	"	α , " , δ , , R , ,	L	SWP 24294 1+5	865 0 F/0	-1.57 0.08 9.2	L	0	20:1a:54	0:40	5	0	0	@ 1300 C ~195 B=12 MN=	
	"	"	α , " , δ , , R , ,	L	SWP 24295 1+6	956 2 F/0	-1.14 0.08 9.8	L	0	20:36:31	0:40	5	0	0	C ~ 206 @ 1300 B= 13 MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 26 M OCT Y 84 RAW TAPE D 26 M OCT

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PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FBS 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	OBSERV
GI178	VW HYI 54	Dwarf Nova 9.0	α 04, 09, 32·3 δ −71, 25, 29 R 211, 0, 7.1	L	SWP 24299 1+1	1036 4 F/O	−3·30 0·08 10·8	L	0	13:43:35	0:30	5	0	0	C=170 B=12 MN=	HASSALL/BH
	"	"	α , , δ , , R , ,	L	SWP 24300 1+2	890 2 F/O	−2·87 0·08 10·8	L	0	14:09:44	0:40	5	0	0	C=206 B=12 MN=	
		"	α , , δ , , R , ,	L	SWP 24301 1+3	818 1 F/O	−2·89 0·08 11·2	L	0	14:34:20	0:40	5	0	0	C=207 B=13 MN=	
	"	"	α , , δ , , R , ,	L	SWP 24302 1+4	858 5 F/O	−2·67 0·08 11·2	L	0	14:58:57	0:40	5	0	0	C=219 B=13 MN=	
	"	"	α , , δ , , R , ,	L	SWP 24303 1+5	1015 9 F/O	−2·06 0·08 11·5	L	0	15:23:44	0:35	5	0	0	C=199 B=13 MN=	
	"	"	α , , δ , , R , ,	L	LWP 4648 1+7	939 5 F/O	−2·04 0·08 10·2	L	0	15:27:08	0:25	5	0	1	Partial Read C=197 B=26 MN=	
	"	"	α , , δ , , R , ,	L	SWP 24304 1+6	803 2 F/O	−2·71 0·08 11·5	L	0	15:50:58	0:40	5	0	0	C=218 B=13 MN=	
	"	"	α , , δ , , R , ,	H	SWP 24305 1+8	726 5 F/O	−2·01 0·08 11·5	L	0	16:17:30 16:54:44 17:12:54	24100 7:00 18:00	4	0	1	(368, 964) C=162 B=23 (Total=49mins) MN=	

OBSERVATORY LOG

DATE D 26 M OCT Y 84 RAW TAPE D 26 M OCT

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PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FBS 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	OBSERV
GI178	VW HYI 54	Dwarf Nova 9.0	α 04, 09, 32·3 δ −71, 25, 29 R 211, 0, 7.1	L	LWP 4649 1+14	879 968 3 F/O	−2·44 −2·79 0·08 10·8	L	0	16:52:11 17:09:05	0:30 0:30	5	0	1	(2, −212) Partial Read C=211 Playback (−34, −204) B=31 C=260 MN=	HASSALL/BH —PROBLEM
	"	"	α , , δ , , R , ,	L	LWP 4650 1+9	788 3 P/O	−1·99 0·08 11·2	L	0	18:28:31	0:30	5	0	1	C=206 B=31 MN=	
	"	"	α , , δ , , R , ,	L	SWP 24306 1+10	928 2 F/O	−1·98 −1·90 0·08 11·2	L	0	19:06:15 19:15:34	0:35 0:35	5	0	0	(−34, −204) C=189 B=12 (2, −212) MN=	RE-ARCHIVED ON 26 OCT-4 SINCE ORIGINAL FAILED TO READ
	"	"	α , , δ , , R , ,	L	LWP 4651 1+11	974 5 F/O	−1·98 0·08 11·5	L	0	19:11:09 19:19:53	0:25 0:25	5	0	1	(−34, −204) C=247 B=26 (2, −212) MN=	
	"	"	α , , δ , , R , ,	L	LWP 4652 1+13	907 1 P/O	−1·55 0·08 11·5	L	0	20:34:59	0:30	5	0	1	RP (−16, −208) C=206 B=35 MN=	
	"	"	α , , δ , , R , ,	L	SWP 24307 1+12	873 1 P/O	−1·55 0·08 11·2	L	0	20:38:21	0:40	5	0	0	C=202 B=12 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DAY 27 OCT 84 DAY 27 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. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERV
GI235	AH HER 59	CV 14.02	α 18,14,58.9 δ 49,50,55 R 119,38,4.5	L	SWP 24318 1+1	44 0 SO	-2.56 0.08 10.2	L	O	142521	35:00	3	5	1	GDE(-321,-15) 161 SO CIV 216 HeII 84 SiIV 97 NV 68 B=16 MN= C=66	PAERELS AC
"	"	"	α , , δ , , R , ,	L	LWP 4662 1+2	42 0 SO	-2.86 0.08 10.2	L	O	150635	30:00	3	5	2	GDE(-522+122) MgII 208 C=111 B=36 MN=	4
"	"	"	α , , δ , , R , ,	L	SWP 24319 1+3	34 0 SO	-1.99 0.08 10.8	L	O	154546	30:00	3	5	1	HeII 80 SiIV 80 CIV 153 NV 69 C(1900)=60 B=25 MN=	"
"	"	"	α , , δ , , R , ,	L	LWP 4663 1+4	~20 0 SO	-1.87 0.08 10.8	L	O	162646	30:00	3	5	2	MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 24320 1+5	/	-1.35 0.08 11.2	L	O	170201	26:00	3	4	1	CIV 166 HeII 66 C=53 B=19 MN=	"
			α , , δ , , R , ,	L	LWP 4664 1+6	-	-0.50 0.08 11.2	L	O	173529	30:00	3	5	2	MN=	"
GA232	G104-027 17	DA2 13.53	α 6,12,23.6 δ 17,44,45 R 265,21,21	L	SWP 24321 1+8	68 5 SO	-1.70 0.08 10.5	L	O	203624	12:00	5	0	1	C(1300)~218 C(1900)~112 B=13 MN=	"
			α , , δ , , R , ,		1+										MN=	

DAY 28 OCT 84 DAY 28 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. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERV
GM φ15	HD 43389 74	K2 6.5	α 22,28,02.8 δ 49,05,59 R 71,32,31.7	H	LWP 4667 1+1	7292 21 FO	-2.70 .08 8.8	L	O	13:44:34	20:00	2	3	1	EMISS MgII ≈ 93 DN BKG ≈ 23 C ≈ 25 MN=	BATES AT
	HD 212712 74	B9 7.2	α 22,23,22.9 δ 50,08,49 R 72,02,07.4	H	LWP 4668 1+2	3616 21 FO	-2.20 .08 8.2	L	O	14:48:51	40:00	5	0	2	C ≈ 200 B ≈ 40 MN=	
	HD 1048 74	A0 6.0	α 00,12,20.4 δ 22,0,24 R 77,31,12.5	H	LWP 4669 1+3	9200 18 FO	-1.83 .08 8.2	L	O	16:35:13	18:00	5	0	2	C ≈ 220 B ≈ 44 MN=	
	HD 213389 74	K2 6.5	α 22,28,02.8 δ 49,05,59 R 71,45,7.4	H	LWP 4670 1+4	7401 21 FO	-1.46 .08 8.2	L	O	18:02:49	40:00	2	3	2	E ≈ 130 MgII BKG ≈ 40 C ≈ 30 @ λ>2800Å MN=	
	HD 206672 74	B3 4.6	α 21,40,18.9 δ 50,57,38 R 80,59,13.7	H	LWP 4671 1+5	346 38 FO	-1.26 .08 8.2	L	O	19:28:53	1:50	6	0	1	C ≈ 255 (NEW PIX.) B ≈ 20 MN=	
			α , , δ , , R , ,	H	SWP 24332 1+6	349 40 FO	-1.16 .08 8.2	L	O	20:05:17	4:00	6	0	1	C ≈ 255 B ≈ 40 MN=	
	HD 201254 74	B3 6.8	α 21,05,35.4 δ 14,28,14 R 99,51,33.8	H	LWP 4672 1+7	5373 15 FO	-.83 .08 8.8	L	O	20:39:48	8:00	4	0	2	C ≈ 190 B ≈ 40 MN=	
			α , , δ , , R , ,		1+										MN=	

DATE D 29 M oct Y 84 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 mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GO ϕ52	NGC 3516 84	Sey 13.1	α 11,03,22.8 δ 72,50,20 R 226,1,42.8	L	SWP 24344 1+1	109 8 0/5	-1.54 .08 9.2	L	0	14:53:22	180:00	3	4	2	Lyα. 127 DN Net CIV: 104 DN Net CIII]: 80 DN Net cont@1300. 650N Net MN=	CLAVEL (Lost 1 Hr to cool S/C)
"	ESO113 84	Sgl I 13.3	α 01,21,51.2 δ -59,03,54 R , ,	L	SWP 24345 1+2	B.O.	-2.45 -.08 9.2	L	0	19:11:28	91:00	3	5	1	Lyα: 150 DN Net CIV: 71 DN Net Cont@1300A= 24 DN Net MN=	"
			α , , 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 30 M OCT Y 84 RAW TAPE D 30 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	OBSERV
GO 144	PKS ϕ454+ϕ39 85	QSO 16,5	α 4,54,9.0 δ 3,56,15 R 253 4,1.7	L	LWP 4680 1+1	B.O.	-2.11 0.08 8.8	L	0	13 58 01	409:00	3	4	6	(PDE-562,-973) 153FO B=90 C=150 E=190 MN=	BERGERON 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=	

ORDINARY IUE

DAY: D 31 M OCT Y 84 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 undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	BD+28° 4211 16	sdO 10.5	α 21, 48, 56 δ +28, 37, 35 R 92, 39, 15	L	LWR 17526 1+2	238 1 FO	-3.14 0.08 13.2	L	O	14 13 35	1:22	4	O	1	4.5 KV LWC ETH 607 NO 4min MN=warmup	CASSATELLA A.C.
"	NULL 99	/	α 00, 00, 00 δ 00, 00, 00 R , ,	L	LWR 17525 1+1		/ 0.08 13.2	L	O	13 30 00					4.5 KV LWC ETH READPREP MN= 485	
"	BD+28 4211 16	SOO 10.5	α 21, 48. 56 δ 28, 37 35 R 92, 39, 15	L	LWR 17527 1+3	213 0 FO	-7.0 0.08 13.8	L	O	14 42 52	1:22	4	O	1	4.5KV LWC ETH C=157 B=24	
"	"	"	α , , δ , , R , ,	L	LWR 17528 1+4	227 0 FO	-1.06 0.08 13.8	L	O	15 15 52	1:00	5	O	1	C=187 B=25 MN=	
"	"	"	α , , δ , , R , ,	L	LWR 17529 1+5	237 0 FO	-0.65 0.08 14.5	L	O	15 44 37	1:00	5	O	1	MN=	
	NULL 99	/	α 00, 00, 00 δ 00, 00, 00 R , ,	L	LWP 4687 1+6					16:40:00					after turn on. MN=	
GI178	VW HYI 54	Dwarf Nova 9.6	α 04, 09, 32.3 δ -71, 25, 29 R205, 54, 58.8	L	LWP 4688 1+7	492 3 FO	-2.21 0.08 9.2	L	O	18:08:36	1:00	5	O	1	C=217 B=33 MN=	HASALL/BH
	"	"	α , , δ , , R , ,	L	LWP 4689 1+8	585 1 FO	-2.54 0.08 9.2	L	O	18:37:51	1:00	5	O	1	C=215 B=33 MN=	

(p. 2)

DAY: D 31 M OCT Y 84 RAW TAPE: D 31 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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GI178	VW HYI 54	Dwarf Nova 9.6	α 04, 09, 32.3 δ -71, 25, 29 R205, 54, 58.8	L	SWP 24361 1+10	506 0 FO	-2.56 0.08 9.2	L	O	19:21:59	1:15	5	O	0	C=195 B=12 MN=	HASALL BH.
"	"	"	α , , δ , , R , ,	L	LWP 4690 1+9	508 1 FO	-2.15 0.08 9.8	L	O	19:26:19	1:00	5	O	1	C=223 B=34 MN=	
"	"	"	α , , δ , , R , ,	L	SWP 24362 1+11	522 2 FO	-2.15 0.08 9.5	L	O	20:05:18	1:15	5	O	0	C=195 B=13 MN=	
			α , , 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 1 M NOV Y 84 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 undov/f.s	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERV
GQ226	HCG 8-11.011 84	Seyfert 14	α 05,51,09.7 δ +46,25,51.0 R 289,21,31.0	L	SWP 24368 1+1	32 50 B0	-2.30 .08 10.2	L	0	11:51:42	290:0	3	3	3	gde 331 626 554 50 X=92 Y=91 B=58 B=30	GRY WHITAKER /C.G
11	11	11	α , , δ , " , R , ,	L	LWP 4696 1+2	11	-1.71 .08 9.5	L	0	16:46:39	120:00	3	4	3	gde 132 765 50 30 X=111 Y=160 B=49 B=48 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=	

DATE D 2 M NOV Y 84 RAW TAPE D 2 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 THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERV
GE038	NULL 99		α δ 0,0,0 R , ,		SWP 24382 1+1					11:05:00	0:0	3	0	0	Residual clock B=12 C 138 MN=	O'BRIEN /CC
PHCAL	NULL 99		α δ 0' 0' 0 R , ,		SWR 1179 1+2					11:27:00	0:00	0	0	X	SAFETY READ TFDC=19.3 MN=	gm /CC
GE038	PK 309 88	Emission galaxy 15.0	α 22,50,10.0 δ 24,27,51.5 R 90,05,13.7	L	SWP 24383 1+	24 50 B0	-2.48 .08 12.2	L	0	12,42.47	840:00 auto	3	0	8	gde X=-744 Y=664 ots=20150 read in GSFC MN=	O'BRIEN /CC
11	11	11	α , , δ , " , R , ,		FES 1593 1+3					12:09:00	40:00 (SL64)				FES archived (collimator in SWP24382) MN=	11
			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 03 M Nov Y 84 RAW TAPE D 3 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. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERV
GE038	MK 66	14.7	α 13,23,57.8 δ +57,30,39 R 197,21,18.7	L	SWP 24387[illegible] and 1+	BO	-2.90 .34 8.5	L	O	10:34:03 11:17:47 11:40:46 18:27:03 18:53:15	40:05 20:00 400:00 15:00 40:00	5	0	9	bypass set up and terminated at GSFC. MN=	O'BRIEN / CG
PHCAL	Serendipity 07		α , , δ 0, , 0 R , ,	H	LWR 17530 1+1		-2.89 .08 11.5			11:42:05	400:00	0	0	3	Beam check at -4.5 RV NO FLARE MN=	guy / CG
"	NULL 99		α 0 0 0 δ , , R , ,		LWP 4714 1+2										TURN ON OF THE CAMERA MN=	"
			α , , 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 Nov Y 84 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. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERV
GM248	HD 73898 44	G4 4.89	α 8,37,37.9 δ -29,22,56 R 256,29,51.5	H	LWP 4721 1+2	22548 55 FO	-1.87 .08 11.2	L	O	14:59:57	65:00	6	4	3	gde X=-56 Y=-162 cts 485 50 C=255 E=155 B=50 B=50 MN=	MOLARO / CG
"	HD 206952 46	K0 4.56	α 21,41,11.7 δ 71,4,52 R 79,52,206	H	LWP 4720 1+1	320 CI FV	-2.40 -10 11.2	L	O	12:00:14	120:00	5	3	4	gde 117 209 367 50 E=120 C=255(1) B=40 B=56	"
"	HD 81101 44	G6 4.81	α 09,19,45.0 δ -62,11,28 R 271,49,19.1	H	LWP 4722 1+3	23256 49 FO	-3.15 .08 11.2	L	O	16:53:07	50:00	5	3	3	X=1015 Y=541 cts=326 FO C=200 E=87 B=40 B=42	"
"	HD 177241 44	G8 3.77	α 19,01,41.2 δ -21,49,00 R 96,31,34.3	H	LWP 4723 1+4	648 FV	-2.09 .08 11.5	L	O	18:33:49	15:00	4	3	3	X=-817 Y=280 cts=154 FO C=167 E=87 B=36 C=37	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATA: D 5 M NOV Y 84 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	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	OBSERV
GA211	HD 31293 34	Herbig. 7.2	α 04,52,34.2 δ 30,28,22 R 288,46,19.3	H	LWP 4733 1+1	4455 20 O/F	-2.33 .10 9.5	L	O	11:49:05	038:00	4	6	3	2 pix sat at MgII 2795. 129 Net DN at MgII 2802 136 Net cont at 1900 MN=	CATALA JC
"	"	"	α , , δ , " , R , ,	L	SWP 24389 1+2	4321 11 O/F	-1.99 .08 8.2	L	O	12:33:21	003:00	5	0	1	198 Net DN cont at 1900 MN=	"
GI178	VW HYI 54	Dwarf Nova 9.0	α 04,09,32.3 δ -71,25,29 R 201,09,29.1	L	LWP 4734 1+3	242 26 O/S	-3.27 .08 9.2	L	O	13:56:44	010:00	5	0	1	171 Net DN at 2800 38 DN B KG. MN=	HASSALL JC
"	"	"	α , , δ , " , R , ,	L	SWP 24390 1+4	227 8 O/S	-3.21 8.5 .08	L	O	14:13:16	015:00	5	0	0	182 Net DN @ 1300 13 DN BG MN=	"
GQ052	NGC3516 84	Sy I 13.1	α 11,03,22.8 δ +72,50,24 R 232,0,31.3	L	SWP 24391 1+5	108 13 O/S	-1.5 8.5 .08	L	O	15:29:21	200:00	3	4	2	127 DN Net at Lyα 114 DN Net at CIV 78 DN Net at CIII] 5 DN Net, cont. ~ 1850Å MN=	CLAVEL JC
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATA: D 6 M NOV Y 84 RAW TAPE: D 6 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. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GA211	AB AUR 34	Ae 7.2	α 4,52,34.2 δ 30,28,22 R 289,14,8.6	H	LWP 4736 1+1	4316 11 FO	-2.65 .30 8.2	L	O	11:56:19	33:00	4	5	1	MgII emis Plys: 282 C ≃ 170 @ 1900 B ≃ 80 @ 2800 MN=	CATALA AT
			α , , δ , , R , ,	L	SWP 24405 1+2	4431 16 FO	-2.21 .20 8.2	L	O	12:34:57	3:00	5	0	0	C ≃ 204 B ≃ 18 MN=	
			α , , δ , , R , ,	H	LWP 4737 1+3	4481 14 FO	-1.77 .10 8.5	L	O	13:10:55	30:00	4	5	1	MgII Plys: 146 C ≃ 147 B ≃ 40 MN=	
GQ226	P2155-30 87	BLLac 13.1	α 21,55,58.3 δ -30,27,54 R 112,47,9.5	L	LWP 4738 1+4	100 3 SO	-2.04 .08 8.2	L	O	14:57:15	70:00	6	0	1	21 Pix Sat. B ≃ 30 MN=	
			α , , δ , , R , ,	L	SWP 24406 1+6	96 5 SO	-2.23 .08 7.2	L	O	16:14:22	105:00	5	0	1	C ≃ 200 B ≃ 31 MN=	
GC210 45	HD 203387	G8 4.3	α 21,19,28 δ -17,2,55 R 107,46,55.3	H	LWP 4739 1+	409 60 FU	-1.11 .08 7.8	L	O	18:20:21	27:00	5	5	1	MgII emis: 215 C ≃ 200 @ 1100 B ≃ 70 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

ORIGINAL TEXT

DATE D 7 M NOV Y 84 RAW TAPE D 7 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. SELT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GQ 226	PKS 2155-30 87	BL Lac 13.1	α 21, 55, 58.3 δ -30, 27, 54 R 112, 29, 46.8	L	SWP 24410 1+1	108 5 50	-2.50 .08 9.2	L	0	14:07:58	70:00	4	0	0	C≃169 B≃21 MN=	WARNER AT
			α , , δ , , R , ,	L	LWP 4746 1+2	108 5 50	-2.10 .08 9.2	L	0	15:23:25	37:00	5	0	1	C≃220 B≃35 MN=	
GA 211	AB AUR 34	A0 7.2	α 4, 52, 34.2 δ 30, 28, 22 R 289, 49, 47.4	H	LWP 4747 1+3	4509 11 F0	-1.57 .08 9.5	L	0	A:05:49	30:00	4	5	1	ngII Plyg = 236 C≃167 @ 2400 B≃40 MN=	CATALA AT
			α , , δ , , R , ,	L	SWP 24411 1+4	4198 30 F0	-1.71 .08 9.2	L	0	17:42:09	3:00	5	0	0	C≃212 B≃18 MN=	
			α , , δ , , R , ,	L	LWP 4748 1+5	4377 14 F0	-.96 .08 9.8	L	0	18:25:14	0:30	5	0	0	C≃191 B≃30 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE D 8 M NOV Y 84 RAW TAPE D 8 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. SELT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
G-E178	VW 1141 57	Dwarf Nova 13.8	α 04, 09, 32.3 δ -71, 25, 29 R 198, 15, 22.9	. L	LWP 4752 1+1	65 5 50	-2.19 0.34 10.5	L	0	11:54:11	40:00	5	5	1	(-58, 1128) gdc C≃203 B≃38 G≃237 MN=	HASSALL/BH.
	"	"	α , , δ , " , R , ,	L	SWP 24415 1+2	52 9 50	-2.26 0.32 10.2	L	0	12:42:07	60:00	5	0	0	(142, 985) gdc C≃205 B≃17 MN=	
GA 211	AB AUR 34	A0 7.2	α 4, 52, 34.2 δ +30, 28, 22 R 290, 18, 05.2	L	SWP 24416 1+3	4161 9 F0	-1.73 0.08 10.8	L	0	14:30:11	3:00	5	0	0	(-254, -696) gdc C≃145 B≃17 MN=	CATALA
	"	"	α , , δ , ' , R , ,	H	LWP 4753 1+4	4101 19 F0	-2.16 .08 10.5	L	0	14:33:34	30:00	4	5	1	ngII Plyg: 214 C≃170 @ 2900 B≃40 MN=	AT
			α , , δ , , R , ,	L	SWP 24417 1+5	4051 13 F0	-2.26 .08 11.2	L	0	15:15:27	3:00	5	0	0	C≃211 B≃17 MN=	
			α , , δ , , R , ,	H	LWP 4754 1+6	4049 10 F0	-1.96 .08 10.8	L	0	15:46:59	30:00	4	5	1	ngII Plyg: 212 C≃175 @ 2900 B≃40 MN=	
			α , , δ , , R , ,	L	SWP 24418 1+7	4077 12 F0	-2.09 .08 10.8	L	0	16:22:51	3:00	5	0	0	C≃220 B≃17 MN=	
			α , , δ , , R , ,	H	LWP 4755 1+8	4090 9 F0	-1.82 .08 11.2	L	0	17:01:33	30:00	4	5	1	ngII Plyg: 213 C≃169 B≃40 MN=	

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OBSERVATORY LOG

DATE D 9 M Nov Y 84 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 undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	HD 93521 12	O9Vp 7.04	α 10 ,45 ,34.0 δ 37 ,50 ,04 R239 ,46 ,34.1	L	SWP 24424 1+1	5346 10 Po	-2.48 .08 7.8	L	O	11:47:49	0:03	5	0	0	C=169 B=15 MN=	TALAVERA AT
			α , , δ , , R , ,	L	LWP 4762 1+2	5398 3 Po	-2.48 .24 7.5	L	O	11:51:36	0:03	5	0	2	C=188 B=33 MN=	
			α , , δ , , R , ,	L	SWP 24425 1+4	5789 16 Po	-2.68 .08 7.8	L	O	12:48:33	0:12	5	0	0	TRAILED R=1.67/1=1 C=201 B=16 MN=	
			α , , δ , , R , ,	L	LWP 4763 1+3	5551 10 Po	-2.24 .08 7.8	L	O	12:55:40	0:11	5	0	1	TRAILED R=1.8/1=1 C=193 B=26 MN=	
GA211	AB AUR 34	Aϕ 7.2	α 4 ,52 ,34.2 δ 30 ,28 ,22 R280, 50 ,52.7	L	SWP 24426 1+5	4613 12 Po	-2.08 .08 7.8	L	O	14:11:33	3:00	5	0	0	C=220 B=15 MN=	CASTAÑA AT
			α , , δ , , R , ,	H	LWP 4764 1+6	4487 15 Fo	-2.08 .08 7.8	L	O	14:20:44	20:56	3	4	1	MgII Plyg = 164 C=132 B=38 MN=	
			α , , δ , , R , ,	L	SWP 24427 1+7	4373 13 Fo	-2.68 .08 8.2	L	O	15:07:57	3:00	5	0	0	C=216 B=14 MN=	
			α , , δ , , R , ,	H	LWP 4765 1+8	4401 11 Fo	-1.97 .08 8.2	L	O	15:40:58	30:00	4	5	1	MgII Plyg = 204 C=166 B=48 MN=	

LABORATORY LOG

DATE 9 Nov 84 RAW TAPE 4 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	OBSERV
GA 211	AB AUR 34	Aϕ 7.2	α 4 ,52 ,23.2 δ 30 ,28 ,22 R280, 50 ,51.7	L	SWP 24428 1+9	4460 10 Fo	-1.26 .08 7.8	L	O	16:16:52	3:00	5	0	0	C=215 B=15 MN=	CASTAÑA AT
			α , , δ , , R , ,	H	LWP 4766 1+10	4518 12 Fo	-.56 .08 8.2	L	O	16:50:31	30:00	4	5	1	MgII Plyg: 215 C=157 B=40 MN=	
PHCAL	HD 93521 12	O9Vp 7.04	α 10 ,45 ,34 δ 37 ,50 ,04 R239 ,53 ,31.9	L	LWP 4767 1+11	5625 14 Fo	-.38 .08 8.5	L	O	18:20:15	0:10	7	0	1	SATUR λ>2380A MN=	
			α , , 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 84 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 undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERV
CI178	VW HYI 54	Draw Nova 13 9	α 04, 09, 32.3 δ −71, 25, 29 R 196, 16, 49.3	L	SWP 24435 1+1	45 5 50	−2.61 0.24 8.2	L	O	11:58:54	50:00	4	3	0	gal(103, 382) 165 F0 c=165, B=17 CTV=115 MN=	HASSALL/BH
	"	"	α , , δ , " , R , ,	L	LWP 4773 1+2	50 — 50	−3.21 0.08 7.8	L	O	12:53:31	25:00	4	4	2	gal(−89, 1125) c=151 B=36 MgII=184 MN=	
CA 211	AB AUR 34	AØ 7.2	α 04, 52, 34.2 δ +30, 28, 22 R 291, 25, 47.1	L	SWP 24436 1+3	4452 10 F0	−2.29 0.12 8.2	L	O	14:08:21	3:00	5	0	0	gal(−265, −69) 793 F0 c=224 B=19 MN=	CATALA/BH BCK JUMPING FOR 5 HOURS.
	"	"	α , , δ , " , R , ,	H	LWP 4774 1+4	4336 1K F0	−1.90 0.14 8.2	L	O	14:18:05	30:00	4	5	2	(−467, −586) c=165 E=230 B=38 MN=	
	"	"	α , , δ , " , R , ,	L	SWP 24437 1+5	4307 10 F0	−1.52 0.48 8.2	L	O	14:54:41	3:00	5	0	0	c=223 B=19 MN=	
	"	"	α , , δ , " , R , ,	H	LWP 4775 1+6	4375 10 F0	−1.23 0.34 8.5	L	O	15:26:56	30:00	4	5	2	c=165 E=211 B=38 MN=	
	"	"	α , , δ , " , R , ,	L	SWP 24438 1+7	4436 9 F0	−0.86 0.08 8.5	L	O	16:02:25	3:00	5	0	0	c=213 B=20 MN=	
	"	"	α , , δ , " , R , ,	H	LWP 4776 1+8	4463 6 F0	−1.02 0.08 8.8	L	O	16:34:27	30:00	4	5	2	c=170 E=213 B=33 MN=	

OBSERVATORY LOG

DATE D 10 M NOV Y 84 RAW TAPE D 10 M NOV

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 BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERV
PHEAL	HD 3360 20	B2IV 3.7	α 0, 34, 10.3 δ +53, 37, 20 R 52, 38, 58	L	SWP 24439 1+9	899 3 FU	−1.35 0.08 7.8	L	O	17:57:16	0:0.94	5	0	0	R=21.30 I=1 t=0.73897 sec c=204, B=12 MN=	HASSALL/BH (scattered light in SAP)
	"	"	α , " , δ , , R , ,	L	LWP 4777 1+10	899 3 FU	−1.35 0.08 8.5	L	O	18:09:49	0:0.96	5	0	0 1	R=20.98 I=1 t=0.76013 sec c=218, B=31 MN=	
			α , , 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 NOV Y 84 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 undov/f.s	FOCUS BRG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GQ226	PKS 2155-30 87	BL Lac 13.1	α 21,55,58.3 δ -30,27,54 R 111,21,50.6	L	LWP 4782 1+1	109 11 50	-2.49 .08 8.8	L	0	11:45:37	40:00	5	0	2	C≃213 B≃41 MN=	TALAVERA AT
			α , , δ , , R , ,	L	SWP 24445 1+2	109 15 50	-2.77 .08 8.8	L	0	12:33:00	100:00	5	0	1	C≃199 B≃24 MN=	
			α , , δ , , R , ,	L	LWP 4783 1+3	109 15 50	-1.34 .08 9.2	L	0	14:17:38	20:00	3	0	1	C≃130 B≃35 MN=	
6A211	AB AUR 34	Aφ ~~B7~~	α 4,52,34.2 δ 30,28,22 R 292,5,24.9	L	SWP 24446 1+4	4423 13 P0	-1.18 .08 10.5	L	0	15:58:02	3:00	5	0	0	C≃207 B≃18 MN=	CATALA AT
			α , , δ , , R , ,	H	LWP 4784 1+5	4251 6 F0	-.78 .08 10.2	L	0	16:07:21	30:00	4	5	1	MgII Plyg: 147 C≃177 @ 2850 B≃44 MN=	
			α , , δ , , R , ,	L	SWP 24447 1+6	4180 9 P0	-1.25 .08 11.5	L	0	16:43:14	3:00	5	0	0	C≃214 B≃19 MN=	
			α , , δ , , R , ,	H	LWP 4785 1+7	4156 13 F0	-1.34 .08 11.8	L	0	17:26:34	30:00	4	5	1	MgII Plyg: 203 C≃169 @ 2850 B≃40 MN=	
			α , , δ , , R , ,	H	LWP 4786 1+	4260 14 P0	-.77 .08 12.5	L	0	18:22:38	25:00	4	4	1	MgII Plyg: 178 C≃140 B≃40 MN=	

DATE D 12 M NOV Y 84 RAW TAPE D 12 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 BRG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
BIT00	NOV VUL 84 55	Nova 9.3	α 19,24,03.4 δ +27,15,52 R 118 33 04.2	H	SWP 24457 1+12	733 2 F0	-2.17 0.08 10.2	L	0	13:46:56	293	3	5	2	(265+15+13 min) E=240 B=39 C≃100 MN=	HASSALL/BH.
PHCAL	NULL 99		α 0,0,0 δ 0,0,0 R , ,		LWR 17533 1+-1					13:53:00		0	0	7	LWR BASELINE High gain med. B≃82 MN=338	
	60% CALUV 99		α 0,0,0 δ 0,0,0 R , ,		LWR 17534 1+2		-1.29 0.08 14.5			14:25:26	1:53	0	0	8	UVT=38 B=99 MN=519	
	20% CALUV 99		α , , δ , , R , ,		LWR 17535 1+3		-0.42 0.08 14.8			16:52:35	0:35	0	0	4	UVT=36 B=53 MN=	
	120% CALUV 99		α , , δ , , R , ,		LWR 17536 1+4		-1.60 0.08 15.2			17:22:50	3:46	0	0	9	UVT=42 B=148 MN=	
	60% CALUV 99		α , , δ , , R , ,		LWR 17537 1+5		-2.05 0.08 15.5			15:55:12	1:53	0	0	8	UVT=38 B=99 MN=	
	100% TFLOOD 99		α , , δ , , R , ,		LWR 17538 1+6		-2.37 0.08 15.9			16:21:19	0:22	0	0	X	TFLOOD B=242 MN=	
	160% CALUV		α , , δ , , R , ,		LWR 17539 1+7		-2.77 0.08 16.2			16:53:34	5:01	0	0	9	Head Only UVT=39 B=190 MN=	

OBSERVATORY LOG

DATE D 12 M NOV Y 84 (p?.) RAW TAPE D 12 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.	EM. LINES	BACKG.	COMMENTS	OBSRVR
PHCAL	NULL 99		α , " , δ , , R , ,		LWR 17560 1+8					17:10:00		0	0	0	Second read B = 11 MN=	HASSALL/BH
	NULL 99		α , " , δ , , R , ,		LWR 17561 1+9					17:30:00		0	0	8	High gain read B=92 MN=	
	NULL 99		α , " , δ , , R , ,		LWR 17562 1+10					17:53:00		0	0	1	Low gain read. B=34 MN=	
	NULL 99		α " δ , , R , ,	L	LWP 4791 1+11					18:20:00					NULL after Turn on. B= 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 84 RAW TAPE D 13 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.	EM. LINES	BACKG.	COMMENTS	OBSRVR
GITOO	NOV VUL 84 55	Nova 9.7	α 19, 24, 034 δ 27, 15, 52 R 119 17.09.5	H	SWP 4796 1+11	496 3 F/O	-1.27 0.22 8.8	L	O	11:56:00	150:00	4	5	3	B=44 C=~160 E=232 MN=	HASSALL/BH
PHCAL	NULL 99		α 0, 0, 0 δ 0, 0, 0 R , ,		SWP 24463 1+1					12:01:00		0	0	3	SWP BASELINE High gain read. B 44 MN=	
	60% CALUV 99		α , " , δ , , R , ,		SWP 24464 1+2		-1.98 0.08 9.5			12:29:08	1:49	0	0	5	UVT=34 B=62 MN=	
	20% CALUV 99		α , " , δ , , R , ,		SWP 24465 1+3		-2.70 0.08 9.5			12:57:05	0:36	0	0	2	UVT=32 B=33 MN=	
	120% CALUV 99		α , " , δ , , R , ,		SWP 24466 1+4		-2.17 0.08 9.8			13:23:15	3:38	0	0	9	UVT=38 B=107 MN=	
	60% CALUV 99		α , " , δ , , R , ,		SWP 24467 1+5		-1.68 0.08 10.2			13:54:24	1:49	0	0	5	UVT=35 B=62 MN=	
	100% TFLOOD		α , " , δ , , R , ,		SWP 24468 1+6		-1.53 0.08 10.2			14:18:46	0:16	0	0	9	TFLOOD B=149 MN=	
	160% CALUV		α , " , δ , , R , ,		SWP 24469 1+7		-1.00 0.08 10.5			14:49:24	4:51	0	0	9	B=132 MN=	

OBSERVATORY 1121

DATE D 13 M NOV Y 86 RAW TAPE D 13 M NOV

P2

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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHIAL	NULL		α , " , δ , , R , ,		SWP 24470 1 + 8					15:09:00		0	0	1	Second Read B=28 MN=	HASSALL/BH
	NULL 99		α , " , δ , , R , ,		SWP 24471 1 + 9					15:30:00		0	0	4	High Gain Read B=54 MN=	
	Null 99		α , " , δ , , R , ,		SWP 24472 1 + 10					15:50:00		0	0	0	Low Gain Read. B=17 MN=	
GITOO	NOV VUL 55	Nov 9.7	α 19, 24, 03.4 δ 27, 15, 52 R 119, 17, 09.5	L	SWP 24473 1 + 2*	540 2 F/O	-0.66 0.08 108	L	O	16:21:10	10:00	3	6	0	(1621, 155) gds B=16 4 pixel C=71 E=255 MN=	HASSALL/BH NB. Second Archive tape started
	"	"	α , " , δ , , R , ,	L	LWP 4797 1 + 1*	504 3 F/O	-1.81 0.08 10.5	L S	O	17:31:03 17:46:44	4:00 2:00	5 3	7 4	2 2	B=36 E=255, C=200 (14 14, 297) gds (15 63, 316) gds. E=123 C=60 MN=	after system reset (Crash ~16:35)
	"	"	α , " , δ , , R , ,	H	LWP 4798 1 + 3*	546 - F/O	-2.56 0.08 10.8	L	O	18:24:12	23:00	3	4	1	(1416, 306) B=33 E=114 C=~50 MN=	
			α , " , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

DATE D 14 M NOV Y 86 RAW TAPE D 14 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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC243	YY GEM 48	M4SeV 9.1	α 07, 31, 26.0 δ +31, 58, 50.0 R 267, 11, 2.2	L	LWP 4804 1 + 1	1212 — FO	0.95 0.38 11.2	L	O	11:11:49	8:00	3	5	2	(-34, -208) KP E=184 B=89 C=70 MN=	RODONO/BH
	HD32977 30	A3 5.3	α 05, 04, 50.7 δ +20, 21, 15.0 R 270, 13, 55.0	H	LWP 4805 1 + 2	1977 46 FO	-0.66 0.38 11.2	L	O	12:21:29	20:00	6	0	3	B=42 C=255 MN=	
	YY GEM 48	M4SeV 9.1	α 07, 31, 26.0 δ +31, 58, 50.0 R 267, 17, 17.3	L	SWP 24479 1 + 4	1167 — FO	-0.95 0.10 10.5	L	O	13:43:35	85:00	3	4	1	(87, 518) 356 FO. E=121 C=50 B=23 MN=	
	"	"	α , " , δ , , R , ,	L	LWP 4806 1 + 3	1132 — FO	-1.72 0.10 10.2	L	O	15:11:55	10:00	3	5	2	E=225, C=80 (-108, 666) B=35 15:24 114 FO	
	"	"	α , " , δ , , R , ,	L	LWP 4807 1 + 5	864 — FO	-2.30 0.16 10.2	L	O	16:04:56	10:00	3	5	1	(-108, 665) E=205 C=~58 B=27 MN=	10 pixel in particle event.
	"	"	α , " , δ , , R , ,	L	SWP 24480 1 + 7	1061 — FO	-2.30 0.08 10.2	L	O	16:44.36	90:00	3	3	0	(92, 523) C=~56 676. B=24 MN=	
	"	"	α , " , δ , , R , ,	E	FES 1595 1 + 6					17:58:00	160:00				2016. Field for H/O. MN=	
	"	"	α , " , δ , , R , ,	L	LWP 4808 1 + 8	1200 — FO	-1.42 0.08 9.8	L		18:19:52	10:00	2	5	2	(-107, 665) 268 FO E=228 C=60 B=32 MN=	

OBSERVATION LOG

DATE D 14 M NOV Y 84 — NEW TAPE D 14 M NOV

p2.

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	OBSERV
G-C243	YY GEM 48	14.5el 9.1	α 07, 31, 26.0 δ +31, 52, 50.0 R 267, 17, 17.3	L	SWP 24481 1+	1218 / FO	-1.05 0.08 10.5	L	O	18:55:24	90:00	3	4	2	Image Read at Goddard. (91,502) 3&4 FD MN=	2000
			α , , 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 15 M NOV Y 84 — NEW TAPE D 15 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	NULL 99		α 00, 00, 00 δ 00, 00, 00 R , ,		LWP 4816 1+1	/	0.08 8.5			11:55:30	—				high gain read MN=	CASSATELLI
"	60% CALUV	"	α , , δ , , R , ,		LWP 4817 1+2	/	-1.61 0.08 8.8			12:31:57	2:04				UVC = 38 MN=	
"	20% CALUV		α , , δ , , R , ,		LWP 4818 1+3	/	-1.89 .38 9.2			13:06:51	0:41				UVC = 36 MN=	
"	120% CALUV		α , , δ , , R , ,		LWP 4819 1+3	/	-2.5 .08 9.8			13:48:03	4:08				UVC = 42 MN=	
"	60% CALUV		α , , δ , , R , ,		LWP 4820 1+4		-2.43 0.08 9.8			15:51:17	2:04				UVC = 39 MN=	
"	100% TP1000		α , , δ , , R , ,		LWP 4821 1+5		-1.87 0.08 10.2			16:32:23	1:40				MN=	
"	NULL		α , , δ , , R , ,		LWP 4822 1+7		0.08 10.5			18:47:09					MN=	
—	NGC 3132 70	PR.Neb 10.	α 10, 04, 55.1 δ -40, 11, 29 R 262, 14, 52.8	H	SWP 24487 1+6	351 31 FO	-1.44 0.08 9.5	L	O	11:47:45	400:00	3	5	2	SEED NDICITY 906 -319, -419 448 (50) MN=	

EXPOSURE LOG

DATE: D 16 M NOV Y 84 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	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	OBSERV
GE136	E.462-IG204 &	14.9	α 20, 23, 53.0 δ -29, 17, 02 R 44, 43, 37.4	L	SWP 24490 1+1	26 0 SO	-3.36 0.32 10.2	L	O	120353	403:00	3	3	3	GDE(88, 149) 192 CTS (FO) C=100 E=113 B=60 MN=	OLOFSSON 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=	

EXPOSURE LOG

DATE: D 17 M NOV Y 84 RAW TAPE: D 17 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 THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GE125	SEARLE S 72	HI Rig	α 14, 01, 8.8 δ +54, 36, 49 R 201, 36, 18.4	L	SWP 24494 1+2	b.o.	-1.53 0.08 9.5	L	O	115925	408:00	3	0	3	GDE(461, 474) 114 SO C(1900)≈110 C(1300)≈100 B≈53 MN=	BENVENUTI CANZ AC
"	"		α , , δ , , R , ,		FES 1598 1+1										SKb. Target: α SKLA MN=	
			α , , 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 NOV Y 84 NOW 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 HKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERV
GE125	SEARLES 72	HII Reg 15	α 14, 01, 8.8 δ +54, 36, 49 R 202, 31, 46.0	L	LWP 4835 1 + 1	b.o.	-1.87 0.3 10.8	L	O	115945	408:00	3	0	7	GDE(255,-492)96(50) c=180 0=95 MN=	BENVENUTI, SANZ AR
			α , , 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=	

DATE: D 19 M NOV Y 84 NOW TAPE: D 19 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 HKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERV
GE109	NGC 604 72	HII 14.0	α 1, 31, 42.9 δ 30, 31, 41.6 R 50, 0, 0	L	SWP 24508 1 + 1	B.O.	-2.95 .12 11.5	L	O	12:15:48	90:00	3	3	0	Gde 196,163,480 (1) (2) (3) MN=	SANZ + BENVENUTI RA
"	"	15.5	α 1, 31, 43.8 δ 30, 31, 41.1 R 50, 0, 0	L	SWP 24509 1+3	B.O.	-2.96 .08 11.8	L	O	14:14:16	260:00	4	3	2	Gde 201, 117, 188 FO MN=	
			α , , δ , , R , ,		FES 15999 1 + 2					17:00					MN=	
			α , , 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 USE

DATE: D 20 M Nov Y 84 — RAW TAPE: D 20 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. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERV
GI 082	SK-7036 59	B1-2I 13.2	α 5.1 .38.7 δ -70, 38, 8.5 R 198, 35, 58.8	L	SWP 24516 1+1	69 50	-1.71 .08 7.2	L	O	12:15:45	60:00	4	3	0	C ~150 / gross E ~110? L.B. ~20 MN=	BIANCHI / RG
	4	4	α , , δ , 4 , R , ,	L	LWP 4848 1+2	82 25* 50	-2.29 .08 7.2	L	O	13:22:54	60:00	6	1	2	* star close by. fuse pix sat loc. c. 34 MN=	
	WO 564 59	09 V 14.4	α 5.2 .46.5 δ -66, 30, 37.4 R 198, 45, 40.5	L	SWP 24517 1+3	30 s/o B.O.	-1.50 .08 7.5	L	O	15:00:29	55:00	4	1	0	loc.b. ~20 C ~140 MN=	
	11	11	α , , δ , 11 , R , ,	L	LWP 4849 1+4	B.O.	-1.28 .08 8.2	L	O	16:00:35	80:00	5	1	1	Gde ~161, -312 C ~200 185 s/o loc bg ~40 MN=	
	HV 5542 59	B ϕ 14.8	α 5.1 .4.91 δ -70.9 .32 R 198, 13, 46.5	L	SWP 24518 1+5	24 50	-.62 .08 8.2	L	O	17:51:12	54:00	3	0	0	Gde -881, 492 269 FO C ~90 loc bg ~20 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY USE

DATE: D 21 M Nov Y 84 — 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/f.s	FOCUS BKG THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERV
GI 082	HD 21790 22	B8 4.72	α 3 ,28 ,8 δ -5 , 14 , 43 R 169 , 57 , 52.5	H	LWP 4856 1+1	339 72 #4	-3.14 1.80 10.2	L	O	11:57:46	8:00	7	0	1	MN=	Bianchi / RG
	11	11	α , , δ , , R , ,	H	SWP 24525 1+	27204 123 FO	-3.14 1.52 10.5	L	O	12:12:29	9:00	7	0	0	MN=	
	HV 5542 59	B ϕ 14.8	α 5.1 .4.91 δ -70. 9 , 32 R 197 23 , 43.9	L	LWP 4857 1+	B.O.	-3.67 1.28 10.2	L	O	13:46:30	85:00	5	0	2	Gde ~686, 604, 100 FO loc.b ~60 C ~210 MN=	
	LMC X-1 59	08-9 III 14.5	α 5 , 40 , 6.7 (5:5) δ -69 , 46 , 2 (4) R 206 , 25 , 9.1	L	SWP 24526 1+	"B.O."	-2.14 9.5 0.20	L	O	15:38:42	189:00	3	0	1	* 100 arc of R148 (6" away). In (:) the LMC-X ones called at 112, -115 (2" from gesture) Gde at -477, 704 C ~130 631 FO loc bg ~60 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 84 — NEW TAPE D 22 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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERV
GI082	SK 7036 59	B1 I 13.2	α 05,01,38.66 δ -70,38,08.5 R 196,35,41.5	L	LWP 4869 1-1	73.8 28 S10	-2.59 .4 10.8	L	0	12;08;35	50:00	5	0	4	MN=.	BIANCHI CLAVEL
"	"	"	α , , δ , " , R , ,	L	SWP 24537 1+2		-1.96 .1 9.8	L	0	13;07;03	65:00	4	0	1	MN=	"
GI074	LMC X-1 59	O9 III 14.5	α 05,40,05.5 δ -69,46,03.5 R 205,26,53.0	L	LWP 4870 1+3		-2.03 .08 10.2	L	0	14:46:51	120:00	4	0	4	max On: 128 Mcts alt N 2800ft MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 24538 1+4		-2.25 .08 10,2	L	0	16;53;55	113:00	3	0	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 23 M NOV Y 84 — NEW TAPE D 23 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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	HD 3360 20	B2 IV 3.7	α 0,34,10 δ 53,37,20 R 68,56,11	L L	SWP 24545 1+3	896 5 F.4.	-2.30 .08 9.8	L	0	11/55/09	.9390 sec	5 2	0 0	0 0	Rate 21.30 I=1 rejected. C=180 B=32 MN=	WAMSTEKER WW.
"	"	"	α , , δ " , " , R , ,	L	LWP 4878 1+1	896 F.4	-2.31 .08 10.8	L	0	12/05/15	.9601 sec	5	0	0	Rate 20.83 I=1 rejected C=180 B=38 MN=	"
"	"	"	α , , δ " , " , R , ,	L	LWP 4879 1+2	893 F.4.	-1.96 .08 10.8	L	0	12/39/14	3.3333 sec	8	0	0	Rate 6.0 I=1 rejected C 3X B=43 MN=	"
"	HD 34816 20	B0.5 IV 4.3	α 5,17,16 δ -13,13,37 R 211,20,59	L L	SWP 24546 1+5	624 F.4	-2.40 .08 9.8	L S	0	14/13/49	0.8008 sec	5 3	0 0	0 0	Rate 25.0 I=1 C=180 B=13 MN=	"
"	"	"	α , , δ " , " , R , ,	L	LWP 4880 1+4	624 F.4	-2.84 .08 10.2			14/22/17	1.1039 sec	5	0	0	Rate 18.02 I=1 rejected. C=180 B=39 MN=	"
"	"	"	α , , δ " , " , R , ,	L	LWP 4881 1+6	624 F.4.	-2.88 .08 10.5	L	0	14/58/53	3.8462 sec	8	0	0	Rate 5.2 C=XXX B= MN=	"
GI074	LMCX-1		α 5,40,05 δ -69,46,04 R 204,23,49	L	SWP 24547 1+7	B/0	-3.37 .08 9.8	L	0	15/48/22	120/0	3	1	1	Cnt 90 B=34 MN=	Bianchi
			α , , δ , , R , ,		LWP 4882 1+8	B/0	-1.40 .08 9.8			17/54/52	53/0	3	1	1	C 110 B 45 MN=	"

OBSERVATORY LICK

DATE: D 24 M Nov 84 RAW TAPE: D 24 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. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERV
gI082	HD 21790 22	B8 4.72	α 3, 28, 8 δ −5, 14, 43 R 163, 47, 40	H	SWP 24553 1+1	315 52 F.4	−1.76 .08 11.2	L	0	12/08/32	5/30	5	0	0	C = 200 B = 37 MN=	BIANCHI WW
"	"	"	α , , δ , , R , ,	H	LWP 4884 1+2	313 45 F.4	−1.44 .08 10.2	L	0	12/18/17	5/30	7	0	1	C = 2K D = 54 MN=	" "
"	IE 05 43-8 −6823 59	09 16.8	α 5, 43, 49 δ −68, 23, 36 R 204 15, 31	L	SWP 24554 1+3	B/O	−2.49 .08 10.2	L	0	14/35/59	251/0	3	1	1	C = 70 B = 33 MN=	" "
			α , , 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 LICK

DATE: D 25 M Nov 84 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/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERV
gE073	M33 B38 13	0 17.0	α 1, 30, 11.7 δ 30, 19, 42.2 R 83, 24, 9.0	L	SWP 24561 1+	B/O	−2.50 .23 10.2			11/04/17 18/15/11	440/0 440/0 Total =1595m	3	0	9	MN=	Bianchi WW
			α , , δ , , R , ,	L	LWP 4891 1+	B/O	−2.55 .08 9.8			11/26/53	440/0 Total =880m	1	0	9	MN=	" "
			α , , δ , , R , ,	E	FES 1601 1+1			2		11/37/00	160/0				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=	

DATE D 26 M Nov Y 84 NOW 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 undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSRTV
GE073	M31-CFHT3 13	OI 17.5	α 0 ,37 ,49.5 δ 40 , 28 , 42.6 R82 , 25 , 47.2	L	LWP 4892 1+	B.O.	-3.17 .71 8.5	L	O	10:30:12 17:56:17	440:00 440:00 Total =975m	4	0	9	started at GSFC (-1.07, .08, 10.2) trend at GSFC MN=	Biancdw / Rb
			α , , δ , , R , ,	L	SWP 24564 1+	B.O.	-3.17 .31 9.2	L	O	10:34:56 17:57:32	440:00 440:00 Total = 970m	3	1	9	started at GSFC trend at GSFC (-1.02, .08, 9.8) MN=	SERENDIPITY
			α , , δ , , R , ,	D	FES 1603 1+1					17:40	20:0				old Cde -364, 457, 56 s/o new Cde 272, -880, 94 s/o MN=	
			α , , 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 27 M 11 Y 84 NOW TAPE D 27 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.	EM. LINES	BACKG.	COMMENTS	OBSRTV
GA 146	HD 193237 23	B1 Ia 4.9	α 20 , 15 , 56.5 δ 37 , 52 , 36 R124, 33 , 1.5	L	SWP 24570 1+1	24861 91 FO	-2.40 0.08 9.5	L	O	115219	0:18	5	0	0	C = 174 B = 20 MN=	Cassatella / AWH.
"	"		α , , δ , , R , ,	H	LWP 4893 1+2	24674 59 FO	-2.40 0.08 8.5	L	O	115844	5:00	5	6	1	MN=	"
"	"		α , , δ , , R , ,	H	SWP 24571 1+3	24922 89 FO	-2.31 0.08 9.5	L	O	123022	28:00	5	6	1	MN=	"
			α , , δ , , R , ,	L	LWP 4894 1+4	24475 66 F/O	-2.6 0.08 9.2	L S	O	13:03:51 13:08:20	0:04 0:20	5 7	0 0	3	C_L = 230 B = 33 C_S = sat. MN=	"
PHCAL	HD 3360 20	B2IV 3.7	α 0 , 34 , 10.3 δ 53 , 37 , 20 R73 , 43 , 29	L	SWP 24572 1+7	867 F/U	-2.6 0.08 9.8	L	O	14:06:16	0:0.94	4	0	0	R = 21.3 C = 160 I = 1 B = 16 MN=	AWH / AWH
"	"	"	α " , " , " δ " , " , " R " , " , "	L	LWP 4895 1+5	843 F/U	-2.2 0.08 9.5	L	O	14:42:13	0:0.96	5	0	3	R = 20.83 I = 1 B = 36 C = 200 MN=	"
GC250	HD 59643 50	C6 7.8	α 7 , 28 , 52.6 δ 24 , 36 , 37 R264, 02 , 18	H	LWP 4896 1+	2110 7 F/O	-1.9 0.08 9.5	L	O	15:56:47	440:00 Total = 480:00	5	7	9	Read at GSFC. MN=	Querci / AWH.
"	"	"	α " , " , " δ " , " , " R " , " , "		FES 1604 1+6					15:50.					Field for LWP 4896 MN=	"

DAY/M | D 28 | M NOV | Y 84 | HAW TIME | D 28 | 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.	FM. LINES	BACKG.	COMMENTS	OBSERV
GΦ 186	3C 382	gal.	α 18 ; 33 ; 11.9		LWP		-2.7								GDE X = -945	
	86	15.0	δ 32 ; 39 ; 18	L	4900	B.O.	0.08	L	0	11:58:57	130:00	4	1	3	Y = 948	Tadhunter
			R 144 , 00 ; 33		1+1		8.2								cts = 583 F/O	
															MN=	/AWH
"	"	"	α " , " , "		SWP	"	-2.2								GDE X = -747	
	"	"	δ " , " , "	L	24577		0.08	L	0	14:20:27	267:00	3	4	3	Y = 811	"
			R " , " , "		1+2		8.5								OFF = 140 DN GROSS	
															Ly α = 160 DN GROSS	
															C = 100, B = 34 MN=	
			α , ,													
			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=	

DAY/M | D 29 | M Nov. | Y 84 | HAW TIME | D 29 | 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.	FM. LINES	BACKG.	COMMENTS	OBSERV
	GΦ COMAE	QSO	α 12 , 02, 08.9		LWP		-1.9								GDE X = -383 *	
CMGMS			δ 28 , 10 , 53	L	4904	B.O.	0.08	L	0	11:51:42	150:00	3	1	3	Y = 91	TADHUNTER
	85	15.5	R 238, 44, 54		1+1		8.8								cts = 353 9/0 C=100 (GROSS)	
															MN= B=50 E=1	/AWH
"	" "	"	α " , " , "		SWP		-1.3								GDE X = -186	
	"	"	δ " , " , "	L	24580	B.O	0.08	L	0	14:29:39	257:00	3	4	2	Y = -50	"
			R " , " , "		1+2		9.2								E = 147 (Ly α) C = 81	
															163 (CIV) MN= B = 41	
			α , ,													
(N.B.	These	observation	δ , , performed		for GSFC		under			shift		- swap			arrangement. GSFC	
			R , ,		1+										MN=	
	observed	for	α												* N.B. initial gde.	
			δ ESA	prog.	GΦ 186	on	Nov 29,			NASA	1)				position for LWP 4904	
			R , ,		1+										was found to be X = -391, Y = 110.	
															This was corrected to X = -383, Y = 91	
															by means of FESCALCM at 12:17 GMT.	
			α , ,												(Problem due to S/C drifts during	
			δ , ,												search for guide star).	
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

DATE D 30 M NOV Y 84 RAW DATE D 30 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.o	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GI224	3A 0729+103 52	N.A. 14.5	α 07,28,44.43 δ+10,02,47.3 R 249,27,23	L	SWP 24586 1+1	16 B.a 0/S	-2.40 .08 10.2	L	0	11:53:09	40:00	2	3	1	29 max DN Net at CIV 1550 17 Net DN cont at 1900 Å MN=	TANZI CLAVEL
	//	//	α , , δ , // , R , ,	L	LWP 4905 1+2		-2.93 .08 9.2	L	0	12:43:19	4:0:00	3	3	3	44 DN max above BKG from 2500 to 2850 Å MN=	
	//	//	α , , δ , // , R , ,	L	SWP 24587 1+3		-2.15 .08 10.2	L	0	13:36:50	120:00	3	3	2	-90 DN Net at CIV 1550 -49 DN Net continuum at 1900 Å MN=	
			α , , δ , , R , ,		1+										SATAN Antenna failure at 15:42. Last Image read through READMON proc. MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE D 1 DEC M Y 84 RAW DATE D 1 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.o	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GE038	BSO 234 88	Em. line galaxy 17.4	α 13,00,42.5 δ+36,07,34 R 228,59,29.6	L	SWP 24594 1+.	B.O.	-1.6 .2 12.8	L	0	10:08:59	>8hrs TOTAL =840:0	5	5	9	Image read at GSFC MN=	O'BRIEN/ CLAVEL
	//	//	α , , δ , // , R , ,	E	FES 1608 1+1	B.O.	//	2		09:47:00	40:00				FES image for SWP24594 MN=	
			α , , 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 DEC Y 84 RAW TAPE H 2 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	OBSERV
GC169	HD 111812 45	G0 5.0	α 12, 49, 15.9 δ 27, 48, 44 R 233, 14, 32	H	SWP 24597 1+	21708 F/0	-2.37 0.08 13.8 (w at 15:51)	L	O	08:30:10 (at GSFC) 15:51:48	440:0 440:0 Total = 825:0	7	7	9	Exposure started and read at GSFC MN=	YUIN / 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 3 Dec 84 RAW TAPE 3 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	OBSERV
GC 025	HD 10700 44	G8V 3.5	α 01, 41, 45 δ -16, 12, 00 R 130, 25, 29	H	LWP 4912 1+1	839 122 F.U	-1.78 1.20 10.8	L	O	09/45/37	20/0	7	4	1	MN=	Beckman / cruvellan / WW.
"	HD 209100 46	K4-5 V 4.7	α 21, 59, 48 δ -57, 01, 11 R 94, 47, 14	H	LWP 4913 1+2	27605 93 F.0	-2.56 .08 10.8	L	O	11/22/11	60/0	4	6	1	MN=	" "
"	HD 1581 44	G2V 4.2	α 00.17.38 δ -65, 9, 25 R 121.19, 22	H	LWP 4914 1+3	433 115 F.U	-2.95 .08 11.2	L	O	13/15/55	24/0	7	2	1	MN=	" "
"	HD 2151 44	G2IV 2.8	α 00, 23, 09 δ -77 32, 8 R 120, 3, 27	H	LWP 4915 1+4	1564 237 F.U.	-2.41 .08 11.5	L	O	14/28/30	8/0	7	3	2	MN=	" "
"	HD 209100 46	K4-5 V 4.7	α 21, 59, 48 δ -57, 1, 11 R 94, 41, 12	H	LWP 4916 1+5	26809 82 F.0	-1.90 .08 11.5	L	O	15/15/47	60/0	4	6	1	MN=	" "
"	"	"	α , , δ " , " , " R , ,	L	SWP 24604 1+6	26808 66 F.0	-1.38 .08 10.8	L	O	16/24/04	22/41	0	3	0	Ly α @ 500M. MN=	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY USE

DATE D 4 M Dec Y 84 RAW TAPE D 4 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GQ113	PKS 2128-12 85	QSO 1.60	α 21, 28, 52.6 δ -12, 20, 22 R 109, 17, 01	L	SWP 24611 1+ 1	B/0	-2.10 .90 11.2	L	0	10/03/17	404/0	3	6	3	C(1600) = 110 Bg = 82 Lyα = 255 (2 pix) MN=	Bergeron 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 USE

DATE D 05 M Dec Y 84 RAW TAPE D 05 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GQ114	PKS 2145+06 85	QSO 1.65	α 21, 45, 36 δ 6, 43, 41 R 114, 27, 12	L	LWP 4922 1+ 1	B/0	-2.08 .08 11.2	L	0	09/38/60	429/0	3	3	5	Lyα = 155 Bg = 97 Cor -142 MN=	Bergeron 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=	

D M Y — 6 dec 84 — RAW TAPE: D M — 6 dec

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. alot undov/f.s	FOCUS BRG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC243	UV CETI 48	dM5e 12.5	α 1,36,25.0 δ -18,12,42 R 128,52,7.2	L	LWP 4926 1+1	99 FO	-2.2 1.9 10.5	L	O	08:43:11 09 15:59	10min 10:00	1	3	3	ref pt: +5,-208 -34,-208 n_{yD}=101 B=66	BYRNE/CG
"	YZ CMi 48	dM4.5e 11.2	α 7,42,04.0 δ +03,40,48 R 241,44,14.2	L	SWP 24620 1+2	161 1 FO	-2.15 .20 9.8	L	O	10:41:43 11:09:10	20:00 20:00	1	1	1	ref pt(+2,-208) guide(-641,768) ref pt(-34,-208) guide(-675,768)	"
"	"	"	α , , δ , " , R , ,	L	LWP 4927 1+3	160 FO	-1.97 .08 9.8	L	O	11:33:11 12:02:25	10:00 15:00	1	4	2	ref pt(-34,-208) guide(-876,909 ref pt(+2,-208) guide(-840,909)	" n_{yD}=144 B=38
"	"	"	α , , δ , " , R , ,	L	SWP 24621 1+4	"	-2.44 .08 10.2	L	O	12:24:25 12:50:01	20:00 20:00	1	1	1	ref pt(+2,-208) guide(-640,765) ref pt(-34,-208) guide(-675,767)	"
"	"	"	α , , δ , " , R , ,	L	LWP 4928 1+5	"	-1.92 .08 10.2	L	O	13:21:55 13:41:33	10:00 15:00	2	4	2	ref pt(-34,-208) guide(-873,910) ref pt(+2,-208) guide(-840,909) MN=	" n_{yII}=145 B=40
"	HD36395 48	M0 8.0	α 05,28,55.3 δ -03,41,04 R 198,55,0.7	L	LWP 4929 1+6	2222 6 FO	-1.58 .08 10.2	L	O	15:03:00	15:00	3	5	3	guide(+117,940) n_{yII}=1 p>sat c=65 B=36 MN=	"
"	UV CETI 48	dM5e 12.0	α 01,36,25.0 δ -18,12,42.0 R 128,33,20.1	L	SWP 24622 1+7	393 1 SO	-1.21 .28 9.5	L	O	16:33:34	14:00	1	1	1	guide(+156,1383) ct=258 MN=	"
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY ROE — 1 of 2 — DATE: D 7, M Dec, Y 84 — RAW TAPE: D 7, 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. alot undov/f.s	FOCUS BRG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC 243	GL 118.2 46	K2 7.6	α 2,52,41.1 δ 26,40,27 R 88,18,56.0	L	LWP 4933 1+1	2832 11 FO	-2.14 .78 8.5	L	O	09:27:25	10:00	5	0	1	C=200 @ 1900A B=35 MN=	BYRNE AT
			α , , δ , , R , ,	L	SWP 24629 1+2	2891 13 FO	-1.78 .46 8.5	L	O	10:00:43	30:00	1	1	0	MN=	
	EQ PEG 48	dM4e 10.0	α 23,29,20.0 δ 19,39,42 R 109,4,39.1	L	LWP 4934 1+3	363 2 FO	-.82 .08 8.2	L	O	11:43:45 11:57:20	10:00 10:00	2	3	1	RP(+2,-208) RP(-34,-208)	Em. n_{yD} ~ 118 B ~ 40
			α , , δ , , R , ,	L	SWP 24630 1+4	366 2 FO	-1.61 .08 8.2	L	O	12:13:10 12:38:07	20:00 20:00	1 1	3	0 0	MN= RP(2,-208) RP(-34,-208)	Em Ly α ~ 100 DN
			α , , δ , , R , ,	L	LWP 4935 1+5	354 2 FO	-1.52 .08 8.2	L	O	13:14:58 13:34:53	10:00 15:00	2	3	1	MN= RP(2,-208) RP(-34,-208)	Em n_{yII} ~ 146 B = 38
			α , , δ , , R , ,	L	SWP 24631 1+6	355 2 FO	-2.23 .08 8.5	L	O	13:57:31 14:22:31	20:00 20:00	1	3	1	MN= RP(2,-208) RP(-34,-208)	Em Ly α ~ 86 DN
			α , , δ , , R , ,	L	LWP 4936 1+7	357 2 FO	-2.15 .08 8.5	L	O	14:49:40 15:09:30	10:00 15:00	2	3	1	MN= RP(2,-208) RP(-34,-208)	Em n_{yII} ~ 139
			α , , δ , , R , ,	L	SWP 24632 1+8	364 2 FO	-1.99 .08 8.5	L	O	15:33:20 15:58:21	20:00 20:00	1	3	0	MN= RP(1,-208) RP(-34,-208) MN=	Em Ly α ~ 79

OBSERVATION LOG

DATE D 7 M DEC Y 84 — NEW 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 BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC 243	EQ PEG 48	dM4e 10.0	α 23,29,20.0 δ 19,39,42 R 109, 4, 39.1	L	LWP 4937 1+	361 2 Fo	-1.55 .08 8.5	L	0	16:25:51	10:00	2	3	1	RP(2,-208) EDT mgH=111 B=35 MN=.	BYRNE AT
			α , , 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=	

OBSERVATION LOG

DATE D 8 M dec Y 84 — NEW 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. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GQ 114	PKS 2145 85	QSO 16.5	α 21,45,36.1 δ +06,43,40.7 R 115,30,01.9	L	LWP 4944 1+1	BO	-3.02 .80 8.5	L	0	09:52:04	415.00	4	5	6	guide {-287 1115 805 Fo ε=224 B=103 εyd=223 MN=72	BERGERON /CG
			α , , 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=	

DATE D 9 M dec Y 84 RAW TAPE D 9 M dec

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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	BD+33°2642 20	B2IV 10.8	α 15,50,01.9 δ 33,05,28 R199,54,2.4	L	LWP 4947 1+1	161 0 FO	-3.60 .60 10.5	L	O	09:40:46	3:10	5	03		B=32 C=237 MN=	GRY/CG
"	"	"	α , , δ , " , R , ,	L	SWP 24647 1+2	164 1 FO	-3.32 .42 10.8	L	O	10:05:57	4:00	5	0	1	B=18 C=198 MN=	"
"	HD34816 20	B0.5II 4.3	α 05,17,16.2 δ -13,13,37 R185,17,52.2	L	LWP 4948 1+3	565 FU	-2.54 .08 10.8	L	O	11:32:58	0:1.11	5	0	3	Traie R=18.02 I=1 B=33 C=209 MN=	"
"	"	"	α , , δ , " , R , ,	L	LWP 4949 1+4	583 FU	-1.00 .08 11.2	L	O	12:12:42	0:1.11	5	0	3	Traie R=18.02 I=1 B=35 C=208 MN=	"
"	"	"	α , , δ , " , R , ,	L	LWP 4950 1+5	626 FU	-2.57 .08 11.2	L	O	12:45:38	0:3.33	7	0	4	Traie R=6.0 I=1 MN=	"
"	"	"	α , , δ , " , R , ,	L	LWP 4951 1+8	583 FU	.05 .08 11.2	L	O	13:19:53	0:333	7	0	4	Traie R=6.0 I=1 MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 24648 1+6	551 FU	.05 .08 10.3	L	O	13:28:51	0:0.31	5	0	0	Traie R=22.0 I=1 B=15 C=223 MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 24649 1+7	535 FU	-.42 .08 11.5	L	O	14:06:27	0:.31	5	0	0	Traie R=22.0 I=1 75% image missing (signal very low) (3073MF) playback performed → image worse - not processed	"

DATE D 9 M dec Y 84 RAW TAPE D 9 M dec

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. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	BD+75°325 16	sdO 9.54	α 8,4,43 δ 75,6,48 R309,3,19.3	L	SWP 24650 1+11	548 1 FO	-2.78 .08 12.5	L	O	15:28:00	0:.14	5	0	0	B=18 C=201 MN=	GRY/CG
"	"	"	α , , δ , " , R , ,	L	LWP 4952 1+9	537 0 FO	-2.17 .08 12.2	L	O	15:31:43	0:.20	5	0	3	B=34 C=220 MN=	"
"	"	"	α , , δ , " , R , ,	L	LWP 4953 1+10	612 FO	-2.60 .16 11.8	L	O	16:02:47	1.40	5	0	3	Traie R=0.2 I=1 B=24 C=232 MN=	"
"	"	"	α , , δ , " , R , ,	L	SWP 24651 1+12	605 1 FO	-2.70 .08 11.5	L	O	16:43:19	0:.14	5	0	0	B=18 C=201 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 dec Y 84 RAW TAPE D 10 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GI007	V1016CYG	Symbiotic	α 19,55,20.0	L	SWP 24655	166	-3.10	L		09:58:36	6:30	2	7	0	guide (LA) -189 1175 -1141 FO	DEUEL
	57	10.9	δ 39,41,39		1+1	0	.08	S	O	10:11:17	8:00	1	3		B.10 e. 64 (Sm-p)	/CG
			R 140,11,34.3			FO	9.5									
"	"	"	α , ,	L	LWP 4959	168	-2.58	L	O	10:18:03	25:00	5	7	3	guide -390 1318 -1038 FO	"
			δ , ,		1+8	2	.08								B=38	
			R , ,			FO	10.2									
"	"	"	α , ,	L	SWP 24656	167	-2.60	L	O	10:50:34	25:00	3	7	0	guide -190 1175 -1118 FO	"
			δ , ,		1+3	1	.08								C=75, B=20	
			R , ,			FO	9.8									
"	"	"	α , ,	L	LWP 4960	179	-1.80	L	O	11:22:30	1:40	2	5	2	obj I : 34, B=32 obj II : 208, B=33	"
			δ , ,		1+4	1	.08									
			R , ,			FO	10.2									
"	"	"	α , ,	H	SWP 24657	169	-1.64	L	O	11:54:16	15:00	1	4	1	guide -190 1177 -1175 FO	"
			δ , ,		1+5	1	.08								C = 162 B = 22	
			R , ,			FO	10.2									
"	"	"	α , ,	H	LWP 4961	177	-1.49	L	O	12:26:57	130:00	3	7	5	guide -351 1321 -304 FO	"
			δ , ,		1+6	0	.08									
			R , ,			FO	10.2									
"	"	"	α , ,	H	SWP 24658	171	-1.42	L	O	15:43:04	60:00	1	6	1	guide -193 1180 -1240 FO	"
			δ , ,		1+7	1	.08								NB 103 B=15	
			R , ,			FO	9.8									
			α , ,													
			δ , ,													
			R , ,		1+											

DATE D 11 M dec Y 84 RAW TAPE D 11 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GI013	HBV 475	Symbiotic	α 20,49,02.6	L	SWP 24662	116	-2.83	L	O	09:56:27	65:00	2	4	1	guide -278 131 -195 FO	SCHMUTZ
	57	12.9	δ 35,23,37		1+1	3	.38								E=162, B=80	/CG
			R 130,10,11.4			SO	8.5									
"	"	"	α , ,	L	LWP 4965	27	-2.48	L	O	11:03:35	40,00	3	4	3	guide -477 267 -126 FO	"
			δ , ,		1+2	0	.08								E=151, B=38 MN=	
			R , ,			FO	7.8									
"	"	"	α , ,	H	SWP 24663	119	-2.15	L	O	11:51:14	296:00	2	3	3	guide -278 131 -205 FO	"
			δ , ,		1+3	5	.08								E=118, B=60 MN=	
			R , ,			SO	9.2									
			α , FES at HO:			112.										
			δ , ,													
			R , ,		1+	SO									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 84 RAW TAPE D 12 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC171	HD 22468 53	GSV+KOSY 5.8	α 03,34,13.0 δ +0,26,00. R134,08,43.1	H	LWP 4973 1+1	11302 F/0	-4.21 0.4 10.5	L	O	08:56:04	35:00	3	6	3	Started at GSFC. C=120 MgII for fine sat. B=44 MN=	CATALANO/AWH
"	" "	" "	α " " δ " " R " "	H	SWP 24667 1+2	12316 F/0.	-2.0 0.08 9.8	L	O	10:17:45	342:00	3	6	3	Lyα for fine sat. CIV = 110 DN GROSS B=45 MN=	"
"	" "	" -	α " " δ " " R " "	H	LWP 4974 1+3	12530 34 F/0	-1.3 0.08 8.2	L	O	16:05:26	42:00	3	7	2	MgII fast sat. B=39 MN=	"
			α , , 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 13 DEC 84 RAW TAPE 13 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC171	HD 22468 53	GSV+KOSY 5.8	α 03,34,13.0 δ 00,26,00 R133,26,04.7	L	SWP 24673 1+1	11940 F/0.	-2.17 0.2 12.2	L	O	09:01:52	40:00	4	4	1	C=80 GROSS CIV = 170 B=21 MN=	CATALANO/AWH.
"	" "	" -	α " " δ " " R " "	H	LWP 4983 1+3	11839 F/0	-2.17 0.1 11.8	L	O	09:50:00	35:00	3	7	2	C=110 GROSS MgII fast sat. B=35 MN=	"
PHCAL	NULL 99		α , , δ , , R , ,		SWR 1180 1+2		12.5			10:15:00		0	0	4	SAFETY READ TFDC=17 MN=	AWH.
GC171	HD 22468 53	- -	α " " δ " " R " "	H	SWP 24674 1+	11849 63 F/0.	-2.85 0.08 11.8	H	O	10:49:41	420:00 = total	1	4	5	READ AT GSFC. MN=	CATALANO/AWH
"	" "	" "	α " " δ " " R " "		FES 1612 1+4					11:57:00					For SWP 24674 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATION LOG

DATE: D 14 M DEC Y 84 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 BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC171	HD22468 53	G5V+KOIV 5.8	α 03,34,13 δ 00,26,00 R 132,7.24	L	SWP 24683 1+1	12879 40 FO	-2.56 0.48 9.5	L	O	090435	40100	3	4	1	CIV 149 SiII 123 HeII 104 SiIV 60 B=20 CII 155 MN=	CATALANO AC
"	"	"	α , , δ , , R , ,	H	LWP 4894 1+2	12742 35 FO	-2.66 0.08 9.8	L	O	095010	20100	3	5	1	Mg 253, 119 B=36 C=95 MN=	
"	"	"	α , , δ , , R , ,	L	SWP 24684 1+3	12848 47 FO	-2.31 0.08 10.8	L	O	101858	40:00	3	4	1	CIV 168 CII 182 SiIV 55 HeII 96 B=20 SiII 118 MN=	
"	"	"	α , , δ , , R , ,	H	LWP 4895 1+4	12796 57 FO	-2.40 0.08 10.5	L	O	11 0402	20:00	3	5	1	Mg 240, 109 B=37 MN=	
"	"	"	α , , δ , , R , ,	L	SWP 24685 1+5	12664 40 FO	-2.75 0.08 11.5	L	O	113215	40:00	3	4	1	CIV 154 HeII 105 SiIV 50 CII 169 SiII 124 B=21 MN=	
			α , , δ , , R , ,	H	LWP 4896 1+6	12588 70 FO	-2.75 0.08 11.2	L	O	122025	20100	3	6	1	MgII 255(2), 109 B=32 MN=	
			α , , δ , , R , ,	L	SWP 24686 1+7	12356 83 FO	-3.18 0.08 11.5	L	O	13 0008	40:00	3	4	1	CII 156 SiIV 63 CIV 160 HeII 100 SiII 119 MN= B=20	
			α , , δ , , R , ,	H	LWP 4897 1+8	12930 24 FO	-3.18 0.08 10.8	L	O	13 4841	20:00	3	6	1	MgII 255(1pix), 104 B=33 MN=	

OBSERVATION LOG

DATE: D 14 M DEC Y 84 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 BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC171	HD22468 53	G5V+KOIV 5.8	α 3,34,13 δ 0,26,0 R 132,7,24	L	SWP 24687 1+9	12234 59 FO	-3.96 0.08 10.8	L	O	142542	100:00	3	6	1	NI 66 MN=	CATALANO AC
"	"	"	α , , δ , , R , ,	H	LWP 4898 1+10	12701 45 FO	-1.61 0.08 8.8	L	O	161129	20:00	3	6	1	MgII 255(1pix), 112 B=31 MN=	
			α , , δ , , R , ,	L	SWP 24688 1+.	12562 50 FO	-2.05 0.08 9.5	L	O	165540	40:00 = total	3	5	1	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 TAU

DATE D 15 M DEC Y 84 RAW DATE D 15 M DEC

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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GE 118	NGC 2798 80	GALAXY 13	α 9,14,9.7 δ 42,12,40 R 273,55,15.9	L	SWP 24699 1+1	BO	-3.0 .08 11.2	L	O	09:23:24	200:00	3	0	1	MAX. C = 78 B = 40 MN=	JOSEPH + WRIGHT AT
	"	"	α , , δ , " , R , ,	L	LWP 5011 1+2	BO	-2.48 .08 10.8	L	O	09:57:53	165:00	1	0	3	SERENDIPITY MN=	
	NGC 3256 80	GALAXY 12	α 10,25,.42 δ -43,38,.54 R 242,16,31.2	L	SWP 24700 1+4	BO	-2.32 .08 10.5	L	O	13:38:39	188:00	1	0	1	MN=	
	"	"	α , , δ , " , R , ,	L	LWP 5012 1+3	BO	-2.68 .08 10.2	L	O	14:06:42	143:00	1	0	2	SERENDIPITY MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY TAU

DATE D 16 M dec Y 84 RAW DATE D 16 M dec

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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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GQ205	NGC 4151 84	Sey 1 12	α 12,08,00.0 δ 39,40,56 R 246,44,18.8	L	SWP 24703 1+1	191 12 SO 192 S: 84 SO	-1.47 .08 11.2	L S	O	09:31:43 10:24:55	45:00 30:0	3 3	5 4	1 1	gde LAP 618, 1593 1940 FO SNAP 760, 1508 1165 FO c=84, B=39, E=208	SNIJDERS CG
"	"	"	α , , δ , " , R , ,	L	LWP 5014 1+2	194 19 SO	-1.56 .08 11.2	L	O	11:00:00	30:00	5	6	3	gde 417, 1740 1535 FO MULTI: 8 preset	"
"	"	"	α , , δ , " , R , ,	L	SWP 24704 1+3	187 SO	-1.57 .08 11,8	L	O	11:37:07	33:00	3	5	1	gde 618, 1591 MN=	
			α , , δ , , R , , FES cts at end 193		1+	SO									MN=	
GM190	HD 39060 31	A5II 3.9	α 05,46,05.9 δ -51,05,02 R 182,34,57.1	L	LWP 5015 1+4	770 FU	-1.96 .08 10.8	L	O	14:35:21	0:13.2	5	0	3	B=32 C=1 pix 255 MN=	GRAY CG.
"	"	"	α , , δ , " , R , ,	H	SWP 24705 1+5	766 233 FU	-1.96 .08 11.2	L	O	14:39:03	10:00	3	0	1	no guide (earth) → target only NSM = wide Ap. C=100 B=28 MN=	"
"	"	"	α , , δ , " , R , ,	H	LWP 5016 1+6	714 184 FU	-0.66 .08 11.2	L	O	15:21:31	4:50	6	0	3	gde 458 -430 414 FO MN=	"
"	"	"	α , , δ , " , R , ,	H	SWP 24706 1+7	892 176 FU	-0.64 .46 11.2	L	O	15:50:46	10:00	5	0	0	gde 658 -573 435 FO B=32 C=250 MN=	"

OBSERVATORY IUE

DATE D 16 M dec Y 84 RAW TAPE D 16 M dec

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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	OBSERV
GM190	HD59060 31	A5III 3.9	α 05,46,05.9 δ -51,05,02 R 182,34,57.1	H	LWP 5017 1+2	672 152 FU	-0.64 .08 11.2	L	O	16:25:18	4:00	6	0	3	gde 459 -431 356 FO 4 pix MN=	GRY /CG
			α , , 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=	
0502			α , , δ , , R , ,		1+										MN=	

OBSERVATORY IUE

DATE D 17 M DEC Y 84 RAW TAPE D 17 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GE 173	NGC 4697 81	10.2	α 12,46,00.0 δ -05,31,42 R 247,13,09.9	L	SWP 24709 1+1	226 69 50	-2.33 .08 10.8	L	O	09:41:33	424:00	2	0	3	C=90 B=70 MN=	BUSON AT
			α , , 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 Dec Y 84 RAW TAPE D 18 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 THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GE 173	NGC 4742 81	Ell.gal 12.5	α 12 , 49 , 11.6 δ −10 , 10 , 59 R268 , 36 , 53.0	L	SWP 24714 1+	167 27 50	−1.65 .12 12.8	L	O	09:44:31	440:00 Total =700:0	3	1	8	H/O exposing obs −143, −280 227 S/O MN=	BUTON / RG
			α , , δ , , R , ,		FES 1618 1+1										Skp. fwd. for SWP 24714 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 19 M Dec Y 84 RAW TAPE D 19 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 THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GQ 205	NGC 4151 84	Sey 1 12.5	α 12 , 8 , 0.4 δ 39 , 40 , 56 R248 , 37 , 36.7	L	LWP 5038 1+1	200 25 S/O	−1.83 .08 10.8	L	O	10:12:26	25:00	3	5	1	MgII 25 gross c~120 loc bg ~45 MN=	SNIJDERS / RG
"	"	"	α , , δ , " , R , ,	L	SWP 24717 1+2	198 13/77 S/O	−2.21 .08 9.8	L S	O O	10:43:06 11:57:10	45:00 30:00	3 2	5 3	0	c~90 loc bg ~30 Lyα ≈251 (sat 78) CIV =249 CIII =180 MN=	
"	"	"	α , , δ , " , R , ,	L	LWP 5039 1+3	204 25 S/O	−1.77 .08 10.5	L	O	12:12:03	45:00	4	7	1	c~180 wdgd~45 MgII 8 pix sat MN=	
GC 024	HD 20644 47	K4 III 4.3	α 3 , 17 , 18.5 δ 28 , 52 , 7 R 89 , 46 , 31.7	L	SWP 24718 1+4	377 61 F/4	−2.06 .08 9.8	L	O	13:47:49	180:00	2	2	1	MN=	RG
			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 Dec Y 89 RAW TAPE D 20 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GC 171	HD 72468 53	4SII+ KOIII 5.8	α 3, 34, 12.9 δ 0, 25, 32 R 127, 3, 5	H	LWP 5046 1+1	12057 52 FO	-2.83 .08 10.8	L	O	09:55:13	20:00	3	6	1	6 pix sat at MgII MN=	RG
			α , , δ , , R , ,	H	SWP 24722 1+2	12186 51 FO	-3.30 .08 10.5	L	O	10:21:22	385:00	2	6	2	9 pix sat at Lyα MN=	
			α , , 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 Dec Y 89 RAW TAPE D 21 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	BD+28 4211 16	sdO 10.53	α 21, 48, 56.0 δ 28, 37, 35 R 126, 44, 24.4	L	SWP 24727 1+2	217 2/17 FO	-3.02 .08 11.5	L S	O	10:22:14 10:28:46	00:26 01:18	5 7	0 0	0	loc b ~ 20 C ~ 220 (LG) 55 pix sat (SW) MN=	RG
			α , , δ , , R , ,	L	LWR 17564 1+3	224 1/10 FO	-2.59 .08 14.5	L S	O	10:33:06 10:37:47	01:00 03:00	5 5	0	1	loc bg ~ 30 C ~ 210 C ~ 240 MN=	
	NULL 99		α , , δ , , R , ,	L	LWR 17563 1+1										st - 10 00 00 MN=	
	HD 93521 12	O9Vp 6.89	α 10, 45, 53.6 δ 37, 50, 4 R 260, 46, 18.9	L	SWP 24728 1+4	5049 20/227 FO	-2.33 .5 11.5	L S	O	11:58:58 12:01:59	00:03 00:09	5 6	0	0	loc bg ~ 20 C ~ 175 Lg 6 pix sat SW MN=	
			α , , δ , , R , ,	L	LWR 17565 1+5	4981 6/344 FO	-2.33 .2 15.5	L S	O	12:05:22 12:08:24	00:03 00:09	4 5	0	1	loc bg ~ 30 C ~ 170 C ~ 210 MN=	
	BD+75 325 16	sdO 9.54	α 8, 4, 43 δ 75, 6, 48 R 323, 18, 35.4	L	SWP 24729 1+7	543 1/21 FO	-2.08 .7 11.5	L S	O	13:23:01 13:26:18	00:14 00:42	5 5	0	0	loc bg ~ 20 L ~ 190 C ~ 220 MN=	
			α , , δ , , R , ,	L	LWR 17566 1+6	525 1/36 FO	-2.08 .7 15.9	L S	O	13:30:00 13:34:03	00:24 01:12	5 5	0	2	loc bg ~ 30 C ~ 200 ~ 230 MN=	
	η UMa 21	B3V 1.84	α 13, 45, 34 δ 49, 33, 44 R 154, 51, 41.3	H	SWP 24730 1+11	4267 634 FU	-2.63 .08 11.5	L	O	14:42:48	0:06	4	0	0	loc bg ~ 35 C ~ 170 MN=	

OBSERVATORY LOG

DATE D 21 M Dec Y 84 RAW TAPE D 21 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
PHCAL	7 UMa 24	B3 V 1.84	α 13, 45, 34 δ 49, 33, 44 R 234, 51, 41.3	H	LWR 17567 1+9	4333 830 FU	-2.63 .08 16.2	L	O	14:47:28	0:06	5	0	2	loc bg ~35 C ~210 MN=	Rb
			α , , δ , , R , ,	H	LWP 5052 1+10	4179 672 FU	-2.28 .12 10.2	L	O	15:47:43	0:05	5	0	2	loc bg ~45 C ~220 MN=	
	NULL 99		α , , δ , , R , ,		LWP 5051 1+8										MN=	
	BD+28 4211 16	sd0 10.53	α 21, 48, 56 δ 28, 37, 35 R 126, 56, 4.1	L	LWP 5053 1+12	224 1/27 FO	-1.78 .08 10.8	L	O	16:31:01 16:37:43	0:50 3:00	5 3	0	3	loc bg ~40 C ~220 C ~110 MN=	
			α , , δ , , R , ,		1+										NOTE: BECAUSE OF LARGE DRIFT AND ALTHOUGH GUIDING, THE STAR PROBABLY GOT OUT OF SLIT MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 22 M Dec Y 84 RAW TAPE D 22 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GA 191	HZ 4 37	DA 14.5	α 3, 52, 38 δ 9, 38, 34 R 118, 13, 43.0	L	SWP 24733 1+	23 B.O.	-1.65 .08 13.2	L	O	10:22:22	215:00	5	0	1	bde -496, -874, 350 FO gross C ~210 loc bg ~40 Note EPH radiations during exposure MN=	GILMO 221
	LB 227 37	DA 15.4	α 4, 6, 36.9 δ 17, 0, 4 R 102, 11, 25.5	L	LWP 5058 1+	13 B.O.	-1.34 .08 11.5	L	O	14:27:29	140:00	4	0	3	bde -625, 117, 566 FO gross C ~165 loc bgd ~48 MN=	
			α , , 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=	

DAY 23 MONTH DEC YEAR 84 — NOW DAY 23 MONTH 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	OBSERV
GA191	HZ 2 37	WDA 14.1	α 04,09,57.0 δ 11,44,14 R 116,59,41.9	L	SWP 24736 1+1	41 2 S/O	-1.9 .08 11.8	L	O	10:41:53	80:00	7	Ø	1	SATURATED BELOW 1450 Å -253 DN at 1850 Å, BKG = 28 DN.	CLAVEL FEDOCKR give 41,41,37,42
〃	〃	〃	α , , δ , 〃 , R , ,	L	LWP 5062 1+2	42 2 S/O	-1.1 .08 11.2	L	O	12:09:56	50:00	5	0	3	max DN = 232 à 2650 Å BKG = 45 DN. MN=	
			α , , δ , , R , ,	L	SWP 24737 1+3	44 5 S/O	-.91 .08 12.8	L	O	13:12:39	45:00	5	0	1	max DN = 236 (1 pix at 251) at 1300 Å BKG = 17 MN=	
			α , , δ , , R , ,	L	LWP 5063 1+4	45 5 S/O	-.33 .08 12.8	L	O	14:05:08	45:00	5	0	3	max DN = 226 BKG = 43 DN MN=	
			α , , δ , , R , ,	L	SWP 24738 1+5	43 3 S/O	-.40 .08 15.2	L	O	14:55:42	40:00	5	0	1	max DN = 206 (1 pix at 272) BKG = 16 MN=	at 1320 Å
			α , , δ , , R , ,	L	LWP 5064 1+6	40 4 S/O	-1.27 .08 14.2	L	O	15:40:50	40:00	5	0	3	max DN = 204 at ~ 2700 Å BKG = 45 MN=	
			α , , δ , , R , ,	L	SWP 24739 1+7	47 3 S/O	-1.34 .08 15.2	L	O	16:26:25	20:00	4	0	1	max DN = 179 at 1300 Å BKG = 15 DN MN=	
			α , , δ , , R , ,		1+										MN=	

DAY 24 MONTH DEC YEAR 84 — NOW DAY 24 MONTH 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	OBSERV
GQ205	NGC4151 84	SFI 13.0	α 12,08,00.4 δ +39,41,02 R 251,49,51.0	L	LWP 5068 1+1	184 33 S/O	-1.73 .08 11.8	L	O	09:22:17	25:00	4	5	1	max 232 DN, MgII BKG = 37 DN CONTIN: 2707-2760 Å max = 139 AV = 93 MN=	CLAVEL
〃	〃	〃	α , , δ , 〃 , R , ,	L	SWP 24742 1+2	191 192 27 88 S/O	-1.38 .08 12.8	L S	O O	09:53:05 10:43:52	45:00 30:00	3 2	5 3	1	LAP: max 254, Lyα. CIV: 225 DN, BKG = 20 CIII]: 204 DN, BKG = 32 continuum = 83 DN max at 1850 Å	〃
〃	〃	〃	α , , δ , 〃 , R , ,	L	LWP 5069 1+3	193 15 S/O	-.69 .08 12.2	L	O	11:21:58	45:00	5	7	3	12 pix. sat at MgII cont. = 207 DN max, BKG = 39 DN. MN=	at 2750 Å
〃	〃	〃	α , , δ , 〃 , R , ,	L	SWP 24743 1+4	197 25 S/O	-1.57 .08 12.5	L	O	12:14:33	45:00	3	5	1	Lyα: 4 pix. sat. CIV: max 222 DN, BKG = 18 CIII]: max 1940 N, BKG = 27 max cont. at 1850 = 80 DN	
G 226	3A0724+103 52	Irr. Var 14.5	α 07,28,44.4 δ 10,02,47.3 R 231,51,39.6	L	SWP 24744 1+6	28 (B.O). S/O	-2.2 .08 12.8	L	O	13:56:08	115:00	3	3	1	max DN = 76 at 1850 BKG ≤ 34 CIV = 105 DN MN=	WAMSTEKER JC
	〃	〃	α , , δ , 〃 , R , ,	L	LWP 5070 1+5	CALCM	-.7 .08 11.2	L	O	16:00:20	35:00	3	3	3	max DN = 212 at ~ 2750 Å BKG = 35 DN MN=	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY USE

DATE: D 25 M DEC Y 84 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 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	OBSERV
GA191	LDS 235B 29	WDB 15.5	α 08,45,13.2 δ -18,48,48 R 222,36,26	L	LWP 5074 1+1	B.O.	-1.47 .08 11.5	L	O	09:45:37	170:00	4	ϕ	4	max DN: 179 local BKG = 52	CLAVEL
"	HZ 4 37	WDA 14.5	α 03,52,38.0 δ 09,38,34 R 116,29,44	L	SWP 24747 1+2	22 8 (B.O.)	-1.96 .08 10.8	L	O	13:38:43	190:00	5	ϕ	2	max DN = 195 local BKG = 39	
			α , , 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 USE

DATE: D 26 M DEC Y 84 RAW TAPE: D 26 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.	EM. LINES	BACKG.	COMMENTS	OBSERV
GA191	LB227 ~~1737~~	DA 15	α 4,6,36.9 δ 17,00,04 R 107,7,49.3	L	SWP 24752 1+1	11 0 blood effect 50	-2.26 0.08 9.8	L	O	10:11:47	320:00	5	0	3	C(1300) ~ 240 C(1900) ~ 192 B = 48 MN=	CASSATELLA AE
"	HZ 2 37	DA 15	α 04,09,57 δ 11,44,14 R 115,4,9.4	L	LWP 5076 1+2	57 0 50	-1.87 0.08 10.2	L	O	15:58:36	49:00	5	0	4	QDE (655,140) 54 CTS S/O, B = 40 C(2300) = 100 C(2800) = 220 MN=	"
			α , , 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=	

DAY 27 MONTH DEC YEAR 84

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	OBSERV
PHCAL	BD+78 4211 16	sdO 10.5	α 21 ,48 ,56.0 δ 28 , 37 ,35 R 130 , 54 ,19.6	L	SWP 24755 1+1	234 1 FO	-1.87 .08 9.8	L	0	09:52:34	0:26	5	0	0	C≃218 B≃15 MN=	TSIAVERAS AT
			α , , δ , , R , ,	L	LWP 5080 1+2	227 4 FO	-1.87 .08 10.8	L	0	09:56:25	0:50	5	0	1	C≃221 B≃32 MN=	
			α , , δ , , R , ,	L	SWP 24756 1+3	220 1 FO	-2.65 .08 10.2	L	0	10,57:00	1:18	5	0	0	TRAIL R=0.456 I=1 C=180 @ λ1700 B≃13 MN=	
			α , , δ , , R , ,	L	LWP 5081 1+4	230 0 FO	-2.65 .08 10.8	L	0	11:02:12	3:00	8	0	1	C≃ SATUR. λ>2280 C≃250 @ λ<2200 B≃23 @ λ2200 MN=	
	HD 93521 12	O9Vp 7.0	α 10 ,45 ,34.0 δ 37 , 50 ,04 R 264 , 35 , 39.7	L	SWP 24757 1+5	5272 18 FO	-1.32 .08 10.5	L	0	12:22:13	0:4	5	0	0	C≃209 B≃15 MN=	
			α , , δ , , R , ,	L	LWP 5082 1+6	5122 12 FO	-0.92 .08 10.8	L	0	12:25:27	0:3	5	0	0	C≃204 B≃33 MN=	
			α , , δ , , R , ,	L	SWP 24758 1+7	5648 5 FO	-1.00 .08 10.5	L	0	13:18:00	0:13	5	0	0	TRAIL R=1.50 I=1 C≃197 B≃13 MN=	
			α , , δ , , R , ,	L	LWP 5083 1+8	5273 18 FO	-1.00 .08 11.2	L	0	13:23:46	0:10	8	0	0	SATUR λ>2350 C≃230 @ λ2300 B≃20 @ λ2300 MN=	

DAY 27 MONTH DEC YEAR 84

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	OBSERV
PHCAL	HD 93521 12	O9Vp 7.0	α 10 ,45 ,34.0 δ 37 , 50 ,04 R 264 , 35 ,39.7	H	SWP 24759 i+9	5791 23 FO	-1.09 .08 10.8	L	0	13:53:36	5:00	5	0	0	C≃187 B≃35 MN=	TSIAVERAS AT
			α , , δ , , R , ,	H	LWP 5084 i+10	5415 9 FO	-1.96 .08 10.8	L	0	14:29:01	4:30	5	0	1	C≃235 B≃45 MN=	
	HD 24760 20	B0.5V 3.0	α 03 ,54 ,29.4 δ 39 ,52 ,03 R 73 , 41 , 7.8	H	LWP 5085 i+11	2189 24 FU	-2.52 .08 10.8	L	0	15:42:40	0:07	5	0	1	C≃210 B≃45 MN=	
			α , , δ , , R , ,	L	LWP 5086 i+	1432 3 FU	-2.56 .08 11.2	L	0	16:17:00	0:00	5	0	0	TRAIL R=51.28 I=1 EXPTIME: 0.39 ku C≃211 B≃30 MN=	
			α , , δ , , R , ,		i+										MN=	
			α , , δ , , R , ,		i+										MN=	
			α , , δ , , R , ,		i+										MN=	
			α , , δ , , R , ,		i+										MN=	

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 ENG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GQ205	NGC 4151 84	Sey 1 12.5	α 12, 08, 0.4 δ 39, 41, 02 R 254, 28, 25	L	SWP 24766 1+1	183 23 50	-2.59 0.08 12.2	L	O	095254	45:00	3	5	2	GDE(617,-165) 321 S/O C III 200 Si II 77 Lyα 247 C IV 184 B = 19 MN= C ~ 79	ELVIUS HCIL 96 (1900) AC
"	"	"	α , , δ , , R , ,	L	LWP 5092 1+2	187 22 50	-1.81 0.08 11.8	L	O	104400	25:00	3	5	2	Mg II 239 C ~ 110 (1900) B = 34 MN=	
"	"	"	α , , δ , , R , ,	L	SWP 24767 1+3	185 25 50	-1.46 0.08 12.5	L	O	111601	45:00	3	5	2	Si IV 227 Si IV 82 C III 197 Lyα 250 B = 20 C ~ 69 MN=	
"	"	"	α , , δ , , R , ,	L	LWP 5093 1+4	176 21 50	-1.12 0.08 12.2	L	O	120754	50:00	4	7	2	Mg II ~ 10 pix sat C(2700) ~ 180 B = 40 MN=	
GQ226	PG 1351+64 35	QSO 14.7	α 13, 51, 46.1 δ 64, 0, 29 R 241, 28, 5.8	L	SWP 24768 1+5	24 Ø slightly 50	-1.22 0.08 11.8	L	O	145958	110:00	3	4	3	GDE(846-1071) 375 S/O Lyα 141 C(1300)=60 C IV 67 B=28 MN=	AC
			α , , δ , , R , ,	L	LWP 5094 1+6	—	-1.32 0.08 11.5	L	O	165953	47:00	3	0	3	GDE(648,-933) 392 S/O C ~ 100 B = 37 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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 ENG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
FI217	HDE 245770 59	X ray 9.3	α 5, 35, 48 δ 26, 17, 18 R 79, 37, 57.7	L	SWP 24776 1+1	724 3 FO	-2.65 0.08 10.8	L	O	103105	16:00	5	0	2	C = 247 B = 32 MN=	GIOVANNELLI AC
"	"	"	α , , δ , , R , ,	L	LWP 5098 1+2	751 3 FO	-2.33 0.08 10.2	L	O	105135	3:30	5	0	1	C(1400) ~ 177 C(1800) ~ 213 B ~ 16 MN=	"
"	BD+40° 4227 13	O6I6 9.14	α 20, 31, 27.3 δ +41, 8, 31 R 150, 59, 8.5	L	LWP 5099 1+3	857 10 FO	-1.07 0.08 10.5	L	O	12 1028	35:00	6	0	1	(-86, -944) GDE 237 F/O 4 pix sat. ~ 280 B ~ 37 MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 24777 1+4	835 50 FO	-1.78 0.08 10.5	L	O	124941	238:00	4	4	3	C(1800) ~ 150 C(1300) ~ 108 B ~ 38 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE D 30 M DEC Y 84 — RAW TAPE D 30 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. plot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GS227	AREND-RIGAUX 6	Comet 13.8	α 8,57,31.3 δ 8,26,14 R 242,13,50.5	L	LWP 5102 1+2	56 0 50	-1.77 0.08 7.8	L S	O	10 51 30	20:00	0	0	1	SAP = SERENDIPITY MN=	HUGHES-ZARNECKI AC
"	"	"	α , , δ , , R , ,	L	SWP 24783 1+3	/	-1.96 0.08 8.2	L	O	11 02 55	5:00	0	0	1	SERENDIPITY MN=	
"	"	"	α , , δ , , R , ,	L	SWP 24784 1+6	36 0 50	-2.04 0.08 8.2	L	O	11 43 12 12 29 18	30:00 30:00 60:00	0	0	1	MN=	
"	"	"	α , , δ , , R , ,		FES 1620 1+1					10 30 00					5kb MN=	
	SCHAUMASSE 6	Comet 13.4	α 14,05,10.1 δ 0,29,7 R 245,4,52.6		FES 1621 1+4										77 CTS S/O 13,14 AM FES 5kB MN=	
"	LEVY-RUDENKO 6	Comet 12.4	α 18,21,54.2 δ 35,40,30 R 84,8,13.9		FES 1622 1+5										MN=	
"	"	"	α , , δ , , R , ,	L	LWP 5103 1+7	190 - 50	-1.08 0.08 7.5	L	O	16 18 50	25:00	0	4	2	84 CTS F/O at start exposure — OH: 6 3 130 B≈ 33 MN=	
			α , , δ , , R , ,		1+										MN=	

DATE D 31 M DEC Y 84 — RAW TAPE D 31 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. plot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SECT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERV
GA TOO	GSB 054666 90	V-MAG 12?	α 5,25,55.5 δ -66,7,6 R , ,	L	SWP 24792 1+2	BO	-3.08 .08 7.8	L	O	09:46:00	381:00	2	3	3	602 -316 809/FO -304 ETHS: C III : 131 ON C IV, III], .. 1600 ON B≈80 MN=	TYLAVERA AT
			α , , δ , , R , ,	L	LWP 5106 1+1	BO	-3.08 .08 6.8	L	O	09:47:22	368:00	1	0	4	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=	