I.U.E

VILSPA OBSERVATORY LOG

VOLUME 1B

1978

(FROM 30 MAY)

NOTES:

1. Prior to 30 May 1978 the VILSPA handwritten log has a more detailed format with a full page entry for each image. Due to the much lower information/bulk content of this initial phase of the log it has been omitted from this volume. The first VILSPA guest observer image was logged on 3 April 1978.

2. The log was found to be incomplete regarding a number of maintenance shifts in August and September. The relevant information has been retrieved from other records and inserted for completion.

A.W. Harris.

A.W. Harris
VILSPA, 11 Feb. 1983

OBSERVATORY LOG DAY 30 MONTH 5 YEAR 78 RAW D. TAPE 30 MAY 78

ESA/SK NO.	OBJECT / TYPE PHASE	SP.TYPE V B-V	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. phi slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
HH011	HD 192163 STAR	WN6 7.7 0.55	α 20, 10, 17 δ 38, 12, 15 R 308, 4, 10.4	H	SWP1668 1+1	4500 240 OV	1.073	S	S	A	L	01:41:47	40:00	3	underexposed but HII saturated AVER. 30 MAX 255	HUBER/CLAVEL
	HD 192163 STAR	WN6 7.7 0.55	α 20, 10, 17 δ 38, 12, 15 R 308, 4, 10.4	H	LWR1580 1+2	4500 240 OV	1.022 .08	S	S	A	L	02:45:40	100:00	2	good, but some lines are saturated AVER. 180 MAX 255	HUBER/CLAVEL
	V1016 Cyg	11	α 19, 55, 20 δ +39, 41, 30 R 311, 8, 1.9	H	SWP1669 1+3	1000 4 OV	1.902 008	S	S	A	L	05:08:24	40:00	4	underexposed. no continuum. AVER. 30 MAX 60	HUBER/CLAVEL
	V1016 Cyg	11	α 19, 55, 20 δ +39, 41, 30 R 311, 8, 1.9	H	LWR1581 1+4	1000 3 OV		S	S	A	L	06:12:35	30:00		underexposed AVER. 30 MAX 60	HUBER/CLAVEL
	[illegible]		α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ												AVER. MAX	

OBSERVATORY LOG — DAY 31 MONTH 5 YEAR 78 (1) RAW D. TAPE 31 MAY 78

SA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v / (B-V)	RIGHT ASCENSION, DECLINATION (1950), ROLL ANGLE	RESOL.	IMAGE NO. ROW/IM. FILE PROC. DATA Y.	FES CTS: ref. pnt / slot / und./ov.	FOCUS / BKG.	APERT.	PREP.	EXPOSE G.	READ G.	G.M.T. (h:mm:ss)	DURATION (mm:ss)	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	Mz 297 Galaxy	13.2	α 16h, 5m, 0.9 δ 20, 40, 36 R 384	L	LWR 1585 4+1	60 / 0 / Slow ov.	0.39 / .08	L	S	A	L	01:26:07			AVER. MAX	P.B
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
	C		α δ R												AVER. MAX	

OBSERVATORY LOG DAY 31 MONTH 05 YEAR 78 (4) RAW D. TAPE 1 JUN 78

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	ASSRT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
ES	R CrB Star	FS16 6	α 15, 46, 16.3 δ 28, 11, 22.24 R 13, 24, 22.3	L	SWP 1681 1+1	9886 ov.	0.24 .08	L	S	M	L	23:59:19	60:00	2	good exposure λ > 1600 AVER. 81 MAX 176	HECK CASSATELLA
ES	R CrB Star	FS16 6	α 15, 46, 30.7 δ 28, 18, 32.24 R 0, 5, 44	L	LWR 1587 J	9718 25 ov.	-1.55 .08	L	S	M	L	1102:16	70:00		good exp λ ≥ 1560 overexp λ ≥ 1680 AVER. MAX	HECK CASSATELLA
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG DAY 1 MONTH 6 YEAR 78 RAW D. TAPE ? JUN 78

~~ESA~~/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	ASSRT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
0092	η Car Pec. S ~	Pec ~6	α 10, 43, 07 δ -59, 25, 15 R 79, 47, 18	L	SWP 1657 1+1	12000 4000 ov.	-0.3 0.38	S L	S	A	L	23:19:00	2:0	2	Peak dropout in small slot. 9m line hit 255. AVER. ~150 MAX 255	STICKLAND
0093	η Car S	Pec ~6	α 10, 43, 07 δ -59, 25, 15 R 79, 47, 18	H	LWR 1592 2+1	13000 400 ov	0.08	L	S	A	L	23:47:33	20:0	2	Some errors on peaks saturated AVER. 150 MAX 255	STICKLAND
0094	η Car S	Pec ~6	α 10, 43, 07 δ -59, 25, 15 R 79, 47, 18	H	SWP 1688 3+1	13000 300 ov	0.08	L	S	A	L	01:04:42	40:0	4	Very weak AVER. 30 MAX 60	STICKLAND
0095	β Hyi	G2IV 2.	α 00, 23, 29 δ -77, 32, 0 R 0, 11, 1.7	H	LWR 1593 4+1	2000 600	0.10	S	S	A	L	02 46:11	15:0	5	Good for MgII AVER. 150 MAX 255	STICKLAND
0096	β Hyi	G2IV 2	α 00, 23, 29 δ -77, 32, 0 R 0, 11, 1.7	L	SWP 1689 5+1	600	-0.54 0.08	S	S	A	L	03:24:11	20:0	2	Spectrum of LWR + Ly α (*) AVER. 140 MAX 254	STICKLAND
0097	S67-180 S 104	B0 12.5 ~0?	α 05, 26, 33 δ -67, 39, 45 R -0, 17, 7.6	L	LWR 1594 6+1	160 <10	0.08	S	S	A	L	04:36:40	20:0	1	Excellent - even if I do say so myself. MAX 200 AVER.	STICKLAND
0098	S67-180 S 104	B0: 12.5 ~0?	α 05, 26, 33 δ -67, 39, 45 R -0, 17, 7.6	L	SWP 1690 7+1	190 ~12	0.12	S	S	A	L	05:19:29	20:0	1	Fantastic spectrum. Ported AVER. 175 MAX 250	STICKLAND
			α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG DAY 2 MONTH 6 YEAR 78 RAW D. TAPE 3 JUN 78

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v $\epsilon(B-V)$	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot snd./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	HD 4979.8 Star	Sd O. 8.6	α 06h, 46m, 37.8s δ +44°, 15', 33" R +30°, 34', 2"9	H	SWP 16998 L+1...	1958 135 ov.	-1.6 .08	S	S	M	L	22:42:33 ...	25:00. ...	E	ok ... AVER. 127 MAX 178	HUNGER HECK
	HD 49798 Star	Sd O 8.6	α 06h, 46m, 36.8s δ -44°, 15', 34" R +30°, 34', 2"9	H	LWR 16033 ..142	2167 122 ov	-1.6 .08	S	S	M	L	23:30:32 ...	13:00 ...	4	underexposed AVER. 883 MAX 958	HUNGER HECK
	HD 44798 Star	Sd O 8.6	α 06h, 46m, 14.8s δ -44°, 15', 33" R +30°, 34', 2"9	H	SWP 16999 ...	2600 110 ov	-1.6 .10	S	S	M	L	00:20:00 ...	13:20 ...	2	ok in background of ... AVER. 159 MAX 246	HUNGER HECK
	HD 44798 Star	Sd O. 8.6	α 06h, 46m, 34.8s δ -44°, 15', 33" R +30°, 14', 2"9	H	LWR 11004 ...	2100 115 ov	+1.6 .08	S	S	M	L	01:06:13 ...	25:00 ...	2	dull slightly underexposed AVER. 112 MAX 214	HUNGER HECK
	HD 64740 Star	B2 4.8	α 07h, 51m, 39s.1 δ -49°, 28', 56" R 4°, 43', 35"	H	SWP 17005 ...	500. 110 und.	-.75 .08	S	S	M	L	02:11:39 ...	2:24. ...	5	overexposed in the AVER. 193 MAX 750	HUNGER HECK
	HD 64740 Star	B2 4.8	α 07h, 51m, 39s.1 δ -49°, 28', 56" R 4°, 43', 35"	H	LWR 16035 ...	500 120 und.	-.42 .08	S	S	M	L	03:35:42 ...	2:24 ...	2	ok AVER. 786 MAX 255	HUNGER HECK
	HD 64740 Star	B2 4.8	α 07h, 51m, 39s.1 δ -49°, 28', 57" R 4°, 43', 35"	H	SWP 17021 ...	450 160 und	-.42 .08	S	S	M	L	03:58:42 ...	1:46 ...	2	ok AVER. 110 MAX 155	HUNGER HECK
	BD+18° 2179 Star	B3 9	α 10h, 36m, 17s.3 δ +18°, 19', 27" R 68°, 18', 14"3	L	SWP 17032 (2 spectra)	1900 ? ov.	0.05 .08	L	S	M	L	05:13:25 ...	8:00. ...	4	slight trace of spectrum AVER. MAX	HUNGER HECK

(see next page)

OBSERVATORY LOG DAY 2 MONTH 6 YEAR 78 RAW D. TAPE 3 JUN 78

SA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v $\epsilon(B-V)$	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE.	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot snd./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	BD+18° 2179 Star	B3 9.	α 10h, 36m, 17.2s δ 18°, 19', 28" R 68, 18', 14"3	L	SWP 17032 (2 spectra) see previous page	1900 75 ov	0.05 ... .08	S	S	M	L	05:33:40 ...	5:00. ...	4	(no spectrum) AVER. MAX	HUNGER HECK
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
	C		α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG — DAY 3 MONTH 6 YEAR 78 — RAW D. TAPE 4 JUN 78

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IH.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS mkg.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hhmmss	DURATION mmmss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
on 99	NGC 7009 PN	8.0	α 21h 01m 28s δ −11° 22' 54" R 249° 15' 53.5"	L	LWR 1611 1+1	750 120 ov.	1.12 .25	L	S	A	L	22102:06	20:00	1	very good spot AVER. 162 MAX 255	SEATON / LUTZ HECK
0100	NGC 7009 PN		α 21h 01m 28s δ −11° 22' 54" R 249° 15' 53.5	L	SWP 1709 1+2	730 180 ov	1.89 .25	L	S	A	L	03:17:00	10:00	1	very good AVER. 119 MAX 189	SEATON / LUTZ HECK
0101	NGC 7662 PN	8.6	α 23h 23m 20s δ +42° 16' 00 R 280, 56, 35	H	LWR 1612 1+3	465 330 (extreme corner)	1.11 .08	S	S	A	L	01:21:00	20:00	4	offset pitch wide of H — only a few pixels AVER. — MAX —	SEATON / LUTZ HECK
0102	NGC 7662 PN		α 23h 23m 30s δ +41° 16' 00 R 278, 56, 35	H L	SWP 1710 1+4	450 397 (edge of ccd field)	1.11 .08	S	S	A	L	02:12:57	40:00	2	offset pitch wide of H spectrum wanted a few minutes — faint AVER. — MAX —	SEATON / LUTZ HECK
0103	NGC 7662 PN		α 23h 23m 30s δ +41° 16' 00 R 280, 55, 35	H	LWR 1613 1+5	450 130 ov	1.11 .08	X	S	A	L	03:23:33	12:00	4	a few pixels — unusable AVER. MAX	SEATON / LUTZ HECK
0104	NGC 6543 PN		α 17h 58m 33s δ 66° 38' 00 R 373, 7, 24.5	L	SWP 1711	90.0 600 ov	0.08 .08	S	S	A	L	05:18:04	5:00	2	OK some Pagg profile? AVER. 92 MAX 158	SEATON / LUTZ HECK
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	

OBSERVATORY LOG — DAY 4 MONTH 6 YEAR 78 — RAW D. TAPE 5 JUN-1, 197

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IH.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS mkg.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hhmmss	DURATION mmmss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	HD 93735 Star	SdO 8.6	α 06h 46m 28s δ −44° 15' 34" R 28, 30, 45.1	H	LWR 1620 1+9 =	2100 1200 ov	.035 .08	S	S	A	L	01:17:29	11:00	2	OK AVER. 150 MAX 253	HUNGER HECK
	HD 127493 Star	SdO 9.5	α 14h 29m 36s δ −27° 26' 16" R 83°, 7', 55".3	L	SWP 1720 1+1 =	420 20	.02 .08	S	S	A	L	01:05:57	02:30	5	continuum exp. only around 1200 AVER. 229 MAX 250	HUNGER HECK
			α δ R			430 A	.02 .08	L	S	A	L	03:57:57	01:45	5	Continuum exp. only around 1200 AVER. 204 MAX 255	
	BD+10° 2179	Bg 9.0	α 10h 36m 17s.1 δ +9° 11' 27" R 68°, 21', 2".9	L	SWP 1721 1+3	450 30	1.42 .08	S	S	A	L	04:24:19	2:00	1	OK AVER: 137 MAX 255	HUNGER HECK
			α δ R			453 1	1.42 .08	L	S	A	L	04:37:02	14:00	6	2 X over exposed AVER. 255 MAX 255	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	

OBSERVATORY LOG — DAY 5 MONTH 6 YEAR 78 — RAW D. TAPE 6 JUN-1, 9

SA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnl slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
UK 105	NGC 7662	PN	α 23,23,30 δ +42,16,00 R −0,28,34.8	L	LWR 1623	450 398 ov/font	1.03	S	S	A	L	24:43:00	12:000		6" EST from central star - Only 2 weak continuum - underexposed AVER. MAX	SEATON, LUTZ CASSATELLA
UK 106	NGC 7662		α 23,23,30 δ +42,16,00 R −0,28,34.8	L	LWR 1624	470 380 ov/font	1.05	S	S	A	L	26:12:00	12:000		3.8" WEST from central star AVER. MAX	SEATON, LUTZ CASSATELLA
UK 107	NGC 7662		α 23,23,30 δ +42,16,00 R −0,28,34.8 (H)	H	LWR 1625	470 380 ov/font		S	S	A	L	3:11:00	75:000		7.8" WEST from central star - Some cosmics - No cont - AVER. MAX	SEATON, LUTZ CASSATELLA
UK 108	NGC 7662		α 23,23,30 δ +42,16,00 R −0,28,34.8	L	SWP 1329	453 320 ov/font	0.83 .08	S	S	A	L	4:45:18	60:00		5.4" WEST from central star. Some AVER. MAX	SEATON/LUTZ CASSATELLA
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	

OBSERVATORY LOG — DAY 5 MONTH 6 YEAR 1978 — RAW D. TAPE 7 JUNE-1

SA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnl slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	VV Cep M2+B → star 5.7		α 21h,55m,14s δ +63°,23',18" R 293,47,9.4	L	SWP 1936 1+1	305 100 S. UND.	+1.9	S T L	S	A	Lo	00h15m08s 00h26m37s	1m SMALL 12m		LANGR A.P. 12m REPOSITN QUITE GOOD. SOME RAYS. SOME ZERO X ≈ 1800 AVER. 140 MAX 255	SELVELLI SELVELLI
	V.V. Cep STAR	M2+B 5.7	α THE SAME δ R 20,3,	L	LWR 1631 1+2	300 50L		S T L	S	A	Lo	01.25 01.35	4m SMALL 6m		~ GOOD AVER. MAX	SELVELLI SELVELLI
	BD−9° 4395 Star	B1 9.4	α 16h,26,51.5 δ −9,13,00 R 293,35,39.9	L	SWP 1737 1+3	580 190 ov	−1.66	S	S	A	L	5:34:00	12m		Underexposed by 1 factor AVER. MAX	HUNGER CASSATELLA
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	

OBSERVATORY LOG — DAY 7 MONTH 6 YEAR 78 — RAW D. TAPE 8 JUN-1

ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v / ϵ(B-V)	RIGHT ASCENSION / DECLINATION / ROLL ANGLE (1950)	RESOL.	IMAGE NO. / ROW IM. FILE / PROC. DATA T.	FES CTS: ref. pnt / slot / und./ov.	FOCUS / BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS / D.N. VALUES	OBSERVER / D.A.
UK 109	HKN 509 M	— 13	α 20, 41, 26.1 δ -10, 54, 16.8 R 0, 13, 20.9	L	SWP 1742 1+1	97 7 ov/slow	-.73 .08	L	S	A	L	23:46	60:00	1	max DN in Lyα (11h) is 225 — Very good exp — AVER. 40 MAX 102	BURTON PATCHETT CASSATELLA
UK 110	HKN 509 M	— 13	α 20, 41, 26.1 δ -10, 54, 16.8 R 0, 3, 17.8	L	LWR 1636 1+2	90 6 ov/slow	-1.5 .08	L	S	A	L	1:10:02	50:00	1	very good exp — AVER. 83 MAX 199	BURTON PATCHETT CASSATELLA
UK 111	HKN 509 M	— 13	α 20, 41, 26.1 δ -10, 54, 16.8 R 0, 3, 11.8	L	SWP 1743 1+3	89 6 ov/slow	-1.89 .08	S	S	A	L	02:24:02	35:00	3	max DN in Lyα = 72 ⇒ 95% cut in SAI AVER. MAX	BURTON PATCHETT CASSATELLA
UK 112	HKN 313 M	— 13	α 22, 59, 30 δ +15, 42, R -0, 26, 25.3	L	SWP 1744 1+4	80 5 ov/slow	-1.78 0.08	L	S	A	L	05:04:04	36:00	4	about no signal — AVER. 20 MAX 30	BURTON PATCHETT CASSATELLA
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
	C		α δ R												AVER. MAX	

OBSERVATORY LOG — DAY 8 MONTH 6 YEAR 78 — RAW D. TAPE 9 JUN-1

ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v / ϵ(B-V)	RIGHT ASCENSION / DECLINATION / ROLL ANGLE (1950)	RESOL.	IMAGE NO. / ROW IM. FILE / PROC. DATA T.	FES CTS: ref. pnt / slot / und./ov.	FOCUS / BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS / D.N. VALUES	OBSERVER / D.A.
UK 113	HKN 59 M	— 14 —	α 12, 56, 42 δ +35, 08, 00 R 55, 14, 44	L	SWP 1748 1+1	49 0	-1.19 0.08	L	S	A	L	2:45:58	80:00	3	a faint 2. order sp. — AVER. 47 MAX 90	BURTON PATCHETT CASSATELLA
UK 114	HKN 59 M	— 14 —	α 12, 56, 42 δ +35, 08, 00 R 55, 14, 44	L	LWR 1641 1+2	41 0	-1.2	L	S	A	L	4:16:19	85:00	2	faint order spectrum — good, bkg — AVER. 50 MAX 136	BURTON PATCHETT CASSATELLA
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
	C		α δ R												AVER. MAX	

OBSERVATORY LOG DAY 9 MONTH 6 YEAR 78 RAW D. TAPE 10 JUN-78

SA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE / m_v / E(B-V)	RIGHT ASCENSION / DECLINATION (1950) / ROLL ANGLE	RESOL.	IMAGE NO. / ROV IM.FILE / PROC.DATA T.	FES CTS: ref. pnt / slot / und./ov.	FOCUS / BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS / D.N. VALUES	OBSERVER / R.A.
	S Cr A	Pec 11.5	α 18, 57, 48 δ -37, 01, 22 R 246, 26, 59.8	L	LWR 1645 1+1	125 3 ov/flat	-1.61 .08	L	S	A	L	00:22	80:00	2	Kill overexp - Spoke blue and green AVER. 77 MAX 210	APPENZELLER CASSATELLA
	S Cr A	Pec 11.5	α 18, 57, 48 δ -37, 01, 22 R 246, 31, -1.4	L	SWP 1755 1+2	135 3 ov/flat	-.073 .08	L	S	A	L	02:14:49	200:00	4	underexposed AVER. 55 MAX 85	APPENZELLER CASSATELLA
			α δ R												AVER. MAX	
			α δ R											1	AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
		C	α δ												AVER. MAX	

OBSERVATORY LOG DAY 10 MONTH 6 YEAR 78 RAW D. TAPE 11 JUNE

UK NO.	OBJECT / TYPE / PHASE	SP.TYPE / m_v / E(B-V)	RIGHT ASCENSION / DECLINATION (1950) / ROLL ANGLE	RESOL.	IMAGE NO. / ROV IM.FILE / PROC.DATA T.	FES CTS: ref. pnt / slot / und./ov.	FOCUS / BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS / D.N. VALUES	OBSERVER / R.A.
0115	γ^2 Vel STAR	WC8 1.8	α 121°, 59', 52" δ -47°, 11', 18" R 40, 0, 0.4	H	SWP 1761 1+1	6100 2100 UND	+1.9	S	S	A	L	23:00:13	000:05	1	Sat in 1909 OK else where. AVER. 130 MAX 255	BURTON STICKLAND
0116	γ^2 Vel STAR	WC8 1.8	α 121°, 59', 52" δ -47°, 11', 18" R 40, 0, 0.4	H	LWR 1651 2+1	"		S	S	A	L	23:47:00	000:07	1	Good exp AVER. 130 MAX 200	BURTON STICKLAND
0117	θ Mus STAR	WC6 5.5	α 13h, 04m, 52s δ -65°, 02', R	H	SWP 1762 4+1	17700 3000 ov	-1.8	S	S	A	L	01:21:06	06:00	1	Very good. AVER. 150 MAX 230	BURTON STICKLAND
0118	θ Mus STAR	WC6 5.5	α 13h, 04m, 52s δ -65°, 02', R	H	LWR 1652 3+1	"	-1.1	S	S	A	L	01:33:16	07:00	1	Good exp Just a bit strong. AVER. 150 MAX 255	BURTON STICKLAND
0119	HR 3954 STAR	dF-4 5.7	α 10, 1, 17.7 δ 54, 8, R	H	LWR 1653 5+1	18500 100 ov		S	S	A	L	05:09:36	30:00		Very Good Week AVER. MAX	STICKLAND "
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
		C	α δ R												AVER. MAX	

OBSERVATORY LOG

DAY 11 MONTH 06 YEAR 78 RAW D. TAPE 12 JUNE 78

A/DK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA.T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	HD35343 STAR	A2 9.2	α 5, 18, 36 δ -69, 18, — R 0°, 12', 9.7"	L	LWR1658 1+1	580 35 OV	+0.62 .1	L	S	A	L	00:48:00	20:00	6	overexposed in LW part AVER. 185 MAX 255	J.Appenzeller J.CLAVEL
	HD35343 STAR	A2 9.2	α 5 18 , 36 δ -69, 18, — R 0°, 12', 9.7"	L	SWP1768 1+2	750 4.		L	S	A	L	01:15:10	20:00	3	spectrum split in 2 parts AVER. 54 MAX 135	J.Appenzeller J.CLAVEL
	BS4952 STAR (θ Muscae)	WC6+10 5.6	α 13h, 4m, 52s δ -65°, 2', 21" R 104°, 18', 00.6	H	SWP1760 1+4	8000 3000 OV	+.95 .08	S	S	A	L	03:11:39	6:30	2	13 pixels saturated at 1909 Å AVER. 110 MAX 216	MACCHETTO J.CLAVEL
	BS4952 STAR (θ Muscae)	WC6+10 5.6	α 13h, 4m, 52s δ -65°, 02', 21" R 104°, 16', 00.6°	H	LWR1659 1+5	8000 5500 OV	+0.39 .08	S	S	A	L	03:56:53	8:30	5	slightly overexposed in the center of blotch AVER. 183 MAX 255	MACCHETTO J.CLAVEL
	BS4952 STAR (θ Muscae)	WC6+10 5.6	α 13h, 4m, 52s δ -65°, 02', 21" R 104°, 16', 00.6	H	SWP1770 1+6	17000 5500 OV	-0.12 .08	S	S	A	L	05:04:34	8:00	2	32 pixels at 255 a 1909 Å AVER. 130 MAX 223	MACCHETTO CLAVEL
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
		C	α / / δ / /												AVER. MAX	

OBSERVATORY LOG

DAY 12 MONTH 06 YEAR 78 RAW D. TAPE 13 JUN-78

ESA/DK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	Z And	M+B 10	α 23, 31, 15.32 δ 48, 32, 31.6 R 284, 17, 12.2	L	LWP1661 1+1	286 ... o/	-1.99 .08	L	S	A	L	03:59:57	105		overexposed > 1400 AVER. 190 MAX 255	CASSATELLA
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
		C	α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG DAY 13 MONTH 06 YEAR 78 RAW D. TAPE 14 JUN-78

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	ABERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
UK0120	HD168476	B5p 9.4	α 18h, 19m, 05s δ −56, 39, 15 R 201, 35, 39.1	H	LWR1664 1+1	300 55 OV	0.90 0.12	S	S	A	L	01:16:00	40:00	4	very underexposed AVER. 37 MAX 83	LYNAS-GRAY CLAVEL
UK0121	HD168476	B5p 9.4	α 18h, 19m, 0s δ −56, 39, 15 R 201, 35, 39.1	H	SWR1702 1+2	... ... OV	8.83 0.08	S	S	A	L	02:05:00	80:00	4	very underexposed max = 60 DN at 1900Å AVER. 39 MAX 60	LYNAS-GRAY CLAVEL
UK0122	HD168476	B5p 9.4	α 18, 19, 00 δ −56, 39, 15 R 201, 35, 39.1	H	LWR1665 1+3	300 55	3.44 0.08	S	S	A	L	03:36:39	120:00	4	underexposed AVER. 79 MAX 170	LYNAS-GRAY CLAVEL
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ												AVER. MAX	

OBSERVATORY LOG DAY 14 MONTH 06 YEAR 78 RAW D. TAPE 15 JUN-78

SA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	ABERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	NGC3516 Galaxy	Seyfert I 13.6	α 11h, 03m, 22.6s δ 73°, 50', 21" R 89, 2, 10	L	LWR1669 1+1	113 14 OV	.57 .56	S	S	A	L	23:22:18	120:00	4	underexposed Hg II ≈ 110 DN AVER. 54 MAX 112	LIND, ELVIUS /CLAVEL
	NGC3516 Galaxy	Syf. I 13.6	α 11, 03, 22.6 δ 73°, 50', 21" R 89, 2, 10	L	SWP1786 1+2	113 7 OV	-2.09 .08	S	S	A	L	01:39:22	240:00	4	underexposed, Lyα, CIV, CIII(1909) AVER. 62 MAX 83	LIND, ELVIUS /CLAVEL
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	

OBSERVATORY LOG — DAY 16 MONTH 06 YEAR 78 — RAW D. TAPE 14 JUN 78

SEQ NO	OBJECT / TYPE / PHASE	SP. TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. par stat und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	NGC7469 Galaxy	Seyfert 13.8	α 23, 00, 44.4 δ 08, 36, 16.6 R 294, 34, 14.1	L	LWR 1680 1 ± 1	105 5 OV/S.T.	0.193 .12	S	S	A	L	23:44:45	120:00	2	Mg II very good. underexp in SW part AVER. 93 MAX 212	ELVIUS / CLAVEL
	NGC 7469 Galaxy	Seyfert 13.8	α 23, 00, 44.4 δ 08, 36, 16 R	L	SWP 17988 1 ± 2	110 5 OV/ST	1.12 0.095	S	S	A	L	02:00:36	2 10:00	1	CIV, Lyα, CIII good exposure AVER. 115 MAX 174	ELVIUS / CLAVEL
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / /												AVER. MAX	

Observatory Log 15-6-78

No science operations due to loss of s/c attitude.

Observatory Log 17-6-78

No support due to power failures.

OBSERVATORY LOG DAY 19 MONTH 6 YEAR 78 RAW D. TAPE 19 JUN

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE a_V E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM. FILE PROC. DATA T.	RES CTS: ref. pnt slot und./ov.	FOCUS RXG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / D.A.
0123	γ^2 Vel 0.84	WC8 1.8	α 8, 7, 59 δ -47, 11, .. R -0, 14, 2.3	H	LWR 1691 1+1	6000 .... UN	-0.7 ..	S	S	A	L	00:42:52 ..	0:7 ..	1	Good exposure .. .. AVER. 150 MAX 255	NANDY .. .. STICKLAND
0124	γ^2 Vel 0.84	WC8 7.8	α 8, 7, 59 δ -47 11, .. R -0, 14, 2.3	H	SWP 1811 1+2	6500 2300 UN	-0.7	S	S	A	L	00:53:38	0:5	1	Good exp.. .. AVER. 120 MAX 255	NANDY .. STICKLAND
0125	S-67-297	B1I 12.7	α 5 44, 58 δ -69, 21, 31 R , ,	L	LWR 1692 1+3	150 80. OV	-0.43 0.08	S	S	A	L	02 46 59	45:0		Nothing visible not in slot AVER. MAX	NANDY .. STICKLAND
0126	S-67-297	B1I 12.7	α 5, 44, 58 δ -69, 21, 31 R , ,	L	SWP 1812 1+4	200	-0.43 0.06	S	S	A	L	04:00:45	80:0		Nothing visible. AVER. MAX	NANDY ....
			α , , ... δ , , ... R , ,												AVER. MAX	
			α , , ... δ , , ... R , ,												AVER. MAX	
			α , , ... δ , , ... R , ,												AVER. MAX	
			α , , ... δ , , ... R , ,												AVER. MAX	

OBSERVATORY LOG DAY 19 MONTH JUN YEAR 78 RAW D. TAPE 20 JUN

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v B-V	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	H.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.H. VALUES	OBSERVER / R.A.
IUE ϕ52 #3	θ MUSCAE STAR	WC 6 5.6	α 13, 04, 52 δ -65, 02, ... R / /	H	LWR 1697	19.000 4.500 OV.	+.08 ..	S	S	A	L	01 13 00	8m30s	1	GOOD IMAGE SOME PIXELS SATUR. AVER. 120 MAX 255	SELVELLI
"	"	"	α / / δ / / R / /	"	SWP 1816	18500 4100 OV.	+.35	"	"	"	-	01 45 00	6m30s	1	SLIGHTLY UNDEREXP. AVER. 120+80 MAX 175	"
[redacted]	RA TEL STAR	F6+B? 9.8	α 20, 00, 19° δ -55°, 51', 40" R / /	L	LWR 1698	350 ↓ 347 0 25	-.32 ↓ -.44	L 5	S	A	L	START 03 05 00	2m15s 15"		GOOD THR 15m EXP? (OVEREXP THR OTHER) AVER. 150 MAX 255	"
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG DAY 20 MONTH JUN YEAR 78 RAW D. TAPE 21 JUN

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v B-V	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	H.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.H. VALUES	OBSERVER / R.A.
NU ϕϕ9	GALAXY SEYFERT NGC 3516	.. ..	α 11, 03, 23 δ +72, 50, 20.4 R / /	L	SWP 1821	105 ↓ ≈0	+.03 -.045	L	S	A	L	23 38 01	300m		DECENT SPECTRUM AVER. 90 MAX 130	M.H. ULRICH P.L. SELVELLI
"	"	"	α / / δ / / R / /	L	LWR 1703	140 ↓ ~8	-.045	L	S	A	L	4h 50m	50m		SLIGHTLY UNDEREXPOSED AVER. 49 MAX 84	M.H. ULRICH P.L. SELVELLI
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG — DAY 21 MONTH JUN YEAR 78 — RAW D. TAPE 22 JUNE

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
UK β-24 127	S 67-57 B1 I STAR	12.3 -.50	α 05,11,58 δ -67,13,34 R	L	LWR 1709	220 ↓ ~5	+020	L	S	A	L	23.23.54	45m		VERY GOOD AVER. 130 MAX 194	NANDY MORGAN SELVELLI
~~β-24~~ 128	S 67-57 B1 I STAR	12.3 -.50	α δ R	L	SWP 1828	220 ↓ ~0	+040	L	S	A	L	00.22.24	70m		VERY GOOD AVER. 150 MAX 230	NANDY MORGAN SELVELLI
129 〃	S 67 111 STAR	B1 I 12.56 ~0.0	α 05,20,58 δ -67,32,02 R	L	LWR 1710	184 ↓ 10	+070	S	S	A	L	02.38	20m		VERY GOOD AVER. 185 MAX 175	〃 〃
130 〃	S 67 111 STAR	〃 〃 0.0	α δ R	〃	SWP 1829	186 ↓ ~0		S	S	A	L	03.33	20m		VERY GOOD AVER. 90 MAX 150	〃 〃
131 〃	〃 〃	〃 0.0	α δ R	〃	LWR 1711	174 ↓ ~0		S	S	A	L	04.05	35m		VERY GOOD AVER. 130 MAX 190	〃 〃
132 〃	S-69 239 STAR	10.2 B2I ~0.43	α 5,38,34 δ -69,08,07 R		SWP 1830	300 ↓ ~5		L	S	A	L	5.25	12m		NO IMAGE AVER. MAX	〃 〃
			α δ R												AVER. MAX	
			α δ												AVER. MAX	

OBSERVATORY LOG — DAY 22 MONTH 6 YEAR 78 — RAW D. TAPE 23 JUNE

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
MU 069	GALAXY NGC 3516		α 11,03,23 δ +72,50,20 R	L	SWP 1840	133 ↓ ~0	-.82	L	S	A	L	23.06	390		GOOD (Lw dot) AVER. 90 MAX 160	ULRICH M.H. SELVELLI P.L.
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	

OBSERVATORY LOG : DAY 23 MONTH 6 YEAR 78 RAW D. TAPE 25 JUN

ESR/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. phi slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
133	S-69-247 Star	B2-I 10.42 0.35	α 5h, 39m, 19s δ −69°, 31', 33" R 353, 34, 03.7	L	LWR 1720 1+1	280 5 or	-.2 .08	L	S	A	L	23:36:04	15m	2/5	B2-I or B8-I! AVER. 120 MAX 250	NANDY-MORGAN/P.B.
134	S-69-247 Star	B2-I 10.42 0.35	α 5h, 39, 19 δ −69, 31, 33 R 353, 34, 03.7	L	SWP 1844 1+2	280 1 or	-.2 .08	L	S	A	L	00:27:12	12m	4	It is a B8-I! AVER. 50 MAX 80	NANDY-MORGAN/P.B.
135	S-67-114 Star	12.1	α 5, 27, 14 δ −67°, 28', 38" R 350, 42, 16.1	L	LWR 1721 1+3	60 10		L	S	A	L	02:03:00	55m	3	Decent spectrum AVER. MAX	NANDY-MORGAN/
136	S-67-114 Star	12.1	α 5, 27, 14 δ −67, 28, 38 R 350, 42, 16.1	L	SWP 1845 1+4	60 3		L	S	A	L	03:35:47	131m	5	Good exposure AVER. 160 MAX 255	NANDY-MORGAN/P.B.
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
	C		α δ												AVER. MAX	

OBSERVATORY LOG DAY 25 MONTH 6 YEAR 78 RAW D. TAPE 25 JUNE

ESR/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. phi slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
137	S-69-247 Star	B8I 10.42 ~0	α 5, 39, 19 δ −69, 31, 33 R 352, 34, 32	L	SWP 1852 1+1	250 3	.12	L	S	A	L	00:01:44	30m	2	Good AVER. 100 MAX 200	NANDY-MORGAN /P.B.
138	S-69-108 Star	B2I 12.10 0.45	α 5, 20, 22 δ −69, 56, 09 R	L	LWR 1726 1+2	54 ~0	.08	L	S	A	L	08:23:00	45m	2	Good AVER. 100 MAX 200	NANDY-MORGAN /P.B.
139	S-69-108 Star	B2I 12.10 0.45	α 5, 20, 22 δ −69, 56, 09 R 348, 9, 41.3	L	SWP 1851 1+3	54 0	.08	L	S	A	L	02:28:34	80m	4	Quite exposed AVER. 60 MAX 100	NANDY-MORGAN
140	S-69-108	B2-I 12.1 0.45	α 5, 20, 22 δ −69, 56, 09 R 348, 9, 41.3	L	LWR 1727 1+4	57 0	.08	L	S	A	L	06:42:04	30m	2/5	Good AVER. 140 MAX 255	NANDY-MORGAN
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
	C		α δ R												AVER. MAX	

OBSERVATORY LOG DAY 26 MONTH 6 YEAR 78 RAW D. TAPE 26 JUN 78

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_V C(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.H. VALUES	OBSERVER / R.A.
	HD 181615 S	Ape 4.61	α 19, 18, 52 δ -16, 3, 2 R 298, 48, 3.4	H	SWP 1856 1+1	430 170 und./ov.	-2.7/2.7 .08	S	S	A	L	23:37:31	60:00	3	Focus changed from -2.7 to -2.7 (exp.) Temp 20°, Exposure Top Low. Diam. ON = 150 AVER. 58 MAX 105	Selvelli A.C.
	VV Cep S	M2+B 5.7	α 21, 55, 14 δ 63, 23, 13 R 310, 58, 19	L	LWR 1732 1+2	270 52 und./ov.	-1, .08	L	S	A	L	1:51:27	4:00	6	30% overexpos. AVER. 187 MAX 255	Selvelli A.C.
	BD-23 1184 S	F8 8.8	α 3h, 0, 10.8 δ -23, 0, 12.7 R , ,	L	LWR 1733	4470 63 ov./slow	0.06 .08	L	S	A	L	5137	10m		no spectrum AVER. MAX	Cassatella
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
	C		α , , δ , , R , ,			+ 26	540	[illegible]					→ 5.4h		AVER. MAX	

OBSERVATORY LOG DAY 27 MONTH 6 YEAR 78 RAW D. TAPE 27-JUNE

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_V C(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.H. VALUES	OBSERVER / R.A.
	N 49 SNR		α 5, 26, 0 δ -66, 8, 1" R 347, 31, 53	L	SWP 1861 1+1	— —	-0.1	L	S	A	L	23[illegible]:[illegible]	360	F 4	Almost no spectrum AVER. 80 MAX	Jasniewicz Blades
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
	C		α , , δ , , R , ,												AVER. MAX	

OBSERVATORY LOG — DAY 27 MONTH 6 YEAR 78 — RAW D. TAPE 28 JUN 78

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v ϵ(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
UK 0141	HD 97991 S	B2V 7.41 .01,04	α 11, 13, 38.6 δ -3, 11, 56.9 R 64, 51, 31.4	HI	SWP 1870 1+1	4400 251 ov/tot	1.11 .08	S	S	A	L	23:39:10	13:00	2	good image — may be 15% exp. more — AVER. 81 MAX 135	SNIJDERS PETTINI A.C.
UK 0142	HD 97991 S	B2V 7.41 0.01-.04	α 11, 13, 38.6 δ -3, 11, 56.9 R 64, 51, 31	HI	LWR 1739 1+2	ov	-0.3 .08	S	S	A	L	01:05:00	17:00	1	very well exposed AVER. MAX	SNIJDERS PETTINI A.C.
UK 0143	HD 148688 S	B1Ia 5.32v .53	α 16, 28, 12.7 δ -41, 42, 37.3 R / /	HI	SWP 1871 1+3	19000 12.42 ov	-0.4 .08	S	S	A	L	2:34:01	40:00	1	very well exposed AVER. MAX	SNIJDERS PETTINI A.C.
UK 0144	HD 148688 S	B1Ia 5.32 .53	α 16, 28, 12.7 δ -41, 42, 37.3 R 198, 7, 41.4	HI	LWR 1740 1+4	20000 1500 ov/tot	-0.3 .08	S	S	A	L	03:43:51	12:30	1	very well exposed AVER. 127 MAX 220	"
UK 0145	HD 152236	B1Ia 4.74 .7	α 16, 50, 28 δ -42, 16, 51 R / /	HI	SWP 1872 1+5	27500 1700 ov	.08	S	A	A	L	5:10:42	30:00	3	good images maybe 20% more AVER. 100 MAX 203	"
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
	C		α / / δ / /												AVER. MAX	

OBSERVATORY LOG — DAY 28 MONTH 6 YEAR 78 — RAW D. TAPE 29 JUN-78

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v ϵ(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	Cygnus Loop SNR	— —	α 20, 54, 45.6 δ 30, 56, 12.7 R 322, 40, 45.8	L	SWP 1877 1+1	— —	0.08	L	S	A	L	00:29:48	315:00		Good AVER. 80 MAX 250	B'DORIC O/BENSON
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
	C		α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG — DAY 29 MONTH 6 YEAR 78 — RAW D. TAPE 30 JUN 78

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
UK 146	HD 219188 I	B0.5III 6.9	α 23h 11m 28s δ +04° 43′ 00″ R 295 55 44	H	SWP 1882 1+3	5564 408 ov.	-1.4 ... -.08	S	S	A	L	22:55:58	20:00	1	AVER. 150 MAX 240	PETTINI SWINBEES / PENSTON
UK 147	HD 219187 I	B0.5III 6.9	α 23h 11m 28s δ +04° 43′ 00″ R 295 55 44	H	LWR 1749 1+4	5554 380 ov	... ... .08	S	S	A	L	23:24:21	16:00	4	AVER. MAX 255	ditto
UK 148	VV CEP S	M2Ia+sp 4.9	α 21h 55m 12s δ +63° 23′ 00″ R 314 27 59.8	L	SWP 1883 1+5	25800 (4) (6) 130 2100 ov	-0.2 ... -.20	L S	S	A	L	00:55:11 01:28:59	15:00 8:00	1	AVER. 100 MAX 255 AVER. 80 MAX 120	ditto
UK 149	VV CEP S	M2Ia+sp 4.9	α 21h 55m 12s δ +63° 23′ 00″ R 314 27 59.8	L	LWR 1750 1+6	25800 (4) (5) 130 2900 ov.	-0.4 ... -.08	L S	S	A	L	02:07:58 02:18:51	5:0 2:30	1	75 255 AVER. 150 MAX 255	ditto
UK150	HD 218915	O9.5Iab 7.2	α 23h 08m 52s δ +52° 47′ 00″ R 260 17 19.6	H	SWP 1884 1+7	5000 177 ov.	-0.1 ... -.08	S	S	A	L	03:02	55:00	5	mild o'exposure (x1.5) AVER. 150 MAX 255	ditto
UK151	HD 163506	F2Iap 5.2	α 17h 53m 24s δ +26° 03′ 00″ R 11 56 05	H	LWR 1751 1+8	18600 1640 ov.	+0.6 ... -.08	S	S	A	L	04:34:10	65:00	3	AVER. 75 MAX 180	ditto
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	

OBSERVATORY LOG — DAY 30 MONTH 6 YEAR 78 — RAW D. TAPE01 JUL 78

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	HD 152236 S	B1Ia-0 4.8 0.64	α 16h 50m 28s δ -42° 16′ 00″ R ~~206 23 29~~ 127 36 36	L	LWR 1755 1+1	317 (4) (5) 59 109 u.l.	+0.2 ... -.08	L S	S	A	L	23:10:06 23:28:12	03 :20 00:20	7 6	AVER. 235 MAX (4) 235 AVER. 235 MAX 235 (5)	WOLF / PONSTON
	HD 152236 S	B1Ia-0 4.8 0.64	α 16h 50m 28s δ -42° 16′ 00″ R ~~206 23 29~~ 122 36 36	L	SWP 1894 1+2	327 (5) (4) 135 ~~5~~ u.l.	+0.6 ... -.08	S L	S	A	L	23:50:22 23:58:03	00:10 00:20	4 3	AVER 100 MAX 240 (4) AVER. 40 MAX 80 (5)	ditto
	HD 152236 S	B1Ia-0 4.8 0.64	α 16h 50m 28s δ -42° 16′ 00″ R ~~206 23 29~~ 122 36 36	H	LWR 1756 1+3	328 126 u.l.	+1.2 ... -.08	S	S	A	L	00:46:13	7:00	1	AVER. 100 MAX 180	ditto
	HD 152236 S	B1Ia-0 4.8 0.64	α 16h 50m 28s δ -42° 16′ 00″ R ~~206 23 29~~ 122 36 36	H	SWP 1892 1+8	341 170 u.l.	+1.4 ... -.08	S	S	A	L	01:19:43	60:00	?	AVER. ? MAX ?	ditto
	~~HR~~ R 116 S	B1Ia-0 10.5 0.18	α 05h 32m 06s δ -68° 35′ 00″ R 345 04 00	L	LWR 1757 1+5	208 ... ol.	+1.3 ... -.10	L	S	A	L	03:45:51	6:0	5	AVER. 120 MAX 255	ditto
	R 116 S	B1Ia-0 10.5 0.18	α 05h 32m 06s δ -68° 35′ 00″ R 345 04 00	L	SWP 1893 1+6	228 ... 0.1	+0.5 ... -.08	L	S	A	L	04:00:17	11:00	1	AVER. 150 MAX 220	ditto
	~~HR 3583~~	A2Ia+sp 9.5mag 0.17	α 09h 18m 36s δ -69° 19′ 00″ R	L	LWR 1758 1+										AVER. MAX	
			α δ R												AVER. MAX	

OBSERVATORY LOG — DAY 01 MONTH 07 YEAR 78 — RAW D. TAPE 01 JUL 78-2

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS RKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	BR 4952	07I 5.5	α 13h 04m 52s δ −65° 02′ 00″ R 85 12 55.1	H	SWP 1899 1+1	17600 4000 ov	−1.4 −52	S	S	A	L	21:56:00	6:30	1	θ Mus AVER. 120 MAX 230	new / PENSTON
	BR 4952	07I 5.5	α 13h 04m 52s δ −65° 02′ 00″ R 85 12 55.1	H	LWR 1762 1+2	17400 4000 ov	−1.6 −48	S	S	A	L	22:11:00	8:30	5	θ Mus AVER. 160 MAX 255	ditto
	BR 4952	07I 5.5	α 13h 04m 52s δ −65° 02′ 00″ R 85 12 55.1	H	SWP 1900 1+3	17300 4000 ov.	+0.7 −10	S	S	A	L	23:36:30	10:00	5	θ Mus AVER. 180 MAX 255	ditto
	BR 4952	07I 5.5	α 13h 04m 52s δ −65° 02′ 00″ R 85 12 55.1	H	LWR 1763 1+4	17800 4600 ov	+0.7 −08	S	S	A	L	23:54:16	12:00	5	θ Mus AVER. 200 MAX 255	ditto
	HD 114710	G0V 4.3 0	α 13h 09m 32s δ +28° 08′ 00″ R 66 19 37.7	H	LWR 1764 1+5	470 171 ul.	+0.9 −08	S	S	A	L	01:24:10	34:00	5	Peak of 2796 ~120W Cal^n ~280 deep AVER. MAX 255	REGO / PENSTON
	HD 114710	G0V 4.3 0	α 13h 09m 32s δ +28° 08′ 00″ R 66 19 37.7	L	SWP 1901 1+6	499 210 ul	+0.9 −08	S	S	A	L	02:07:10	32:00	4	Ly α em ~80ZW AVER. 50 MAX 175	ditto
	HD 4614	G0V 3.4 0	α 00h 46m 03s δ +57° 53′ 00″ R 281 57 07.2	H	LWR 1765 1+7	2000 1000 (but variable) ul	+0.4 −10	S	S	A	L	03:53:05	15:00	4	Mixed ajutue? AVER. MAX 10	ditto
	HD 4614 C	G0V 3.4 0	α 00h 46m 03s δ +57° 32′ 00″ R 281 57 07.2	L	SWP 1902 1+8	2000 854 ul	0.0 −00	S	S	A	L	04:17:00	26:00	4	Mixed up ? It's a double! AVER. MAX 40	ditto

OBSERVATORY LOG — DAY 02 MONTH 07 YEAR 78 — RAW D. TAPE 02-JUL 78-01

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS RKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
UK 152	NEPTUNE L	7.7	α 254, 53, 11.5 δ −21, 12, 00.8 R 0, 37, 5.3	L	LWR 1769 1+1	2200 1600 ov	.44 .68	S	S	A	L	21:49:55	15:00	1	[illegible] AVER. 133 MAX 249	Butterworth Heck
UK 153	[illegible]	[illegible]	α [illegible] δ [illegible] R [illegible]	L	SWP 1907 1+2	2222 122	.35 .68	S	S	A	L	22:32:04	30:00	4	no signal. Sleepalkidoguided! AVER. MAX	[illegible]
UK 154	[illegible]	8.3	α 219, 45, 55.2 δ −15, 5, 1.0 R 0°, 14′, 41.6″	L	LWR 1770 1+3	1530 3270	−0.12 .08	S	S	A	L	23:51:09	30:00	6	overexposed twice AVER. 255 MAX 255	[illegible]
UK 155	[illegible]	[illegible]	α [illegible] δ [illegible] R [illegible]	L	SWP 1908 1+4	1530 2000	+.27 .08	S	S	A	L	00:32:07	60:00	4	slight signal in Ke ew part AVER. MAX	[illegible]
UK 156	[illegible]	[illegible]	α [illegible] δ [illegible] R [illegible]	L	LWR 1771 1+5	1720 1268	−.09 .08	S	S	A	L	01:32:49	15:00	6	Better than 155 but unusual sharp gradient. AVER. 185 MAX 265	[illegible]
UK 157	[illegible]	[illegible]	α [illegible] δ [illegible] R [illegible]	L	LWR 1772 1+6	1530 2200	−.09 .08	S	S	A	L	02:16:35	5:00	1	OK AVER. 119 MAX 153	[illegible]
[illegible]	VESTA L	[illegible]	α 247, 1, 30 δ −17, 15, 0.0 R 0, 26, 8.7	L	[illegible]	11895 30→8200!	[illegible] .08	L	S	A	L	03:49:05	20:00	5	impossible to track on a number of pixels but getting stuck at the edge of the cut at the appropriate time. AVER. 215 MAX 251	[illegible]
[illegible]	[illegible] C	[illegible]	α [illegible] δ [illegible] R [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] AVER. MAX	[illegible]

OBSERVATORY LOG DAY 03 MONTH 07 YEAR 78 RAW D. TAPE 03 JUL 78 - 1

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v $(B-V)$	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM. FILE PROC. DATA T.	FES CTS: ref. pnl slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
UK 158	NGC 4051 G	m14	α 12h 3m 59.6 δ 44° 49' 0 R −0° 46' 20	L	SWP 19 LL 1+1		−0.66 108	L	S	A	L	22:25:57	about 45m on the object		Problems with ABC skip - very noisy exposure Afterwards AVER. MAX	C. JORDAN H.E.C.K.
UK 159	NGC 4051 G	m14	α / δ / R /	L	SWP 19 LL 1+2	110 1.	−0.66 .08	L	S	A	L	01:47:16	85.00	4	Bright nucleus in the rect? AVER. MAX	4
			α / δ / R /												AVER. MAX	
			α / δ / R /												AVER. MAX	
			α / δ / R /												AVER. MAX	
			α / δ / R /												AVER. MAX	
			α / δ / R												AVER. MAX	
	C		α / δ / R													

OBSERVATORY LOG DAY 4 MONTH 7 YEAR 78 RAW D. TAPE 4 JUL 78

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v $(B-V)$	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM. FILE PROC. DATA T.	FES CTS: ref. pnl slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
ESA	HR 3413 AP S	Ap 5.8	α 8, 34, 23 δ −50, 47, R 23, 45, 43.1	H	SWP 1916 1+4	15000 900 ov	0.22	S	B	A	L	02:25:09	30:00	6	OK FOR SHORT WL HALF. AVER. MAX 255	STICKLAND
ESA	HR 3413 D	Ap 5.8	α 8, 34, 23 δ −50, 47, R 23, 45, 43.1	H	LWR 1780 1+5	15500 1000 ov		S	B	A	L	03:03:18	20:00	6	OK FOR REGION OUTSIDE MAXSENS. AVER. MAX 255	STICKLAND
ESA	HR 3413 S	Ap 5.8	α 8, 34, 23 δ −50, 47, R 23, 45, 43	H	SWP 1917 1+6	15000 900 ov		S	B	A	L	04:13:06	10:00	1	OK in Park Sat in 1916 AVER. MAX 180	STICKLAND
			α / δ / R /												AVER. MAX	
			α / δ / R /												AVER. MAX	
			α / δ / R												AVER. MAX	
			α / δ / R /												AVER. MAX	
	C		α / δ / R												AVER. MAX	

OBSERVATORY LOG DAY 5 MONTH 7 YEAR 78 RAW D. TAPE 5 JUL 78

SA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE mv E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref, pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
UK 1.60	MKN.509	13.1	α 310, 31, 25 δ −10, 54, 19 R 288, 48, 42	L	LWR 1725 111	?	?2	L	S	A	L	? AVER.	37 mm MAX	1	Image centered on Catalist (not QSO AA) AVER. MAX	JORDAN HECK
UK 161	MKN 335		α 00, 03, 45 δ +19, 35, 27 R	L	SWP 1919 A+2	?	?	L	S	A	L	? AVER.	Y5 mm MAX	5	Image centered on GSPC (not QSO AA) AVER. MAX	G
UK 162	NGC7469	14.	α 345, 44, 45 δ 8, 32, 15 z −0, 0, 10.5	L	SWP 1920 113	150 26	2.1 .08	L	S	A	L	00:17:37 04:37:09	33 ? 42mm	4	Probable defocus one volcano drift Artifact bad AVER. MAX	H
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
	C		α δ												AVER. MAX	

OBSERVATORY LOG DAY 6 MONTH 7 YEAR 78 RAW D. TAPE 6 JUL 78-1

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE mv E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref, pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	HD 109.358 S	C=0 4.23 0.01	α 187, 58, 29.6 δ 41, 38, 0. R −0, 20, 5.1	H	LWR 1788 111	5120 20.0 und.	−.41 1.16	S	S	A	L	22:10:53	40 mm	5	AVER. 185 MAX 255	REGO HECK
	HD109.358 S	C=0 4.23 0.01	α δ R	L	SWP 1931 111+2	1120 170 und	−2.23 0.60	S	S	A	L	23:59:52	80 mm	4	AVER. 37 MAX 64	
	HD20630	C=0 4.32 0.0	α 49, 8, 0 δ 3, 8, 0 z −0, 21, 30.4	H	LWR 1789 111+3	21000 2108 OV	1.72 .08	S	S	A	L	02:57:27	70 min	1	AVER. 112 MAX 241	dc
	"		α δ R	L	SWP 1926 111+4	41000 2000 OV	−1.55 .08	S	S	A	L	04:06:03	35 min	4	AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
	C		α δ R												AVER. MAX	

OBSERVATORY LOG DAY 7/8 MONTH 7 YEAR 78 RAW D. TAPE 7 JUL 78

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM. FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
0163	NGC 4051 SG	14	α 12, 00, 36 δ 44, 49, 00 R 84, 9, 30	L	SWP 1938	180 12 UND/SL	-2.2 0.08	L	S	A	L	00.03.05	240:00	3	Up to ~100 in em. line AVER. MAX ~255	JORDAN STICKLAND
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	

IXRAY POT

OBSERVATORY LOG DAY 9 MONTH 7 YEAR 78 ROW 9 JUL-78

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM. FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
0164	HD 152667 S binary eclipsing X-ray source	B 6.1	α 16, 53, 07 δ -40, 44, 43 R / /	H	SWP 1952 1+1	10802 512 ov 120	H. .08	S	S	A	L	21:22:46	50:00	1	AVER. 133 MAX 201	SANFORD A.C. ADAMSON
0165	Sco X-1 S ex-nova, XRay	B 13.4	α 16, 17, 04 δ -15, 31, 15 R / /	L	SWP 1953 1+2	100 32 ov 1805	1.13 .08	L	S	A	L	23:55	40:00	4	underexposed by a factor of 1.5 for the CIT and more/less AVER. 60 MAX 80 Good	same
0166	Sco X-1 name	B 13	α 16, 17, 04 δ -15, 31, 15 R / /	L	LWR 1804 1+3	100 6	.29 .08	L	S	A	L	00:48:18	40:00	3	AVER. 65 MAX 149	same
0167	Sco X-1	B 13	α 16, 17, 04 δ -15, 31, 15 R / /	L	SWP 1954 1+4	94 6	-.45 .08	L	S	A	L	02:12	60:00	3	bright well exposed at all λ's AVER. 41 MAX 146	same
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG — DAY 12 MONTH 2 YEAR 78 ROW 10 Jul 78

ESA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.H.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
0168	HZ Her X-ray source, star, .43	A 13.0	α 16, 56, 02 δ 35, 25, 05 R , ,	L	SWP 1962 1+1	91 5 ov/skb	.84 .08	L	S	A	L	21:27:27	45:00	4	underexp. a factor 2 in the cont. NV ~ 140 ON AVER. 76 MAX 116	HOWARTH CASSATELLA
0169	HZ HER A 13.	A 13.	α 16, 56, 02 δ 35, 25, 05 R , ,	L	LWR 1811 1+2	89 4 ov	.22 .08	L	S	4	L	22:15:38	40:00	2	good image AVER. 71 MAX 188	same
0170	HZ HER S :53	A 13	α 16, 56, 02 δ 35, 25, 05 R , ,	L	SWP 1963 1+3	98 6 ov	0.2 .08	L	S	A	L	23:06:21	80:00	1	NV one pix saturated AVER. 121 MAX 215	same
0171	AH HER S Nova-like X-ray	B 13	α 18, 14, 59 δ 49, 50, 54 R , ,	L	SWP 1964 1+4	110 7 ov	0.33 .08	L S	S S	A A	L L	01:44:00	20:00 35:00	2	argnt, He II 132, AVER. 54 MAX 96	same
0172	AH Her S	13	α 18, 14, 59 δ 49, 50, 54 R , ,	L	LWR 1812 1+5	76 2 ov	0.30 .08	L	S	A	L	02:11:29	30:00	1	MgII 2800 AVER. 77 MAX 188	same
0173	AM Her	13	α 18, 14, 59 δ 49, 50, 54 R , ,	L S	SWP 1965 1+6	100 8 ov	.30	L S	S S	A A	L L	2:58:10 3:16:18	5:00 25:00	1	CIV 1H 5 Ap - 96 L Ap (small) AVER. 46 MAX 65	same
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	

1 X RAY

OBSERVATORY LOG — DAY 11 MONTH 7 YEAR 78 ROW ~~10~~ 11 JUL

ESA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.H.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
ESA XRB2	HD153919 X-ray source Star	06.5f 6.6 0.52	α 17, 00, 32.7 δ -37, 46, 29 R 107, 34, 60.3	H	LWR 1817 1+1	8300 670 ov	-1.1 -1.88 → -1.55	S	S	A	L	20:23:05	40:00	6	half field of the image saturated AVER. 200 MAX 255	G. Haunreck & A. Cassatella & F. Beeckmans
ESA	HD153919 X-ray source Star	06.5f 6.6 0.52	α 17, 00, 32.7 δ -37, 46, 29 R , ,	H	SWP 1975 1+2	8300 530 ov	0.93 -1.50	S	S	A	L	21:18:37	60:00	6	overexposed at long and high cont. backgr. AVER. 200 MAX 255	same
ESA	HD153919 X-ray source Star	06.5f 6.6 0.52	α 17, 00, 32.7 δ -37, 46, 29 R , ,	L	SWP 1976 1+3	8300 ~30 ov	+1.8 0.08	L	S	A	L	23:03:19 23:12:50 23:19:41	00:20 00:30 00:40	6	overexposed at long and overlap of the 3 spectra AVER. MAX 255	same
UK 0174	V861 Sco X-Ray Star	B0Iae 6.5	α 16, 53, 6.8 δ -40, 44, 43.2 R 109, 19, 58.1	H	SWP 1977 1+4/5	11700 850 ov	+2.4 +1.5 0.08	S	S	A	L	00:48:05	50:00	5	very satisfactory few pixels saturated AVER. 147 MAX 220	HOWARTH / CASSATELLA - BEECKMANS
UK 0175	V861 Sco X-ray Star	B0Iae 6.5	α 16, 53, 6.8 δ -40, 44, 43.2 R , ,	H	LWR 1818 1+6	10200 1100 ov	1.5 0.08	S	S	A	L	01:46:08	20:00	2	very good at bright side AVER. 160 MAX 220	same
UK 0176	V861 Sco X-ray Star	B0Iae 6.5	α 16, 53, 6.8 δ -40, 44, 43.2 R , ,	H	SWP 1978 1+7	11000 30 ov	0.4 0.10	L	S	A	L	02:45:00	55:00	6	overexposed but N.V. satisfactory at short side AVER. 230 MAX 255	same
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	

IX RAY

OBSERVATORY LOG — DAY 12 MONTH 7 YEAR 78 ROW 12 JUL 78

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
ESA	HD 153919 X-Ray Star	06.5f 6.6 0.52	α 17,00,32.7 δ −37,46,29 R , ,	L	SWP 1985 1+1	8300 ~130 ~148 ov	0.5 VA.P	L	S	A	L	20:18:20 20:23:05	00:15 00:15	1	Spectra just separated (2-pixels) in part where DN ~ 80. AVER. 120 MAX 160	Hammerschlag Beckmann Castellia
ESA	HD 153919 X-Ray Star	06.5f 6.6 0.52	α 17,00,32.7 δ −37,46,29 R , ,	H	LWR 1824 1+2	8400 ~500 ov	1.3 1.8	S	S	A	L	20:32:27	33:00	6	overexposed at the long λ side only. AVER. 190 MAX 255	Jamar
ESA	HD 153919 X-Ray Star	06.5f 6.6 0.52	α 17,00,32.7 δ −37,46,29 R , ,	H	SWP 1986 1+3	8600 450 ov	1.1 1.5	S	S	A	L	21:18:21	48:00	1	good exp. AVER. 185 MAX 226	Jamar
ESA	HD 153919	—	α , , δ , , R , ,	H	LWR 1825 1+4	8400 550 ov	1.15 0.8	S	S	A	L	22:13:17	20:00	2	good exp. AVER. 135 MAX 198	Jamar
ESA	"	"	α , , δ , , R , ,	H	SWP 1987 1+5	8450 420 ov	0.7 0.20	S	S	A	L	23:04:49	35:00	1	very good exp. AVER. 140 MAX 220	Jamar
ESA	HZ Her S, X ray ·7	A-FS 14	α 16,56,02 δ +35,25,05 R 37,42,9.1.1	L	LWR 1826 1+6	79 1.0 ov	−1.6 .08	L	S	A	L	01:52:38	40:00	4	Underexposed by a factor 2 (filter was omitted!) AVER. 100 MAX 166	Jamar
ESA	HZ Her S, X ray ·7	A-FS 14	α 16,56,02 δ +35,25,05 R , ,	L	SWP 1988 1+7	78 3	−1.7 008	L	S	A	L	02:40:23	60:00	4	NE HIDN underexp. by a factor of 2, about AVER. 70 MAX 107	Jamar
			α , , δ , , R , ,												AVER. MAX	

OBSERVATORY LOG — DAY 13 MONTH 7 YEAR 78 ROW 13 JUL 7

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
ESA	HD 153919 X-Ray S	06.5f 6.6 0.52	α 17,00,32.7 δ −37,46,29 R , ,	L	SWP 1990 1+1	8250 40/13 ov	.85 ~0.8	L	S	A	L	20:57:43 21:04:14	0:16 0:16	1	Spectra well separated AVER. 115 MAX 160	Hammerschlag F. Beckmann
ESA	"	"	α , , δ , , R , ,	L	SWP 1997 1+2	8400 80 ov	1.6 0.08	L	S	A	L	21:51:59 21:58:15	0:16 0:16	1	same as above AVER. 100 MAX 146	Jamar
ESA	"	"	α , , δ , , R , ,	L	SWP 1998 1+3	8700 45/21 ov	1.7 0.08	L	S	A	L	22:49:26 22:56:32	0:16 0:16	1	good exp. Sp. well separated AVER. 121 MAX 155	Jamar
ESA	"	"	α , , δ , , R , ,	L	SWP 1999 1+4	8500 30 ov	0.7 0.08	L	S	A	L	23:44:48 23:54:11	0:16 0:16	1	AVER. 100 MAX 183	Jamar
ESA	"	"	α , , δ , , R , ,	L	SWP 2000 1+5	8200 30 ov	0.4 0.08	L	S	A	L	00:38:55 00:46:08	0:16 0:16	1	AVER. 124 MAX 180	Jamar
ESA	"	"	α , , δ , , R , ,	L	SWP 2001 1+6	8300 30 ov	−0.5 0.08	L	S	A	L	01:44:20	0:16	1	Spectrum not centered in the slit: optical effect ? AVER. 110 MAX 157	Jamar
ESA	"	"	α , , δ , , R , ,	H	SWP 2002 1+7	8300 490 ov	0.04 0.08	S	S	A	L	02:29:03	40:00	1	AVER. 140 MAX 200	Jamar
ESA	"	"	α , , δ , , R , ,	H	LWR 1827 1+8	8200 600 ov	0.6 0.08	S	S	A	L	03:16:16	24:00	1	AVER. 147 MAX 210	Jamar

OBSERVATORY LOG

DAY 14 MONTH 7 YEAR 78 ROW 14 JUL 78

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS DKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / D.A.
UK ... 177.	HD 152667 X-ray S	B 6.1	α 16h, 53, 07 δ −40, 44, 43.2 R / /	H	SWP 2011 1+1.	10300 500 ov	1.5 0.8	S	S	A	L	00:58:50	50:00	2	a few pixels at 40 around 1850Å. AVER. 144 MAX 200	Sandford / Beckman
ESA ...	SMC-X2	03/B 14.6	α 00h, 52, 57.15 δ −73, 37, 20.6 R / /	L	SWP 2012 1+2	guide star 1400 at flow track	−0.7 0.08	L	S	A	L	00:23:18	60:00	4	underexp. by a factor ~2 but star in the slot! (with a blind effort). AVER. 65 MAX 90	Tarenghi / Beckman
ESA ...	SMC-X2	09/B 14.6	α 00h, 57m, 57.15 δ −73, 37, 20.6 R / /	L	SWP 2013 1+3	"	−1.1 0.08	L	S	A	L	02:03:19	97:00	9	2h 30m should be the best exp. AVER. 90 MAX 130	Laure
...	...	...	α / / δ / / R / /												AVER. MAX	
...	...	...	α / / δ / / R / /												AVER. MAX	
...	...	...	α / / δ / / R / /												AVER. MAX	
...	...	...	α / / δ / / R / /												AVER. MAX	
...	...	...	α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG

DAY 15 MONTH 7 YEAR 78 ROW 15 JUL 7

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS DKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / D.A.
UK Ø178	LMC-X4 X-Ray bin. 0.6	0.2 ~14.0	α 05h, 32m, 47.5s δ −66, 24, 13.2 R / /	L	SWP 2019 1+1.	~50 (guide star ~20 ov (skirts)	−0.6 0.10	L	S	A	L	22:00:28	60:00		no spectrum star well identified (star in the slit?) AVER. — MAX —	HOWARTH / Beckman
UK Ø179	SMC-X1 X-Ray	0.8 13.5	α 01h, 15m, 45.2s δ −73, 42, 22.96 R / /	L	LWR 1829 1+2	~100 (guide star 17 ov skirts)	−1.9 0.08	L	S	A	L	23:44:32	35:00	5	AVER. 165 MAX 255	Laure
UK Ø180	SMC-X1 X-Ray	0.8 13.5	α 01h, 15m, 42.2s δ −73, 42, 22.96 R / /	L	SWP 2020 1+3	~150 ~60 (object in the field?)	0.08	L	S	A	L	00:45:02	35:00	1	AVER. 114 MAX 175	Laure
ESA ...	X Per X-Ray	09.5B 6.1v	α 03h, 52m, 15s δ +30°, 54', 01" R / /	H	LWR 1830 1+4	8000 487 ov	−1.4 0.08	S	S	A	L	02:34:52	80:00	9	underexp. faint but very good for bright part. AVER. 140 MAX 226	HAMMERSCHLAG BEECKMANS
ESA ...	X Per X-Ray	09.54 6.1v	α 03h, 52m, 15s δ 30°, 54', 01" R / /	H	SWP 2021 1+5	8200 460 ov	−0.7 0.08	S	S	A	L	03:23:19	80:00	4	80 min exposure with reduced but adequate time: bit hardish! underexposed by a factor 1.5 AVER. 120 MAX 166	Laure
...	...	...	α / / δ / / R / /												AVER. MAX	
...	...	...	α / / δ / / R / /												AVER. MAX	
...	...	...	α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG — DAY 16 MONTH 07 YEAR 78 ROW 16 JUL 78

A/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW NR. FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
0181	BD+75°325 S	05 9.0	α 8, 4, 43.4 δ +75, 6, 47.7 R / /	L	LWR 1838 1+1	3000 67 L.	-0.8 0.66	L 3	S	A	L	21:00:13 21:11:52	0:30 0:30	3 4	Region of interest in large field ~ 50DN above background AVER. MAX 155	STICKLAND
0182	"	"	α / " / δ / / R / /	L	SWP 2031 1+2	-3000 4 L 3 9	-0.8 0.66	L S	S	A	L	21:18:49 21:24:07	0:20 0:20	1 1	Good AVER. MAX 230	"
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG — DAY 17 MONTH 7 YEAR 78 ROW 17 JUL 78

ESA (UK) NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW NR. FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
UK 0183	HD80-8.K sup Autodesign S	A3 10.7	α 09h, 18m, 44s δ -45, 22, 02 R / /	L	SWP 2038 1+2	580 2 ov	0.84 0.64	L	S	A	L	21:09:08 21:21:19	4:20 5:00	3	Spectra very well separated - different underexposed (factor 1.5) AVER. 75 MAX 190	J. DARIUS / BEECKMANS
UK 0184	"	"	α / / δ / / R / /	L	LWR 1844 1+1	595 6 ov	0.44 0.08	L	S	A	L	21:57:15 22:08:18	8:20 6:10	5	4 pts exp. 2 pts optimal. Saturates at long side. 108 AVER 160 MAX 176 255	Jaume
UK 0185	CD-31°4800 Std. star	Std. 9.5	α 07h, 34m, 35s δ -32, 06, 12 R / /	H	~~SWP 2039~~ LWR 1845 1+3	254 7 ov	-1.1 0.08	L	S	A	L	01:11:37	150:00	6	Saturate (stack 1.5) around 1000, otherwise good exp. at most AVER. 184 MAX 255	Jaume
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG

DAY 18 MONTH 7 YEAR 78 ROW 18 JUL 78

A/UK NO.	OBJECT / TYPE PHASE I	SP.TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
ESA	RR Tel 5	E8 9.8	α 20h, 00m, 50s δ -55, 52, 04 R / /	L	LWR 1850 1+5	395 (5 kbits) 14 ov	-0.1 0.08	S	S	A	L	00:53:48	10:00	6	good exposure except saturation in em. lines at 1900 Å. AVER. 140 MAX 255	BEECKMANS
ESA			α / / δ / / R / /	L	SWP 2046 1+6	390 (26 (SA) 0 (LA)) ov	0.6 0.08	S L	S S	A A	L L	01:43:07 04:56:18	5:00 10:01	6	in both apt: em. lines saturat (LA) AVER. 111 MAX 255	"
ESA	RR Tel		α / / δ / / R / /	L	SWP 2047 1+7	402 0 ov	+1.2 0.10	L	S	A	L	03:09:15	2:00	5	saturation in 3 em. lines AVER. 34 MAX 105	"
			α / / δ / / R / /												1+1, 1+2, 1+3, 1+4 safety recal! AVER. MAX	ME & WR
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG

DAY 19 MONTH 7 YEAR 78 ROW 19-JUL

ESA/UK NO.	OBJECT / TYPE PHASE I	SP.TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
UK 186	BD-3 5357 Star	0 10.0	α 21, 58, 01 δ -02, 59, 0 R 303, 7, 33	L	SWP 2054 1+1	39 ov	+.57 0.08	BACKUP	S	A	L	22:54 00:23	16:50 13:20	6	Large ap. overexposed Small slightly overexposed AVER. MAX	JON DARIUS P.B.
UK 187	BD-3 5357 Star	0 10.0	α 21, 58, 01 δ -02, 59, 0 R 303, 7, 33	L	LWR 1855 1+2	42 ov	+1.05 0.08	B	S	A	L	00:43 01:07	14:35 10:01	2	Good exposure AVER. MAX	"
UK 188	BD-3 5357 Star	0 10.0	α 21, 58, 01 δ -2, 59, 0 R 303, 7, 33	L	SWP 2055 1+3	680 0 ov	+1.7 0.08	L	S	A	L	02:09	16:19	2	Good AVER. MAX	"
UK 189	BD+39°3226 Star	≈10.0 9.8	α 17, 44, 52 δ 39, 40, 12 R 32, 54, 24	L	LWR 1856 1+4	404 1 ov	0.08	B	S	A	L	03:04	02:20 02:20	2 5	Good Continuation of exposure AVER. MAX	"
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG

DAY 20 MONTH JULY YEAR 78 ROW 20 JULY 78

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW III. FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.H.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / P.A.
ESA	HD 141851 STAR	F2 IV 2.8	α 15,50,43 δ -63,17,— R ,,	H	LWR 1860 1+1	1800 600 UND.	-0.20	S	S	A	L	20 42	7 min ✓	5	BUT O.K. FOR Mg II AVER. 160 MAX 255	C. NICOLLIER P.L. SELVELLI
"	HD 190248 STAR	G8V 3.6	α 20,03,80 δ -67,19,00 R ,,	"	LWR 1861 1+2	860 300 UND		"	"	"	"	22 01	41 m ✓	2	Well exposed in THE LONG λ REGION AVER. 140 MAX 255	" "
"	HD 1581 STAR	G2V 4.2	α 00,17,29 δ -65,11,00 R ,,	"	LWR 1862 1+3	500 175	+1.05	"	"	"	"	25 39	31 min ✓	2	Well exposed in the long λ REGION AVER. 140 MAX 255	" "
"	HD 2151 STAR	G2IV 2.8	α 00,23,09 δ -77,32,00 R ,,	"	LWR 1863 1+4	1800 600 UND.		"	"	"	"	00 57	16 min ✓	1	VERY GOOD IN THE LONG λ REGION AVER. 160 MAX 255	" "
"	HD 12311 "	F0V 2.9	α 01,59,12 δ -61,49,— R ,,	"	LWR 1864 1+5	1777 ↓ 600		"	"	"	"	02 12 ~~03 12~~	8 min ✓	1	VERY GOOD IN THE LONG λ REGION AVER. 160 MAX	" "
"	HD 50241 "	A8V 3.3	α 06,47,41 δ -61,53,— R ,,	"	LWR 1865 1+6	1300 ↓ 449	-0.05	"	"	"	"	03 11	10 min 1 sec.	1	VERY GOOD AVER. 160 MAX 255	" "
			α ,, δ ,, R ,,												AVER. MAX	
			α ,, δ ,, R ,,										112		AVER. MAX	

OBSERVATORY LOG

DAY 21 MONTH JULY YEAR 78 ROW 21 JULY 78

ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW III. FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.H.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / P.A.
UK 190	CD -31 4800 DD 0	STAR 9.5	α 07,34,35 δ -32,06,12 R ,,	L	SWP 2072 1+1	283 ↓ 4.2 ↓ 28	-1.20	L+S	S	A	L	20 44 16 21 00 45	3m 30s 5m 40s		OVERFLOW ? BY A FACTOR ≈ 3 AVER. MAX	JON DARIUS SELVELLI P.L.
UK 191	"	"	α ,, δ ,, R ,,	L	SWP 2073 1+2	250 ↓ 30		S	S	A	L	21 49	1m 30s		VERY GOOD EXPOSURE AVER. 120 MAX 145	" "
UK 192	"	"	α ,, δ ,, R ,,	H	SWP 2074 1+3	250 ↓ 15	-1.60	S	S	A	L	22 32	180 min		VERY GOOD AVER. 150 SOME PIX. MAX 255	" "
UK 193	HD 138679 STAR	B2 III 8.9	α 15,32,31 δ -60,23,— R ,,	L	LWR 1871 1+4	1000 ↓ 250 ↓ 74		L+S	S	A	L	02 50 02 58	1m 30s 2m 00s		GOOD 150 200 AVER. 180 MAX 255	" "
UK 194	"	"	α ,, δ ,, R ,,	L	SWP 2075 1+5	100 ↓ 250 ↓	-1.05	L+S	S	A	L	03 20 03 26	1m 1m 40		VERY GOOD AVER. 150 MAX 200	" "
			α ,, δ ,, R ,,												AVER. MAX	
			α ,, δ ,, R ,,												AVER. MAX	
			α ,, δ ,, R ,,												AVER. MAX	

OBSERVATORY LOG

DAY 22 MONTH 7 YEAR 78 ROW 22-JUL-78

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.H.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	M87		α 12, 28, 17 δ 12, 40, 07 R 73, 27, 5.3	L	CWR 1876 1+1	blind offset	−0.15 0.09	L	S	A	L	21:26:48 ?	360:00 ?	4	No spectrum AVER. 100 MAX	Tarenghi R.B.
	M87 (jet)		α 12, 28, 17 δ 12, 40, 07 R 73, 27, 5.3	L	SWP 2085	blind offset	−0.15 0.09	L	S	A	L	21:22:30 ?	383:00 ?	3	Good spectrum Noisy image AVER. MAX	4 4
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG

DAY 24 MONTH 07 YEAR 78 ROW 23 JUL

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.H.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
~~ESA~~ UK	HR 6752 S	G5Ia 5.0	α 22, 57, 59 δ +56, 41, — R / /	L	SWP 2092 1+10	26000 4900	+0.96 0.12	S	S	A	L	02:42:00	60:00	5	Amazing! AVER. 160 MAX 255	STICKLAND
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	
			α / / δ / / R / /												AVER. MAX	

OBSERVATORY LOG

DAY 24 MONTH 7 YEAR 78 ROW 24-JULY-78

ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
UK 195	NGC 4151 SG	11	α 12, 08, 00.4 δ 39, 41, 02 R , ,	L	LWR 1885 1+1	61 —	-1. 0.10	L	S	A	L	20:29:18	30:00	2	Very good .6 pixel oversampled AVER. MAX 255	Baldwin P.B.
UK 196	NGC 4151 SG	11	α 12, 08, 00.4 δ 39, 41, 02 R , ,	L	SWP 2098 1+2	60 —	0.08	B	S	A	L	21:16 22:24	66 + 30	2	Very good AVER. MAX	Baldwin P.B.
UK 197	3C 273	12.8	α 12, 26, 36 δ 2°, 19, 42 R 68, 58, 38	L	LWR 1886 1+3	120 — slow	0.08	L	S	A	L	23:41	50	2	Good AVER. MAX	〃 〃
UK 198	3C 273	12.8	α 12, 26, 36 δ 2, 19, 42 R 68, 58, 38	L	SWP 2099 1+4	160 —	0.08	L	S	A	L	00:40:41	50	2	Good 1 pixel saturated in Lya AVER. MAX	〃
UK 199	3C 273	12.8	α 12, 26, 36 δ 2, 19, 42 R 68, 58, 38	L	LWR 1887 1+5	120 —	0.08	L	S	A	L	01:41:04	40	2	Good AVER. MAX	〃
UK 200	3C 273	12.8	α 12, 26, 36 δ 2, 19, 42 R 68, 58, 38	L	SWP 2100 1+6	1 1 1	1	S	S	A	L	02:31:30	70	1	Very good AVER. MAX	〃
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	

OBSERVATORY LOG

DAY 25 (Probably 25) MONTH 07 YEAR 78 ROW

ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
ESA	HD 168305 STAR	B2 5.3 B3Vn	α 18, 20, 40 δ -44, 08, 14 R 300, 05, 00	L	LWR 1893 1+1	23000 ↓S 1600 ↓L 81	-0.50	S + L	S	A	L	21/11/44	4^ 4^	5	VERY GOOD EXPOSURES (SMALL SLIT) SLIGHTLY OVER (LARGE SLIT) AVER. S 150 L MAX 255 L	SELVELLI
〃	〃 〃 〃	〃	α , , δ , , R , ,	L	SWP 2107 1+2	23400 ↓S 1600 ↓L 69	-0.50	S + L	〃	〃	〃	21/11/13	3^ 3^	1	VERY GOOD EXPOSURES AVER. S 110 L 180 MAX 255 L (some MAX)	〃 〃 〃
〃	RR Tel STAR	Symbiotic 9.8	α 20, 00, 20 δ -55, 52, 04 R , ,	H	SWP 2108 1+3	1930 Slow TR. ↓ 19	+1.7	S	S	A	L	22 5000	210^m		NO IMAGE AVER. MAX	〃 〃 〃
〃	HD 88015 STAR	B3 6.7	α 10, 05, 37 δ -48, 00, 56 R 175, 06, 36	L	LWR 1894 1+4	9800 ↓L 59 ↓S 668	+1.3	S + L	S	A	L	03 34 33	15^ 15^	1 5	VERY GOOD FOR THE SMALL SLIT SLIGHTLY OVER FOR THE LARGE SLIT AVER S 130 L 250 MAX 255 L	〃 〃 〃
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	

OBSERVATORY LOG

DAY 26 MONTH 7 YEAR 78 ROW 26-July-78

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
	N 48 SNR		α 5,26,00 δ −66,08,07 R 319,02,30.1	L	SWP2115 1+1	blind 0/not	−.94 0.08	L	S	A	L	21:14:21	385:00		AVER. MAX	TB / PB
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	

OBSERVATORY LOG

DAY 27 MONTH 7 YEAR 78 ROW 27 JULY

ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / R.A.
UIC 201	QUASAR PKS 2135-14		α 21,35,01 δ −14,46,27 R 287,31,30.5	L	SWP2128 1+1	BLIND OFFSET		L	S	A	L	3h20	17 min		NO IMAGE ! AVER. MAX	BALDWIN SELVELLI
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	

OBSERVATORY LOG

DAY 28 MONTH 7 YEAR 1978 ROW 28 JULY

ESA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS DKG.	APERT.	PREP	EXPOSE G.	READ G.	G.H.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / D.A.
ESA	HD 181615 STAR	Ap e 4.6	α 19,18,52 δ −16,03,02 R 76,01,41	H	LWR 1909 1+1	400 ↓ 100 UND	+21	S	S	A	L	23 05	10m.		IMAGES NOT DISPLAYED: BOTH TDS OUT OF USE AVER. HISTORY TAPE	SELVELLI P.L. PLS.
"	"	"	α , , δ , , R , ,	H	SWP 2136 1+2	400 ↓ 130 UND.		S	S	A	L	23 35	60m		" " AVER. MAX	" "
"	"	"	α , , δ , , R , ,	H	LWR 1910 1+3	400 ↓ 140		S	S	A	L	0152	20m		" " AVER. MAX	" "
"	"	"	α , , δ , , R , ,	H	SWP 2137 1+4	400 ↓ 150	+4.3	S	S	A	L	02 20	75m		" " AVER. MAX	" "
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	

OBSERVATORY LOG

DAY 29 MONTH JULY YEAR 1978 ROW 29 JULY

ESA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS DKG.	APERT.	PREP	EXPOSE G.	READ G.	G.H.T. hh:mm:ss	DURATION mm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / D.A.
UK 201	3C 382 GALAXY	14.7	α 18,33,12 δ +32,39, R , ,	L	LWR 1915 1+1	BLIND OFFSET	1.2	S	S	A	L	22 06	120m	5	SLIGHTLY UNDEREX. AVER. 40 MAX 120	BALDWIN PLS
UK 203	PG 0026+129 QUASAR	14.8	α 0,26,38 δ 4,12,59 R , ,	L	SWP 2148 1+2	BLIND OFFSET	1.8	S	S	A	L	0140	120m	5	SLIGHTLY UNDEREX. AVER. 60 MAX 120	BALDWIN PLS
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	
			α , , δ , , R , ,												AVER. MAX	

OBSERVATORY LOG

DAY 30 MONTH 7 YEAR 78 ROW 30 JULY

ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / N.A.
ESA	M 87 GALAXY	~10	α 12,28,18 δ 12,40, R	L	SWP 2157 1+1	-.87 →		L	S	A	L	20 59	400m	5	UNDEREXPOSED APART FROM LONG AEG. AVER. 60 - MAX 100	BERTOLA PLS
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	
			α δ												AVER. MAX	

OBSERVATORY LOG

DAY 31 MONTH JULY YEAR 78 ROW JULY 31 79

ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT.	PREP	EXPOSE G.	READ G.	G.M.T. hh:mm:ss	DURATION mmm:ss	QUALITY	COMMENTS D.N. VALUES	OBSERVER / N.A.
ESA MHAPL	VV Cep STAR	M2+B 5.7	α 21,55,14 δ 63,23,13 R	L	SWP 2162 1+1	28000 ↓ OV ↓ 2200 140 SMALL LARGE	-.2	L+S	S	A	L	20 54 S 20 58 L	1m S. 2m L.	3	SLIGHTLY UNDEREXPOS., GOOD LARGE SLIT COMP. AVER. 60 LARGE MAX 120	SELVELLI - PLS
MHAPL	" "	" "	α δ R	H	LWR 1931 1+2	27200 ↓ OV 3000 S.	+.5	S	S+X	A	L	2109	113m	3	GOOD (CH CYG) AVER. 100 MAX 255	" "
"	CH Cyg STAR	M6e ~7	α 19,23,14 δ 50,08,30 R	L	SWP 3163 1+3	11.000 ↓ 40 OV	.0007	L	S	A	L	23.35	20m	2	SLIGHTLY (VV CEP) UNDEREXPOS. IN THE STRAIGHT ARG. (LONG A) AVER. 140 MAX 255	" "
OBSERV.	P Cyg STAR	B1p 5.8	α 20,15,50.5 δ 37,52,35.6 R	L	LWR 1932 1+4	25.000 ↓ OV L S 300 4000	.06	L+S	S	A	L	00.53	20s L 20s S	5	SLIGHTLY OVEREXP. BOTH SPECTRA AVER. 180 MAX 255	SELVELLI PLS
"	P Cyg STAR	"	α δ R	L	SWP 2164 1+5	340 340 ↓3 ↓1 170 UND.		L+S	S	A	L	01 30	40s L 40s S	1	VERY GOOD IMAGE (S. SLIT) SL. OVEREXP. IN THE LARGE AVER. 120 S MAX 255 LARGE 180 L	" "
"	HR 8752 STAR	G5 5.0	α 22,57,58 δ 56,40,37 R	L	LWR 1933 1+6	25.000 ↓5 3000 L 113 OV.	-0.5	S	S	A	L	02 50	20m SMALL 1m30 LARGE		GOOD EXP. (LARGE SLIT) UNDEREXPOSED (SMALL) AVER. 150 MAX 255	" "
			α δ R												AVER. MAX	
			α δ R												AVER. MAX	

OBSERVATORY LOG — DAY 1 MONTH AUG YEAR 78 ROW AUG 1, 19 78

ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pat slot ind./ov.	FOCUS BKG.	ABSENT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK 205	NGC4151	Seyfert 11.7	α 12h, 08m, 00s δ +39°, 40', 52" R	H	SWP 2170 1±1	67	-1.22 .08	L		0 20:18:00	300:00	B	C	weak continuum + E.H. lines	T SNIJDERS J. CLAVEL
UK 206	NGC4151	Seyfert 11.7	α 12, 08, 00 δ 39, 40, 52 R	L	SWP 2171 1+2	67	0.67 .08	L		0 02:08:18	30:00	D	E	very good exp. for lines.	T SNIJDERS J. CLAVEL
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												

OBSERVATORY LOG — DAY 2 MONTH AUG YEAR 73 ROW AUG 2 78 1978

ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pat slot ind./ov.	FOCUS BKG.	ABSENT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK 207	ESO 113 G1 Galaxy	Seyf 13.2	α 11, 21, 51 δ -59, 03, 58 R	L	LWR 1959 1+1	971 3	0.61 0.08	L		0 20:07:39	45:00	E	F	very good	T. SNIJDERS CLAVEL
UK 108	ESO 113 Galaxy	Seyfert 13.2	α 11, 21, 51 δ 59, 03, 58 R	L	SWP 2172 1+2	106 3.	0.94 .08	L		0 21:16:37	45:00	D	E	perfect	T. SNIJDERS CLAVEL
UK 209	EZW1 QSO	14	α 0, 50, 58 δ 12, 25, 06 R	L	LWR 1955 1+3	54	0.66 .08	L		0 23:10:06	210:00	C	E	excellent.	T. SNIJDERS CLAVEL
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												

OBSERVATORY LOG

DAY 3 MONTH AUG YEAR 78 RAY 3 AUG 1200

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
ESA	HD149757 Star 30 Oph	0.95V 2.56 0.12	α 16, 34, 24 δ -10, 22, 00 R 75, 31, 46.2	H	SWP2186 1+1	2690 200 Partial	0.57 .10	S	C	13:58:16	1:20	E	Ø	Perfect	GRLWING CLAVEL
"	HD148184 Star B2V	4.43 0.52	α 16, 24, 07 δ -18, 21, 00 R 79, 4, 30.8	H	LWR1969 1+2	700 200 und.	0.72 .08	S	C	20:45:52	12:00	C	Ø	slightly underexposed	"
"	HD148184 Star B2V	4.43 0.53	α 16, 24, 07 δ -18, 21, 00 R 79, 4, 30.8	H	SWP2187 1+3	561 149 UND	0.72 .08	S	C	21:16:00	15:00	F	Ø	slightly overexposed	"
"	HD148184 Star B2V	4.43 0.53	α 16, 24, 07 δ -18, 21, 00 R 79, 4, 30.8	H	LWR1970 1+4	620 191	1.2 .08	S	C	2205:05	35:00	G	Ø	overexposed in the LW part	"
"	HD148184 Star B2V	4.43 0.53	α 16, 24, 07 δ -18, 21, 00 R 79, 4, 30.8	H	SWP2188 1+5	600 216 und	1.39 .08	S	C	23:50:00	9:00	E	Ø	perfect	"
"	HD149404 Star 09I	5.46 0.68	α 16, 32, 52 δ -42, 45, 00 R 93, 25, 24.4	H	LWR1971 1+6	19000 1000 ov	1.72 .08	S	C	00:20:07	60:00	E	Ø	LW part is perfect but SW part underexposed	"
"	HD149404 Star 09 I	5.46 0.68	α 16, 32, 52 δ -42, 45, 00 R 93, 25, 24.4	H	SWP2189 1+7	19000 1000	1.10 .08	S	C	01:25:37	75:00	F	Ø	overexposed in the LW part	"

OBSERVATORY LOG

DAY 4 MONTH AUG YEAR 78 RAY 4 AUG 197

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
ESA	M8=HR6445 I 9.5P	05e 5.9	α 18, 00, 48 δ -24, 21, 49 R 91, 07, 22.1	H	SWP2202 1+1	13634 593 ov	-7.6 .12	S	C	19:40:39	17:00	G	F	over exposed in LW part	GREWING CLAVEL
"	M8 I	05e 5.9	α 18, 00, 48 δ -24, 21, 49 R 91, 07, 26.6	H	LWR1982 1+2	14000 1021 ov	0.07 .18	S	C	20:49:35	26:00	G	F	over exposed in LW part	GREWING CLAVEL
"	M8 I	radio peak	α 18, 00, 37 δ -24, 22, 45 R 91, 06, 59.7	L	SWP2203 1+3	no FESCAN	-.54 .08	L	O	21:39:57	12:00	B	B	Faint Spectrum	GREWING CLAVEL
"	M8 I	radio peak	α 18, 00, 37 δ -24, 22, 45 R 91, 06, 59.7	L	LWR1983 1+4	no FESCAN	-0.33 .10	L	O	22:32:45	30:00	B	B	Faint Spectrum	"
"	M8 I	radio peak	α 18, 00, 37 δ -24, 22, 45 R 91, 06, 59.7	L	SWP2204 1+7	no FESCAN	-0.56 .08	L	O	23 16:09	60:00	B	Ø	Faint Spectrum	"
"	M8 I	05e 5.9	α 18, 00, 48 δ -24, 21, 49 R 91, 07, 26.6	H	LWR1984 1+6	14000 1000	-.39 .08	S	C	00:32:10	12:00	D	Ø	slightly weak	"
"	M8 I	05e 5.9	α 18, 00, 48 δ -24, 21, 49 R 91, 07, 26.6	H	SWP2205 1+5	13481 900	-.66 .08	S	C	01:00:02	3:00	D	Ø	slightly weak	"
"									C						

OBSERVATORY LOG

DAY 5 MONTH AUG YEAR 1978 RAN 5 AUG 78

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE a_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
210	ESO 113 Seyfert Galaxy	Seyfert 13.2	α 01h, 21m, 51.2 δ -59, 03, 58 R 257, 37, 51.1	L	SWP2215 1+1	97 3 DV	0.15 .08	L	O	19:52:10	120:00	E	G	EM lines overexposed cont. is good	SNIJDERS CLAVEL
211	I ZW1 Galaxy	14.	α 00, 50, 58 δ 12, 25, 00 R 296, 7, 20.3	L	SWP2216 1+2	3.4 4 OV	.67 .08	L	O	23:23:26	200:00	D	E	slightly underexposed	SNIJDERS CLAVEL

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PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE a_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK 13A 213	S PREP		α δ R	L	LWR007 1+1					22:30				READ STREP WITH HIGMN	R.WILSON A.C.
UK 13A 212	Q 2204-408 Quasar	17.5	α 22, 04, 33 δ -40, 51, 36 R 213, 3, .2	L	SWP2227 1+2		-0.61 .08	L		21:12	327:00			BLIND OFFSET	R.WILSON A.C.

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PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. NOW IN FILE PROC. DATA T.	FES CTS: ref. pot slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EFF	COMMENTS	OBSERVER / R.A.
VBØ32	HD200775 20	B0.5 7 .8	α 21, 00, 59 δ +67, 57, 56 R	L	LWR2009 1+1	3951 50	-1.3	S	O	21:12:00	8:00	7	0	good the 2800 bump region	CASSATELLA same
VBØ32	HD200775 20	B0.5 7 .8	α 21, 00, 59 δ +67, 57, 56 R	L	SWP2232 1+2	3980 170	-1.3	L S		22:00 22:30	5m 10m	5	0	Good on the cage Ap. - why nothing in the middle? camera not prep.	same
VBØ32	HD200775 20	B0.5 7 .8	α 21, 00, 59 δ +67, 57, 56 R	L	LWR2010 1+3	4000 170	-1.3	L		23:15	2m	3	0		same
VBØ32	V1016 Cyg 57 Symbiotic = 57	B 11.5	α 19, 55, 20 δ 39, 41, 30 R	L	LWR2011 1+4										same
VBØ32	HD200775 20		α 21, 00, 59 δ +67, 57, 56 R	L	SWP2233 1+4	4000 130	-0.03	L		01:01	7:00	1	0	No spectrum because (maybe) there was a star close by	same
VBØ32	V1016 Cyg 57 (Symbiotic)	B 11.5	α 19, 55, 20 δ 39, 41, 30 R	L	LWR2011 1+5	1605	0.2	L		01:59 02:36	40:00	1	0	LAP is SAO 69145 spectrum! SAP is V 1016 Cyg no image	same
			α δ R												
			α δ R												

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PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. NOW IN FILE PROC. DATA T.	FES CTS: ref. pot slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EFF	COMMENTS	OBSERVER / R.A.
VILSP	CAL WL +TRECORD		α δ R		SWP.22444 1+1		0 V.I. 1.80	L S	O	19:27:39	9 5 +7 5	7 5	0 0	over exposed in large aperture	A-HECK HECK A.
	RR TEL 57	10.2	α 20, 09, 20.1 δ -55, 52, 09. R 153, 52, 7.5	H	LWR 2021 1+1	49.8 5.. ov.	.02 1.00 b 0.08	L	O	20:17:24	150m.	4	6	continuum looks weak but emission lines quite saturated!	4
	XSPREP TEST Quick image XSPREP		α δ R		SWP.22445 1+2					20:39:00				Hi Read	4
	XSPREP TEST Quick image SPREP		α δ R		SWP 22446 1+3					21:11:00				Hi Read	4
4	RR TEL 57	10.2	α δ R	H	SWP.22447 1+5	387 0 o v	1.2 v. otm 0.08	L	O	22.59.22	180m	5	6	low contin. some em. lines saturated	4
	R Y	4	α δ R	L	LWR 2022 1+6	40.0 5.. ov	.012 .08	L	O	08:12:17	5m	5	6	OK. 1 cm line out.	4
			α δ R												
			α δ R												

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PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_V B-V	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EH	COMMENTS	OBSERVER / R.A.
UK 1.2 A. 214	Q1204-408 — 85	— 17.5	α 22, 07, 33.12 δ −40, 51, 36.2 R 208, 33, 45.5	L	SWP.2251 A.E.		−0.64 +0.99 1.48 0.08	L	0	19.10.51	350 m	1	1	Ly α geocoronal and spurious features	R. WILSON A. HECK
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												

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PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_V B-V	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EH	COMMENTS	OBSERVER / R.A.
UK 1.2 A. (215)	MKN 205 — 85	— 14.5	α 12h 13m 54.1s, 135°, 58', 52.7" δ 75°, 34', 59.7" R 130°, 56', 8.9"	L	SWP.3461 A.E.		−1.63 .44 .01	L	0	20.11.15	320m	1	5	ok. very good	R. WILSON A. HECK.
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / /												

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PROPOSAL	OBJECT TYPE	SP. TYPE n_V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	NULL HI-GAIN READ		α , , δ , , R , ,		LWP 1093 1+1					184000					SPROPT, 38,36 TEST 5.1 MN=	
	NULL HI-GAIN READ		α , , δ , , R , ,		LWP 1094 1+2					191700					SPROPT, 30,30 TEST 5.2 MN=	
	NULL HI-GAIN READ		α , , δ , , R , ,		LWP 1095 1+3					200500					SPROPT, 38,36 TEST 5.3 MN=	
	NULL HI-GAIN READ		α , , δ , , R , ,		LWP 1096 1+4					205500					SPROPT, 38,26 TEST 5.4 MN=	
	NULL HI-GAIN READ		α , , δ , , R , ,		LWP 1097 1+5					212500					SPROPT, 30,20 TEST 5.5 MN=	
	NULL HI-GAIN READ		α , , δ , , R , ,		LWP 1098 1+6					221000					SPROPT, 38,36 TEST 5.6 MN=	
	NULL HI-GAIN READ		α , , δ , , R , ,		LWP 1099 1+7					224000					SPROPT, 30,20 TEST 5.7 MN=	
	NULL HI-GAIN READ		α , , δ , , R , ,		LWP 1100 1+8					231500					SPROPT, 30,20 TEST 5.8 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/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
	NULL HI-GAIN READ		α , , δ , , R , ,		LWP 1101 1+9					235300					SPROPT, 32,26 TEST 5.9 MN=	
	NULL HI-GAIN READ		α , , δ , , R , ,		LWP 1102 1+10					003400					SPROPT, 32,36 TEST 5.10 MN=	
	NULL HI-GAIN READ		α , , δ , , R ,		LWP 1103 1+11					011000					SPROPT, 24,28 TEST 5.11 MN=	
	NULL HI-GAIN READ		α , , δ , , R , ,		LWP 1104 1+12					014000					SPROPT, 24,28 TEST 5.12 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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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
	NULL HI-GAIN READ		α , , δ , , R , ,		LWP 1105 1+1					184500					SPROPT, 32,32 TEST 5.13 MN=	
	"		α , , δ , , R , ,		LWP 1106 1+2					192000					SPROPT, 32,32 TEST 5.14 MN=	
	"		α , , δ , , R ,		LWP 1107 1+3					195500					SPROPT, 38,26 TEST 5.15 MN=	
	"		α , , δ , , R , ,		LWP 1108 1+4					203500					SPROPT, 26,32 TEST 5.16 MN=	
	"		α , , δ , , R , ,		LWP 1109 1+5					211500					SPROPT, 38,26 TEST 5,17 MN=	
	"		α , , δ , , R , ,		LWP 1110 1+6					214000					SPROPT, 26,32 TEST 5.18 MN=	
	"		α , , δ , , R , ,		LWP 1111 1+7					221500					SPROPT, 32,26 TEST 5.19 MN=	
	"		α , , δ , , R , ,		LWP 1112 1+8					225000					SPROPT, 32,26 TEST 5.20 MN=	

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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.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	NULL HI-GAIN READ		α , , δ , , R , ,		LWP 1113 1+9					234000					SPROPT, 32,26 TEST 5.21 MN=	
	〃		α , , δ , , R , ,		LWP 1114 1+10					001500					SPROPT, 32,26 TEST 5.22 MN=	
	〃		α , , δ , , R , ,		LWP 1115 1+11					005000					SPROPT, 32,26 TEST 5.23 MN=	
	〃		α , , δ , , R , ,		LWP 1116 1+12					014000					SPROPT, 32,26 TEST 5.24 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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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.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	NULL HI-GAIN READ		α , , δ , , R , ,		SWR 1090 1+1					194200					SAFETY READ MN=	
	〃		α , , δ , , R , ,		SWR 1091 1+2					195900					SPROPT, 54,66 MN=	
	〃		α , , δ , , R , ,		SWR 1092 1+3					202700					SPROPT, 47,66 MN=	
	NULL LOW GAIN READ		α , , δ , , R , ,		SWR 1093 1+4					210900					MN=	
	NULL HI-GAIN READ		α , , δ , , R , ,		SWR 1094 1+5					211700					TPROPT, 54,66 TEST 14.1 MN=	
	〃		α , , δ , , R , ,		SWR 1095 1+6					215200					TPROPT, 47,66 TEST 14.2 MN=	
	〃		α , , δ , , R , ,		SWR 1096 1+7					223100					TPROPT, 61,66 TEST 14.3 MN=	
	〃		α , , δ , , R , ,		SWR 1097 1+8					231000					TPROPT, 54,59 TEST 14.4 MN=	

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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
	NULL HI-GAIN READ		α , , δ , , R , ,		SWR 1098 1+9					235400					TPROPT, 54, 73 TEST 14.5 MN=	
	〃		α , , δ , , R , ,		SWR 1099 1+10					002700					SPROPT, 50, 50 TEST 15.1 MN=	
	〃		α , , δ , , R , ,		SWR 1100 1+11					005600					SPROPT, 50, 50 TEST 15.2 MN=	
	〃		α , , δ , , R , ,		SWR 1101 1+12					012500					SPROPT, 60, 50 TEST 15.3 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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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
	NULL HI-GAIN READ		α , , δ , , R , ,		SWR 1102 1+1					181500					SPROPT, 54, 56 TEST 15.4 MN=	
	〃		α , , δ , , R , ,		SWR 1103 1+2					184700					SPROPT, 60, 50 TEST 15.5 MN=	
	〃		α , , δ , , R , ,		SWR 1104 1+3					191800					SPROPT, 54, 44 TEST 15.6 MN=	
	〃		α , , δ , , R , ,		SWR 1105 1+4					194800					SPROPT, 54, 56 TEST 15.7 MN=	
	〃		α , , δ , , R , ,		SWR 1106 1+5					210100					SPROPT, 54, 48 TEST 15.8 ABORTED AT 200% TFLOOD READ, HI TO CHECK SWR. MN=	
	〃		α , , δ , , R , ,		SWR 1107 1+6					211300					SPROPT, 54, 44 TEST 15.8 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										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.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	NULL HI-GAIN READ		α ' " δ ' " R ' "		LWP 1117 1+					222000					SPROPT, 32,20 TEST 5.25 MN=	
	"		α ' " δ ' " R ' "		LWP 1118 1+					230000					SPROPT, 32,20 TEST 5.26 MN=	
	"		α ' " δ ' " R ' "		LWP 1119 1+					231500					SPROPT, 32,26 TEST 5.27 MN=	
	"		α ' " δ ' " R ' "		LWP 1120 1+					001000					SPROPT, 32,14 TEST 5.28 MN=	
	"		α ' " δ ' " R ' "		LWP 1121 1+					002500					SPROPT, 32,26 TEST 5.29 MN=	
	"		α ' " δ ' " R ' "		LWP 1122 1+					012500					SPROPT, 32,26 TEST 5.30 MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										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.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	150 % CALUV		α ' " δ ' " R ' "		LWP 1123 1+1					193500	5:19				TEST 6.1 MN=	
	SECOND READ, LO		α ' " δ ' " R ' "		LWP 1124 1+2					200200					TEST 6.2 MN=	
	HIGH-GAIN NULL		α ' " δ ' " R ' "		LWP 1125 1+3					201600					SPROPT, 32,20 TEST 5.31 MN=	
	150 % CALUV		α ' " δ ' " R ' "		LWP 1126 1+4					212600	5:19				TEST 6.3 MN=	
	SECOND READ, LO		α ' " δ ' " R ' "		LWP 1127 1+5					215400					TEST 6.4 MN=	
	HIGH-GAIN NULL		α ' " δ ' " R ' "		LWP 1128 1+6					221100					SPROPT, 32,20 TEST 5.32 MN=	
	"		α ' " δ ' " R ' "		LWP 1129 1+7					224900					SPROPT, 32,20 TEST 5.33 MN=	
	"		α ' " δ ' " R ' "		LWP 1130 1+8					232300					SPROPT, 32,20 TEST 5.34 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.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	HIGH-GAIN NULL		α , , δ , , R , ,		SWR 1108 1+9					000700					SPROPT, 50,50 TEST 15.9 MN=	
	"		α , , δ , , R , ,		SWR 1109 1+10					005400					SPROPT, 50,50 TEST 15.10 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , 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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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
	150 % CALIV		α , , δ , , R , ,		LWP 1131 1+1					180200	5:19				TEST 6.5 MN=	
	SECOND READ		α , , δ , , R , ,		LWP 1132 1+2					183500					TEST 6.6 MN=	
	150 % CALIV		α , , δ , , R , ,		SWR 1110 1+3					191600	8:49				TEST 16.1 MN=	
	SECOND READ		α , , δ , , R , ,		SWR 1111 1+4					194600					TEST 16.2 MN=	
	150 % CALIV		α , , δ , , R , ,		SWR 1112 1+5					201700	8:49				TEST 16.3 MN=	
	SECOND READ		α , , δ , , R , ,		SWR 1113 1+6					205300					TEST 16.4 MN=	
	150 % CALIV		α , , δ , , R , ,		SWR 1114 1+7					212200	8:49				TEST 16.5 MN=	
	SECOND READ		α , , δ , , R , ,		SWR 1115 1+8					215400					TEST 16.6 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.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	NULL HI-GAIN READ		α ' ' δ ' ' R ' '		LWP 1133 1+9					221100					SPROPT, 24,28 TEST 5.35 MN=	
	"		α ' ' δ ' ' R ' '		LWP 1134 1+10					224500					SPROPT, 24,28 TEST 5.36 MN=	
	TFLOOD		α ' ' δ ' ' R ' '		LWP 1135 1+11					233000	3:33				2 MN=	
	TFLOOD		α ' ' δ ' ' R ' '		SWR 1116 1+12					001200	0:30				TEST 17.1 MN=	
	TFLOOD		α ' ' δ ' ' R ' '		SWR 1117 1+13					005100	0:30				TEST 17.2 MN=	
	TFLOOD		α ' ' δ ' ' R ' '		LWP 1136 1+14					012300	1:40				TEST 7.1 MN=	
			α ' ' δ ' ' R ' '		1+										MN=	
			α ' ' δ ' ' R ' '		1+										MN=	

OBSERVATORY LOG

DATE D 17 M AUG Y 78 RAW TAPE D 17 M AUG

PAGE 1

PROPOSAL	OBJECT TYPE	SP.TYPE m_v	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	100% CALUV		α ' ' δ ' ' R ' '		SWR 1118 1+1					184200	5:52				TEST 17.3 MN=	
	TFLOOD		α ' ' δ ' ' R ' '		LWP 1137 1+2					194300	1:40				TEST 7.2 MN=	
	100% CALUV		α ' ' δ ' ' R ' '		LWP 1138 1+3					203200	3:00				TEST 7.3 MN=	
	NULL LO-GAIN		α ' ' δ ' ' R ' '		LWP 1139 1+4					215100					TEST 7.8 MN=	
	CALUV		α ' ' δ ' ' R ' '		LWP 1140 1+5					220500	3:27				TEST 7.4 MN=	
	CALUV		α ' ' δ ' ' R ' '		SWR 1119 1+6					225900	5:17				TEST 17.4 MN=	
	TFLOOD		α ' ' δ ' ' R ' '		SWR 1120 1+7					234600	0:30				TEST 17.2 MN=	
	CALUV		α ' ' δ ' ' R ' '		SWR 1121 1+8					001800	6:15				TEST 17.4 MN=	

OBSERVATORY LOG

DATE D 17 M AUG Y 78 RAW TAPE D 17 M AUG

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 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
	TFLOOD		α , , δ , , R , ,		SWR 1122 1+8					011900	0:30				TEST 17.2 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=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG DAY 18 MONTH AUG YEAR RAW 18 Aug 7

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. RAW IM.FILE. PROC.DATA T.	FES CTS: ref. pot slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK N.216	VV Cep 48	B+M2 Iaep 6.9	α 21, 55, 14.36 δ 63, 23, 13.1 R	H	LWR 2709 1+1	26589	-0.22 .08	S	C	18:56:38	120:00	4	6	Mg II emission saturated	PETTINI CASSATELLA
UK 217	I ZW 1 85	Quasar 14	α 00, 50, 57.8 δ 12, 25, 20 R	L	SWP 2333 1+2	55 und 16-	0.9 .08	L	O	23:05:41	155:00	3	4	Field at 5 KB	PETTINI CASSATELLA
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												

OBSERVATORY LOG

DATE D 19 M AUG Y 78 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 undsv/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
	CALUV		α , , δ , , R , ,		SWR 1123 1+1					182000	3:08				TEST 17.5 MN=	
	CALUV		α , , δ , , R , ,		SWR 1124 1+2					201100	2:30				TEST 17.6 MN=	
	CALUV		α , , δ , , R , ,		SWR 1125 1+3					210400	1:53				TEST 17.7 MN=	
	NULL LO-GAIN		α , , δ , , R , ,		SWR 1126 1+4					220800					TEST 17.8 MN=	
	CALUV		α , , δ , , R , ,		SWR 1127 1+5					222000	2:30				TEST 17.9 MN=	
	TFLOOD		α , , δ , , R , ,		SWR 1128 1+6					230800	0:32				TEST 17.10 MN=	
	CALUV		α , , δ , , R , ,		LWP 1141 1+7					234600	1:44				TEST 7.5 MN=	
	CALUV		α , , δ , , R , ,		LWP 1142 1+8					004300	1:23				TEST 7.6 MN=	

OBSERVATORY LOG

DAY 20 MONTH 8 YEAR 78 RAN 20 Aug 78

PROPOSAL ESA/(UK) NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK 031 UKAL 18	HD 140839 S-	06 5.04 0.57	α 22H 09 49 δ 59° 18 R	H	LWR 2148 14 1	829.00 19.00 OV	-0.42 0.90	S	C	18:58:27	10:00	G	Ø	Saturation between 2550 Å and 3000 Å OK for region of interest	TARAFDAR / BEECKMANS
UKAL 219	"	"	α 22H 09 49 δ 59 18 R	H	SWP 2343 14 2	24000 2300 OV	+0.60 0.08	S	C	17:40:39	40:00	G	G	saturation above 1700 Å and ~~fractured~~ in PCys; not in ref 1400 and 1550 Å	"
UKAL 220	HD 199081	B5V 4.72 0.02	α 20H 51 29 δ 44 12 R	H	LWR 2129 14 4	370. 120 OV	+0.80 0.08	S	C	21:57:28	4:00	G	Ø	Saturation: 2400-2550 Å OK for region of interest part of data missing in one slightly.	"
UKAL 221	"	"	α 20H 51 29 δ 44 12 R	H	SWP 2344 1.1.3	370. 101 OV	+0.36 0.08	S	C	22:07:33	5:00	G	Ø	Saturation above 1800 Å only - quality D for spectral range of interest	"
UKAL 222	HD 193322	08 5.84 0.42	α 20 16 21 δ 40 35 R	H	SWP 2345 5 (2045 repeat)	14000 1300 OV	-0.9 0.08	S	C	23:10:23	40:00	H	Ø		"
UKAL 223	"	"	α 20H 16 21 δ 40 35 R	H	LWR 2130 6	14000 1300 OV	+0.24 0.08	S	C	23:57:33	12:00	F	Ø		"
UKAL 224	"	"	α 20 16 21 δ 40 35 R	H	SWR 2346 7	14000 1300 OV	+0.7 0.08	S	C	00:36:02	25:00	G	Ø	Saturation above 1700 Å very good (D+C) for region of interest	"
UKAL 225	"	"	α 20 16 21 δ 40 35 R	H	LWR 2131 8	14000 1800 OV	+0.93 0.08	S	C	01:20:42	20:00	G	Ø	Saturation above 2400 Å, but still underexposed (C) below 2200 Å.	"

OBSERVATORY LOG — DAY 21 MONTH 8 YEAR 78 — RAN 21 AUG 78

PROPOSAL (ESA/UK NO.)	OBJECT / TYPE / PHASE	SP. TYPE / m_v / E(B-V)	RIGHT ASCENSION (1950) / DECLINATION / ROLL ANGLE	RESOL.	IMAGE NO. / RGO IM. FILE / PROC. DATA T.	FES CTS: ref. pot / slot / mod./ov.	FOCUS / BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURAT. OI. mm:ss	QUIT	EM.	COMMENTS	OBSERVER / R.A.
PSD013	HD41335 S 0.70	B2Ve 5.20 0.14	α 6h, 1m, 47.6 δ −6°, 42, 19.37 R , ,	H	SWP2355 1	22000 1600 OV	−1.43 0.08	S	C	19:39:16	5:00	E	Ø	extension time could be 6:0 to have better end at 1550Å.	F. Beechamans
"	"	1	α 6h, 1, 47.6 δ −6°, 12, 19.37 R , ,	H	LWR 2138 2	22700 1800 OV	−2.00 0.08	S	C	20:0:8	6:00	G	Ø	saturation above 2400Å ok for N-E line around 2200Å, about 50DN above background	"
"	HD37202 (γ Tau) S	B2III pec 3.80 0.05	α 5h, 34, 39.26 δ +21°, 6', 50' R , ,	H	SWP2356 3	19000 660 UN	−0.57 0.08	S	C	21:09:53	0:35	E	Ø	[illegible]	"
"	"	"	α 5, 34, 39.26 δ +21, 6, 50 R , ,	H	LWR 2139 4	1800 670 UN	−0.06 0.08	S	C	22:03:21	1:00	G	Ø	sat. between 2400 3000Å.	"
"	"	"	α H, H, H δ , , R , ,	H	SWP2357 5	1800 670 UN	−0.06 0.08	S	C	22:16:17	0:50	G	Ø	mean DN: 100 around 1550Å	"
"	"	"	α , , δ , , R , ,	L L	SWR2[illegible] 6	1900 650/16 UN	+1.4 0.08	S L	C O	22:38:12 23:43:20	0:01 0:01	G G	Ø Ø	shorter exposure not possible - Mg II likes difficult to see.	"
"	HD30836 S	B2III 3.68 0.07	α 4h, 48m, 32.5s 42 δ +5°, 31', 16"34 R , ,	H	SWP2358 7	1000 400 UN	... 0.08	S	C	00:40:05	1:[illegible]0	E	Ø	quality C around 1550Å	"
"	"	"	α , , δ , , R , ,	H	LWR 2141 8	1100 420 UN	0.05 0.08	S	C	01:08:04	1:20	G	Ø		"

OBSERVATORY LOG DAY 22 MONTH 8 YEAR 78 RAN 22 AUG 78

PROPOSAL ESA (UK) NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v $(B-V)$	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. HOW IM. FILE PROC. DATA T.	FES CTS: ref. pat slot ind./ov:	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK Ø31 226	HD 152236 S	B1Ia 4.8 0.63	α 16h 50m 32s δ -42 17 0 R	H	SWP 2368 2	340 100 UN	0.34 0.08	S	C	18:28:00	45:00	F	Ø	mean DN around 1550; ~80, max. around 1550 Å: ~250 DN	Taraf day / Beckmann
227				H	LWR 2151 1	340 120 UN	0.67 0.08	S	C	19:20:00	10:00	E	Ø	underexposed (B) by a factor 4 below 2300 Å !	"
228				H	LWR 2152 3	340 130 UN	1.01 0.08	S	C	20:24:00	40:00	G	Ø	below 2300 Å; mean DN is about 60 only and mean background at 40 DN.	"
~~229~~	~~HD 24760~~ (OAO a) S	~~B6p 4.72~~	~~α 22h 55 37 δ 42 3~~ R	~~H~~	~~SWP 2369~~			~~S~~	↙						"
229	HD 164353 S	B5Ib 3.97 0.07	α 17h 58m 8 δ +2° 56 R	H	SWP 2369 5	700 890 UN	+1.40 0.08	S	C	22:12:00	6:00	G	Ø		"
230				H	LWR 2153 4	700 230 UN	1.40 0.08	S	C	22:22:03	4:30	G	Ø	below 2300 Å: mean DN is: 65 max DN is: 130	"
231	HD 29139 S	K5III 0.86 0.0	α 4h 33 3 δ +16° 24 R	H	LWR 2154 6	9300 3900 UN	0.14 0.08	S	C	00:25:54	30:00	C	G	Mg II em. lines highly saturated otherwise line not, continuum useless for the program	"
232	HD 29139 S	"	α 4h 4m 11s δ	L	SWP 2370 7	9700 2600 UV	0.08	2	O	01:05:02	35:00	C	G	max DN in continuum is about 25 DN above background	"

OBSERVATORY LOG

DAY 23 MONTH AUG. YEAR 1978 RAY 23 AUG 197

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IM. FILE PROC. DATA T.	FES CTS: ref. pos slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EH.	COMMENTS	OBSERVER / R.A.
ESA	HR 5235 STAR	GOIV 2.7 0	α 208,04,30 δ +,18,39 R 79,22,57	H	LWR 2161 1+1	1940 600 UND.	-035	S	C	20 57	24 min			CONTINUUM SATURAT. IN THE LONG λ REGION. OVERLAP BY A FACTOR ~ 6-3 UNDERLAP IN THE SHORT λ	GÖSTA GAHM P.L. SELVELLI
~	~	~ 0	α / / δ ~ / ~ / ~ R / /	M	LWR 2162 1+2	2100 ↓ 780 UND.	-0.15	-	-	21 58	6 min			UNDEREXPOSED IN THE SHORT λ REGION. A BIT UNDERLAP. IN THE LONG λ REGION	~ ~
~	D1 CEP STAR	IC3V 11.3 ?	α 22,54,06 δ +58,24, R / /	L	SWP 2379 1+3	442 ↓ 9 UV	+0.10	L	O	23 35	125 min			CONT. UNDEREXPOSED APART FROM THE REGION AROUND 1900 Å	~ ~ ~
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												

OBSERVATORY LOG

DAY 24 MONTH AUG. YEAR 78 RAH 24 AUG 78

ROPOSAL #/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. NOW IN FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh mm ss	DURATION mm ss	CONT	FEIL	COMMENTS	OBSERVER / R.A.
233	HD 22192 STAR	B5 4.2 0.09	α 03, 32, δ +48, 02, R	H	SWP 2391 1+1	600 186 UVD	-0.30	S	C	19 50	5m	6	ø	GOOD EXPOS.	TAMAFDAR SELVELLI
234	〃	〃	α 〃 δ 〃 R	〃	LWR 2168 1+2	585 210	-0.10	〃	〃	20 02	4m	6	ø	〃 〃	〃 〃
235	HD 206165 STAR	B2 IV 4.7 0.47	α 21, 36, δ +61, 52, R	H	SWP 2392 1+3	28000 2300 OV	+0.50	S	C	21 11	50m	6	ø	〃 〃	〃 〃
236	〃	〃	α 〃 δ 〃 R	H	LWR 2169 1+4	27500 2365	+0.10	S	C	22 08	20m	7	ø	VERY INHOMOGENEOUS EXPOSURE (SATUR) & of the image is occup. & the Study underexposed, 4 ex o.k.	〃 〃
237	HD 4614 STAR	GOV 3.45 0.0	α 00, 46, 05 δ +57, 33, R	H	LWR 2170 1+5	6100 708 UVD	+0.15	S	C	23 29	25m	3	ø	Strange result. The short exposure very good for an at all similar object.	〃 〃
238	HD 217675 STAR	B6 4.72	α 22, 59, 37 δ +42, 03, R	H	SWP 2393 1+6	989 250	+0.30	S	C	01.11	2m 30	6	ø	0.K	〃 〃
239	〃	〃	α 〃 δ 〃 R	H	LWR 2171 1+7	~	+0.30	S	C	01 17	2m	5		O.K.	〃 〃

OBSERVATORY LOG

DAY 25 MONTH AUG YEAR 78 RAW 25 AUG.

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pot slot ind./ovi	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
ESA	HR 5270 STAR	K1 I 6.2 0.9	α 14,00,05 δ +09,56, R 88,37,04	L	1+1 LWR 2175	9461 ↓ 34 O.V.	-0.2	L	O	1846	15m	1	0		GAIM SELVRCLI
"	DI CRP STAR	K3 D 11.3	α 22,54,06 δ +58,24, R	L	1+2 SWP 2398	4883 8 PV Unstab - Stab PV	-0.5	L	O	2034	246m	5	4		" "
"	"	"	α δ R	L	1+3 LWR 2176	476 9→0 PV Unstab - Stab PV	-0.30	L	O	00 50	50m	3			" "
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												

OBSERVATORY LOG

DATE D 26 M AUG Y 78 RAW TAPE D 26 M AUG

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 undov/f.s	FOCUS BKG THDA	APERTURES	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	CALUV		α δ R		LWP 1143 1+1					181500	1:02				TEST 7.7 MN=	
	CALUV		α δ R		LWP 1144 1+2					183900	1:23				TEST 7. MN=	
	(FPREP) NULL		α δ R		LWP 1145 1+3					194900					TEST 8.1 MN=	
	(FPREP) NULL		α δ R		LWP 1146 1+4					200300					TEST 8.2 MN=	
	(FPREP) CALUV		α δ R		LWP 1147 1+5					202900	0:41				TEST 8.3 MN=	
	(FPREP) CALUV		α δ R		LWP 1148 1+6					210100	1:23				TEST 8.4 MN=	
	(FPREP) CALUV		α δ R		LWP 1149 1+7					213400	2:04				TEST 8.5 MN=	
	(FPREP) CALUV		α δ R		LWP 1150 1+8					220400	2:45				TEST 8.6 MN=	

OBSERVATORY LOG

DATE D 26 M AUG Y 78 RAW TAPE D 26 M AUG

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 undov/f.o	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	(FPREP) CALUV		α , , δ , , R , ,		LWP 1151 1+9					223400	3:27				TEST 8.7 MN=	
	(FPREP) CALUV		α , , δ , , R , ,		LWP 1152 1+10					230300	5:10				TEST 8.8 MN=	
	NULL LO-GAIN (FPREP)		α , , δ , , R , ,		LWP 1153 1+11					234700					TEST 8.9 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DAY 27 MONTH AUG YEAR 78 RAW 27 AUG 19

PROPOSAL ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. RAW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM	COMMENTS	OBSERVER / R.A.
ESA	HD 193495 STAR	F8V 3.07	α 20,18,12 δ -14,56, R 95,17,24.8	H	LWR 2189 1+1	~~1424~~ 571 UND	+050	S	C	18.50	15m	6	Φ	GOOD Mg II	J. BECKMAN PLS
"	δ Pav STAR	G8V 3.6	α 20,03,50 δ -66,19, R	H	LWR 2190 1+2	850 341 UND	+230	"	"	20 20	40m	6	Φ	GOOD Mg II	"
"	HD 1581 STAR	G2V 4.2	α 00,17,29 δ -65,10, R	H	LWR 2191 1+3	587 171 UND	+130	"	"	21 58	45m	6	Φ	GOOD Mg II	"
"	HD 2151 STAR	G2IV 2.8	α 00,23,09 δ -47,32,00 R	H	LWR 2192 1+4	1882 632 UND	+120	"	"	23 33	15m	6	Φ	A BIT UNDEREXPOSED Mg II	"
"	HD 12311 STAR	F0V 2.9	α 01,57,12 δ -61,49, R	H	LWR 2193 1+5	1535 696 UND	+125	"	"	00 33	7m	5	Φ	VERY GOOD FOR Mg II	"
"	HD 10700 STAR	G8V 3.5	α 1,41,45 δ -16,12,00 R	H	LWR 2194 1+6	865 341	+110	"	"	01.18	21m	4	Φ	UNDEREX P.	"
			α δ R												
			α δ								141				

OBSERVATORY LOG — DAY 28 MONTH AUG YEAR 1978 RAN 28 AUG 78

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE AT 19.45 U.T.	RESOL.	IMAGE NO. RAW IM. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / D.A.
UK ~~239~~ 240	VENUS PLANET	~GIV −4.0 ~0	α 13,14,21.5 δ −9°,56',50" R	L	LWR 2200 1+1	BLIND OFFSET	−110	S	C	19 50	15m			FLAT FIELD (PLANG COORDINAT)	P. BUTTERWORTH PLS
~~240~~ 241	VESTA ASTEROID	~G2V 7.0	α 16,48,55 δ −22,03,00 R	L	LWR 2201 1+2	50.00 ↓ 20	−150	L	D	22 23	15m	2	ϕ	UNDER FIX POSIT	
~~241~~ 242	URANUS PLANET	~G2V 6.0	α 14,40,52 δ −15,16,00 R	L	SWP 2400 1+3	7.450 1880	−165	S	C	23 31	120m	ϕ	2		
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												

OBSERVATORY LOG — DAY 29 MONTH AUG YEAR 78 RAN 29 AUG 78

PROPOSAL (ESA)/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. RAW IM. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / D.A.
obs. prog.	T Cr B star	Bc 10	α 15,52,24.5 δ 26,2,29 R 85,05,3.6	L	SWP 2412 11%	400 2.0	0.95 .08	S	C	23:40:20	120	F	F	NTW calculated but sw parked cont. a bit weak	J. CLAUL
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												

OBSERVATORY LOG — DAY 30 MONTH 08 YEAR 1978 RAL 30 AUG 2

PROPOSAL ESA/(UK) NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. NOW IM. FILE PROC. DATA T.	FES CTS: ref. pmt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
243	IID175191 star	B2.5 0.09	α 18, 52, 12 δ -26, 22, R 97, 35, 38	H	LWR2213 1+1	4300 15000 und	-.14 1.19	S	C	18:37	00:02	D	E	slightly underexposed max DN 170	BATES CLAVEL
244	"	"	α δ R	H	LWR2213 1+2	4352 14775 und	.74	S	C	19:06:55	00:12	E	E	excellent max DN 250	"
245	"	"	α δ R	H	SWP2416 1+3	4400 16755 und	+.01	S	C	19:58:54	00:25	G	G	observation	"
246	IID143275 star	B0.5 IV 2.37	α 15, 57, 23 δ -22, 29, 00 R 78, 12, 202	H	LWR2220 1+4	3400 1300 und	1.32 .44	S	C	20:54:45	00:20	E	E	excellent in LW part	"
247	"	"	α δ R	H	SWP2417 1+5	" "	.26	S	C	21:22:16	00:10	E	E	excellent	"
248	"	"	α δ R	H	LWP2221 1+6	" "	-.29 .08	S	C	21:51:24	00:40	G	G	excellent in SW part! LW part over exposed	"
249	HD116633	B1 V 0.96	α 13, 22, 42 δ -10, 24, 6 R 66, 11, 35.8	H	LWR2222 1+7	11222 4041	+.12 .08	S	C	22:48:29	00:05	E	F	excellent slightly over exp at 2500 Å	"
250	"	"	α δ	H	SWP2418 1+8	8600	-.1 .08	S	C	23:19:14	00:05	F	F	over exposed at LW end	"

OBSERVATORY LOG — DAY 30 MONTH AUG YEAR 78 RAL 30 AUG 78

ROPOSAL SA/(UK) NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. NOW IM. FILE PROC. DATA T.	FES CTS: ref. pmt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
251	star HD116633	B1V 0.96	α 13, 22, 42 δ -10, 54, 0 R 66, 11, 35.8	H	LWR2223 1+9	11000 3900 und	+.41 -.08	S	C	23:37:28	00:07	G	G	overexposed in LW part! SW part is OK	BATES CLAVEL
252	HD183737 star	B pe 4.83	α 20, 15, 50 δ +37, 53, 00 R 42, 00, 151	H	LWR2224 1+10	26000 4000 ov	-.37 .08	S	C	00:46:45	12:40	E	F	perfect MgII & little bit saturated	"
253	"	"	α δ R	H	SWP2419 1+11	26000 2475	-.42 .08	S	C	01:05:18	20:00				"
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ												

OBSERVATORY LOG — DAY 31 MONTH AUG YEAR 78 PAN 31 AUG 78

PROPOSAL / UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURAT.OB mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
	HD192163 Planetary Nebulae	VW6 7.7	α 20, 10, 17 δ +38, 12, 15 R 44, 0, 49.5	H	SWP2424 1±1	5000 ... 0V	-.12 2.42	S	C	16:40:06	60:00	I	I	completely saturated!! useless data, BKG too high	FLOWER CLAVEL
	V1016 Cyg Pl. nebulae	9.0	α 19, 55, 18 δ 39, 41, 24 R 47, 01, 16.7	H	LWR2227 1+2	270 11 0V	.7 .80	S	C	18:14:08	60:00	B	E	no continuum emission lines OK; maxDN 240	//
	//	//	α // δ // R //	H	SWP2425 1+3	250 10	.1 .1	S	C	19:20:46	20:00	B	E	no continuum emission lines OK; maxDN 180	//
	//	//	α // δ // R //	H	LWR2228 1+4	250 5	.27 .1	L	O	19:55:22	35:00	B	E	no cont. em. lines OK max DN 255	//
	//	//	α // δ // R //	H	SWP2426 1±5	255 10	+.65 .08	S	C	20:39:14	60:00	B	E	no cont. em. lines OK max DN 255 (CIII 1909)	//
	//	//	α // δ // R //	L	LWR2229 1+6	255 0	.16	L	O	21:46:49	40:00	G	I	continuum saturated between 2300 and 2950 Å	//
	//	//	α // δ // R //	L	SWP2427 1+7	250 -1	-0.55 .08	L	O	22:36:20	40:00	D	I	continuum a bit weak lines saturated	//
			α												

OBSERVATORY LOG — DAY 1 MONTH SEPT YEAR 78 PAN 1-SEP-78

PROPOSAL / UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
254	HD 38771 Star	B0.5Ia 2.04	α 5h, 42, 24 δ −9°, 41, 00 R 281, 20, 41.6	H	LWR 2233 1+1	4941 1548 UND	-1.3 3.20	S	C	16:17:05	00:14	5	ø	EXCELLENT	BATES / P.B.
255	HD 38771 Star	2.04	α 5, 45, 24 δ −9, 41, 00 R 281, 20, 41.6	H	SWP 2433 1+2	4829 1427 UND	-1.3 2.88	S	C	17:00:00	00:15	5	ø	GOOD.	BATES / P.B
256	HD 38771 star	2.04	α 5, 45, 24 δ −9, 41, 00 R 281, 20, 41.6	H	LWR 2234 1+3	4850 1690 UND	2.36	S	C	17:37:51	00:30	7	ø	GOOD - WELL EXPOSED IN THE SW	h / h
257	HD 37742 star	09.5Ib 2.05	α 5, 38, 15 δ −1, 59, — R 279, 7, 27	H	LWR 2235 1+4	6041 2682 UND	1.44	S	C	18:26:20	00:08	5	ø	GOOD IS MORE WOULD BE BETTER	h / h
258	HD 37742 star	2.05	α 5, 38, 15 δ −1, 59, — R 279, 7, 27	H	SWP 2434 1+5	5938 2542 UND	.88	S	C	18:54:00	00:09	5	ø	GOOD MAX DN ~200	h / h
259	HD 37742 star	2.05	α 5, 38, 15 δ −1, 59, — R 279, 7, 27	H	LWR 2236 1+6	5889 2675 UND	.14	S	C	19:22:20	00:15	6	ø	A BIT SATURATED IN THE Mg LINES	h / h
260	HD 37742 Star	2.05	α 5, 38, 15 δ −1, 59, — R 279, 7, 27	H	LWR 2237 1+7	5875 2277 UND	.98	S	C	19:50:39	00:12	5	ø	EXCELLENT	h / h
261	HD 37128 star	B0Ia 1.7	α 5, 33, 40 δ −1, 14, 00 R 278, 50, 05	H	LWR 2238 1+8	6126 2330 UND	-1.6 .88	S	C	20:32:30	00:16	7	ø	A BIT SATURATED IN THE LONG GOOD IN THE SHORT	h / m

OBSERVATORY LOG

DAY 1 MONTH SEP YEAR 78 RAN 1-SEP-78

PROPOSAL (UK) NO. UK #22	OBJECT / TYPE PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pat slot ind./ov.	FOCUS BKG.	APERT	AP SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM	COMMENTS	OBSERVER / R.A.
262	AD 37128 Star	1.7	α 5, 33, 40 δ −1, 14, 00 R 278, 50, 0.5	H	SWP 2455 1+9	6100 2200 UND	0.08	S	C	21:14:22	00:10	6	Ø	GOOD	BATES / P.B.
263	HD 37128 Star	1.7	α 5, 33, 40 δ −1, 14, 00 R 278, 50, 0.5	H	LWR 2259 1+10	6100 2200 UND	-.27 0.08	S	C	21:42:40	00:12	7	Ø	SATURATED (MORE THAN LWR 2258!)	" / "
264	HD 37128 Star	1.7	α 5, 33, 40 δ −1, 14, 00 R 278, 50, 0.5	H	LWR 2260 1+11	6150 2189	0.08	S	C	22:11:20	00:8	5	Ø	EXCELLENT	" / "
265	HD 36486 Star	09.5II 2.2	α 5, 29, 28 δ −0°, 20', 0 R 278, 32, 59	H	LWR 2241 1+12	3956 1400 UND	0.08	S	C	22:56:30	00:20	7	Ø	OVEREXPOSED IN THE LONG	" / "
266	HD 36486 Star	2.2	α 5, 29, 28 δ −0, 20, 0 R 278, 32, 59	H	SWP 2456 1+13	3900 1418 UND	0.08	S	C	23:23:00	00:12	7	Ø	GOOD OVEREXPOSED IN THE LONG	" / "
267	HD 36486 Star	2.2	α 5, 29, 28 δ −0, 20, 0 R 278, 32, 59	H	LWR 2262 1+14	3800 1400 UND	0.08	S	C	23:40:00	00:10			(EDS CRASH IMAGE NOT SEEN)	" / "
			α δ R												
			α δ R												

OBSERVATORY LOG

DAY 2 MONTH SEP YEAR 78 ROW 2-SEP-78

ESA UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN FILE PROC. DATA T.	EXPOS CTS: ref. pnt: slot ind./ov.	FOCUS DXG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / C.A.
	IC 4997 PN	11.2	α 20, 17, 51 δ 16, 34, 27 R 58, 30, 32	L	SWP 2451 1+1	220 8	2.70	L	O	16:45:00	10:00	2	7	HIGH BACKGROUND (DN ~ 140) DUE TO RADIATION	FLOWERS / P.B
	IC 4997 PN	11.2	α 20, 17, 51 δ 16, 34, 27 R 58, 30, 32	L	LWR 2247 1+2	220 5	2.66	L	O	17:08:00	10:00	2	4	HIGH BACKGROUND (DN ~ 70) DUE TO RADIATION	4 / 11
	HM Sge PN	10.8	α 19, 39, 48 δ 16, 38, 00 R 65, 11, 57	L	SWP 2452 1+3	200 4	1.62	L	O	18:30:15	05:00	0	4	C III 1909 ~1300N	4 / 4
	HM Sge PN	10.8	α 19, 39, 48 δ 16, 38, 00 R 65, 11, 57	L	LWR 2248 1+4	200 3	0.80	L	O	18:65:01	10:00	2	7	Mg II saturated	4 / 4
	HM Sge PN	10.8	α 19, 39, 48 δ 16, 38, 00 R 65, 31, 57	L	SWP 2453 1+4	200 3	0.20	L	O	19:20:10	09:00	1	5	C III 1909 ~ 2100N	
	HM Sge PN	10.8	α 19, 39, 48 δ 16, 38, 00 R 65, 11, 57	H	SWP 2454 1+6	200 3	0.08	S	C	20:01:51	40:00	0	2	UNDEREXPOSED	
	HM Sge PN	10.8	α 19, 39, 48 δ 16, 38, 00 R 65, 11, 57	L	LWR 2249 1+7	200 3	0.08	L	O	20:49:36	06:00	1	7	Mg II still a bit saturated (6 pixels)	
	IC 4997	11.2	α 20, 17, 51 δ 16, 34, 27 R 58, 45, 05	L	SWP 2455 1+8		6.08	L	O	21:47:40	05:00	0	5	GOOD FOR C III	

OBSERVATORY LOG

DAY 2 MONTH SEP YEAR 78 ROLL 2-SEP-78

ESA OR NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. NOW IN FILE PROC. DATA T.	FES CTS ref. pnt slot and./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	VEH.	COMMENTS	OBSERVER / C.A.
	IC 4997		α 20, 17, 51 δ 16, 34, 27 R 58, 45, 95	L	LWR 2250 1+9	220 3	0.08	C	O	22:26:45	15:00	3	4	A BIT UNDEREXPOSED BUT GOOD	FLOWERS/P.B
	IC 4997	11.2	α 20, 17, 51 δ 16, 34, 27 R 58, 45, 05	H	SWP 2456 1+10	220 11	0.08	S	C	22:59:20	45:00	0	5	ONLY CIII BUT WELL EXPOSED (~200 DN)	H / H
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												

OBSERVATORY LOG

DAY 3 MONTH SEP YEAR 78 ROW 3-Sep-78

~~SV~~/UK NO. UKØ22	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE ID. ROW IN.FILE PROC.DATA T.	TES CTS: ref. pat slos und./ov.	FOCUS ΔXG.	APERT	AP. SHUT	G.M.T. sh:mm:ss	DURATION mm:ss	CONT	EN.	COMMENTS	OBSERVER / R.A.
268	HD 34085 Star	B8Ia 0.3	α 5, 12, 06 δ -8, 15, 00 R 278, 29, 48.9	H	LWR 2259 1+1	17200 9000 und	2.94	S	C	16:37:30	00:06	5	Ø	VERY GOOD	Bates / R.B.
269	HD 34085 Star	0.3	α 5, 12, 06 δ -8, 15, 00 R 278, 29, 48.9	H	SWP2465 1+2	17200 9000 und	2.80	S	C	17:32:	00:16	6	Ø	GOOD	" / "
270	HD 22928 Star	B5III 3	α 3, 39, 24 δ 47, 38, 00 R 287, 52, 04	H	LWR 2260 1+3	1767 694 und	1.50	S	C	18:37:10	01:10	5	Ø	GOOD	" / "
271	HD 22928 Star	3	α ", ", " δ ", ", " R ", ", "	H	SWP 2466 1+4	1750 672 und	0.8	S	C	19:09:00	01:25	7	Ø	GOOD	" / "
272	HD 22928 Star	3	α ", ", " δ ", ", " R ", ", "	H	SWP 2467 1+5	1750 672 und	0.08	S	C	19:56:00	02:33	7	Ø	GOOD FOR THE SHORT	" / -
273	HD 24760 Star	B0.5I 2.9	α 3, 54, 30 δ 39, 52, 00 R 284, 30, 6	H	LWR 2261 1+6	2052 840 und	0.08	S	C	20:50:00	00:29	5	Ø	GOOD	" / "
274	HD 24760 Star	2.9	α ", ", " δ ", ", " R ", ", "	H	SWP 2468 1+7	2000 800 und	0.08	S	C	21:21:21	00:27	6	Ø	GOOD	" / "
275	HD 886 Star	B2IV 2.8	α 0, 10, 42 δ 14, 54, R 316, 53, 19	H	LWR 2262 1+8	2200 747	0.88	S	C	22:24:40	00:28	6	Ø	"	" / "

OBSERVATORY LOG

DAY 3 MONTH SEP YEAR 78 ROW 2-SEP-78

~~SCA~~ (UK) NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS ref. pos slop ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	FEH	COMMENTS	OBSERVER / P.A.
276	HD 886 Star	2.8	α 0, 10, 42 δ 14, 54, ____ R 316, 53, 69	H	SWP 2669 1x9	2000 747	0.08	S	C	22:55:00	00:25	7	8	GOOD FOR THE SHORT	BATES / P.B.
			α ____ / ____ / ____ δ ____ / ____ / ____ R ____ / ____												
			α ____ / ____ / ____ δ ____ / ____ / ____ R ____ / ____												
			α ____ / ____ / ____ δ ____ / ____ / ____ R ____ / ____												
			α ____ / ____ / ____ δ ____ / ____ / ____ R ____ / ____												
			α ____ / ____ / ____ δ ____ / ____ / ____ R ____ / ____												
			α ____ / ____ / ____ δ ____ / ____ / ____ R ____ / ____												
			α ____ / ____ / ____ δ ____ / ____ / ____ R ____ / ____												

OBSERVATORY LOG

DAY 4 MONTH SEP YEAR 78 ROW 4-SEP-78

SA EG NO.	OBJECT / TYPE / PHASE !	SP. TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. par slot und./ov.	FOCUS RKG.	APERT	AP SHUT	G.M.T. ih:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
	NGC 6572 PN	9.0	α 18, 09, 42 δ 6, 50, 37 R 79, 57, 2.5	L	SWP 2485 1+1	1220 6 ov	-.38 2.6	L	D	17:36:53	10:00	3	7	GOOD C III SATURATED	FLOWERS/P.B
	NGC 6572 PN	9.0	α , , δ , , R , ,	L	LWR 2271 1+2	1260 10 ov	2.52	L	O	17:53:00	10:00	5	5	GOOD	H/L
	NGC 6572 PN	9.0	α , , δ , , R , ,	L	SWP 2486 1+3	1174	1.70	L	O	18:26:00	03:00	3	5	C III PERFECT	H/L
	NGC 6720 PN	9.0	α 18h, 51', 44" δ 32, 57, 52 R 66, 24, 13	L	LWR 2272 1+4	Blind offset	.20	L	O	20:24:38	10:00	2	2	VERY FAINT O II EMISSION ?	H/L
	NGC 6720 PN	9.0	α , , δ , , R , ,	L	SWP 2487 1+5	Blind offset	.10	L	O	21:02:30	10:00	2	3	C IV, He II C IV ?	H/L
	NGC 6720 PN	9.0	α , , δ , , R , ,	L	LWR 2273 1+6	4 4	0.08	L	O	21:47:40	30:00	2	3	C III 1909 C II 2326 O II 2471	H/L
	NGC 6720 PN	9.0	α , , δ , , R , ,	L	SWP 2488 1+7	" "	0.08	L	O	22:32:00	60:00	3	5	VERY GOOD	H/L
			α , , δ , ,												

OBSERVATORY LOG — DAY 5 MONTH SEP YEAR 78 ROW 5-SEP-78

~~UK~~ NO. UK Ø21	OBJECT / TYPE / PHASE	SP. TYPE m_v B-V	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION m:mm:ss	CONT	EM.	COMMENTS	OBSERVER / D.A.
277	HD 41117 Star	B2Ia 4.5	α 6, 0, 57 δ 20, 08, 00 R 210, 58, 24	H	LWR 2282 1+1	3886 133 UND	-1.4 2.86	S	C	16:40:20	9:00	8	Ø	SATURATION DUE TO HIGH BACKG. (~ 11 DN)	McNALLY / PB
278	HD 41117 Star	4.5	α , , δ , , R , ,	H	LWR ~~2288~~ 2283 1+2	, ,	-0.9 2.60	S	C	17:21:35	7:00	6	Ø	STILL HIGH BCKG BUT GOOD SPECTRUM	"
279	HD 41117 Star	4.5	α , , δ , , R , ,	H	SWP 2499 1+3	, ,	-0.6 2.18 4 1.32	S	C	17:59:00	40:00	7	Ø	GOOD FOR SHORT WL BKG ~ GOOD	"
280	HD 26571 Star	B8 II 6.1	α 4, 9, 53 δ 22, 17, — R 280, 45,	H	LWR 2284 1+4	11086 693 OV	0.58	S	C	19:40:00	40:00	5	Ø	EXCELLENT	"
281	HD 26571 Star	6.1	α , , δ , , R , ,	H	SWP 2500 1+5	, ,	0.08	S	C	20:31:30	195:00	7	Ø	GOOD FOR THE SHORT WL	"
			α , , δ , , R , ,												
			α , , δ , , R , ,												
			α , ,												

OBSERVATORY LOG — DAY 6 MONTH SEP YEAR 78 ROW 6-SEP-78

~~UK~~ NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v B-V	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION m:mm:ss	CONT	EM.	COMMENTS	OBSERVER / D.A.
282	HD 152236 Star	B1Iae 4.6	α 16, 50, 28 δ -42, 17, — R 83, 47, 51	H	LWR 2290 1+1	25761 3912 OV	1.66	S	C	16:43:00	11:00	5	Ø 5	GOOD PGm ref. in Fig II	McNALLY / PB
283	HD 152236 Star	4.6	α , , δ , , R , ,	H	SWP 2507 1+2	, ,	-1.4 1.14	S	C	17:30:00	91:00	7	Ø	GOOD LONG WL SATURATED	" / "
284	HD 154368 Star	O9.5Ia 6.18	α 17, 08, 08 δ -35, 23', — R , ,	H	LWR 2291 1+3	11803 822 OV	0.08	S	C	18:58:00	43:00	5	Ø	GOOD	" / "
285	HD 154368 Star	6.18	α , , δ , , R , ,	H	SWP 2508 1+4	,	0.08	S	C	19:47:00	238:00	7	Ø	GOOD 2X OVEREXPOSED IN THE LONG WL	
			α , , δ , , R , ,												
			α , , δ , , R , ,												
			α , , δ , , R , ,												
			α , , δ , ,												

OBSERVATORY LOG — DAY 7 MONTH SEPT YEAR 1978 RUN 7 SEPT 19

SA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
ESA	H.D 192163 STAR	WN 7.7	α 20,10,17 δ 38,12,15 R	H	SWP 2517 1+1	4000 225 OV. N.TRANS	-105 201mm 1.60	S	C	16 32	60m	E	Ø	AVERAGE DN=130 IN THE CENTRE OF THE EMISSIVE HIGH RAD. BKG ≈ 120	M.C. HURLEY SELVELLI
"	HD 165763 STAR	WC 8.2	α 18,05,22 δ -21,15,41 R	H	LWR 2303 1+L	3500 250 OV. N.TRANS	-185 0.35	S	C	18 38	30m	D	E	GOOD for the emissions.	"
"	"	"	α δ R	"	SWP 2518 1+3	3450 225 OV N-TRANS	-48 .08	S	C	19 13	20m	D	E	GOOD FOR THE EMISSIONS	"
"	HD 156385 STAR	WC 7.4	α 17,15,49 δ -45,35,20 R	"	LWR 2304 1+4	6000 304 OV. N.TRANS	+050 .08	S	C	2027	35m	E	F	EMISSIONS A BIT SATUR.	"
"	"	"	α δ R	"	SWP 2519 1+5	5950 300 OV. N.TRANS	+.32 .08	S	C	2105	30m	E	F	EMISS A BIT SATUR.	"
"	H.D 151932 STAR	WN 6.6	α 16,48,48 δ -41,46,16 R	H	LWR 2305 1+6	8840 700 OV. N.TRANS	~0 1.15 .08	S	C	2201	105m	G	G	~1/5 saturated	"
"	"	"	α δ R	"	"	"	"	"	"	"	"	"	"	"	"
"	"	"	α δ R	"	"	"	"	"	"	"	"	"	"	"	"

OBSERVATORY LOG — DAY 8 MONTH SEPT YEAR 1978 RUN 8 SEPT 19

PROPOSAL SA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
ESA	α Com STAR	O9Ia 4.4	α 4,49,04 δ 66,15,39 R	H	SWP 2546 1+1	460 UND. 450 OV.	-64 1.38	S	C	16 17 39	3m	E	E	PERFECT	HJ. LAMERS P.L. SELVELLI
"	"	"	α δ R	"	SWP 2547 1+2	430	-0.71 .90	"	"	164951	"	"	"	"	"
"	"	"	α δ R	"	SWP 2548 1+3	451	+0.4 .56	"	"	17 21 06	"	"	"	"	"
"	"	"	α δ R	"	SWP 2549 1+4	472	+.92 .35	"	"	17 52 18	"	"	"	"	"
"	"	"	α δ R	"	SWP 2550 1+5	497	+.54 .18	"	"	18 23 12	"	"	"	"	"
"	"	"	α δ R	"	SWP 2551 1+6	548	+0.03 .15	"	"	18 53 47	"	"	"	"	"
"	"	"	α δ R	"	SWP 2552 1+7	535	+0.36 .08	"	"	19 25 38	"	"	"	"	"
"	"	"	α δ R	"	SWP 2553 1+8	471	-0.02 .08	"	"	19 56 32	"	"	"	"	"

OBSERVATORY LOG — DAY 8 MONTH SEPT YEAR 1978 RAL 8 SEPT 197

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EH	COMMENTS	OBSERVER / R.A.
ESA	α Com STAR	09Ie 4.4	α 4,49,04 δ+66,15,39 R , ,	H	SWP 2554 1+9	415	-10 -08	S	C	202722	3m	E	E	PERFECT	HJ LAMERS PL SELVELLI
"	"	"	α , , δ , , R , ,	"	SWP 2555 1+10	455	-92 -08	"	"	205955	—	"	"	IMAGE PARTLY ARCHIVED: TOP AND BOTTOM MISSED OPTIMUM FOCUS FOR THIS EXPOS.	"
"	"	"	α , , δ , , R , ,	"	SWP 2556 1+11	538	-47 -08	"	"	213725	—	"	"	PERFECT	"
"	"	"	α , , δ , , R , ,	"	SWP 2557 1+12	528	-98 -08	"	"	221238	—	"	"	"	"
"	"	"	α , , δ , , R , ,	"	SWP 2558 1+13	518	-65 08	"	"	230200	—	"	"	"	"
"	"	"	α , , δ , , R , ,	"	SWP 2559 1+14	—	08	"	"	233834	—	"	"	"	"
"	"	"	α , , δ , , R , ,	"	~~SWP 2560~~ 1+15	—	—	"	"	—	—	"	"	"	"
			α , , δ , ,												

OBSERVATORY LOG — DAY 9 MONTH SEP YEAR 1978 RAL 9 SEPT 197

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EH	COMMENTS	OBSERVER / R.A.
ESA	α Com STAR	09Ie 4.4	α 4,49,04 δ+66,15,39 R , ,	H	SWP 2581 1+1	255 ov	-0.2 1.75	S	C	3m ↔ 161555		E	E	SOME DEGREE OF NOISE PRESENT IN THIS IMAGE	HJ LAMERS F. MACCHITTO PL SELVELLI
"	"	"	α , , δ , , R , ,	—	LWR 2312 1+2	218 ov.	-0.1 1.40	"	"	164809	7m	G	D	SHORT λ REGION WELL EXPOSED	"
"	K Cas STAR	B1Ia 4.2	α 0,30,08 δ 62,39,22 R , ,	"	SWP 2582 1+3	209 ov	-0.20 .46	"	"	175504	10m	F	E	Very good in the short rg.	"
"	"	"	α , , δ , , R , ,	"	LWR 2313 1+4	590 LWR 190 ov	-0.35 .08	"	"	183528	6m	G		UNDEREX SHORT λ REGION OVEREXP LONG λ REGION I.S. BURP	"
"	"	"	α , , δ , , R , ,	"	SWP 2583 1+5	208 ov	-065 -08	"	"	191108	13m	F		SHORT λ REGION WELL EXPOSED	"
"	α Com STAR	09Ie 4.4	α 4,49,04 δ+66,15,39 R , ,	"	SWP 2584 1+6	254 ov	-060 08	"	"	201515	3m	E	D	Well Exposed	"
"	"	"	α , , δ , , R , ,	"	SWP 2585 1+7	261 ov	-082 08	"	"	204804	8m	E	D	Well Exposed	"
"	K Cas STAR	B1Ia 4.2	α 0,30,08 δ 62,39,22 R , ,	"	SWP 2586 1+8	201 ov	-0.9	"	"	214530	10m	F		" in the short λ Rg.	"

OBSERVATORY LOG

DAY 9 MONTH SEPT YEAR 78 RAN 9 SEPT 197

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. KOW IM.FILE PROC.DATA T.	FES CTS: ref. ant slot mod./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM	COMMENTS	OBSERVER / R.A.
ESA	K Cas STAR	B1Ia 4.2	α 0,30,08 δ 62,39,22 R	H	SWP 2587 1+9	206	-0.50 0.08	S	C	222540	10m	F		Well w the shut λ ngw	HJ LAMERS F MACCHETTO PL SELVELLI
"	"	"	α δ R	H	SWP 2588 1+10	203	-045 0.08	S	C	230714	10m	F		" "	" "
"	"	"	α δ R	H	SWP 2589	208		S	C	235613	10m	F		[illegible]	" "
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												

OBSERVATORY LOG

DAY 10 MONTH Sept YEAR 78 RAW to Sept 7

PROPOSAL ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. NOW NN. FILE PROC. DATA T.	FES CTS: ref. pair slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EFF.	COMMENTS	OBSERVER / R.A.
ESA	α Com STAR	09.5Ib 4.2	α 4,49,04 δ +66,15,39 R , ,	H	SWP 2611 1+1	. . .	. . . 0.08	S	C	15 46 10	3	E	ϕ	O.K.	H.J. LAMERS P.L. SELVELLI
"	K Cas Star	B0Ia 4.3	α 0,30,08 δ +62,39,22 R , ,	"	SWP 2612 1+2	~600 UND	-1.4 1.08	S	C	16 42 00	6	E		NOT OBSERVED ON TIME ROS	—
"	— — —	— — —	α — , — , — δ — , — , — R — , — , —	"	SWP 2613 1+3	. . . .	. . . 0.08	S	C	17 25 20	6	E		O K	—
"	α Com STAR	09.5Ib 4.2	α 4,49,04 δ 66,15,39 R , ,	"	SWP 2614 1+4	~620 UND	-1.20 0.08	—	—	18 24 52	3	D		A BIT UNDEREXP	—
"	α Com — —	— —	α — , — , — δ — , — , — R — , — , —	1	SWP 2615 1+5	. .	. . 0.08	'	.	. . 18 57 09	3	E		O.K	—
"	K Cas STAR	B0Ia 4.3	α 0,30,08 δ 62,39,22 R , ,	1	SWP 2616 1+6	~600 UND	-0.95 0.08	—	.	19 42 05	6	E		— —	—
"	K Cas STAR	— —	α — , — , — δ — , — , — R — , — , —	1	SWP 2617 1+7	. . . .	. . . 0.08	/	.	20 24 22	6	E		— —	—
"	α Com STAR	09.5Ib 4.2	α 4,49,04 δ 66,15,39 R	1	SWP 2618 1+8	~620 UND	-0.60 0.08	—	.	21 17 22	3	E		OK	—

OBSERVATORY LOG — DAY 10 MONTH SEPT YEAR 78 RAN 10 SEPT 78

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot and./ov.	FOCUS BKG.	APERT	AP. SHUT.	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
ESA	2 Com Star	0.95 4.3	α 4,49,04 δ 66,15,39 R	H	SWP 2619 1+9	~610	-0.77 0.08	S	C	215043	3m	E		OK	HJ Lemke P.L. Selvelli
"	H. Cas STAR	B0Ie 4.2	α 0,30,08 δ 62,39,22 R	H	SWP 2620 1+10	~600 UVD	-0.35 0.08	S	C	222930	6m	E		"	"
"	"	"	α δ R	H	SWP 2621 1+11		0.08	S	C	230726	6m	E		"	"
"	"	"	α δ R	H	SWP 2622 1+12	~600 UVD. →950 DV	-0.15 0.08	S	C	234330	6m	E		"	"
"	"	"	α δ R												
"	"	"	α δ R												
"	"	"	α δ R												
"	"	"	α δ R												

OBSERVATORY LOG — DAY 11 MONTH SEPT YEAR 1978 RAN 11 Sept 78

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot and./ov.	FOCUS BKG.	APERT	AP. SHUT.	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UKTOO 286	NOVA CYG (1 hour) ✓	Q 7.0	α 325°,09',34" δ+43,48,09 R 30,24,58	L	LWR 2323	9000	-1.45	S	O	16:35:00	1:00	C	D	GOOD COMBINATION	KITCHEN/ STICKLAND SELVELLI
				L	1+1	700	1.36	L	O	1:42:00	5:00	G	G		
UKTOO 287	NOVA CYG	Q 7.0	α 325°,09',34" δ+43,48,09 R 30,24,58	L	SWP 2627 1+2	9000	-0.60	S	O	17:20	1:00	3	3	SURPRISINGLY WEAK	"
				L		400	0.46	L	O	17:29	3:00	2	2		
288	HD 22192 STAR	B5e 4.3	α 3,32,56 δ+48,02,00 R	H	LWR 2324 1+3	23000 200 UVD	0.46	S	C	1845	5.00m	E		GOOD IN THE AVERAGE	KITCHEN SELVELLI
289	HD 22192 STAR	B5e 4.3	α δ R	H	SWP 2628 1+4	1600 682	-0.90 0.08	S	C	1929	6m	F		OVEREXPOSED IN LONG WAVE	
290	HD 22928 STAR	B5 3.1	α 3,39,18 δ+47,38, R	H	LWR 2325 1+5	1800 663	-1.10	S	C	2146	80 sec.	F		Some peaks saturated	
291	HD 22928 STAR	B.5 3.1	α δ R	H	SWP 2629 1+6	2000 676	-0.80 0.08	S	C	2219	105 sec.	F		Some peaks saturated	
292	HD 10516 STAR	B2ve 4.1	α 1,40,31 δ 50,26, R	H	LWR 2326 1+7	700 255	-0.30	S	C	2323	100 sec.	F			
293	TAR	S	δ ME	H	SWP 2630 1+8	700 251	-0.25 0.08	S	C	2346	120 sec.	F			

OBSERVATORY LOG — DAY 12 MONTH 09 YEAR 78 RAW 12SEPT78

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. RAW IM.FILE PROC.DATA T.	TES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK100 294	NOVA CYG	B 7.0	α 21,40,38 δ 43,48,00 R 30,24,	L	SWP2636 1+1	9200 25	-0.3 0.76	L S	O O	17:12:48 17:46:00	25:00 5:00	3 2	4 2	A couple of features at long λ and then nothing.	KITCHIN/ STICKLAND
UK100 295	NOVA CYG	B 7.0	α 21,40,38 δ 43,48,00 R 30,24,	L	LWR2335 1+2	9200 400	0.32	S L	O O	17:58:40 18:37:00	15:00 3:00	G F	G F	A good comb. Still weak ~ 2000 – 2500	"
UK 296	HD29763 STAR	B3V 4.3	α 04,39,14 δ 22,52, R	H	LWR2336 1+3	700 WD FAINT TRANK 235	+0.65 0.08	S	C	20 09 28	3m00	D	ϕ	A bit underexp.	KITCHIN / SELVELLI
297	—	—	α — δ — R —	H	SWP 2687 1+4	690 178	+0.60 0.08	"	"	20 43 20	3m00	E	ϕ	O.K.	—
298	HD21364 STAR	B8e 3.0	α 03,24,37 δ 09,34, R	H	LWR2337 1+5	865 336	+0.50 0.08	"	"	21 48 00	4m	F	ϕ	A BIT OVEREXP	—
299	—	—	α — δ — R —	H	SWP2638 1+6	980 327	0.55 0.08	"	"	22 24 00	5m	G	ϕ	OVEREXP.	—
300	HD23302 STAR	B6e 3.0	α 3,41,54 δ +23,57, R	H	LWR2338 1+7	869 301	+0.60 0.08	"	"	22 58 00	1m	D	ϕ		—
301	—	—	α —	H	SWP 2639 1+8	869 280	+0.65	"	"	23 43 00	1m45s	D	ϕ		—

OBSERVATORY LOG — DAY 13 MONTH SEP YEAR 1978 RAW 13SEP78

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. RAW IM.FILE PROC.DATA T.	TES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK028 302	HD19356 star	B8 2.13	α 03,04,55 δ +40,46, R 297,16,10.2	H	SWP2643 1+1	4000 1300 UNO	-1.4 .1	S	C	17:58:08	1:00	G	4	SW end is OK overexposed	JAMESON CLAVEL
303	"	"	α δ " R	H	LWR2345 1+2	"	-1 .42	S	C	19:04:35	0:20	D	?	SW end is underexposed LW is OK	"
304	V444 Cyg star	WN5+06 8.3	α 20,17,42 δ +38,34,0 R 56,30,6.7	L	SWP2644 1+2	2400 120 ov	.5 .08	S+L	O	20:14:57 20:19:21	0:25 1:40	C	C	underexposed	"
305	"	"	α δ " R	L	LWR2346 1+4	2400 " ov	... .08	S+L	O	? 21:08:51	0:50 3:20	D G	? ?	S.NP. weak L.N.P. overexp.	"
306	"	"	α δ " R	L	SWP2645 1+5	2400 90 ov	1.5 .08	S	O	21:42:47	6:40	D	E	continuum a bit weak.	"
307	AE AQR	BW NOVA 10→12	α 20,33,33 δ -01,03, R 85,26,57.2	L	SWP2646 1+6	413 Ø ov	2.0 .08	S	O	23:35:27	5:00 15:00				"
			α δ R												
			α δ R												

OBSERVATORY LOG — DAY 14 MONTH 09 YEAR 78 PAR 14 SEP 78

PROPOSAL (ESA)/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v B-V	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
ESA	LDP 20207 star	O3V -0.14 0.45	α 10h 42m 09.2 δ -59 24 17.3 R 347 40 41.6	L	SWP 2650 1.1.1	1792 169/100	-1.2 .64	S L	C O	17:11:23 17:17:33	1:36 0:15	E D	E D	SAP: perfect LAP: need 15% more exp	VREUX CLAVEL
"	"	"	α / / δ / / R / /	L	LWR 2350 1+2	1800 130/44	-1.2 .34	S L		17:31:40 17:37:09	1:36 0:42	F I	F F	same pixels saturated	"
	LDP 3126 star	O3V	α 10h 42m 00.5 δ -59 17 05" R 342 11 28.3	L	SWP 2651 1.1.3	blind off-id	.08	S L	C O	21:50	6:12 3:24			no spectrum star was not in aperture	"
"	NOVA CYG star	Nova 7	α 21 40 38.3 δ 43 48 09. R 34 24 41.0	L	LWR 2357 1+4	6000 91/431 und	.08	L S	O O	23:24:00 23:47:11	12:00 4:00	G E	H F	LAP saturated SAP is OK cont, EM lines saturated	Target of opportunity CLAVEL
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												

OBSERVATORY LOG — DAY 15 MONTH SEP YEAR 78 PAR 15 SEP 78

PROPOSAL (ESA)/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v B-V	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK 308	NOVA CYG star	NOVA 7.0	α 21h 40m 38.3 δ 43° 48' 09" R 35 17 48.6	L	SWP 2655 1+1	6000 10 und	-1.5 1.26	L	O	17:04:58	35:00	E	F	no data shortward of 1500 Å, CIII, Si II saturated cont satur. λ > 1900	STICKLAND CLAVEL
309	"	"	α / / δ / / R / /	L	LWR 2365 1+2	6000 468 und	.54	L S	O C	17:47:27 ?	18:00 3:00	G E	G F	saturated in LW end ok below 2300. SAP is OK λ > 2300 few pixels saturated	"
310	NE AQR star	Dw Nova "	α 20 37 33 δ -01 03 00 R 86 35 19	L	SWP 2656 1+3	320 4	-0	L	O	19:38:25	35:00	C	D	weak.	JA MESON CLAVEL
311	"	"	α / / δ / / R / /	L	LWR 2366 1+4	444 10	.48 .08	L	O	20:51:29	15:00	C	E	cont underexp, em lines OK Mg II saturated	"
312	"	"	α / / δ / / R / /	L	SWP 2657 1+5	445 5	.048 .08	L	O	21:43:43	30:00	C	D	very similar to SWP 2656	"
313	"	"	α / / δ / / R / /	L	LWR 2367 1+6	400 7	-.7 .08	L	O	22:21:11	15:00	C	E	similar to LWR 2366	"
314	"	"	α / / δ / / R / /	L	SWP 2658 1+7	392 -6	-.73 .08	L	O	23:05:20	40:00				"
			α / / δ / /												

OBSERVATORY LOG

DAY 16 MONTH SEP YEAR 78 RAN 16SEP7

PROPOSAL SA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM	COMMENTS	OBSERVER / R.A.
ESA	HD19373 star	G0V 4.04	α 03,05,27 δ +49 25 00 R 301,39,59.4	L	LWR2376 1+1	600 90 und	-2.7 -.92	L	O	16:35:51	1:15	G	G	OK below 2500 saturated for 2500<λ<2850	ARPIGNY CLAVEL
"	"	"	α , , δ , " , R , ,	L	SWP2663 1+3	615 10.9 und	-1.7 .8	L	O	16:44:58	25:00	D	D	OK above 1800 Å no data shorward of 1600 Å	"
"	"	"	α , , δ , " , R , ,	L	LWR2377 1+2	600 90 und	-.9 .15	L	O	17:29:45	0:30	E	F	much better than LWR2376. still some pixels saturated	"
"	HD19445 Star 8.06	F7 IV	α 03,05,29 δ +26,9, R 791,17,39.6	L	LWR2378 1+4	2000 6/138 ov	-.7 .08	L S	O C	19:05:46 19:23:31	10:00 10:00	G E	H F	perfect, SAP and LAP data complementary	"
"	"	"	α , , δ , " , R , ,	L	SWP2664 1+5	2000 4 ov	-.33 .16	L	O	19:40:54	40:00	E	?	excell. longward of 1700 Å no data before	"
"	HD165908 F7V 5.04	F7V 5.04	α 18h 05m 02s δ +30° 38' 00" R 83,51,03.4	L	LWR2379 1+6	23000 95/1644 ov	.08	L S	O C	21:34:30 21:40:38	0:50 0:50	G F	G F	LAP saturated 2500<λ<2800 SAP OK, few pixels saturated	"
"	HD140283 star 7.2	F7 VI	α 15,40,22 δ -10,46,00 R 81,12,23.1	L	SWP2665 1+7	4560 17	-.31 .08	L	O	-.9 22:31:09	30:00	?	?	bad: ked for λ>1900 no data for λ<1550	"
"	"	"	α , , δ , " , R , ,	L	LWR2380 1+8	4400 18/500	.08	L S	O C	23:21:08	4:30 4:30	G F	G F	SAP & LAP complementary; same pixels	"

OBSERVATORY LOG

DAY 17 MONTH 09 YEAR 78 RAN 17 SEPT

PROPOSAL ESA/UK NO. 09	OBJECT / TYPE / PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM	COMMENTS	OBSERVER / R.A.
315	INTER PLANETARY SPACE	/ - -	α 4,2,22 δ +21,53,00 R 281,43,6.1	L	SWP 2674 1+1	-	-1.6 → 0.66 →	L S	O O	16:48:13	30:00	Φ	3	No signal from small ap nearly of moon	THONEMANN + WILLIAMS STICKLAND
316	HD25680 ST	G5V 6.9 -	α , , δ , " , R , ,	H	LWR 2388 1+2		-1.7 → 0.08 →	L	O	17:20:00	25:00	Φ	3	Interesting reversal in Mg II	STICKLAND
317	INTER PLANETARY SPACE	- - -	α , , δ , " , R , ,	H	SWP 2675 1+3	-		L S	O O	18:00:00	345:00	Φ	5	Perfect !	THONEMANN + WILLIAMS STICKLAND
			α , , δ , " , R , ,												
			α , , δ , " , R , ,												
			α , , δ , " , R , ,												
			α , , δ , " , R , ,												
			α , , δ , " , R , ,												

OBSERVATORY LOG — DAY 10 MONTH OCT YEAR 78 PAGE 17 OF P 77

PROPOSAL (ESA)/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pat slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:m:s:s	DURATION m:m:s:s	CONT	EM.	COMMENTS	OBSERVER / R.A.
ESIP	HD69190	B9Ie	α 8, 12, 78	L	LWR2395	13000	-2.3	L	O	16:29:32	4:00	D	D	weak; max DN ≤ 130, no data short wards of 2400 Å	SWINGS
		8.5	δ -41, 23,		1+1	5.	.72								CLAVEL
		.5	R 298, 34, 39.6												
"	"	"	α , ,	L	SWP2684	13000	-1.3	L	O	16:58:42	45:00	C	D	underexposed by a factor 2	"
			δ , ,		1+2	5	.64								
			R , ,												
"	HD194212	B1e	α 10°, 53', 58"	L	LWR2396	1600	-.7	L	O	18:36:44	10:00	G	G	over exposed 2400 < λ < 2850	"
		8.7	δ -60°, 07',		1+3	10/86	.08	S	C	18:55:37	50:00	G	G		
			R 346, 26, 24.7												
"	"	"	α , ,	L	SWP2685	1600	-.98	L	O	20:02:48	30:00	V	H	overexposed	"
			δ , ,		1+4	14	.12								
			R , ,												
"	"	"	α , ,	L	LWR2397	1600	-1.3	L	O	20:41:52	2:00	E	F	continuum peaked for λ > 2400 focus pixels saturated	"
			δ , ,		1+7	10	.02								
			R , ,												
"	"	"	α , ,	L	SWP2686	1600	-1.1	L	C	21:29:02	4:00	D	E	a bit weak	"
			δ , ,		1+5	4	.02								
			R , ,												
"	ASCA B	P2V	α 16, 26, 20	H	SWP2687	11000	-1.6			21:44:16	10:00	G	G	over exposed good at Lyα	"
		5.5	δ -26, 20		1+6	2000	.08	L	O						
			R 74, 32, 55.7			und									
"	"	"	α , ,	H	SWP2628	17000				23:27:55	3:00	E	E	perfect exposure	"
			δ , ,		1+7	1000	.02	L	O						
			R , ,												

OBSERVATORY LOG — DAY 19 MONTH 09 YEAR 78 PAGE 19 SEPT

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pat slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:m:s:s	DURATION m:m:s:s	CONT	EM.	COMMENTS	OBSERVER / R.A.
318	Nova Cyg 78	Nova	α 21, 40, 38.3	Lo	LWR2407	3200	-0.65	S	O	17:37:40	2:00	5	6	MgII sat + one or 2 others.	STICKLAND
		6.6	δ 43, 48, 09		1+1	200 → 184	0.08								
			R , ,					L	O	17:45:21	10:01	7	7	OK for 2200	
319	NOVA CYG	Q	α 21, 40, 38	Lo	SWP 2697	3100	-0.65	S	O	18:03:16	30:00	5	7	Good.	STICKLAND
		~8.0	δ 43, 48, 09		1+2		0.08								
			R , ,					L	O	18:38:29	2:0	2	3	Could have had 5m	
320	HD142669	B2V	α 15, 53, 48	L	LWR2408	120		S	C	19:51:55	00:01	S		MAXG both exposed properly 2400 looks → MING ~ EXP.	VAN BREDA WHITE T.
		4.2	δ -29, 4,		1+3		0.08							MING ~ EXP.	
		0.00	R , ,			und		L	O	19:56	00:03	S		MAXG DN 4 1/3 -	CASSATELLA
321	HD142669	B2V	α 15, 53, 48	L	SWP2698	170		L	O	20:29:11	2	4		MING ~ EXPOSE	same
		4.2	δ -29, 4,		1+4		0.08								
		0.00	R , ,			und		S	C	20:34:46	1	S		MAXG	
322	HD147889	B2V	α 16, 22, 23	L	LWR2409	2500		S	C	21:31:45	6:00	S		2200 bump visible.	same
		7.9	δ -24, 21,		1+5	140	0.08								
		1.08	R , ,												
323	HD147889	B2V	α 16, 22, 23	L	SWP2699	2600		S	C	22:12:50	12:00	5		good image all over the whole λ range.	same
		7.9	δ -24, 21,		1+6	180	0.08								
		1.08	R , ,												
324	HD147889	B2V	α 16, 22, 23	L	LWR2410	2550			L	O	18:48:23	20:00	8	good also 2200 bump.	same
		1.9	δ -24, 21,		1+7	158	0.08	S	C	23:25:14	7:00	6		Low mix maintained	
		1.08	R 79, 36, 50.6												
			α , ,												
			δ , ,												
			R , ,												

OBSERVATORY LOG — DAY 20 MONTH SEP YEAR 78 RAN 20 SEP 7

PROPOSAL (ESA/UK) NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pos slot ind./ov.	FOCUS RKG.	APERT	AP. SHUTT	G.M.T. h:m:m:s	DURATION m:m:s	CONT	EM.	COMMENTS	OBSERVER / R.A.
	HD45677	B2IVe 8.5 ~.3	α 6, 25, 59 δ −13, 01, R , ,	L	LWR2416 1+1	1250	−1.81 .08	L S	O C	16:42:10 16:48:50	1:30 10:00	7 8	ϕ ϕ	ux ~ 1st exp. overexp ~~used~~	SWINGS (PSA13) CASSATELLA
	HD45677	B2IVe 8.5	α 6, 25, 59 δ −13, 01, R , ,	L	SWP2707 1+3	1200 .3	−1.8 −.08	L	O	~~17:43:51~~ 17:43:51	2:00	6	ϕ	good spectrum with some pixels saturated	"
	HD45677	B2IVe 8.5	α 6, 25, 59 δ −13, 01, R , ,	H	LWR2417 1+4	1250	−1.4	L	O	17:54:14	75:00	5	8	good exp for the continuum - Em. lines saturated	"
	HD45677	B2IVe 8.5	α 6, 25, 59 δ −13, 01, R , ,	H	LWR2418 1+5	...	−.64	L	O	19:43:10	12:00				
	HD93162	WN6 8.1 .72	α 10, 42, 14.2 δ −59, 27, 24.37 R 340, 55, 19	L	SWP2708 1+6	2159	−.41	S L	C O	20:13:04 21:00:00	6:00 5:30	8 9		overexposed by a factor 1.5 —	VREUX (PSA13) SWINGS A-C
	HD93162	WN6 8.1 .72	α 10, 41, 14.2 δ −59, 27, 24.37 R 340, 55, 19	L	SWP2709 1+7	2172	−.039	L S	O C	22:25:46 22:35:20	2:00 2:00	6 5	ϕ ϕ	Poor profiles — won't this emission	H.
	HD93205	O3V 7.75 .37	α 10, 42, 31.4 δ −59, 28, 28 R 340, 55, 19	L?	SWP2710 1+8	2990	−1.6	S L	C O	23:23:30 23:29:11	00:40 00:20	?			please fill in
	HD93162	WN6 8.1	α 10, 41, 14.2 δ −59, 27, 24.4	L	LWR2419 1+8	2200	−1.6	L	O	22:03:00	2:00	?			"

OBSERVATORY LOG — DAY 21 MONTH SEP YEAR 78 RAN 21 SEP 7

PROPOSAL (ESA/UK) NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pos slot ind./ov.	FOCUS RKG.	APERT	AP. SHUTT	G.M.T. h:m:m:s	DURATION m:m:s	CONT	EM.	COMMENTS	OBSERVER / R.A.
325	HD37805	A5 8.6	α 5, 38, 32 δ −2, 20, R 270, 41, 3.6	L	SWP2718 1+1	3700 240	.08	S	C	17:15:30	1:30	2	ϕ	traces of spectrum only in the long λ end — This star was not	VAN BREDA WHITTET CASSATELLA
326	HD37805	A5 8.6	α 5, 38, 32 δ −2, 20, R 270, 41, 3.6	L	LWR2425 1+2	3326 220 19.	−.08	S L	C O	17:45:09 19:00:00 (1800?)	0:45 2:15	3 6	ϕ ϕ	foreseen in the pg. It should have been HD37903 whose POT	"
327	HD37805	A5 8.6	α 5, 38, 32 δ −2, 20, R 270, 41, 3.6	L	SWP2720 1+3	3300 205 12	.08	S L	C O	18:38:36 18:27:40	4:00 4:00	7 3	ϕ ϕ	coordinates were wrong —	"
328	HD50707 20	B1V 4.8	α 6, 51, 23 δ −20, 10, 00 R , ,	L	LWR2426 1+4	57 149	.08	L S	O C	19:55:00 19:59:00	0:05 0:02	8 6	ϕ ϕ		"
329	HD50707 20	B1V 4.8	α 6, 51, 23 δ −20, 10, 00 R , ,	L	SWP2721 1+5	151	.08	S	O	20:09:24	0:04	8	ϕ	overexp a factor 2 or 3 —	"
330	HD147701 20	B1V 8.4 0.7	α 16, 21, 19 δ −24, 54, 00 R , ,	L	LWR2427 1+6	1600 112 36	.08	S L	C O	22:13:23 22:17:56	10:00 30:00	7 9	ϕ ϕ	overexp x 1.5 overexp x 4	"
331	HD147701 20	B1V 8.4 0.7	α 16, 21, 19 δ −24, 54, 00 R , ,	L	SWP2722 1+7	1600 72	.08	S	C	23:25:28	18:00	5	ϕ	microfilm — noise, above.	"
			α , , δ , , R , ,												

OBSERVATORY LOG — DAY 22 MONTH 09 YEAR 78 PAN 22 SEP 78

PROPOSAL ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. NOW IN. FILE PROC. DATA T.	FES CTS: ref. pos slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / D.A.
332	HD 50707 S	B1 III 4.8 0.0	α 06h 51m 23s δ -20 10 00 R 275 16 18.7	L	LWR 2434 1+1	400 123 und	-1.5 .08	S	C	16:49:14	0:01	D	D	a bit weak	VAN BREDA CLAVEL
333	"	"	α / / δ / / R / /	L	SWP 2731 1+2	400 142 und	-1.7 .06	S	O	17:44:01	0:01	F	F	some pixels saturated	"
334	HD 37061 I	B1 V 6.8 0.7	α 05h 33m 04s δ -05° 18' 00 R 769,52, 11	L	LWR 2435 1+3	6111. 100 ov	-.8 .08	S 2	O O	18:48:56	1:00 3:00	G H	G H	LWP saturated SAP, OK λ<2400 λ>2900	"
335	"	"	α / / δ / / R / /	L	SWP 2732 1+4	6000 450 ov	-.8 .08	S	C	19:04:09	4:00	I	I	badly saturated	"
336	HD 37990 I	B1 V 7.8	α 05 39 07 δ -02 12 00 R 220 11 480	L	LWR 2436 1+5	2500 200	-.603 .08	S	O	21:41:48	0:40	D	D	underexposed below 2400 Å abit weak after	"
337	"	"	α / / δ / / R / /	L	LWR 2437 1+7	1500 200/20	. .08	S L	C O	22:15:50 22:22:53	0:40 1:30	E F	E F	good after 2400 good before 2400	"
338	"	"	α / / δ / / R / /	L	SWP 2733 1+6	2500 200	+1.2 -.8	S	O	22:52:00	1:00	E	E	perfect exposure	
			α / / δ / / R / /												

OBSERVATORY LOG — DAY 23 MONTH SEPT YEAR 78 PAN 23 SEPT -1

PROPOSAL ESA/UK NO.	OBJECT / TYPE PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. NOW IN. FILE PROC. DATA T.	FES CTS: ref. pos slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / D.A.
339	L2 DUP ST	gM5e 3.1	α 7, 12, 00 δ -44, 34, 00 R 282, 57, 55.2	Hi	LWR 2448 1+12 or 3 ?	400 UND	-2.3 0.54	S	C	16:52:00	53:00	1	1	NOTHING or a lot of particles ? even RFlux variable	STICKLAND
340	NOVA CYG	Q 8.5	α 21, 40, 38 δ +43, 48, / R / /	Lo	LWR 2449 1+6 ?	2400 160	0.64	L S	O O	22:56:00 23:11:58	8:0 2:0	4 5	7 6	Good, complementary exps.	"
341	"	"	α / / δ / / R / /	Lo	SWP 2742 1+6 ?	"	-0.14 0.64	S L	O O	23:20:00 23:43:00	20:0 3:0	4 4	7 5	v good combination	"
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												

OBSERVATORY LOG

DATE D 24 M SEPT Y 78 RAW TAPE D 24 M SEP

PAGE 1

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	OBSERVER / RESIDENT ASTRONOMER
	SAFETY READ		α , , δ , , R , ,		LWP 1161 1+1					165300					MN=	
	(FPREP) NULL		α , , δ , , R , ,		LWD 1162 1+2					171600					MN=	
	WLCAL		α , , δ , , R , ,		LWP 1163 1+3					181500	1:20				TEST 9.2 MN=	
	CALUV		α , , δ , , R , ,		LWP 1164 1+4					184500	2:04				TEST 9.3 MN=	
	WLCAL		α , , δ , , R , ,		LWP 1165 1+5					200700	2:40				TEST 9.4 MN=	
	CALUV		α , , δ , , R , ,		LWP 1166 1+6					203200	2:04				TEST 9.5 MN=	
	CALUV MED. GAIN		α , , δ , , R , ,		LWP 1167 1+7					212100	1:22				TEST 10.1 MN=	
	CALUV		α , , δ , , R , ,		LWP 1168 1+8					225300	5:31				TEST 10.2 MN=	

OBSERVATORY LOG

DATE D 24 M SEP Y 78 RAW TAPES D 24 M SEP

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 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
	SECOND READ		α , , δ , , R , ,		LWP 1165 1+9					233100					TEST 10.3 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=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DAY 25 MONTH SEPT YEAR 78 RAW 25SEPT-1

OPOSAL /UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v B-V	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. RAW TAPE-FILE PROC. DATA T.	FES CTS: ref. pn: slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EH.	COMMENTS	OBSERVER / R.A.
	-41° 7727	B1V 9.43 0.46	α 16, 50, 38 δ -41, 43, 10.0 R 77, 37, 30.6	L	SWP 2761 1+1	631 37 und ov	-1.05 0.12	L L	0	16 34 07 16 48 15	00:25 2:28	4	0		AIELLO - GUIDI PENSTON
	"	"	α " δ " R	L	LWR 2462 1+2	627 - und ov	-15 0.08	L	0	17 44 42	9:00	8	0	ok for 2200 + to 2500	"
	"	"	α " δ " R	L	LWR 2463 1+3	627 - und ov	?	L	0	18:28:00	4:00	7	0	ok to 2600	"
	-41° 7753	B1V 9.83 0.53	α 16, 51, 05 δ -41, 48, 00 R 77, 37, 30.6	L	SWP 2762 1+4	364 4 und ov	-1.2 0.08	L	0	19:29:	12:00	6	0		"
	"	"	α " δ " R	L	LWR 2464 1+5	364 9,44 und ov	-1.2 0.12	L S	0	20: 11:36 20: 41:35	15:00 15:00	7 6	0 0	ok at 2200	"
	HD 150288	B5V 8.67 0.37	α 16, 38, 38 δ -46, 55, 00 R 72, 55, 26	L	SWP 2763 1+6	1221 74 und ov	-1.3 0.86	S	0	22:00:	4:00	5	0		"
	HD 31726	B1V 6.14 0.04	α 04, 55, 27.3 δ -14, 18, 28 R 264, 32, 51	L	LWR 2465 1+8	1236 34 und ov	0.08	L	0	23:15	00:03	6	0	~10 saturated pixels	"
	"	"	α " δ " R	L	SWP 2764 1+7	12000 27 ov	0.08	L	0	23:20	00:01:5	3	0	Pk DN = 100	"

OBSERVATORY LOG

DAY 26 MONTH SEP YEAR 1978 PAGE 26SEPT-1

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v $(B-V)$	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. RGN IM. FILE PROC. DATA T.	TES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT.	AP. SHUT	G.H.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
	HD 36512	B0V 4.02 0.04	α 05, 29, 30.6 δ −07, 20, 13 R 267, 33, 11.5	L	SWP 2773 1+1	460 202 und	−2.5 0.08	S	C	16:43:43	00:01	1	0	I picked up 255	GUIDI - ATELLO PENSION.
	"	"	α , , δ , , R , ,	L	LWR 2468 1+2	443 175 und	0.03	S	C	17:32	00:01	5	0		"
	+34° 1039	B0IV 4.22 0.48	α 05, 25, 22 δ +34, 58, 00 R 275, 35, 27	L	SWP 2774 1+3	708 43 ov	+0.2 0.03	S	C	18:43:53	4:00	5	0		"
	"	"	α , , δ , , R , ,	L	LWR 2469 1+4	745 42 ov	+0.1 0.08	S	C	19:12:54	12:00	7	0	OK at 2200 to 2430.	"
	+34° 1079	B0IV 8.85 0.39	α 05, 28, 51 δ +34, 54, 00 R 275, 05, 14.8	L	SWP 2775 1+11	1047 59 ov	−0.3 0.03	S	C	21:26:56	2:30	5	0		"
	HD 37654	O7V 6.79 0.34	α 05, 17, 19 δ +37, 23, 00 R 277, 17, 42.1	L	SWP 2776 1+7	7143 654 ov	+0.4 0.08	S	C	21:30:47	0.10	3	0		"
	"	"	α , , δ , , R , ,	L	LWR 2470 1+8	6700 493 ov	+0.8 0.05	S	C	22:06	0:30	7	0	OK at 2200 to ~2500	"
	HD 47839	O7 4.77 0.07	α 06, 38, 14 δ +09, 57, 00 R 267, 37, 4	L	SWP 2777 1+9	≤15 191	0.0 0.08	S	C	23:09	0:09	5	0		"

OBSERVATORY LOG PAGE 2

DAY 26 MONTH SEP YEAR 1978 RAN 26SEP-1

PROPOSAL ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v C(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / S.A.
	HD 47839	07 4.77 0.07	α 06, 38, 14 δ +09, 57, 00 R 267, 37, 4	L	LWR 2471 1+10	+74 163 ov?	0.0 0.08	S	C	23:04	00:1	5	0		GUIDI-ADELLO PENSTON
			α / /												
			δ / /												
			R / /												
			α / /												
			δ / /												
			R / /												
			α / /												
			δ / /												
			R / /												
			α / /												
			δ / /												
			R / /												
			α / /												
			δ / /												
			R / /												
			α / /												
			δ / /												
			R / /												
			α / /												
			δ / /												
			R / /												

OBSERVATORY LOG

DAY 27 MONTH SEP YEAR 78 RAN 27SEP-1

PROPOSAL SA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v C(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / S.A.
342	ζ Per	F5Ib 1.8	α 03, 20, 42 δ +49, 41, 00 R 304, 48, 50	L	SWP 2788 1+4	4254 738 ind	-0.8 0.08	L	O	17:01:45	30:00	7		NOT GUIDED Sat > 1710	JORDAN PENSTON
343	〃	〃	α 〃 〃 〃 δ 〃 〃 〃 R 〃 〃	L	SWP 2789 1+5	~4000 750 ind	-0.6 0.11	L	O	18:24:44	120:00				〃
344	〃	〃	α 〃 〃 〃 δ 〃 〃 〃 R 〃 〃	L	SWP 2790 1+1	~400 782 ind	+0.5 0.08	L	O	21:12:19	~~0:05~~ 2:00				〃
345	〃	〃	α 〃 〃 〃 δ 〃 〃 〃 R 〃 〃	L	LWR 2481 1+2	~4000 864 ind	+0.5 0.14	L	O	21:52:24	0:00	8	0	sat from 2275	〃
346	〃	〃	α 〃 〃 〃 δ 〃 〃 〃 R 〃 〃	H	SWP 2791 1+3	~4000 1125 ind.	+1.2 0.08	L	O	22:17:10	90:00	7	0 P	nothing at shutterand sat at layaround	〃
			α / /												
			δ / /												
			R / /												
			α / /												
			δ / /												
			R / /												
			α / /												
			δ / /												

OBSERVATORY LOG — DAY 28 MONTH 09 YEAR 78 PAGE 28 SEP - 1

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:m:s	DURATION m:s	CONT	EM.	COMMENTS	OBSERVER / R.A.
	Nova Cyg. 1978	8.2?	α 21, 40, 38 δ 43, 48, 9 R 50, 59, 26.5	H	LWR 2491 1+1	2850 5	0.01 .42	L	0	16:41:59	40:00	4	7	Saturation Saturn Lines of Mg II	P.B. A.H.
	"	"	α / / δ / / R / /	H	LWR 2492 1+2	1700 5	0.34 .08	L	0	18:10:42	12:00	3	5	ok	"
	BR TEL	10	α 20, 00, 20.1 δ −55, 12, 28.1 R 112, 35, 11.2	H	LWR 2493 1+3	4057 4	1.55 .08	L	0	21:10:11	42:00			(no signal	AH
			α / / δ / / R / /				--								
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												

OBSERVATORY LOG — DAY 29 MONTH 09 YEAR 78 PAGE 29 SEP - 1

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:m:s	DURATION m:s	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK 0.0_1 347	κ CMi KD 64421	ECIV +0.32	α 7h, 36m, 41s δ 25°, 21', ... R 265, 41, 17.8	L	SWP 2807 1+1	4500 2600	-1.39 50	L	0	16:34:33	15:00	8	1	through grocery p. above ≥ 1600 Å	C. JORDAN A.H.
348	"	"	α / / δ ..., 4', ... / R / /	L	SWP 2703 1+2	14500 2600	-1.49 .38	L	0	17:27:21	5:00	7	0	"	"
349	"	"	α / / δ ..., 11', ... / R / /	H	SWP 2804 1+3	14400 3000	-0.54 .08	L	0	18:16:23	30:00	7	0	"	
350	α Tau HD 28139	K5III +0.85	α 4, 33, 3 δ 16, 25', ... R 275, 45', 32.6	L	SWP 2805 1+1	10449 1550	-0.87 .08	L	0	19:59:41	40:00			2/3 data lost	"
351	"	"	α / / δ ..., " / R / /	L	SWP 2806 1+5	"	"	L	0	20:42:06	20:00	3	5	identang "	"
352	α Cet HD 18884	M2III 2.52	α 2, 59, 40 δ 13, 54', ... R 970, 59, 57	L	SWP 2807 1+6	2600 400	-0.77 .09	L	0	22:15:02	90:00	3	5	"	"
			α / / δ / / R / /												
			α / / δ / / R / /												

OBSERVATORY LOG — DAY 30 MONTH 09 YEAR 78 RAN 30 SEP - 1

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:m:s	DURATION m:m:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
	HD 175754	O8V 7.02	α 18h,54m,19s δ -19°,13',14" R 95,0,40.4	H	SWP 2806 1+1	5800 280	-0.16 .80	S	C	16:26:08	36:00	6	0	a few pixels saturated	P. WESSELIUS A.H
	"	"	α / / δ / / R / /	H	SWP 2811 1+2	5800 350	-1.20 .08	S	C	18:31:52	40:00	7	0	LW part saturated	"
	HD 164816	O9III 7.07	α 18h,00m,53s δ -24°,13',55" R / /	H	LWR 2507 1+3	5150 300	-0.49 .08	S	C	19:01:42	41:00	7	0	"	"
	"	"	α / / δ / / R / /	H	SWP 2814 1+4	5300 300	-0.54 .08	S	C	19:52:17	30:00	6	0	OK.	"
	HD 164794	O4I 5.97	α 18h,00m,48s δ -24°,21',49" R 93,59,14.7	H	LWR 2508 1+5	13500 800	-0.54 .08	S	C	20:32:00	18:00	7	0	LW saturated	"
	"	"	α / / δ / / R / /	H	SWP 2815 1+6	1350	-0.54 .08	S	C	21:05:15	12:00	6	0	OK.	"
	HD 164816	O9III 7.07	α 18h,00m,53s δ -24°,13',55" R / /	H	LWR 2509 1+7	5500 400	-0.54 .08	S	C	21:39:10	30:00	6	0	OK	"
	HD 164794	O4I 5.97	α 18,00,48 δ -24,21,49 R / /	H	SWP 2816 1+8	13500 800	-0.54 .08	S	C	22:13:37	9:00	5	0	OK.	"

OBSERVATORY LOG — DAY 30 MONTH 9 YEAR 78 RAN 30 SEP

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN. FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:m:s	DURATION m:m:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
	HD 164794	O4I 5.97	α 18,00,48 δ -24,21,49 R / /	H	LWR 2510 1+9	13500 800	-0.54 .08	S	C	22:49:02	11:00	5	0	OK	P. WESSELIUS A.H.
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												

OBSERVATORY LOG — DAY 1 MONTH 10 YEAR 78 PAGE 1 OCT-1

PROPOSAL ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. ah:mm:ss	DURATION mm:ss	CONT	EH.	COMMENTS	OBSERVER / R.A.
UK001 353	α Tau HD 29139	K5III 1.85	α 4,33,3 δ +16,25, R 277,32,49.6	L	LWR 2513 .111.	10800 2300 u	-2.3 1.90	L	O	15:02:00	10:00	8	60	Lwr partially saturated	C. JORDAN A.H.
UK001 354	"	"	α , , δ , , R , ,	L	SWP 2825 1+2.	40000 12500 u	-2.7 1.70	L	O	15:24:07	40:00	0	6	Lyα saturated	"
UK001 355	α CMi HD 61421	F5IV 0.35	α 7,35,41 δ 5,21, R 114,10,14.3	L	SWP 2826 1+3	13100 4100 u	0.02 .08	L	O	12:34:39	1:00	6	0	Lw part saturated	"
UK001 356	δ Pav HD 170418	G8V 3.55	α 20,03,51 δ -64,18,43 R 300,57,37.3	L	SWP 2827 1+4	900 200 u	-0.97 .08	L	O	18:23:21	40:00	4	0	no signal in sw part	"
UK001 357	"	"	α , , δ , , R , ,	L	LWR 2520 1+5	900 150 u	-0.21 -.08	L	O	19:16:12	10:00	7	0	Lw part saturated	"
UK001 358	"	"	α , , δ , , R , ,	L	SWP 2828 1+6	900 150	-0.21 .08	L	O	19:57:27	110:00	1	0	"	"
			α , , δ , , R , ,												

OBSERVATORY LOG — DAY 2 MONTH 10 YEAR 78 PAGE 2 OCT

PROPOSAL ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. ah:mm:ss	DURATION mm:ss	CONT	EH.	COMMENTS	OBSERVER / R.A.
	HD 21478	B8V 4.97	α 03,24,29 δ 48,53,25 R 306,41,6.4	H	SWP 2835 1+1.	400 137 u	-2.35 2.42	S	C	19:38:03	7:00	5	0	perfect.	P. WESSELIUS A.H.
	"	"	α , , δ " , R 306,41,6.4	H	LWR 2525 1+2	346 130 u	-2.45 2.26	S	C	19:51:25	4:00	5	0	"	"
	"	"	α , , δ " , R , ,	H	SWP 2836 1+3	320 120 u	-1.50 1.60	S	C	19:58:44	15:00	8	0	overexposed generally	"
	HD 191877	B1IB 6.25	α 20,09,10 δ +21,43,32 R 94,3,50.1	H	LWR 2526 1+4	10000 130 o	-.074 .50	S	C	16:26:47	16:00	6	0	OK.	"
	"	"	α , , δ , , R , ,	H	SWP 2837 1+5	10500 660 u	-0.05 .10	S	C	17:39:10	38:00	7	0	Lw part overexposed.	"
	HD 21478	B8V 4.97	α 03,24,29 δ 48,53,25 R 306,48,23.5	H	SWP 2838 1+6	300 107 u	-1.5 .07	S	C	19:15:29	1:00	7	0	"	"
	HD 42027	B2I 5.75	α 06,06,42 δ 23,07,21 R 264,17,16.5	H	LWR 2527 1+7	11000 1000 o	0.66 .08	S	C	6:9:28	25:00	7	0	"	"
	"	"	α , , δ " , R , ,	H	SWP 2839 1+8	15000 1000 o	-0.44 .08	S	C	20:31:25	60:00	6	0	OK.	"

OBSERVATORY LOG

DAY 3 MONTH 10 YEAR 78 RAN

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK 41A 358	Q clay-oak		α 22, 04, 53.12 δ -40, 51, 36.2 R 132, 57, 45.7	L	SWP 2749		-09. -05	L	O	16:?:??				Handed over to GSFC while ingoing Image real time.	WILSON - GONDHALEKAR A·H
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												

OBSERVATORY LOG

DAY 4 MONTH OCT YEAR 78 RAN 4 OCT 19

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN FILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
PB #42	SAO 251595 STAR	B1Ve 9.0 0.48	α 11, 45, 34 δ -61, 55, ... R / /	L	SWP 2852 1+1	943 50 ov.	+0.6 0.40	S	C	16 21 30	15m	H		OVERARK P.	BRENNAND PLS
"	"	"	α / / δ / / R / /	L	SWP 2536 1+2	1000 77 ov.	+0.5 0.18	S	C	16 58 48	25m	G		VERY GOOD	"
"	"	"	α / / δ / / R / /	L	SWP 2853 1+3	98.7 63+5	+0.43 0.08	L S	O C	16 53 43	2 m + 6 m	I E		SL. OVERARK P.	"
"	HD 245770 STAR	B0V 9.0 0.76	α 5, 35.48 δ +26, 17, ... R / /	L	SWP 2854 1+4	973 81	+0.10 0.08	S	C	20 43 00	60m	F		ORBIT OVERRUN?	
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												

OBSERVATORY LOG — DAY 5 MONTH OCT YEAR 78 RAN _____

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v B-V	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pat slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT.	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK 13A 360	Q 2204-408	~ ~17	α 22, 04, 33.3 δ -40, 51, 36.2 R 131, 34, 42	L	LWR 2539	BLIND OFFSET	40	L	O	(?)	EXPOS. CONTINUED AT GSFC			IMAGE READ AT GSFC	WILSON PLS
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / /												

OBSERVATORY LOG — DAY 6 MONTH OCT YEAR 78 RAN 6 OCT 7

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v B-V	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pat slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT.	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
ESA	STAR HD 56014	B3 IV 4.66 .02	α 7, 12, 12 δ -26, 16, 00 R	H	SWP 2866 1+1	500 164 UVD	-2.1 -1.74	S	C	14 37 37	2m			NOT READ	DELCROIX SELVELLI
			α / / δ / / R / /	L	LWR 2543 1+2	480 150	-1.50 1.00	L	L	15 39 05	1m 30s	D			
	HD 57150 STAR	B3V 4.68 0.14	α 7, 16, 32 δ -36, 38, R	L	SWP 2867 1+3	400 168	0.70	L	L	1629	1m 20s	D			
			α / / δ / / R / /	L	SWP 2868 1+4	400 165	0.30	L	L	1701	2m	D			
			α / / δ / / R / /	L	LWR 2544 1+5	386 155	0.08	L	L	1736	2m	D		MAX DN ≈ 120 (IN THE ~2600 REGION)	
	HD 75311 STAR	B2V 4.03	α 8, 45, 25 δ -56, 35, R	L	SWP 2869 1+6	500 165	0.08	L	L	18 16	2m 50s	D			
			α / / δ / / R / /	L	LWR 2545 1+7	~490 150	0.08	L	L	18 56	3m 10s	F	F		
	HD 89890 STAR	B3 IV 4.61	α 10, 19, 3 δ -55, 48,	L	SWP 2870 1+8	522 150	L	L		19 41	5m 40s	D			

OBSERVATORY LOG

DAY 6 MONTH OCT YEAR 78 RAN 6 OCT

PROPOSAL ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v B-V	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pair slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
ESA	HD 89890 STAR	8.3 V 4.61	α 10, 19, 03 δ -55, 47, R	H	SWP 2881 1+10	522 160 UND	-.15 0.08	S	C	20 22	11m	G			DELCROIX SELVELLI
"	"	"	α δ R	H	LWR 2546 1+9	502 145	-.10 0.08	S	C	20 42	6m	F			"
~~HD 102276~~	~~STAR~~	~~8.3 V 4.50~~	~~α 11, 42, 14 δ -63, 31 R~~	~~H~~	~~LWR 2547 1+11~~	~~550 180~~	~~-.05 0.08~~	~~S~~	~~C~~						
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												

OBSERVATORY LOG

DAY 7 MONTH OCT YEAR 78 RAN 7 OCT 78

PROPOSAL ESA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_v B-V	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IM.FILE PROC.DATA T.	FES CTS: ref. pair slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK 361			α δ R		SWP 2881 1+1						1m 13s			CAL UV. 40% FLAT FIELD	B. WILSON PLS
362	QUASAR Q 2126-158	19.3	α 21, 26, 26.7 δ -15, 53, 47.03 R	L	SWP 2882 1+2	BLIND OFFSET	-.19 0.50 ↓ 0.08	L	O	16 42 36	EXPOS. CONTIN. AT GSFC			IMAGE READ AT GSFC	B. WILSON PLS
363			~~THE SAME~~ α δ R		LWR 2550 1+3			L+S	O	17 07 30				FOR BIG ~CONTEMPORARY TO SWP 2882	" "
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												

OBSERVATORY LOG — DAY 8 MONTH OCT YEAR 78 — DAY 8 OCT 78

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_V B-V	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. NOM. INFILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT.	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
ESA	HD 15089 STAR	A2V 4.57 .01	α 2, 24, 55 δ 67, 10, R	H	SWP 2886 1+2	38.1 9000 UND	1.8 1.30 0.08	S	C	1508	120m	F		BKG ~ 120 IN THE REGION AROUND 1800	DELCROIX SELVELLI
	THE SAME STAR	~ ~ ~	α , , δ , , R , ,	L	LWR 2555 1+1	~THE SAME	-1.68 1.90 1.50	L	L	142547	35m	F			
	HD 53394 STAR	B0IV 2.58	α 00, 53, 40 δ 60, 26, R	L	SWP 2887 1+2 3	~6000 UND 1353	-0.80 0.08	L	L	1755	18m	F			
	THE SAME STAR	~ ~	α , , δ , , R , ,	L	LWR 2556 1+4	~6000 ~1400 UND	+0.15 1.08	L	L	1805	20m	F			
	HD 22192 STAR	B5V 4.2	α 03, 32, 55 δ 48, 01, R	L	SWP 2888 1+5	820 -319 UND	+0.05 0.08	L	L	1928	5 30	B		UNDEREXPOSURE PROBABLY DUE TO THE DRIFT OF THE TARGET (NO TRACK)	
	THE SAME STAR	~ ~	α , , δ , , R , ,	L	LWR 2557 1+6	815 250	0.08	L	L	1940	4 52	C			
	THE SAME STAR	B2V 4.2	α , , δ , , R , ,	L	SWP 2889 1+7	830 215	2.08	L	L	2100	10m	G			
	THE SAME STAR	B2V 4.2	α , , δ , , R , ,	L	LWR 2558 1+8	220	0.13	L	L	2120	10m	G			

OBSERVATORY LOG — DAY 9 MONTH OCT YEAR 78 — DAY 9 OCT 78

PROPOSAL ESA/UK NO. UK-13A	OBJECT / TYPE / PHASE	SP. TYPE m_V B-V	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. NOM. INFILE PROC. DATA T.	FES CTS: ref. pnt slot und./ov.	FOCUS BKG.	APERT	AP. SHUT.	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK 364			α / / δ / / R		LWR 2565 1+1		0.40 -.10			15.40	1m 13s			40% FLAT FIELD UV FLOOD	B. WILSON SELVELLI
UK 365	QUASAR Q 2126-158	17.3	α 21, 26, 26.7 δ -15, 53, 47.03 R	L	LWR 2566 1+2	BLIND OFFSET	0.20 0.40 .14 .85	L	O	16h 21m 22°	(LOST FIX POS. CONTIN. AT VILSPA			READ AT GODDARD	
UK 366	BKG		α ε THE SAME z	L	SWP 2898 1+3	BKG	+0.15 -0.40 .08	L	O	165749	THE SAME AS ABOVE			FOR BKG READ AT GODDARD	
			α / / δ / / R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												

OBSERVATORY LOG — DAY 10 MONTH OCT YEAR 78 RAN 10 OCT 7

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. RGW IM. FILE PROC. DATA T.	FES CTS: ref. pot slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
Obs. prog.	NGC 7027 PN	P.N 10.5/8.9	α 21, 05, 12 δ +42, 01, ___ R 73, 04, 36.5	H	LWR 2571 1+3	720 21 OV	-.7 .40	L	O	15:16:49	300:00	A	F	Very faint continuum. λ > 2600 Å, 2 lines saturated	CLAVEL (image replay from analog tape)
"	NOVA CYG Nova	Nova ?	α 21, 40, 38.3 δ +43, 48, 09. R 65, 00, 28.2	L	SWP 2902 1+2	200 43/1	-.6 .08	S L	O O	20:47:18 21:32:46	40:00 9:00	G F	G G	saturated λ > 1600 some lines saturated.	"
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												

OBSERVATORY LOG — DAY 11 MONTH OCT YEAR 78 RAN 11 OCT

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. RGW IM. FILE PROC. DATA T.	FES CTS: ref. pot slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
UK 25 #367	STAR: 112 Her	Ap 5.4	α 282°, 31, 59 δ +21, 22, 0 R 97, 42, 41.5	H	LWR 2576 1+1	20000 3000 OV	-2.9 0.86	S	C	14:36:58	14:00	6	ϕ	Good.	GUTHRIE STICKLAND
368	112 Her	Ap 5.5	α 282°, 31, 59 δ +21, 22, 0 R 97, 42, 41.5	H	SWP 2920 1+2	19500 3000 OV	0.84	S	C	14:57:45	25:20	7	ϕ	XS PREP. OXP AT LONG λ	"
369	ϕ Her	Ap 4.3	α 241°, 47, 59.6 δ 45, 4, 0 R 129, 6, 18.2	H	LWR 2577 1+3	580 200 UND	-0.7 0.08	S	C	16:38:00	3:30	4	ϕ	A BIT WK.	"
370	ϕ Her	Ap 4.3	α 241, 47, 59.6 δ 45, 4, 0 R 129, 6, 18.2	H	SWP 2921 1+4	590 200 UND	0.08	S	C	17:16:35	5:01	5	ϕ	Good	"
371	ϕ Her	Ap 4.3	α 241, 47, 59.6 δ 45, 4, 0 R 129, 6, 18.2	H	LWR 2578 1+5	590 200 UND	-1.5 0.08	S	C	17:29:19	7:00	6	ϕ	Good comp/cont to #369.	"
372	HR 4072	Ap 4.9	α 155, 8, 14.7 δ 65, 48, 59.9 R 221, 46, 46.5	H	LWR 2579 1+6	25000 1950	-0.3 008	S	C	18:53:48	12:00	6	ϕ	Very good.	"
373	HR 4072	Ap 4.9	α 155, 8, 14.7 δ 65, 48, 59.9 R 221, 46, 46.5	H	SWP 2922 1+9	25000 1800	S 0.08	S	C	19:12:54	15:00	5	ϕ	Not archival at temp. Good.	"
374	17 Aur	Ap 5.8	α 78, 46, 29.9 δ 33, 42, 0 R 279, 56, 19.3	H	LWR 2580 1+7	10200 800	S 0.08	S	C	20:23:55	~~25:00~~ 22:00	8	ϕ	XS PREP. OK Bottom few lines gone	"

CONT

OBSERVATORY LOG

DAY 11 MONTH OCT YEAR 78 RAN 11 OCT

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. KOW IM. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP SHUT	G.M.T. hh:mm:ss	DURATION mmmss	CONT	EM	COMMENTS	OBSERVER / R.A.
375 UK	17 Aur	Ap 5.8	α 78,46,29.9 δ 33,42,0 R 279,56,19.3	H	SWP 2923 1+8	12000 630	0.08	S	C	21:14:41	25:00	4	0	Head at short λ.	GUTHRIE STICKLAND
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												

OBSERVATORY LOG

DAY 12 MONTH 10 YEAR 78 RAL 12 OCT 78

PROPOSAL ESA/UK-no.	OBJECT / TYPE / PHASE	SP.TYPE m_v $\varepsilon(B-V)$	RIGHT ASCENSION, (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	TES CIS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h.mm:ss	DURATION mmm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
FN050	ALPHA CYG star	A2Ia 1.25 0.04	α 20h 39m 44s δ +45° 06' " ε 78° 36' 38.4	H	SWP2940 1+1	7200 3000 und/fov	-2.6 .82	S	C	14:28:02	7:00	F	F	saturated λ >1700	LAMERS CLAVEL
"	"	"	α " δ " " ε "	H	LWR2583 1+2	3200	-1.4 .58	S	C	15:13:06	1:20	F	F	saturated 2600<λ<2850 weak λ<2300	"
"	"	"	α " δ " " ε "	H	SWP2941 1+3	"	-.94 .15	S	C	15:27:29	1:00	E	E	excellent λ>1300 weak below	"
"	SIGMA CYG star	B9Iab 4.23 .14	α 21, 15, 27 δ +39, 11, " ε 74, 40, 3.1	H	LWR2584 1+4	6000 2400 und/fov	-.94 .10	S	C	16:18:37	10:[illegible]	F	F	saturated 2600<λ<2800 weak λ<2300	"
"	"	"	α " δ " " ε "	H	SWP2942 1+5	"	-.94 .08	S	C	16:48:04	33:[illegible]0	F	F	excellent λ<1600 overexposed longward	"
"	KAPPA CAS. star	B2Ia 4.16 0.36	α 00, [illegible] δ +62, 40, " ε 11, 35, 55	H	SWP2943 1+6	6200 2000 und/fov	-.62 .08	S	C	18:02:53	6:00	L	F	perfect - a few pixels saturated near 1550	"
"	ALPHA CAM star	O9.5Ia 4.29 0.27	α 04, 49, 04 δ +66, 15, " ε 29, 58, 29.1	H	SWP2944 1+7	5200 1000 und/fov	- .08	S	C	18:48:50	5:00	E	E	perfect	"
"	EPSILON AURIGAE	A8Ia 2.99	α 04, 58, 23 δ +43, 45, " ε 288, 14, 38.1	H	LWR2585 1+8	18000 6000 und/fov	.085	S	C	19:23:33	33:00	E	F	few pixels saturated 2700<λ<2900	"

OBSERVATORY LOG — DAY 12 MONTH 10 YEAR 78 PAR 12 OCT 7

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. KOW IM. FILE PROC. DATA T.	FES CTS: ref. pat slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EH.	COMMENTS	OBSERVER / C.A.
FMϕ50	CHI AUR star	B5Ia 4.27 0.45	α 05h, 29m, 28s δ +32, 09, R , ,	H	SWP2945 1+9	361 140 und/fos	-.4 .08	S	C	20:26:56	33:00	E	F	excellent, very few pixels saturated	LAVIELLE CLAVEL
//	//	//	α , , δ , , R , ,	H	LWR2584 1+10	// 130 und/fos	-.016 .08	S	C	21:07:20	25:00	F	F	saturated 2600Å < λ < 2900 excellent elsewhere	//
			α , , δ , , R , ,												
			α , , δ , , R , ,												
			α , , δ , , R , ,												
			α , , δ , , R , ,												
			α , , δ , , R , ,												

OBSERVATORY LOG — DAY 13 MONTH OCT YEAR 78 PAR 13/10/7

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. KOW IM. FILE PROC. DATA T.	FES CTS: ref. pat slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EH.	COMMENTS	OBSERVER / C.A.
FMϕ5ϕ	β ORI	B8Ia 0.13 0.00	α 05h, 12m, 08s δ -08, 15, R 256, 44, 23.9	H	LWR2592 1+1 und/fos	18000 8000 und/fos	-1.6 .2	S	C	14:50:56	0:7	E	F	lines saturated 2850Å < λ < 2600	LAMERS CLAVEL
//	//	//	α , , δ , , R , ,	H	SWP2957 1+2 und	18000 8000 //	//	S	C	15:20:13	0:12	E	F	very good 1800Å < λ < 1400 few pixels saturated above	//
	δ CMa	B8II 4.12 0.0	α 07h, 01m, 30s δ -15°, 34, R 261, 55, 03.9	M	SWP2958 1+3 und	634 290 und/fos	-1.5 .08	S	C	16:09:14	3:20	D	D	a bit weak λ < 1600 Å ok above	//
	//	//	α , , δ , , R , ,	M	LWR2593 1+4 und.	634 250	-1.7 .08	S	C	16:42:32	2:30	E	E	very good 2600Å < λ < 2900 a bit weaker below	//
	//	//	α , , δ , , R , ,	M	SWP2959 1+5 und	//	-1.7 .08	S	C	17:18:21	6:30	D	D	still a bit weak below 1400 Å	//
	η CMa	B5Ia 2.44 0.00	α 07h, 22m, 07s δ -29°, 12', R 264°, 26', 30.5"	H	SWP2960 1+6 und	3000 1200	-1.7 .08	S	C	18:12:12	1:10	D	D	a bit weak λ < 1400	//
	λ Centauri	B9II 3.13 0.00	α 11h, 33m, 28s δ -62, 45, R 330, 38, 30.5	H	SWP2961 1+7	1500 600	-1.0 .08	S	C	18:58:41	6:00	C	C	underexposed λ < 1500	//
	//	//	α , , δ , , R , ,	H	LWR2594 1+8 und	//		S	C	19:33:52	2:30	B	B	underexposed	//

OBSERVATORY LOG — DAY 12 MONTH OCT YEAR 78 RAN 13/10/78

PROPOSAL (ESA)/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE / m_v / E(B-V)	RIGHT ASCENSION / DECLINATION (1950) / ROLL ANGLE	RESOL.	IMAGE NO. / ROW IM. FILE / PROC. DATA T.	FES CTS: ref. pat / slot / ind./ov.	FOCUS / UKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
FN050	λ Sculptoris	B9II 3.13 0.00	α 11,33,28 δ -62,45, R 330,38,30.5	H	SWP2962 1+9	1500 600 ind/ov	.4 .10	S	C	19:59:41	24:00	G	G	overexposed good at λ<1300	LAMERS CLAVEL
〃	〃	〃	α / / 〃 δ / / 〃 R / /	H	LWR2535 1110	1500 600	-0.14 .08	L	C	20:42:45	4:00	E	E	perfect	〃
HD83183	B5II 4.08 0.15	α 09,33,00 δ -59,00, R 297,14,23.2	H	SWP2963 1+11	651 220	-.47 .08	S	C	21:29:04	12:00	G	G	excellent λ<1600 Å saturated above	〃
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												

OBSERVATORY LOG — DAY 14 MONTH OCT YEAR 78 RAN 14OCT

PROPOSAL (ESA)/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE / m_v / E(B-V)	RIGHT ASCENSION / DECLINATION (1950) / ROLL ANGLE	RESOL.	IMAGE NO. / ROW IM. FILE / PROC. DATA T.	FES CTS: ref. pat / slot / ind./ov.	FOCUS / UKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
PB042	SAO251295 X	B1IV 8.95 0.48	α 11,45,34 δ -4,55, R 332,56,36.7	L	LWR2600 1+1	1100 4 ov	-1.38 .6	I	O	14:46:05	5:00	G	G	saturated 2500<λ<2900	BIRNACCA CLAVEL
〃	〃	〃	α / / δ 〃 / R / /	L	LWR2601 1+2	1100 86/7 ov	.12	S L	C O	15:36:08 15:48:58	4:30 1:30	F E	F E	good combination	〃
HD37042 X	O9V 5.0F 0.19	α 05,33,55 δ -05,26, R 258,34,33.9	H	SWP1926 1+4	24000 2000 ov	-1.6 .08	S	C	17:53:04	3:00	G	G	saturated 1800<λ<2750	〃
〃	〃	〃	α / / δ 〃 / R / /	H	LWR2602 1+3	1500 100 ov	-1.6 .08	S	C	18:04:10	4:00	G	G	microphonic noise terminated 1250<λ<1400 1700<λ<1900	〃
〃	〃	〃	α / / δ 〃 / R / /	H	LWR2603 1+6	〃	.08	S	C	18:43:00	2:00	D	D	completion with LWR1604	〃
〃	〃	〃	α / / δ 〃 / R / /	H	SWP2977 1+5	/	-.54 .08	S	C	19:30:00	7:00	F	F	perfect spec; strong microph noise	〃
HD24534 X	B0p 6.1/6.4 0.43	α 03h,51m,15s δ 30°,24', R / /	H	SWP2978 1+7	2000 470 ov	-.93 .08	S	C	20:28:15	15:00	C	C	weak except 1600<λ<1800	〃
		α / 〃 / δ / / 〃 R	L	SWP2979 1+8	6000 90	-.65 .08	S L	C O	21:31:00 21:35:12	0:16 0:6	D B	E B	ok; abt weak(?) unsatisfactory	

OBSERVATORY LOG — DAY 15 MONTH OCT YEAR 78 — RAN 15OCT7

PROPOSAL ESA/(UK) NO.	OBJECT / TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:m:s	DURATION m:s	CONT	EH.	COMMENTS	OBSERVER / R.A.
Ø2Ø UK316	HD147625 S	AØIV 3.9 0	α 16, 25, 42 δ -78, 47, R 48, 22, 29.9	H	LWR2609 1+1	700 285 ind	-1.9 -6	S	C	14:38:00	45:00	B	E	perfect at MgII, nucleus × posed elsewhere	PAGEL CLAVEL
UK317	HD21511 S	G2IV 6.8	α 00h, 23m, 09s δ -77, 32', R 165, 59', 59.2	H	LWR2610 1+2	1800 600/ord ind/ov	-1.7 .10	S	C	16:10:00	30:00	G	G	a bit weak in MgII, overexp. 2700 < λ < 3000	"
UK318	HD209100 S	K5V 4.7	α 21, 59, 47 δ -57, 01, R / /	H	LWR2611 1+3	370 140 ind	-.6 .08	S	C	17:44:08	85:00	G	G	excellent at MgII overexp 2700 < λ < 2950	"
UK319	HD197989 S	KØIII 2.6	α 20, 44, 12 δ +33, 47, R 85, 22, 22.8	H	LWR2617 1+4	2300 1000 ind	.08	S	C	20:25:17	12:00	B	B	underexposed	"
UK320	Nova CYG S	Nova 4.2	α 21, 40, 38.3 δ 43, 58, 09 R 70, 29, 13.4	L	SWP2990 1+5	800 30/1 o.v	.08	S L	C O	21:25:57 21:41:12	10:00	E C	F E	only NIII 1950 saturated; rest is perfect - LAP; NIT OK.	
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / /												

OBSERVATORY LOG — DAY 16 MONTH OCT YEAR 78 — RAN 16OCT78

PROPOSAL SA/UK NO.	OBJECT / TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:m:s	DURATION m:s	CONT	EH.	COMMENTS	OBSERVER / R.A.
UK020 381	β Tuc 44	G2V 4.2	α 00, 17, 36.7 δ -65, 09, 33.1 R 163, 14, 10.2	H	LWR2621 1+1	500 192 ind	-1.4 0.64	S	C	14:34:31	60:00	7	4	weak for MgII emission cores. HD 1581	PAGEL PENSTON
UK020 382	α Ori 49	M2Iab 0.9	α 05, 52, 28 δ +07, 24, 00 R 263, 36, 46	H	LWR2622 1+2	13699 7287 ind	+1.4 0.08	S	C	16:46:53	6:00	2	3	30ØN in MgII HD 39801	"
UK020 383	"	"	α " δ / R /	H	LWR2623 1+3	13440 5956 ind	4.6 0.09	S	C	17:25:02	30:00	3	7	Sat in MgII ! HD39801	"
UK020 384	"	"	α " δ / R /	H	LWR2624 1+4	13809 6201 ind	+0.6 0.06	S	C	18:48	10:00	3	6	2 peaks at 200N in MgIIk, HD39801	"
UK020 385	τ Cet 44	G8Vp 3.5	α 01, 41, 41.2 δ -16, 12, 25 R 190, 17, 03.9	H	LWR2625 1+5	914 369 ind	-1.0 0.08	S	C	20:08:13	50:00	6	3	weak for MgII cores. HD 10700	"
UK020 386	"	"	α " δ / R /	H	LWR2626 1+6	946 379 ind	+0.1 0.10	S	C	21:31	12:00	5	3	weak for MgII cores HD10700.	"
			α / δ / R /												
			α / δ /												

OBSERVATORY LOG — DAY 17 MONTH Oct YEAR 78 PAN 17 OCT

PROPOSAL / UK NO.	OBJECT / TYPE / PHASE	SP.TYPE / mV / (B-V)	RIGHT ASCENSION (1950) / DECLINATION / ROLL ANGLE	RESOL.	IMAGE NO. / ROW IM.FILE / PROC.DATA T.	FES CTS: ref. pnt / slot / ind./ov.	FOCUS / RKG.	APERT	APR. SHUT	G.M.T. h:m:s	DURATION m:s	CONT	EXP.	COMMENTS	OBSERVER / R.A.
UK020 387	β Gem 46	KoIII 1.2	α 07, 42, 15 δ +28, 09, 00 R 260, 09, 21	H	LWR2631 1+1	7228 3243 ind	-0.7 0.50	S	C	14:38:10	10:00	6	5	Mg II k poject! HD 62509	PAGEL PENSTON
UK020 388	α Aur 46	KoII 4.7	α 19, 32, 31 δ +69, 31, 00 R 91, 55, 14	H	LWR 2632 1+2	353 147 ind	-0.7 0.01	S	C	15:55:06	100:00	6	6	Mg II k 4 peak >285, h ox HD 185844	" "
UK[illegible] 389	NOVA CYG 55	- 9	α 21, 40, 38·3 δ +43, 48, 09 R 72, 29, 32·7	L	LWR 2633 1+7	753 3/43 ov	+0.8 0.08	L S	O	18:24:32 18 32:18	4:00 1:00	5 3	8 5	sat near 2800 in h ap.	STICKLAND PENSTON
UK[illegible] 390	NOVA CYG 55	- 9	α " " " δ " " " R " "	L	SWP 2011 1+4	790 4/32 ov	+0.8 0.08	L S	O	18:37:33 18 47:08	5:00 2:50	3 2	6 4	Two lines saturated in h ap.	"
UK020 391	η Cep 46	KoIII 3.4	α 20, 44, 16·5 δ +61, 39, 00 R +77, 20, 06·4	H	LWR 2634 1+5	1000 368 ind	+1.7 0.08	S	C	19:37:15	30:00	5	4	Mg II k peak drifting HD 198149	PAGEL PENSTON
UK020 392	ε Cyg 46	KoIII 2.6	α 20, 44, 12 δ +33, 47, 00 R 87, 08, 29	H	LWR 2635 1+6	2324 828 ind	+0.9 0.08	S	C	21:08:51	45:00	6	5	Mg II k poject! HD 197989	"
			α δ R												
			α												

OBSERVATORY LOG — DAY 18 MONTH OCT YEAR 78 PAN 18-OCT-7

PROPOSAL / SAUNDERS NO.	OBJECT / TYPE / PHASE	SP.TYPE / mV / (B-V)	RIGHT ASCENSION (1950) / DECLINATION / ROLL ANGLE	RESOL.	IMAGE NO. / ROW IM.FILE / PROC.DATA T.	FES CTS: ref. pnt / slot / ind./ov.	FOCUS / RKG.	APERT	APR. SHUT	G.M.T. h:m:s	DURATION m:s	CONT	EXP.	COMMENTS	OBSERVER / R.A.
	NGC 2440 PN	0? ~11 0.41	α 7h, 39, " δ -18, 05, " R 261, "	L	LWR 2645 1+1	270 178 (Nebular)	-1.3 0.08	S	O	14:58:00	25:00	8 2	2	underexposed	Peimotto/P.B.
	" "	" "	α " δ " R "	L	SWP 3023 1+2	270 100	-2.0 0.08	L	O	? 16:01:24	40:00	0	6	7.5 from Nucleus Very good c III saturated N3X	Peimotto/P.B.
	" "	" "	α " δ " R "	L	SWP 3024 1+3.	" "	-1.4 0.09	L	O	? 17: 13:48	50:00	3	7	Nucleus & Nebula into LA Emission lines saturated	" / "
	COMET 1978h SEARGENT	? ~7	α 21, 21, 33 δ -67, 39, 28 R 323, "	L	LWR 2646 1+4	250	-1.4 0.08	L S+	O	? 19:27:48	137:00	0	5	OH (0,0) Saturated in the LARGE but good in the SMALL	BENVENUTI / BENVENU
	COMET 1978h SEARGENT	~7	α " δ " R "	L	SWP 3025 Read at GSFC		-1.4 0.08	L S+	O	19:27:48	180:00			Read at GSFC	BEN. / "
			α δ R												
			α δ R												
			α δ												

OBSERVATORY LOG — DAY 19 MONTH OCT YEAR 78 PAN 19 OCT 78

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
#41															
393	HD 91316 Star	B1 Ia 3.8 0.1	α 10, 30, 11 δ 9, 36, R 248, 10,	H2	SWP 3046 1+1	900 300 UND	-.6 .80	S	C	16:31:17	1:20	2	Ø	Underexposed.	BROHAGE / P.B.
394	"	"	α , , , δ , , , R , , ,	H	SWP 3047 1+2	960 280 UND.	-.6 .88	S	C	15:03:58	5:00	8	Ø	Overexposed!	" / "
395	NGC 4151 BJ	— 11.4	α 12, 08, 00 δ +39, 41, 00 R 206, 52, 37.7	L	SWP 3048 1+3	58 +9/- ov	-0.9 0.08	S L	O	16:48:08 17:25:17	60:00 30:00	3 4	5 6	1 pred at 245 in CIV	BROHAGE - PENSTON
396	"	"	α , , , δ , , , R , ,	L	LWR 2650 1+4	74 6 ov	-1.0 0.08	L	O	19:02:43	25:00	5	5	Excellent	"
397	"	"	α , , , δ , , , R , ,	L	SWP 3049 1+5	70 6 ov	-0.7 0.08	L	O	19:34:27	25:00	3	5	weak in cont either side of CIV	"
398	"	"	α , , , δ , , , R , ,	L	LWR 2651 1+6	61 6 ov	-1.3 0.08	L	O	19:07:07	25:00	5	5	Excellent	"
399	+8 219188	B0.5V 6.9 0.1	α 23, 11, 28 δ 4, 48, R , ,	H	SWP 3050 1+7	6800 400 ov	0.08	S	C	20:56:32	05:00	5	Ø	Excellent	BROHAGE / P.B.
			α , ,												

OBSERVATORY LOG — DAY 20 MONTH OCT YEAR 78 PAN 20 OCT 78

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION (1950) ROLL ANGLE	RESOL.	IMAGE NO. ROW IN.FILE PROC.DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
#28															
	II 2149 PN	PN 10.5 0.28	α 5, 52, 41 δ 46, 6, R 282, 16, 47	L	SWP 3073 1+1	850 2	-.6 0.88	L	O	14:54:14	30:00	9	Ø	Overexposed No emission visible strong CIV (Absorpt.	PERINOTTO / P.B.
	NGC 40 PN	PN 11.4 0.24	α 0, 10, 18 δ 72, 14, R 24, 20, 21	L	LWR 2656 1+2	118 37	0.10	L	O	16:12:36	8:00	3	5	Good compromise for emission lines and continuum	" / "
	"	PN "	α , , , δ , , , R , , ,	L	SWP 3074 1+3	1 4	0.08	L	O	16:53:15	8:00	2	4	Faint continuum good for CIV and CIII	" / "
	"	PN "	α , , , δ , , , R , , ,	L	SWP 3075 1+4	1 "	0.08	L	O	17:34:26	20:00	5	7	Good continuum Few lines extra.	" / "
	"	PN "	α , , , δ , , , R , , ,	L	SWP 3076 1+5	1 1	0.08	L	O	18:36:55	15:00	Ø	2	Nucleus offset by 7" Only CIII very weak	" / "
	NGC 7027 PN	PN -9 0.16	α 21, 5, 9 δ 42, 2, R 83, 10, 12	L	SWP 3077 1+6	900 20	-0.29 0.08			20:03:00	20:00	Ø	5	Perfect MAY DN 250	" / "
	NGC 7662 PN	PN -10 0.24	α 23, 23, 30 δ 42, 17, R 52, 44,	L	LWR 2657 1+7	470 90	"	L	O	20:55:24	29:00	5	7	Very good Ne IV saturated	" / "
	"	"	α , , , δ , , , R , , ,	L	SWP 3078 1+8		"	L	O	21:30:18	17:00	5	8	Emission lines saturated Good continuum	" / "

Observatory Log 21-10-78

Shift repaid to GSFC – no support at VILSPA.

OBSERVATORY LOG

DAY 22 MONTH OCT YEAR 78 RAW 22 OCT 78

PROPOSAL (ESA) UK — NP#29	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. NOW IN FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BRG.	APERT	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EH	COMMENTS	OBSERVER / R.A.
	M 42	Pec	α 5 , 32 , ___		SWP 31801	Offset	−1.0					LA		Unexpected – LAP	Penichotto / P.B.
	H II Region	—	δ −5 , 25 , ___	L	1+1	36" W	1.5	L	O	14:47:31	25:00	8	56	34" west of θ1 C	
			R 253 , 45 ,			from θ1 C		S+S				2	0	SAP in pillar much fainter	
	~~θ1 Ori C~~	~~Pec~~	α 5 , 32 ,		SWP 31802	Offset	−.6					LA		Perfect	
	" Star	~~Pec~~	δ −5 , 25 ,	L	1+2	4	0.5	L	O	15:39	11:00	5	5		4 / 4
		~~Orl~~	R 253 , 45 ,			4		S+S				SA 2	56		
	4	4	α 4 , 4 , 4		LWR 2680	Offset						LA		Very Good	
	4	4	δ 4 , 4 , 4	L	1+3	4	0.09	L	O	15:57:52	15:00	5	0		4 / 4
	4	4	R 4 , 4 , 4			4		S+S				2 SA	56		
	θ1 ORI C	06p	α 4 , 4 ,		SWP 31803	85128		S	C	16:55:36	00:02	SA 5	56	Good	4 / 4
	Star	5.11	δ 4 , 4 ,	L	1+4	10:000	0.08	+	+	17:00:58	00:02	LA			
		0.31	R 4 , 4 ,			Probably jumped to other		L	O			7	56		
	4	4	α 4 , 4 , 4		LWR 2681	4	−.3	S	C	17:56:55	00:03	SA 5	56	Very good	4 / 4
	4	4	δ 4 , 4 ,	L	1+5	4	0.08	+	+	17:00:58	00:03	LA			
			R 4 , 4 ,					L	O			7	56		
	M 42	Pec	α 5 , 32 , 4		SWP 31804	Offset						LA		Very good	
	H II Region		δ −5 , 25 ,	L	1+6	38" N	0.08	L	O	17:55:43	13:00	6	5	Few pixels sat.	4 / 4
			R 253 , 45 ,			of θ2 Ori		S				SA 2	56	1250 < λ < 1600	
	4	4	α		LWR 2682	offset						LA		Very good	
	4	4	δ	L	1+7	4	0.28	L	O	18:46:58	15:00	5	56		4 / 4
		A	R			4		+				SA 2	0		
	θ2 ORI A	09.5V	α 5 , 33 ,		SWP 31805	25000		S	C	18:48:32	2s	5	56	Very good	
	Star	5.08	δ −5 , 27 ,	L	1+8	2860	0.08	+	+	18:54:46	2s	7	40	Almost perfect	
		0.22	R 4 , 4 , 4					L	O						

OBSERVATORY LOG

DAY 22 MONTH oct YEAR 78 RAW 22 oct 78

PROPOSAL (ESA/UK-NO.) MP #29	OBJECT / TYPE / PHASE	SP. TYPE m_v (B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pat slot and./ov.	FOCUS mm.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM	COMMENTS	OBSERVER / R.A.
	θ_2 ORI A Sta	O9.5V 5.08 0.22	α 5, 33, δ -5, 27, R 253, 45,	L	LWR 2683 1+8	2500 2830	-0.05 0.08	S + L	O	19:59:21 20:03:25	00:03 00:03	5 7	ø ø	~~Perfect~~ Very good	PEARNOTTO P.B
	IC 2149 P.N	PN 10.5 0.28	α 5, 52, 41 δ 46, 6, R 283, 21,	L	LWR 2686 1+10	255 7	0.09	L + S	O	20:59:01	09:00	6	ø	No comment	P.B
	"	"	α " " " δ " " " R " " "	L	SWP 3106 1+11	255 2	0.08	L + S	O	21:32:33 21:42:00	05:00 05:00	4 2	4 ø	~~Shelley~~ A L.T faint	"
			α δ R												
			α δ R												
			α δ R												
			α δ R												
			α δ R												

OBSERVATORY LOG

DAY 23 MONTH OCT YEAR 78 RAW 23 oct 78

PROPOSAL (SA) (UK) NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v B-V	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pos slot wnd./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
061															
400	NGC 4151 Galaxy	11.4	α 12, 08, 00 δ +39, 41, 00 R 206, 52, 37.7	H	SWP 3814 1+1	260 20 slow	60 −1.4 0.6	L	O	14:27:21	433:00	2	3	Faint High background (~100 DN)	BROMAGE / P.B.
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												
			α / / δ / / R / /												

OBSERVATORY LOG

DAY 24 MONTH OCT YEAR 78 RAW 24 oct 78

PROPOSAL (SA) (UK) NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v B-V	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW NO. FILE PROC. DATA T.	FES CTS: ref. pos slot wnd./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. h:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
MP 628															
	NGC 7009 PN	PN ~8	α 21, 01, 28 δ −11, 34 R 105, 12, 61.3	L	LWR 2781 1+1	750 150	−1.4 0.6	L	O	15:01:10	18:00	7	5	A bit strong	Peimotto / P.B.
	"	"	α / / δ / / R / /	L	SWP 3128 1+2	750 140	−1.4 0.6	L	O	15:30:41	8:00	5	6	8 pixels saturated	" / "
	"	"	α / / δ / / R / /	L	SWP 3129 1+3	"	−0.9 0.08	L	O	16:46:00	13:00	3	5	Excellent	" / "
	NGC 7662 PN	PN ~10	α 23, 23, 30 δ 42, 17 R 58, 01, 6.7	L	SWP 3130 1+4	466 −60	−0.85 0.08	L	O	18:13:25	25:00	2	8	Strong	" / "
	"	"	α / / δ / / R / /	L	SWP 3131 1+5	"	−.65 .08	L	O	19:23:00	6:00	1	6	3 pixels saturated	" / "
	NGC 6826 PN	PN ~9.2	α 19, 43, 27 δ 50, 24, R 89, 31, 56	L + H	LWR 2782 1+6	543 70	−.8 0.08	L + L O + S O + L O		20:35:52 20:48:17 21:05:00	4:00 4:00 8:00	6	6	good	" / "
	"	"	α / / δ / / R / /	L + H	SWP 3132 1+7	"	−0.2 0.08	L S L	O O O	21:15:42 21:26:19 21:32:58	2:00 2:00 8:00	5	8	good	" / "
			α / / δ / / R / /												

OBSERVATORY LOG

DAY 25 MONTH OCT YEAR 78 PAN 25 OCT

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. RAW IM. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
/	HIGH GAIN NULL		α / δ / R		SWP 3140 1+1	/	008	/	/	~~11:00~~	/			OK.	STICKLAND
401	NOVA CYG	~8.0	α 21, 40, 38 δ +43, 48, 09 R	H	LWR 2709 1+3	500 45 OV.	-0.6 0.08	S	C	15:31:00	1800	1	2	Very weak	
/	HIGH GAIN NULL		α / δ / R		SWP 3141 1+2	/	/	/	/	~~15:47~~	/			OK	
402	NOVA CYG	~10	α 21, 40, 38 δ +43, 48, 09 R	H	LWR 2710 1+8	500 45	-0.6 .08	S	C	16:37:00	00:00	2	4	Weak but useable No interference from CALUV	
/	60% UV		α / δ / R		SWP 3142 1+4	/	/	/	/	/	1m49s			OK	
/	160% UV		α / δ / R		SWP 3143 1+5	/	/	/	/	/	4:51			OK	
/	2nd Read		α / δ / R		SWP 3144 1+6	/	/	/	/	/	/			OK	
/	100% TF		α / δ		SWP 3145 1+7	/	/	/	/	/	0.16			OK	

OBSERVATORY LOG

DAY 25 MONTH OCT YEAR 78 PAN 25 OCT

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE (1950)	RESOL.	IMAGE NO. RAW IM. FILE PROC. DATA T.	FES CTS: ref. pnt slot ind./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONT	EM.	COMMENTS	OBSERVER / R.A.
/	HI GAIN NULL	/	α / δ / R	/	LWR 2711 1+9	/	/	/	/	/	/			OK	STICKLAND
/	HI GAIN NULL	/	α / δ / R	/	LWR 2712 1+10	/	/	/	/	/	/			OK	"
/	60% UV	/	α / δ / R	/	LWR 2713 1+11	/	/	/	/	/	1:53			OK	
/	100% TF	/	α / δ / R	/	LWR 2714 1+12	/	/	/	/	/	0:22			OK	"
			α / δ / R												
			α / δ / R												
			α / δ / R												
			α / δ												

OBSERVATORY LOG — DAY 26 MONTH Oct YEAR 78 RAW 26 OCT

PROPOSAL ESA/UK NO.	OBJECT / TYPE / PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION (1950) DECLINATION ROLL ANGLE	RESOL.	IMAGE NO. ROW IN FILE PROC. DATA T.	FES CTS ref. pot slot und./ov.	FOCUS BKG.	APERT	AP. SHUT	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / R.A.
R PSDφ13	HD 28497 20	B1V 5.41 0.1	α 4, 26, 48 δ -13, 10, R 236, 20, 13.6	H	LWR2726 1+1	247 102 und	-.44 .08	S	C	15:27:14	5:30	S	0		(BEECHANS) +CASSATELLA
PSDφ13	HD 28497 20	B1V 5.41 0.1	α 4, 26, 48 δ -13, 10, R 236, 20, 14	H	SWP 3161 1+2	800 700	-.6 .08	S	C	16:00:00	4:30	4	0	earth approaching.	same
PSDφ13	HD 41335 20	B2V 5.2 0.14	α 6, 1, 47 δ -6, 43, 19.5 R 252, 23, 13	H	LWR2727 1+3	2200 1861 ov/flat		S	C	16:49:00	6:00	5	0		same
PSDφ13	HD 41335 20	B2V 5.2 0.14	α 6, 1, 47 δ -6, 43, 19.5 R 252, 23, 13	H	SWP 3162 1+4	23000 2000 ov/flat	-.73 0.08	S	C	19:30	5:30	5	0		same
PBφ42	HD 37041 12 (ζ Ori A)	O9.5V 5.07 0.19	α 5, 32, 55 δ -5, 26, 50 R , ,	H	LWR2728 1+5	1360 190	-.34 0.08	S	C	19:20	3:00			NO SPECTRUM	(BERNACCA CASCATELLI
PBφ42	HD 37041 12 (ζ Ori A)	O9.5V 5.07 0.19	α 5, 32, 55 δ -5, 26, 50 R , ,	H	SWP 3163 1+6	1350 158	-.34	S	C	19:34:00	2:00	1	1	NO SPECTRUM	same
	HD 93205 12	O3V 7.75 0.37	α 10, 42, 37 δ -59, 28, 28 R 300, 12, 35.7	H	SWP 3164 1+7		+3	S	C	20:51:40	50:00	7	0	good for λ < 1600 Å	(V.REVX) CASSATELLI
			α , , δ , , R , ,												

OBSERVATORY LOG — DATE D 27 M OCT Y 78 — RAW TAPE D 27 M OCT

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 403 φ6B	HD 15570 20	Bφ 8.0 1.02	α 2, 29, 01 δ 61, 9, R 352, 5, 42	H	LWR 2736 1+1	1880 314 ov/f	-2.5 .08	S	C	14:37:13	30:00	1	0		Gondolatsch Cassatella
UK 404 φ6B	HD 15570 20	BO 8.0 1.02	α 2, 29, 01 δ 61, 9, R 352, 5, 42	H	SWP 3171 1+2	1954 140 ov/f	-1.25 .08	S	C	15:14:45	167:00	3	0	40 DN above BKG	same
UK 405 φ6B	T Tau 68		α 4, 19, 6 δ 19, 25, R 276, 41, 43	L	SWP 3172 1+3	426	.41 .08	L	O	8:35:49	120:00	2	3	microphonic noise	same
	GW Ori	10.1	α , , δ , , R , ,		1+4	350					600				
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										

OBSERVATORY LCO

DATE D 28 M OCT Y 78 RAW TAPE D 28 M OCT

SA / UK JK NO. OPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 406 Φ44	V380 Ori 58	AE 10.5	α 5, 34, 00 δ -6, 45, R 248, 50, 6.4	L	LWR 2742 1+1	240 10 ov	-1.72 0.08	L	O	14:40:26	60:00	4 7		nebula star	Gondhalekar Casatella
UK 407 Φ44	V380 Ori 58	AE 10.5	α 5, 34, 00 δ -6, 45, R 248, 50, 6.4	L	SWP 3179 1+2	248 41	-1.15 .08	L	O	16:01:41	60:00	3 4		nebula star	"
UK 408 Φ44	"	"	α " δ " R "	L	LWR 2748 1+3	26	0.5 .08	L	O	17:12:03	15:00	5			Gondhalekar Penston
UK 409 Φ44	GW Ori 58	10.1	α 5, 26, 20 δ 11, 50, R 263, 0, 34.8	L	SWP 3180 1+4	350	.18	L	O	18:16:39	60:00	1			Gondhalekar Casatella
UK 410 Φ44	"	"	α " δ " R "	L	LWR 2744 1+5	360 40	-.48 .08	L	O	19:22:51	142:00	7	7	Hg II emission and nebulosity zone saturated star	same
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										

OBSERVATORY LCO

DATE D 29 M OCT Y 78 RAW TAPE D 29 M OCT

SA / UK UK NO. ROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 411	HD 15570 20	B0 8.0 1.02	α 2, 29, 01 δ 61, 9, R 334, 33, .5	H	~~SWP~~ SWP ~~2391~~ 1189 1+8	1906 127	~1.0 008	S	C	16:20:00 18:28:00	120 60	3	4	5 V + READ LO + READ LO + STREP + EXPOSE	Gondhalekar Casatella
UK 412	Nova Cyg Q-STAR	Q ~10.5	α 21, 40, 38 δ +43, 48, 09 R , ,	L	SWP 3190 1+9	400 355 0 L	-0.2 0.08	S L	O O	20:21:16 20:27:50	3:00 6:00	4 3	6 4	Good comb.	STICKLAND
UK 413	Nova Cyg Q-Star	Q ~10.5	α 21, 40, 38 δ +43, 48, 09 R 24, 24, 40.9	L	LWR 2751 1+10	630 36	0.08	S L	O O	21:02:20 21:07:59	1.5m 6m	3 6	5 7	Good comb.	"
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										

OBSERVATORY LOG

DATE D 30 M Oct Y 78 RAW TAPE D 30 M OCT

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA UK NO. RB039	HD 86284 PROPOSAL 44 (α Cen)	G2V .33	α 14, 13, 11 δ -60, 37, R , ,	L	LWR 2758 1+1	12673 und/ff	-1.3 .08	L S	O O	14:38:00 14:48:13	1:54 6:00	7 4		reflected by exp. through smaller Ap. (but lot too) The exposure is made for 2100 Å	Bonnet Cassatella
"	"	.4	α " " " δ , , R , ,	L	LWR 2759 1+2	"	-.41 .08	L	O	15:40:38	2:30	6		quite good at 2100	same
"	HR 2693 41	F8± 2 .13	α 7, 6, 21 δ -76, 18, R , ,	L	LWR 2760 1+3	41864 782 und/ff	-1.8 .08	L	O	16:37:59	00:24	3		2100 Å 20 DN above BKG -	same
"	HR 2085 40	F0V 3.7 .01	α 5, 54, 8 δ -14, 10, R 245 0, 15.3	L	LWR 2761 1+4	975 195 und	-2.1 .08	L	O	17:25:11	00:35	6			"
"	HR 2085 40	"	α " " " δ , , R , ,	H	LWR 2762 1+5	" und	-.85 .08	S	C	18:00:01	35:00	4		earth approaching counts up to 1600	"
"	HD 61421 41 (Procyon)	F5IV 0.34 .02	α 7, 36, 41 δ 5, 21, R , ,	L	LWR 2763 1+6	13600 2770 und	-.60 .08	L	O	19:09:27	0:06	7		at 2100 Å	"
"	"	"	α " " " δ , , R , ,	H	LWR 2764 1+7	"	-.3 .08	S	C	19:43:07	6:00	6		at 2100	"
"	"	"	α " " " δ , , R , ,	H	LWR 2765 1+8	"	-.87 .08	S	C	20:19:42	04:00	5		at 2100 Å	"

OBSERVATORY LOG

DATE D 30 M Oct Y 78 RAW TAPE D 30 M OCT

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA	HD 62421 41	F5IV .34 .02	α 7, 36, 41 δ 5, 21, R , ,	H	LWR 2766 1+9	13600	-1.0 .08	L	O	21:09:00	00:03	5		at 2100 Å	Bonnet Cassatella
ESA	"	"	α " " " δ , , R , ,	H	LWR 2767 1+10	"	-.07 -.08	S	C	21:38:12	1:00	6		good before 2700 add after 2900	"
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										

OBSERVATORY LOG

DATE D 31 M 10 Y 78

RAW TAPE D 31 M OCT

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 414	1032+40 16	Sd OB ÷10.	α 10,32,26 δ +40,36,00 R 237,00,19.2	L	SWP 3195 1+1	477 8. ov/f	-1.4/1.0 .2	S L	C O	14:33:55 14:46:09	4:05 2:40	E E	E E	perfect	D.A.RICUS C.LAVEL
UK 415	"	"	α , , δ , , R , ,	L	LWR 2778 1+2	495 5/30 ov/f	-1.8 -1.3 .12	L S	O C	15:19:53 15:31:19	3:25 5:05	E F	E E	perfect	"
UK 416	37-1977 16	Sd OB 9.5	α 09,21,18.5 δ +36,55,50 R 249,41,44	L	SWP 3196 1+3	375 1/19 ov/f	-1.3 .08	L S	O O	16:16:55 16:21:42	0:40 1:00	E	E E	perfect	"
UK 417	"	"	α , , δ , , R , ,	L	LWR 2779 1+4	390 3/20	-.6 .08 -.3	L S	O O	16:53:17 16:59:17	1:00 1:30	E	E E	perfect	"
UK 418	B+34,1543 16	Sd OB 9.4	α 7,06,50 δ +34,30, R 268,24,09	L	SWP 3197 1+5	350 3/23	-.18 .08	L S	O C	17:27:35 18:08:37	2:05 3:10	E	E E	perfect	"
UK 419	"	"	α , , δ , , R , ,	L	LWR 2780 1+6	350 3/20	-.54 .08	L S	O C	18 51:16 19:07:05	3:35 5:30	F D	F C	few pixels sat. a bit weak.	"
UK 420	711+72 16	Sd OB 10	α 7,11,31 δ +72,23, R , ,	L	SWP 3198 1+7	339 5/12	+.12 .08	L S	O C	20:31:30 20:27:15	7:50 4:10	E E	E F	perfect	"
UK 421	"	"	α , , δ , ,	L	LWR 2781 1+8	350 4/	-.29 .08	L	O	21:02:21	3:50				

OBSERVATORY LOG

DATE D 01 M NOV Y 78

RAW TAPE D 01 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA	B0775°325 16	Sd O 9.0	α 8,04,43.4 δ +75,06,47.7 R 270,42,29.8	H	SWP 3205 1+1	460 52 ov/s	-1.0 .08	S	C	14:45:58	65:00	E	E	perfect.	HUNGER CLAVEL
"	"	"	α , , δ , , R , ,	H	LWR 2794 1+2	540 49 ov/s	-.7 .08	S	C	15:58:05	? 85:00	F	F	slightly overexp. in camera center	"
"	B0+10°2179	B3 10.0	α 10,36,17.3 δ 10,19,26.8 R 247,25,32.1	L	LWR 2795 1+3	400 50/4	-.9 .08	L S	O C	18:55:03 19:24:15	8:00 8:00	G F	G F	overexp. some pixels sat.	"
"	"	"	α , , δ , , R , ,	L	SWP 3206 1+4	420 6		L	O	19:37:19	6:00	G	G	strongly sat. $\lambda > 1600$ and $1400 < \lambda < 1250$	"
			α , , δ , , R , ,												
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										

OBSERVATORY LOG

DATE D 2 M NOV Y 78 RAW TAPE D 2 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B-V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK422 UK036	BD+37°442 16.	Sd.Ofe .10	α 01.55.35.7 δ 38.19.34 R 18.49.8.0	L	SWP 3207 1+2	430 3/48 ov/f	-1.7 1.22 -	L S	O C	12:53:26 13:03:03	1:00 1:30	F E	F E	overexp.at 1300Å perfect	DARIUS CLAVEL
UK423 //	//	//	α / / δ / / R / /	L	LWR 2805 1+2	425 30/7 ov/E	-1.3 1.00	S L	C O	13:46 13:57:16	1:05 0:45	D E	E E	perfect	//
UK424 //	BD-3°2179 16	Sd.O 10.4	α 07.59.44 δ -03.90.09 R 254.51.16.7	L	SWP 3209 1+4	350 0/19 ov/F	.6 .1	L S	O O	16.11.42 16:17:31	0:20 1:20	E E	F E	C = 254 (1200-1400) C = 173 (1400-2000) B75 perfect	//
UK425 //	//	//	α / / δ / / R / /	L	LWR 2806 1+5	380 23/3 ov/F	-1.6 .08	S L	C O	16:42:00 16:53:32	1:20 2:00	D F	E F	good combin.	//
UK426	UV 0832-01 16	Sd 10?	α 08.32.-01 δ -1.45.00 R 255.21.48.7	L	SWP 3210 1+6	470 16/0 ov/f	-1.2 .08 -	L S	O C	17:58:33 18:08:38	7:10 3:20	F E	F E	slightly overexp at 1300 perfect	//
UK427	//	//	α / / δ / / R / /	L	LWR 2807 1+7	500 A3/13 ov/E		S L	C O	18:48:08 18:54:48	4:10 2:45	D E	D E	a bit weak perfect	//
UK428	UV 0904-02 16	Sd 10	α 9.4.37 δ -02.54. R 255.34.50.9	L	SWP 3211 1+8	300 1 ov/s		L S	O C	18 19:27 18 29:13	7:50 4:20	F F	F	slightly overexp at 1300 (6 px) perfect	//
			α / / δ / /							19					

OBSERVATORY LOG

DATE D 3 M NOV Y 78 RAW TAPE D 3 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B-V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FG004	BS 5459 4.4	G2V 0 0	α 14.36.11 δ -60.38. R 1.31.25.3	H	LWR 2810 1+1	28000 20000 un/s	-1.3 .12	S	C	14:03:15	1:00	A	A	no spectrum	D.RAVINS CLAVEL
BS98 4.4	BS98 4.4	G2IV 2.8 ϕ	α 0.23.09 δ -77.32. R 148.53.25.3	H	LWR 2811 1+2	1900 700 f/s	-.7 .08	S	C	15:49:47	15:00	F	F	MgII is OK cont. longward is saturated	//
//	//	//	α / / δ / / R / /	H	LWR 2812 1+3	1900 721 f/s	-1.1 .08	S	C	16:57:58	15:00	F	F	//	//
//	//	//	α / / δ / / R / /	H	LWR 2813 1+4	1900 f/s		S	C	17:43:25	15:00	F	F	//	//
BS 566 4.4	BS 566 4.4	G5III 3.7 ϕ	α 01.54.01 δ -51.51.0 R / /	H	LWR 2814 1+5	752 290 f/s	-2.3 .08	S	C	19:27:36	20:00	L	E	MgII 2798 OK cont. very weak shortward 2850	//
			α / / δ / / R / /		1+										
			α / / δ / / R / /		1+										
			α / / δ / / R / /		1+										

OBSERVATORY LOG

DATE D 5 M NOV Y 78 RAW TAPE D 5 M NOV

ESA / UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHIF.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FN. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA FG.004	BS566 44	G5III 3.7 0	α 1h 54m 01s δ -51 51 0 R	H	LWR 2831 1+1	795 311/850 undf/ovf	-1.6 .08	S	C	15:25:12	60:00	F	P	MgII emission #nearby cont. saturated	DRAVINS CLAVEL
//	//	//	α δ // R	M	LWR 2832 1+2	800 3.70 und/f	-1.1 .08	S	C	17:08:12	20:00	D	E	MgII emission is OK.	//
//	BS 98 44	G2IV 0	α 0 23 09 δ -77 32 R	M	LWR 2833 1+3	12.93 690 und/f	-.6 .08	S	C	18:10:26	15:00	F	F	MgII weak but adjacent cont is satur	//
//	//	//	α δ R	M	LWR 2834 1+4	//	.9 .08	S	C	18:56:58	15:00	F	F	//	
//	WLC+TF calibration		α δ R	H	SWP 3228 1+5	/	/	S	C	19:33:04 19:37:10	1.30 + 0.7			OK.	CLAVEL
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										

Observatory Log 4-11-78

Σ9 crash. No support.

OBSERVATORY LOG

DATE D 06 M NOV Y 78 RAW TAPE D 06 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UKTOO 429	NOVA CYG	~11 Q	α 21,40,38 δ 43,48,09 R , ,	L	LWR 2841 1+1	300 0/ ov/f	-0.7 0.80	L S	O O	14:09:22 14:24:00	6:0 2:0	5 3	7 5	XSPREP V. Good.	STICKLAND
430	"	"	α , , δ , , R , ,	H	SWP 3237 1+4	300 0	-0.7 0.10	L	O	14:46:00	100:0 + 140:0	2	7	XSPREP 1909 SAT BOT rest OK	"
/	40% CALUV HEPG	/	α , , δ , , R , ,	/	LWP 1175 1+2	/	/	/	/	/	4:9			OK	"
/	NULL WITH XAN, YAN	/	α , , δ , , R , ,	/	LWP 1176 1+3	/	/	/	/	/	/			Shifted 6 right as previously	"
431	NOVA CYG	~11 Q	α 21,40,38 δ 43,48,09 R , ,	L	SWP 3238 1+5	300 15	-0.2 0.08	L 3	O O	19:26:34 19:39:39	9:0 3:0	2 1	7 5	Good (as one might expect from me)	"
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										

OBSERVATORY LOG

DATE D 07 M NOV Y 78 RAW TAPE D 07 M NOV

ESA / UK ID. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	HD 108662 Star (36)	Ap 5.3 0.	α 12h 26m 25h δ 86°, 11' R 282, 58 ; 8.2	H	LWR 2848 1+4	21511 3000 ov	-2.4 .46	S	C	13:00:37	15:00	4	0	a bit underexposed	M. GERARDI Cl. MEGEVAND A. HECK
	"	"	α ' " δ ' " R ' "	L	SWP 3248 1+8	21000 1300 ov	-1.1 .46	S	C	13:52:04	3:30	8	0	Sw part usable	"
	"	"	α ' " δ ' " R ' "	H	LWR 2849 1+5	21000 2500 ov	-1.1 .36	S	C	14:10:44	22:00	5	0	OK	"
	"	"	α ' " δ ' " R ' "	L	SWP 3249 1+4	21000 2000 ov	-1.0 .10	S	C	15:10:40	2:30	8	0	Sw part usable	"
	"	"	α ' " δ ' " R ' "	H	LWR 2850 1+5	21000 2000 ov	-1.0 .08	S	C	15:20:22	27:00	6	0	OK	"
	"	"	α ' " δ ' " R ' "	L	SWP 3250 1+6	21000 1000 ov	-1.0 .08	S	C	16:21:47	2:10	8	0	Sw part usable	"
	HD 108945 Star (36)	Ap 5.46	α 12h 28m 31s δ 29°, 51' R 283, 15, 40	H	LWR 2851 1+7	19000 1900 ov	-1.4 .08	S	C	17:01:32	36:00	5	0	OK	"
	"	"	α ' " δ ' " R ' "	L	SWP 3251	21000 2200 /19	-1.4 .08	S+L	C+O	17:41:46 + 19:11:10	3:00 + 1:30	7 7	0 0	OK	"

OBSERVATORY LOG

DATE D 07 M NOV Y 78 RAW TAPE D 07 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASS	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	HD 108945 (36)	Ap 5.46	α 12h 28m 31s δ 29°, 51' R 283°, 16', 40"	H	LWR 2852 1+9	18900 2000 ov	-1.4 .08	S	C	18:20:18	36:00	6	0	OK	M. GERARDI Cl. MEGEVAND A. HECK
	"	"	α ' " δ ' " R ' "	L	SWP 3252 1+10	18900 1700/38 ov	-1.4 .08	S+L	C+O	19:11:50 + 19:11:10	3:00 + 1:30	7 7	0 0	OK Sw part usable	"
			α ' " δ ' " R ' "		1+										
			α ' " δ ' " R ' "		1+										
			α ' " δ ' " R ' "		1+										
			α ' " δ ' " R ' "		1+										
			α ' " δ ' " R ' "		1+										
			α ' " δ ' " R ' "		1+										

OBSERVATORY LOG

DATE D 8 M NOV Y 78 RAW TAPE D 8 M NOV

(ESA) / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	Comet Stonyent	– ~12 (Visible)	α 0, 56, 50 δ −68, 07, 08 R 152, ,	L	LWR 28 2859 1+1	98 23 overlap slow	0.3	L	O	14:06:13	25m	0	1	Only CH (0,0)	Benvenuti / P.B.
	"	"	α , , δ , , R , ,	L	SWP 3267 1+2	" "	0.09	L S+	O	14:06:33	50m	0 3	6 3	Same saturation in LA, faint but visible in SA (only Ly α)	"
	HD 223640 (36)	Ap 5.2	α 357, 11, 29.9 δ −19, 10, 53.9 R 125, 19, 42.7	H	SWP 3268 1+3	24000 1700 ov	−0.6 .08	S	C	16:10:33	10100	5	0	perfect !	M. GERBALDI Cl. HEREDIER A. HECK
	"	"	α , , δ , 11, R , ,	H	LWR 2860 1+4	24000 1700 ov	−0.6 .08	S	C	16:25:54	16:04	7	0	fat LW part	"
	"	"	α , , δ , 21, R , ,	H	SWP 3269 1+5	24000 1800	−0.3 .08	S	C	17:18:39	60:00	7	0	Low part sat. but ok for the aliens!	"
	HD 161753 (36)	Ap 5.4	α 224, 53, 29.8 δ −36, 42, R 88, 26, 12.2	H	SWP 3270 1+6	22000 1700	−0.4 .08	S	C	18:37:31	15:00	7	0	Low part sat.	A.M. MAITZEN A. HECK
	"	"	α , , δ , " , R , ,	H	LWR 2861 1+7	25000 1700	−0.4 .08	S	C	19:03:18	12:00	7	0	low part sat.	"
			α , , δ , R , ,												

OBSERVATORY LOG

DATE D 9 M NOV Y 78 RAW TAPE D 9 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	HD 108945 (36)	Ap 5.46	α 187°, 7, 29.8 δ 24, 51, R 224, 23, 0.6	L	SWP 3281 1+1	18800 1700 + 38 ov.	−0.9 .14	S + L	C + O	12:19:34 + 12:45:39	113 + 1:30	4 + 7	0 0+	SAP: underexposed LAP: LW overexp.	N. GERBALDI Cl. HEREDIER A. HECK
	"	"	α , , δ , 41, R , ,	H	LWR 2893 1+2	18800 1600 ov	−0.9 .16	S	C	13:22:45	36:00	5	0	ok	"
	"	"	α , , δ , 11, R , ,	L	SWP 3282 1+3	18800 1700 +70 ov	−1.5 .08	S + L	C + O	13:35:27 13:52:32	2200 + 1400	7 + 2	0 0+	low overexp in both.	"
	HD 108662 (36)	Ap 5.3	α 186, 36, 44.8 δ 26, 11, 0 R 224, 20, 39.6	H	LWR 2894 1+4	21000 1700 ov	−1.3 .08	S	C	14:26:18	20:00	6	0	ok	"
	"	"	α , , δ , 41, R , ,	H	SWP 3283 1+5	22000 1700 ov	−1.0 .08	S	C	14:55:04	52:00	7	0	LW part overexp. but ok for aliens!	"
	HD 32633 (36)	Ap 7.1	α 5h, 02, 51 δ 33, 51, R 233, 4, 25.7	H	LWR 2895 1+6	5500 300 ov	−1.6 .08	S	C	16:28:58	60:00	6	0	ok	H.M. MAITZEN A. HECK
	"	"	α , , δ , 11, R , ,	H	SWP 3284 1+7	5500 300 ov	−1.2 .08	S	C	17:31:50	70:00	5	0	ok	"
	"	"	α , , δ , 41, R , ,	L	LWR 2896 1+7	5500 300 ov	−0.2 .08	S	C	19:48:33	3:00	7	0	bubble over.	"

OBSERVATORY LOG

DATE D 9 M NOV Y 78 RAW TAPE D 9 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FL. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	HD 32633 (36)	Ap 7.1	α 5, 02, 51 δ 33, 51, R 193, 4, 15.7	L	SWP 3285 1+9	57m 300/9 ov	-0.4 .08 =	S + L	C + 0	19:35:30 + 19:44:00	4:30 + 2:00	8 + 2	0 0	SAp monthly cal. LAp: sw-lak	H.M. MAITZEN A.HECK
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ		1+										

OBSERVATORY LOG

DATE D 10 M NOV Y 78 RAW TAPE D 10 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FL. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 13B 432	1101-26 35	— 16.1 —	α 11, 00, 59.55 δ -26, 29, 56.27 R 266, 44, 53.6	L	SWP 3295 1+1	— —	-1.0 -.60	L	0	13:05:45	6:40	1	0	blind offset. signal N.SPAN (or could be ghost image)	SW. FOGED PENTTEN
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										

OBSERVATORY LOG

DATE D 11 M NOV Y 78 RAW TAPE D 11 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/F.s	FOCUS BKG	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA	HR 2874 33	A5 IV 4.83 0.13	α 07, 27, 44 δ −22, 55, 00 R 244, 02, 35	H	LWR 2913 1+1	27000 3000 ov.	−1.5 .46	S	C	12:41:21	35:00	5	0		PRADEEP PENSHAW
"	"	"	α , , δ , , R , ,	H	SWP 3305 1+2	26489 2163 ov	−1.3 .08	S	C	13:22:44	90.00	5	0		"
"	HR 3975 32	A0 Ib 3.48 −0.02	α 10, 04, 36 δ +17, 00, 00 R 248, 47, 10	H	SWP 3306 1+3	1091 396 md	−1.8 .08	S	C	15:44:43	5:01	5	0		"
"	"	"	α , , δ , , R , ,	H	LWR 2914 1+4	1081 381 md	−1.1 .08	S	C	16:30:36	2:30	5	0		"
"	"	"	α , , δ , , R , ,	H	SWP 3307 1+5	1107 369 md	−0.3 .08	S	C	16:46:00	15:00	7	0		"
"	"	"	α , , δ , , R , ,	H	LWR 2915 1+6	1052 386 md	−0.3 .08	S	C	17:15:48	7:30	7	0		"
"	HR 2326 40	F0 Ib −0.73 +0.01	α 06, 22, 50 δ −52, 40, 03 R 227, 11, 30	H	SWP 3308 1+7	>28000 9449 md	−1.3 .08	L	0	18:26:05	00:45	6	0	put in up by Feschotten, 94, -89, some words	"
"	"	"	α , , δ , , R , ,	H	LWR 2916 1+8	>28000 9006 md	−1.3 .08	L	0	18:46:53	00:15	6	0	put in up by Feschotten, -113, 50, 94, -89 + a bit of extra. missing about.	"

OBSERVATORY LOG

DATE D 11 M NOV Y 78 RAW TAPE D 11 M NOV

ESA / SRC UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIN. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA	HR2326 40	F0IV -0.73 +0.07	α 06, 22, 50 δ -52; 40, 03 R 227, 11, 70	H	BWP 3309 1+	>28000 8385 md.	-0.0 -.08	L	0	19:17:58	30:00,	0 8	0	To op. with Fabian, 94, -89, -10, 50	PRADERIE PENSTON
			α / / δ / / R / /		1+									1 or 2 useable orders. well exposed near 1550Å	
			α / / δ / / R / /		1+										
			α / / δ / / R / /		1+										
			α / / δ / / R / /		1+										
			α / / δ / / R / /		1+										
			α / / δ / / R / /		1+										
			α / / δ / / R / /		1+										

OBSERVATORY LOG

DATE D 12 M NOV Y 78 RAW TAPE D 12 N NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss/t	CONTIN.	EXPOS. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK045 433	HD 208816 63	B 4.9	α 21, 55, 15 δ +63, 23, 00 R 87, 20, 07	L	SWP 3321 1+1	26949 27(6)343-(1) [illegible] und.	-1.1 -.22	L S	O	12:35:35 13:01	10:00 7:00	7 5		VV Cep	SNIJDERS PENSION
〃 434	〃	〃	α 〃 δ 〃 R 〃	H	LWR 2923 1+2	26427 172 und	-1.1 -.08	L	O	13:14:50	30:00	4	7	2796 saturated	〃
〃 435	〃	〃	α 〃 δ 〃 R 〃	H	SWP 3322 1+3	26068 127 und	-0.2 -.08	L	O	13:56:08	270:00	6	?	〃	〃
〃 436	〃	〃	α 〃 δ 〃 R 〃	H	LWR 2924 1+4	26537 173 und	-0.3 -.08	L	O	18:43:17	60:00	5	7	〃	〃
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ												

OBSERVATORY LOG

DATE D 13 M NOV Y 78 RAW TAPE D 13 N NOV

ESA / UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EXPOS. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	HR 7924 (36)	A2 Ia 1.26	α 309° 55' 44".8 δ 45° 6' 0" R 108, 12, 7.8	H	LWR 2926 1+2	7500 3500 u	-2.4 .80	S	C	13:46:38	0:40	5	0	OK	E. PRAPERIE A. HECK
〃	〃	〃	α 〃 δ 〃 R 〃	H	SWP 3330 1+1	7500 3400 u	-2.4 .34	S	C	12:50:58	1:30	5	0	OK	〃
〃	〃	〃	α 〃 δ 〃 R 〃	H	SWP 3331 1+4	7500 3500 u	-1.5 .20	S	C	13:22:50	91:00	7	0	SW was exposed	〃
〃	〃	〃	α 〃 δ 〃 R 〃	H	LWR 2927 1+3	7500 3500 u	-1.5 .4	S	C	13:52:25	2:00	7	0	SW was exposed	〃
〃	HR 1040 [illegible]	A0 Ia 4.58	α 57° 28' 30" δ 58° 41' 29".8 R 354, 37, 18.8	H	LWR 2928 1+5	4000 u 5000 ov	-2.0 .12	S	C	14:54:13	60:00	7	0		〃
〃	〃	〃	α 〃 δ 〃 R 〃	H	SWP 3332 1+6	4000 u 150 u 3500 ov	-.9 .48	S	C	16:00:50	200:00	7	0	first SW. partially underexposed by the others	〃
〃	〃	〃	α 〃 δ 〃 R 〃	H	LWR 2929 1+7	4000 u 150 u 3500 ov	-.5 -.16	S	C	19:25:01	60:00	5	0	slightly overexp.	〃
			α δ R		1+										

OBSERVATORY LOG

DATE D 14 M NOV Y 78 RAW TAPE D 14 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 010 437	HD 42899 (36)	05.5 6.35	α 06, 39, 18.5 δ 06°, 24', 0" R 251°, 49', 49"	H	SWP 3345 1+1	9500 700 ov	-1.4 .6	S	C	13:44:59	11:50	5	0	OK	WELCH B. SWINDERS. T A. HECK
" 438	"	"	α / / δ / " / R /	H	LWR 1936 1+2	9500 500 ov	-1.4 .5	S	C	13:06:14	11:00	5	0	OK	"
" 439	HD 43917 (36)	B8 IV 6.97	α 6h, 21m, 6.5s δ 6°, 57', 0" R 252°, 7', 22.3	H	SWP 3346 1+3	6000 440 ov	-1.4 .1	S	C	15:55:33	21:30	5	0	OK	"
" 440	"	"	α / / δ / " / R /	H	LWR 2937 1+4	6000 400 ov	-1.4 .08	S	C	14:16:49	23:30	5	0	OK	"
" 441	HD 43929 (35)	B3 6.06	α 06h, 35m, 43.5s δ 06°, 10', 44" R 251°, 25', 50.1"	H	SWP 3347 1+5	11000 500 ov	-1.4 .08	S	C	16:15:53	15:00	5	0	slightly under	"
" 442	"	"	α / / δ / " / R /	H	LWR 2938 1+6	12000 700 ov	-1.4 .08	S	C	15:15:13	11:30	5	0	OK	"
UK 045 443	HD 43940	B1 IV 6.15	α 06h, 35m, 18.2s δ 5°, 0', 4.2" R 250°, 29', 25.7"	H	SWP 3348 1+7	11000 800 ov	-1.4 .08	S	C	16:24:53	41:30	5	0	OK	"
" 444	"	"	α / / δ / " /	H	LWR 2939	11000 800	-1.4 .08	S	C	17:11:00	19:00	5	0	OK	"

OBSERVATORY LOG

DATE D 14 M NOV Y 78 RAW TAPE D 14 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 010 445	HD 43977 (36)	B1.5V 5.92	α 06, 41m, 14.3s δ 8°, 38', 10" R 253°, 35', 22.6"	H	SWP 3349 1+9	12000 800 ov	-1.4 .08	S	C	18:03:11	7:00	5	0	ok.	WELSH, B. SWINDERS, T HECK, A.
" 446	"	"	α / / δ / " / R /	H	LWR 2940 1+10	14000 900 ov	-1.4 .08	S	C	18:20:38	7:20	5	0	2 lines of pixels noisy but ok for slower	"
" 447	HD 43913 (36)	B0.5V 6.97	α 06h, 37m, 26.5s δ 06°, 58', 49"9 R 252°, 1', 11"0	H	SWP 1150 1+11	6000 0 ov	-0.4 .01	L	O	19:33:33	20:00	5	0	a few lines are missing, but judged quite useful	"
			α / / δ / / R / /		1+										
			α / / δ / / R / /		1+										
			α / / δ / / R / /		1+										
			α / / δ / / R / /		1+										
			α / / δ / / R / /		1+										

OBSERVATORY LOG

DATE D 16 M NOV Y 78 RAW TAPE D 16 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
447 UKTOOM	NOVA CYGNI .55	Nova 11	α 21h 40m 38s δ 43° 41' 09 R 100° 57' 21.6	L	LWR 2946 1+1	240 18/0 ov.	-.85 .76	S + L	C + O	0:50:05 + 1h:00:28	4:00 + 9:00	5 4	6 5	ok.	T. SNIJDERS A. HECK
448 "	"	"	α / / δ / " / R / /	L	SWP 3362 1+2	240 20/0 ov.	-.051 .20	S + L	C + O	1h:17:34 + 1h:24:20	4:00 + 9:00	4 3	6 6	ok.	4
450 "	"	"	α / / δ / " / R / /	H	LWR 2947 1+3	240 0 ov.	-.090 .08	L	O	13:55:58	90:00	3	4	underexposed	4
449 OK 13.8	F 2V 1 (3V)	Sp.1 13.2	α 00h 50m 58s δ 30° 25' 6" R 104° 33' 50".1	D	LWR 2948 1+4		.05	L	O						
451 "	"	"	α / / δ / " / R / /	L	LWR 2948 1+4	240 0 ov	-.02 .03	L	O	19:19:12	25:00	4	6		4
			α / / δ / " / R / /		1+										
			α / / δ / " / R / /		1+										
			α / / δ / " / R / /		1+										

Observatory Log 15-11-78

No support due to attitude loss by GSFC.

OBSERVATORY LOG

DATE D 17 M NOV Y 78 RAW TAPE D 17 Y NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS BRG	APERTURE	AP. SHUT.	G.H.T. hh:mm:ss	DURATION mm:ss	CONTIN.	NL LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA	NGC 3379 (81)	Encap. 9.2	α 10h 45m 11s δ 11° 50' 44" R	L	LWR 2960 1+1	370 0 ov	1.C .7→.1	L	0	11:11:11	45:00	5	5	ok	M. CAPACCIOLI A. HECK
			α δ R		1+										
		/	α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										

OBSERVATORY LOG

DATE D 18 M NOV Y 78 RAW TAPE D 18 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA CBØ31	HD 29139 46	K5 III 0.86	α 4, 33, 3 δ 16, 24, R , ,	H	LWR 2965 1+1	9750 4552 ud/f	-1.1 .08	S	C	12:49:00	25:00	1	7	MgII 2795 overexposed factor 2 - MgII 2802 just OK (related to temp)	BLANCO CATALANO CASSATELLA
"	"	"	α " , " , " δ , , R , ,	H	SWP 3380 1+2	9967 1157 ud/f	.08	L	O	13:27:00	140:00	1	3	OI, Si II faint	"
"	"	"	α " , " , " δ , , R , ,	H	LWR 2966 1+5	9585 1527	.08	L	O	15:02:18	5:00	1	6	playback image MgII 2795 slightly overexposed	"
"	HD 206860 44	4ØV 5.89	α 21, 42.09 δ 14, 33, R 108, 5, 20.9	H	LWR 2967 1+B	12.000	.33 .01	L	O	17:36:08	44:00	4	4	MgII 127DN above BKG	
"	"	"	α " , " , " δ , , R , ,	L	SWP 3381 1+4	12214		L	O	18:27:42	77:00	4	0		
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , ,												

OBSERVATORY LOG

DATE D 19 M NOV Y 78 RAW TAPE D 19 NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 452 13B	null image	—	α 11, —, — δ , , R , ,	—	LWR 2981 1+1	—	-2.1	—	—	12:06	—	—	—	test image	SNIJDERS CASSATELLA
UK 453 13B	Q 1101-26 85.	Q80 16.1	α 11, 01, 00 δ -26, 29, R 260, 39, 30	L	LWR 2982 1+2	—	-1.89 -.79 (end)	L	O	13:38:00	386:00	3	0	Backg. 100DN Spectrum 191 DN (MAX) at ~2800 Å	"
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+		BKG = .08								
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , ,												

average ~ -1.5

OBSERVATORY LOG

DATE D 20 M NOV Y 78 RAW TAPE D 20 Y NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 454 13A	CALUV	/	α /, /, / δ , , R , ,		LWR 2985 1+1	/	/	/	/	14:22	1:10	/	/	as a preparation for the following exposure	GANESHALINGAM CASSATELLA
UK 455 13A	SKY BACKG.	15.4	α , , δ , , R , ,	L	SWP 3394 1+2	11	-3.2	L	O	15:07:22	280:0	0	0	blind offset α 10, 4, 12.96 δ -25,04,45.9	〃
UK 456 13A	9 L1044125 :85	RBO 15.4	α 10, 11, 5.89 δ 25, 04, 8.4 R 294, 6, 38.7	L	LWR 2986 1+3	〃	-3.2	L	O	15:04:17	265:00	3	4	BKG 6 ODN, Max DN 1800A i.e. 145 -	〃
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , ,												

OBSERVATORY LOG

DATE D 21 M NOV Y 78 RAW TAPE D 21 Y NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VILSP	RR Tel 57	B+N 10	α 20, 0, 20 δ -55, 52, R , ,	H	SWP 3405 1+1	>70 ov wd/f	-.89 .08	L	O	12:57:49	36:00	0	7	steepest emission saturated	CASSATELLA
〃	〃	〃	α 〃, 〃, 〃 δ , , R , ,	H	LWR 2995 1+2	350	.08	L	O	13:34:53	24:25	0	7	〃	〃
〃	〃	〃	α 〃, 〃, 〃 δ , , R , ,	H	SWP 3406 1+3	〃	.08	L	O	14:07:41	7:30	0	6	some emission still saturated	〃
〃	〃	〃	α 〃, 〃, 〃 δ , , R , ,	H	LWR 2996 1+4	370	.08	L	O	14:39:59	5:01	0	5	Mg II 2795. 272 DN	〃
〃	〃	〃	α 〃, 〃, 〃 δ , , R , ,	H	SWP 3407 1+5	320	.08	L	O	15:18:00	1:30	0	4	steepest emission are 132 DN above BKG (~18 DN)	〃
〃	P Cyg 23	B+Ia 5 .67	α 20, 15, 57 δ 37, 52, R , ,	H	LWR 2997 1+6	350 69 wd/f	.08	C	O	16:05:44	9:06	7			〃
〃	〃	〃	α 〃, 〃, 〃 δ , , R , ,	H	SWP 3408 1+7	〃	.08	L	O	16:33:52	0:35	6			〃
〃	〃	〃	α 〃, 〃, 〃 δ , , R , ,	L	LWR 2998 1+8	〃	.08	L	O	17:04:59	2:30	4	5		〃

OBSERVATORY LOG

DATE D 21 M NOV Y 78 RAW TAPE D 21 Y NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UILSP	R GxB 41	FBTa 5.8	α 15,46,31 δ 28,18, R , ,	L	LWR 2999 1+9	10759 co	.08	L	0	~~15:00~~ 18:30:33	15:00	7	0	star lost during exposure so eff time is not sure | good at 2300	CASSATELLA
"	"	"	α " δ " R "	L	SWP 3409 1+10	"	.08	L	0	~~47:00~~ 18:59:00	47:00	5	0	Hax DN 243 at 1950 Å BKG = 41	"
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ												

OBSERVATORY LOG

DATE D 22 M NOV Y 78 RAW TAPE D 22 Y NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 457 13A	CALUV	/	α / δ / R /	/	SWP 3412 1+1	/	/	/	/	14:30:00	1:00	/	/	/	G ONDHALEKAR CASSATELLA
458 13A	Q1225+31 85	Quasar 16.9	α 12,26,12.85 δ 31,44,30.5 R 230,14,52.9	L	SWP 3413 1+2	no comb	-2.16 .08	L	0	16:06:20	220:00	1	1	no image -	"
L			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										

OBSERVATORY LOG

DATE D 23 M NOV Y 78 RAW TAPE D 23 NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA CB031	HD187642 31	A7V 0.77	α 19, 48, 20 δ 8, 44, R , ,	H	LWR 3012 1+1	10800 4000 und/f	.16	S	C	13:20	1:00	7		HgII OK DN~155 at 2800	BLANCO CATALANO CASSATELLA
"	"	"	α " , " , " δ , , R , ,	H	SWP 3426 1+2	10800 4000 und/f	.16	S	C	13:40:19	1:00	5		very good for λ > 1700 Å	"
"	"	1	α " , " , " δ , , R , ,	H	SWP 3427 1+3	10800 2000 und/f	.32	L	O	14:15:03	100:00	9		overexposed x100 at 1900 Å; good at 1500 Å (~~bad~~ SWP very high diffusion)	"
"	HD206860	90V 5.94 0.01	α 21, 42, 9 δ 14, 33, R 110, 21, 8.1	H	LWR 3013 1+4	R0010 39 av/f	.08	L	O	16:27:37	52:00	5		very good	"
"	HD161797	95V 3.41 0.05	α 17, 44, 30 δ +27, 45, R , ,	H	SWP 3428 1+5	1023 352 und/f	-0.73	S	C	18:02:17	13:00	1		X + SP REP	"
"	"	"	α " , " , " δ , , R , ,	H	LWR 3014 1+6	1050 440	-0.73 .08	S	C	18:34:14	23:00	5			"
"	"	"	α " , " , " δ , , R , ,	L	SWP 3429 1+7	" 261	-.73 .08	S	O	19:23:03	13:00	3		multiple long WL region exposed (underexposed)	"
								L	O	19:41:53	4:00				
			α , , δ , ,												

OBSERVATORY LOG

DATE D 24 M NOV Y 78 RAW TAPE D 24 NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
459	CAL UV	/	α , , δ , , R , ,	-	SWP 3433 1+1	/	-1.35	-		13 1000	1m	-	-	16D DN FOR ~10% OF THE IMAGE LESS THAN 9S DN FOR 60%	GONDHALEKAR SELVELLI
460	Q 1011+25 QUASAR	- 15.4	α 10, 11, 06 δ 25, 04, 08 R , ,	L	SWP 3434 1+	BLIND OFFSET	-1.50 .10 →.08	L	O	1353	350m	2	-	very faint sp.	" "
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										

OBSERVATORY LOG

DATE D 25 M NOV Y 78 RAW TAPE D 25 Y NOV

ESA/IUE UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undev/f.s	FOCUS ANG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
P0029	HD 31726 Star 2ø —	B1V 6.14 0.04	α 4, 55, 27 δ -14, 18, R 200, 59, 07	L	SWP 3445 1+1	12400 703	-1.3 .40	S + L	O	12:22:14 13:30:59	001ø3 111ø3	6 6	ø 4	Excellent combinat	Benvenuti / P.D.
—	NGC 3242 PN 7.4	B0.9 ~11 0.06	α 10, 22, 22 δ -18, 23, 09 R 251, 40, 16.6	L	LWR 3031 1+2	547 175	-.3 0.08	L + S	O	14:36:36 ~~DUPLICATE~~ 16:52:52	03:00 03:00	4 2	3 ø	slightly weak	—
—	—	—	α , , , δ , , , R , , ,	L	SWP 3446 1+3	—	—	L	O	15:16:02	02:00	3	4	—	—
—	PN : 71	—	α , , , δ , , , R , , ,	L	SWP 3447 1+4	540 330	-.9 0.08	L	O	15:49:10	05:00	2	5	Nucleus not completely out Emission perfect	—
FM ø50	γ C Mo STAR HD 53244	B8 II 4.1	α 07, 01, 30 δ -15, 34, R , ,	H	SWP 3448 1+5	671 216 UND/f	-.80 0.08	S	C	17 01 26	3m 20s	4	—	—	SELVELLI PLS
—	φ Vel STAR HD 86440	B5 Ib 3.5	α 9, 55, 07 δ -54, 21, R , ,	H	SWP 3449 1+6	1145 427	0.08	S	C	17 54 00	2m 20s	5	—	—	—
—	λ CEN STAR HD 100841	B9 II 3.1	α 11, 33, 28 δ -62, 45, R , ,	H	SWP 3450 1+7	1582 611	0.08	S	C	18 45 19	5m 10s	5	—	—	—
—	HR 3825 STAR	B5 II	α 09, 33, 00 δ -59, 00, R , ,	H	SWP 3451 1+8	625 195	-1.15 0.08	S	C	19 38	6m 00s	6	—	—	—

OBSERVATORY LOG

DATE D 26 M NOV Y 78 RAW TAPE D 26 Y NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undev/f.s	FOCUS ANG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 461	DUP ACOR SNR	/ /	α 08, 22, 33.5 δ -42, 49, 20 R , ,	L	SWP 3460 1+1	BLIND OFFSET	-1.15 0.08	L	O	14 38	1h	1	?	2 SPOTS CONNECTED TO EACH OTHER BY A FAINT HAIRLINE. MAGE? BOTH CAMERAS CONTEMPOR.	A. WILLIS P.L. SELVELLI
UK 462	DUP ACOR SNR	/ /	α 08, 22, 33.5 δ -42, 49, 20 R , ,	L	LWR 3039 1+2	BLIND OFFSET	0.08	L	O	14 40	1h 31m	1	1	REPOSING	—
463	NGC 3783 SEYFERT	/ 13.0	α 11, 36, 33 δ -37, 27, 40 R , ,	L	SWP 3461 1+3	80 ~0 OV/S	-1.6 0.08	L	O	17 11 40	40m	2	3	—	—
464	〃 〃	〃 〃	α 〃, 〃, 〃 δ 〃, 〃, 〃 R , ,	L	LWR 3040 1+4	80 ~0 OV/S	-1.6 0.08	L	O	17 57	60m	3	4	—	—
465	〃 〃	〃 〃	α 〃, 〃, 〃 δ 〃, 〃, 〃 R , ,	L	SWP 3462 1+5	〃 〃	1.5 0.08	L	O	19 02	44	2	3	—	—
—	—	—	α , , δ , , R , ,	—	1+	—	—	—	—	—	—	—	—	—	—
—	—	—	α , , δ , , R , ,	—	1+	—	—	—	—	—	—	—	—	—	—
—	—	—	α , , δ , , R , ,	—	1+	—	—	—	—	—	—	—	—	—	—

OBSERVATORY LOG

DATE D 27 M NOV Y 78 RAW TAPE D 27 Y NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
OBS. PROGR.	NGC 7582 GALAXY	14.0	α 23,15,39.8 δ -42,38,43 R , ,	L	SWP 3471 1+1	100 ↓ ~70	-1.6 .10	L	O	130854	240m	2	2		P.L. SELVELLI
OBS PROGR.	NGC 7582 GALAXY	14.0	α " " " δ " " " R , ,	L	LWR 3051 1+2	90 ↓ ~10	-12 .08	L	O	17 16 02	150m	2	7		" " "
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , ,												

OBSERVATORY LOG

DATE D 28 M NOV Y 78 RAW TAPE D 28 Y NOV

~~ESA~~ / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 37 466	3C 390.3 SEYFERT GALAXY	15.0	α 18 45 32.6 δ +79 43 06 R , ,	L	SWP 3478 1+1	BLIND OFFSET	.10 .08	L	O	132720	180m	3	4	Lya	A. WILLIS P.L. SELVELLI
~~28~~ 467	3C 390.3 SEYF. GAL.	"	α " " " δ " " " R " " "	L	LWR 3057 1+2	" "	.08	L	O	164440	190m	3	8	Read down at GSFC - Play Back 29/11/78	" " "
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,												

OBSERVATORY LOG

DATE D 29 M NOV Y 78 RAW TAPE D 29 Y NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
80033	N 63 A	~~peculiar~~	α 5 , 35 , 44		SWP	Blind	-10							Amazing: HII region	P. Benvenuti
	75	—	δ -66 , 04 , 18	L	3490	offset	0.7	L	0	13:08	395:00	6	4	and SNR spectra	P.B.
		-?	R 198 , 0 , 0		1+									spatially separated	
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												

OBSERVATORY LOG

DATE D 30 M NOV Y 78 RAW TAPE D 30 Y NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
~~UK 037~~	MK 279	—	α 13 , 51 , 52.5		SWP	Blind	-1.3				180:00			Good spectrum	A. WILLIS / P.B.
468	84	~15	δ 69 , 33 , 16	L	3497	offset	.72	L	0	13:11:13	~~0:27:11~~	3	4		
UK 037			R 214 , 55 , 0		1+1										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
469			α , ,		LWR	Blind	-.8				160:00			Faint! Object	
UK 037			δ , ,	L	3073	Offset	.08	L	0	16:28:00		2	3	right out?	
			R , ,		1+2										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												

OBSERVATORY LOG

DATE D 1 M 12 Y 78 RAW TAPE D 1 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PSD1.3	HD217050 star	B3e 5.4	α 22,54,51.6 δ 48,25,0 R , ,	H	SWP3503 1+1	21000 1550	-1.2 1.48	S	/	11:16:21	7:30	5	-	very good	F.Boeckmann
"	"	"	α , , δ , , R , ,	H	LWR3081 1+2	2000 2200	-1.2 1.52	S	-	11:29:37	10:30	6 7	-	useful spectrum because SOL with (A > 200 nm part	"
"	HD10516 star	Bone 4.06	α 1,40,31 δ 50,26,- R , ,	H	SWP3504 1+3	770 (under) 200 UNDER	-0.8 0.80	S	-	12:52:17	1:30	5	-		"
"	"	"	α , , δ , , R , ,	H	LWR3082 1+4	750 266 UNDER	-0.8 0.52	S	-	12:37:10	1:45	6	-	[illegible]	"
"	HD41335 star	B2Va 5.20 0.14	α 6h,1m,45.6 δ -6°,42',39".4 R , ,	H	SWP3505 1+5	21000 1500 OV	-0.5 0.08	S	-	14:38:14	5:30	5	-		"
"	"	"	α , , δ , , R , ,	H	LWR3083 1+6	21000 1500 OV	-0.5 0.08	S	-	14:48:53	6:00	7	-	good exposure at short wavelengths most of the shell lines are	"
"	HD37202 Star	B2IIIpe 3.03 0.05	α 5h,34m,39.3 δ 21°,6',50" R , ,	H	SWP3506 1+7	1850 500 under	+1.1 0.08	S		16:10:06	0:40	5	-		"
			α , ,	H	LWR3084	1900	+1.1	S		16:15:00	0:50	7	-		

OBSERVATORY LOG

DATE D 1 M 12 Y 78 RAW TAPE D 1 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PSD1.3	HD37202	B2IIIpe 3.03 0.05	α 5,34,39.3 δ 21,6,50 R , ,	H	LWR 3085 1+9	1900 600 UNDER	0.08	S	-	17:35:38	0:30	5	-	first data lost (antenna misfit)	T.Boeckmann
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										

OBSERVATORY LOG

DATE D 2 M 12 Y 78 RAW TAPE D 2 Y DEC

ESA/UK UK ID. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK UK037 470	NGC 3783 SEYF. GAL	12.0	α 11, 36, 33 δ -37, 27, 40 R , ,	L	SWP 3509 1+1	73 4 OV/S	+0.1 1.06 (+0.12 and)	L	0	11:02:03	180:00	3	7	only CTR emulsion not functional	A.WILLIS/ F.BECKMAN
UK Ø37 471	"	"	α , , δ , , R , ,	L	LWR 3092 1+2	70 — OV/S	1.66 0.08	L	0	14:25:04	60:00	3	5		"
UK Ø37 472	(Vela X-1) HD77581 X-Ray	6.5 ?	α 9h, 00m, 13s δ -40°, 21', - R , ,	H	SWP 3510 1+3	55000 7 OV/f	0.08	L	0	16:11:10	90:00	4	11		"
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , ,												

OBSERVATORY LOG

DATE D 3 M 12 Y 78 RAW TAPE D 3 Y DEC

ESA/UK UK ID. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
H.M.043	HD226868	09.7Ia 8.9	α 19h, 16m, 29s δ 35, 04, - R , ,	L	SWP 3518 1+1	3000 3 OV/f	-1.2 1.2	L	0	11:01:18	60:00 (Probably 58:18)	5	-	Intensity index Index Lost	MAN.DER/ BEECKMAN
"	"	"	α , , δ , , R , ,	L	LWR 3094 1+2	900 4 OV/f	-0.9 0.26	L	0	12:32:18	60:00	7/8	-	factor 2 overexposed	"
"	HD77581 X-Ray	8.0 16 6.9	α 9h, 00m, 13s δ -40°, 21', - R , ,	H	SWP 3519 1+3	5900 21 OV/f	— 0.09	L	0	15:21:40	120:00	5	-	max: 220 DN, background = 600 DN ⇒ exposure could be longer. Variation after 1 day?	"
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , ,												

OBSERVATORY LOG

DATE D 4 M DEC Y 78 RAW TAPE D 4 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UKØ34 473	HZ Her X-RAY	? 13.5	α 16h 56m 01.6 δ +35° 25' 5".3 R , ,	L	SWP 3524 1+1	~100 7	-1.5 1.24 →	S	O	11:07:24	180 min	6	5	Excellent.	A. WILLIS / D. STICKLAND
474	CAL WL	—	α , , δ , , R , ,		SWP 3525 1+2	—	—	S L	O O	14 33	1s	—	—	Both rather wk at short end.	"
475	NOVA CYG	~12 Q.	α 21. 40. 38.3 δ +43. 48. 09 R , ,	L	SWP 3526 1+3	180	0.08	S L	O O	15:42:52 15 51:37	3m 9m	1 2	5 7	Brilliant combination	"
476	"	"	α , , " δ , , R , ,	L	LWR 3100 1+4	"	-0.9 0.08	S L	O O	16:09:14 16:19:41	5m 12m	2 3	5 7	Good const.	"
477	WZ SGE	~8	α 20. 5. 18 δ +17. 32. 56 R , ,	H	SWP 3527 1+5	14.00	-0.9 —	L	O	17:41:00	35m	4	3	Weak - could do with >1 hr	"
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										

OBSERVATORY LOG

DATE D 5 M DEC Y 78 RAW TAPE D 5 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
Target of opportunity	WZ Sge Rec. Nova outburst	— ~8.9 ?	α 301°, 19', 37".5 δ 13°, 32', 56" R , ,	H	LWR 3108 1+A	1280 10 ov/f	-1.4 0.9	L	O	10:45:56	20:00	4	-	mean DN/60 mean background ~40DN	Observatory / Beckman
HM042	HD226868	09.7Ia 8.9	α 19h, 56m, 24s δ 35°, 04', - R , ,	L	SWP 3535 1+2	900 — ov/f	-1.8 0.4	L	O	11:58:55	60:00	5	=		Marsden / Beckman
"	"	"	α , , , δ , , , R , ,	L	LWR 3109 1+3	980 3 ov/f	-2.3 0.08	L	O	13:18:10	20:00	7	=		"
"	HD37128	09.5Ia 1.2	α 5h, 33m, 41s δ -0°, 04' R , ,	H	SWP 3536 1+1	6500 3200 UN/f	-2.5 0.08	S	C	15:16:24	20:47	5	=	Late 5 Dec / 6 Jan	Friendly / Beckman
PSD013	HD41228	B2Ve 5.20 0.14	α 6h, 1m, 41.6 δ -6°, 42', 19".4 R , ,	H	SWP 3537 1+2	22000 1560 ov/f	-1.8 0.08	S	C	16:10:50	05:30	5	=		Beckman
"	"	"	α , , , δ , , , R , ,	H	LWR 3110 1+3	23000 2000 ov/f	-1.8 0.08	S	C	16:21:40	06:00	7	-	Overexposed by a factor of 2 around 2700 Å.	"
"	HD36166	B2V	α 5h, 27, 19° δ 10°, 45', 51 R 265°, , 26.8	H	SWP 3538 1+4	17000 960 ov/f	— 0.08	S	C	17:19:02	04:30	5	-		"
			α , , δ , ,												

OBSERVATORY LOG

DATE D 6 M DEC Y 78 RAW TAPE D 6 Y DEC

~~IUE~~ (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION POLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
13 A 85 478	CAL UV	—	α ~~13~~, 31, 10 δ ~~17~~, 04, — R , ,	L	SWP 3543 1+1	— —	-1.2 1.04 —	L	O	10:20:00	01:00			Flood UV 40%	R. Wilson P.B.
13 A 85 479	Φ 1331+17 85	16.0	α 13, 31, 10 δ 17, 04, R 232, 13, 56.	L	SWP 3544 1+2	Blind offset	-1.4 0.98	L	O	11:27:15	378:00	~~Φ~~	~~Φ~~	No wide aperture	S J
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , ,												

OBSERVATORY LOG

DATE D 7 M DEC Y 78 RAW TAPE D 7 Y DEC

(ESA)/UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION POLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HD 0643	HD 37128 13	0.5Ia 1.7 ~ 0.0	α 5, 33, 41 δ -1, 14, R 202., 3, 49	H	LWR 3119 1+1	6400 2051	-1.2 .92	S	C	10:36:06	00:06	57	Φ	GOOD	HANDER P.B.
~~HD~~	HD 77581 23	B0Ia6 6.9	α 9, 0, 13 δ -60, 21, R , ,	H	SWP 3550 1+2	5723 13	-1.1 .72	L	O	11:05:15	160:00	4	4	Slightly weak	
	4 4	4 4	α 4, 4, 1 δ 4, 4, 4 R ~, ~, ~	H	LWR 3120 1+3	5600 15	~ 0.1	L	O	13:36:00	50:00	4	Φ	Slightly weak	4
	HD 226868 13	09.7Ia 8.9	α 13, 56, 29 δ +35, 06, R , ,	L	LWR 3121 1+4	933 8	~ 0.08	L	O	15:35:27	10:00	5	Φ	GOOD	4
	HD 24534 23	B0I 6.1	α 3, 52, 15 δ 30, 54, R , ,	L	LWR 3122 1+5	7400 ~~751~~	~ .08	L	O	16:28:10	~~00:10~~	4	Φ	Slightly weak	4
	4 4	4 4	α 4, 4, 4 δ 4, 4, 4 R ~, ~, ~	H	SWP 3551 1+6	7400 ~~734~~	.8 .08	S	C	16:32:28	26:00	4	Φ	4 4	4
	4 4	4 4	α 4, 4, 4 δ 4, 4, 4 R ~, ~, ~	H	LWR 3123 1+7	4 4	.8 .08	S	C	17:02:13	20:00	4	Φ	4 4	4
	4 4	4 4	α 4, 4, 4 δ 4, 4, 4 R	L	SWP 3552 1+8	4 4	4 4	L	O	17:29:24	00:06	3	Φ	weak,	4

OBSERVATORY LOG

DATE D 8 M DEC Y 78 RAW TAPE D 8 Y DEC

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 13A 480	CALUV	—	α —, —, — δ —, —, — R —, —, —	—	LWR 3125 1+1	— —	-.7 1.08	— —	— —	10:21:00	01:10	—	—	Ok.	K. WILSON / RB
481	Q 1011+25 85	— 15.6	α 10, 11, 06 δ 25, 04, 0 R 253, 20, 56	L	LWR 3126 1+2	— Blend offset	-.8 0.20	L	0	11:38:59	368:00	3	3	Faint Max DN ~ 20	LG
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α												

OBSERVATORY LOG

DATE D 9 M DEC Y 78 RAW TAPE D 9 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA PT037	NGC 4151 84	Sy first 12	α 12, 8, 0 δ 39, 40, 54 R 242, 12, 33.6	L	LWR F 3129 1+1	98 8	-.79 .20	L	0	11:10:33	30:00	5	6		PEROLA CASOTTELLA
"	"	"	α " , " , " δ , , R , ,	L	SWP 3557 1+2	"	-.64 .10	L S	0 C	12:13:45	30:00 60:00	3 2	6 5	C III 1909 190 DN 130 DN	"
"	"	"	α " , " , " δ , , R , ,	L	LWR 3130 1+3	"	-1.32 .08	L	0	13:30:09	60:00	5	6	Mg II region saturated	
"	NGC 5253 88	12.7	α 13, 37, 54 δ -31, 23, 24 R 267, 33, 32.2	L	SWP 3558 1+4	34 u/f	-.81 .08	L	0	15:?2:26	30:00	2	3		"
"	"	"	α " , " , " δ , , R 267, 33, 32.2	L	LWR 3131 1+5	37 u/f	-.47 .08	L	0	16:00:16	105:00	9	0		"
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										

OBSERVATORY LOG

DATE D 10 M DEC Y 78 RAW TAPE D 10 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PK. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK043	JUPITER	G	α 8,43,26	L	LWR	2220	-0.9	S	O	11:36:22	2:00	7	ϕ	BUTTERWORTH	BUTTERWORTH
	CENTRE		δ +18,41,		3133	Ganymed	0.12							CALC. POSN.	STICKLAND
482	EQUAT		R 255,20,		1+1			L	O	"	"	2	ϕ	+ WSP IN LA:WIDE	
	"	"	α , ,	L	SWP	2200	-0.9	S	O	11:46:13	20:00	4	2	"	"
			δ , ,		3568	Ganymed	0.17							LR ; cont at LW.	
483			R , ,		1+6			L	O	"	"	ϕ	2	LY	
	"	"	α , ,	L	LWR	2000	-0.9	S	O	12:19:06	0:15	5	ϕ	"	"
			δ , ,		3134	Gany	0.16							Very good.	
484			R , ,		1+2										
	JUPTER	"	α , ,	L	LWR	2100	-1.0	S	O	12:54:46	0:15	5	ϕ		"
	E LIMB		δ , ,		3135	Gany	0.06							Very good	
485	EQ		R , ,		1+3										
	JUPITER	"	α , ,	L	LWR	2100	-0.9	S	O	13:25:48	0:15	4	ϕ	MISSED	"
	W LIMB		δ , ,		3136	Gany	0.06					7			
486	EQ		R , ,		1+4										
	JUPITER	"	α , ,	L	LWR	2400	-0.7	S	O	13:59:00	0:15	3	ϕ	WEAK - PROB ON	"
	N POLE		δ , ,		3137	Gany	0.08							EDGE.	
487	+ S POLE		R , ,		1+5			L		"	"	7	ϕ	WIDE	
	JUPITER	"	α , ,	L	LWR	2200	-0.7	S	O	14:41:30	0:15	5	ϕ	Very good	"
	INTERMED		δ , ,		3138	Gany	0.06								
488			R , ,		1+76										
	JUPITER	"	α , ,	L	LWR	1600		S	O	15:16:17	0:15	1	0	Missed again	
	S POLE		δ , ,		3139	Gany	0.08								

OBSERVATORY LOG

DATE D 10 M DEC Y 78 RAW TAPE D 10 Y D

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PK. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK043	GANYMEDE	G	α 8,43,43	L	LWR	24000		S	O	15:52:01	4:00	7	ϕ		BUTTERWORTH
		~6	δ +18,40,20		3140	3700,5	0.08								STICKLAND
490			R , ,		1+9	1600,L		L	O	16:00:51	1:00	5	ϕ	GOOD	
	MOON	G	α 2,34,30	L	LWR		-0.8	S	C	17:42:35	0:28	7	ϕ		"
			δ +5,46,0		3141	SAFE	0.08								
491			R , ,		1+10	3200		L	O	17:44:09	0:3	7	ϕ		
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										
			α , ,												
			δ , ,												
			R , ,		1+										

OBSERVATORY LOG

DATE D 11 M DEC Y 78 RAW TAPE D K M DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA PT037	CALUV	/	α / δ / R	/	SWP 3570 1+1	/	/	/	/	10:59:00	1:00	/	/		TARENGHI CASSATELLA
"	M87 SET 86	Galaxy 12	α 12, 28, 16.73 δ 12, 40, 6.8 R 242, 44, 7.6		SWP 3571 1+2	/	-.76 -10	L	O	11:37:00	370:00			blind offset	"
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ		1+										

OBSERVATORY LOG

DATE D 12 M 12 Y 78 RAW TAPE D 12 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 13A ~~497~~	CAL UV		α δ R		LWR 3153 1+1	/	/			10.43	1m10s				WILSON SELVELLI
" " ~~493~~	MKN 205 MARK. CAL	14.5	α 12, 19, 37 δ 75, 35, 15 R	L	LWR 3154 1+2	BLKD OFFSET	-0.15 0.20 0.18	L	O	11.43	360m	4	4		h m h m
348	E Ind	/	α δ R		LWR 2611 1+3	/	/			/	/			Replayed from History tape Paul Murray	
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										

OBSERVATORY LOG

DATE D 13 M 12 Y 78 RAW TAPE D 13 DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA PT037	M 87 JET GAL.		α 187, 04, 10.9 δ 12, 40, 6.8 R , ,	L	LWR 3159 1+	BLWD OFFSET	-1.10 0.10 i. 0.08	L	O	11 13 40	390	2	1		PEROLA-TARENGHI STEL VELLI
" "	M 87		α " , " , " δ " , " , " R " , " , "	L	SWP 3584 1+	"	"	"	"	11 16 19	360	/	/	EXPOSED CONTEMPORA TO LWR 3159 ≈FLAT FIELD ONLY	PEROLA-TARENGHI STEL VELLI
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										

OBSERVATORY LOG

DATE D 14 M DEC Y 78 RAW TAPE D 14 DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK035 494	WZ SGE 54	wd? ~10	α 20, 5, 18 δ +17, 32, 56 R 134, 32, 32	L	SWP 3591 1+1	550 30	-0.6 0.08	S L	O O	10:50 10:57:25	2:0 4:0	3 4	4 5	Quite good comb.	STICKLAND
495	"	"	α , , δ , " , R , ,	L	LWR 3167 1+2	"	-0.6 0.08	L S	O O	11:26:25 11:34:15	4:0 2:0	7 3	ϕ ϕ	Needs revision	"
496	"	"	α , , δ , " , R , ,	L	LWR 3168 1+3	"	0.08	L S	O O	12:26:16 12:41:01	2:0 4:0	5 5	ϕ ϕ	OK	
497	"	"	α , " , δ , , R , ,	L	SWP 3592 1+4	"	0.08	L S	O O	12:31:19 12:48:53	4:0 8:0	5 6	5 7	V Good use ~6 mc	
498	"	"	α , " , δ , , R , ,	L	LWR 3169 1+6	"	0.08	L S	O O	13:24:37 16:36:47	2:0 4:0	5 3	ϕ ϕ	OK Weak	
499	"	"	α , , δ , " , R , ,	L	SWP 3593 1+5	" Drifted out	0.08	L S	O O	14:04:08 14:11:06	3:30 6:00	5 2	5 3	Drifted out	
500	"	"	α , " , δ , , R , ,	L	SWP 3594 1+7	380	0.08	L S	O O	15:24:10 15:55:55	15:0 6:00	2 5	3 5	Slews: 10 min = 20" Pict wrongly set. X ~~5~~ two fa x t	" Noisy image
501	"	"	α , , δ , , R , ,	L + Hi	SWP 3595 1+9	-		L	O	16 39 40 16 43 21	~2:00 60:00	5 3	5 3	A bad - could be useful???	"

LWP safety read as 1+8

OBSERVATORY LOG

DATE D 15 M DEC Y 78 RAW TAPE D 15 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FA. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	HD 206860 44	G0 V 5.94	α 21h 42m 9.5 δ 14° 33' R 120, 33, 18.1	H	CWR 3174 1+1	11800 38 ov	-.10 .40	L	0	10:32:00	52:00	6	0	ok	C. BLANCO E. MARILLI D.H.
	"	"	α δ R	L	SW 17 3608 1+2	11200 35 ov	-.19 .08	L	0	11:40:40	100:00	7	0	CWR dump	"
	HD 201091 (46 Cyg A) 46	K5 V 5.72	α 21h 04m 40.5s δ 38° 30' R 130, 57, 51.4	H	CWR 3175 1+3	20 000 97 ov	-.19 .08	L	0	14:08:22	30:00	2	6	Mg lines ok	"
	HD 29139 46	K5 III 0.86	α 4h 03m 35 δ +16° 24' R 119, 44, 16.6	H	CWR 3175 1+4	9800 4100 u	-0.2 .08	S	C	16:01:48	8:00	2	5	Mg lines ok	"
	HD 209750 44	G2 I 2.93	α 22h 03m 14 δ -0° 34' R 114, 36, 33.1	L	SW 9 3609 1+5	1800 540/20 u	.17 .08	S + L	C + 0	17:32:36 + 17:41:30	5:00 + 5:00	2 / 1	0 / 0	strongly contaminated Cyrican. beam	"
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										

OBSERVATORY LOG

DATE D 16 M DEC Y 78 RAW TAPE D 16 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION POLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EXL LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA UK 502 UK033	Mk231 84	— 14.	α 12, 54, 05 δ +57, 08, 37 R 240, 41, 39.6	L	LWR 3185 1+1	blind offset	-0.6 0.14	L	0	11:35:50	370:09	2	3		Snijders MVP
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										

OBSERVATORY LOG

DATE D 12 M DEC Y 78 RAW TAPE D 12 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	HD.20Leq1. 46 (61 Cyg. A)	KE 5.22	α 21h, 04m, 40s δ 38°, 30', R 132, 31, 33.2	L	SWP 7122 1+1	80.000 100 ov	.7 →1.6 .20 →.08	L	O	11:08:49	120:00	0	3	underexp.	C. BLANCO E. MARILLI P.H.
	HD105183 (OFFICE FK)	10	α 12h, 09m, 06s δ 11°, 57', R 245°, 48', 47".0	L	LWR 3191 1+2	164 0 ov	-1.4 .08	L	O	14:02:51	11200	5	0	OK perfect	"
	46	"	α , , δ , " , R , ,	L	SWP 3623 1+3	160 0 ov	-1.0 .08	L	O	14:30:32	15200	5	0	OK	"
	HD.30228.70 41	FE 3.60	α 11h, 48m, 01s δ 20, 31', R 246°, 34', 15".1	H	LWR 3192 1+4	950 322 u	-1.0 .08	S	C	15:16:33	15600	6	0		"
	41	"	α , , δ , " , R , ,	L	SWP 3624 1+5	990 330/ u150	-1.0 .08	S + L	C + O	16:05:20 + 16:12:23	1200 + 3100	3 3	0 0	strongly underexp.	"
	HD.116.379 46	FE 3.65	α 13h, 39m, 9s δ -1°, 11', 30 R 246, 10, 11.9	H	LWR 3193 1+6	2000 1000 u	-1.3 .08	S	C	17:07:51	1100	3	0		"
	41	"	α , , δ , " , R , ,	H	SWP 3625 1+7	2000 1000 u	-1.3 .08	S	C	17:28:53	5000	3	0		"
			α , , δ ,												

OBSERVATORY LOG

DATE D 18 M 12 Y 78 RAW TAPE D 18 Y DEC78

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
503 UK033	II ZW 136 84	1 14	α 21, 30, 01.25 δ 09, 55, 00.3 R 121, 42, 21	L	SWP 3637 1+1	bl.of(sel) visible 1.25 kb	-1.8 .08	L	O	11:03:29	12000	4	5	Lya is perfect cont ≈ 700 DN	Snijders clavel
504	NGC 1052 84	12	α 02h, 38m, 37.3s δ -08, 28', 08" R 176, 27, 58.1	L	LWR 3198 1+2	44 7 und/f	-1.4 .08	L	O	14:00:24	22500	2	2	faint spectrum	"
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										

OBSERVATORY LOG

DATE D 19 M 12 Y 78 RAW TAPE D 19 Y DEC 78

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
505 UK033	PKS2158-380 84	Seyfert 14	α 21, 58, 17 δ -38, 01, 01 R 93, 59, 10.1	L	SWP 3644 1+1	blend offset	.08 -.7	L	O	11:43:25	120:00	1	3	no continuum, Lyα ? yes	Snijders Clavel
506 "	NGC 1052 84	Seyfert 12	α 02, 38, 37.3 δ -08, 28, 08 R 125, 49,	L	SWP 3645 1+2	44 8	.08 -	L	O	14:42:40	183:00	2	2	faint continuum	"
/			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ												

OBSERVATORY LOG

DATE D 20 M DEC Y 78 RAW TAPE D 354 Y 1978

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA CBØ31 "	HD206860 44	G0 IV 5.34	α 21, 42, 09 δ +14, 33, 0 R 123, 05, 21.1	H	LWR 3215 1+1	12000 240 f/ov	1.20 -.7	L	O	10:22:51	48:00	6	6	perfect MgII, some pixels sat, long wing.	C. BLANCO C. CLAVEL
"	HD209750 44	G2 I 2.93	α 22, 03, 13 δ -0, 34, 0 R 115, 39, 37.4	L	SWP 3651 1+2	1565 240 f/ov	-.57 -.46	L	O	11:40:01	22:00	4	4	a bit weak, cutoff $\lambda < 1600$ but OII (1302) OK	"
"	"	"	α δ " R	H	LWR 3216 1+3	1600 590 f/ov	-.9 .3	S	C	12:11:03	30:00	6	6	excellent MgII some pixels saturated.	"
"	HD161797 44	G5 III 3.41	α 17h 44m 30s δ +27° 45' 0" R	L	SWP 3652 1+4	1400 250	-.9 .2	L	O	12:43:22	20:00	2	3	very faint $\lambda < 1200$	"
ESA NHØ51	HD200120 20	B1.5 Ve 4.8 0.07	α 20h 58m 07s δ +47° 13' 30" R 137, 34, 44.7	H	LWR 3217 1+5	521 190 und/f	.57 .08	S	C	15:09:20	2:00	2	2	underexposed max DN ≈ 20	F. DONZA C. CLAVEL
"	"	"	α δ R	H	SWP 3653 1+6	500 190 und/f	-1.08 .08	S	C	15:42:17	3:00	2	2	underexposed factor 3 to 4	"
"	"	"	α δ R	H	SWP 3654 1+7	"	-.75 .08	S	C	16:19:35	10:30	8	8	overexposed by a factor 3 (?)	"
"	"	"	α δ R	H	LWR 3218 1+8	"		S	C	16:58:00	4:00	6	6	MgII perfect, few pixels sat.	"

OBSERVATORY LOG

DATE D 20 M DEC Y 78 RAW TAPE D 354 Y 1978

ESA / UK PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA NH051	HD200120 20	B1.5Ve 4.8 0.07	α 20h 58' 07" δ +47° 19' 30" R 137°	H	SWP 3655 1+9	500 190 330	-.7 0.08	S	C	17:48:47	5:00	2	2	very underexpo	F. DONZAW C. CLAVEL
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ R		1+										
			α δ												

OBSERVATORY LOG

DATE D 21 M DEC Y 78 RAW TAPE D 71 Y 1978

ESA / UK PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA: NH051	HD50138	B8IIe 6.6	α 6h 49m 07s δ -6° 54' 21" R 203.16 2.3	H	LWR 3225 1+1	8760 1000 F/ov	3.5 1.3 1.22	S	C	10:42:16	75:00	7	7	sat. 2600Å<λ<2900 MgII 2803 OK	DONZAW CLAVEL
	//	//	α δ R	L	LWR 3226 1+2	8430 18	+.8 .08	L	O	12:31:18	1:00	7	7	sat. 2600Å<λ<2900	//
	//	//	α δ R	H	SWP 3662 1+3	8000 397	+.8 .08	S	C	17:39:23	80:00	5	7	excellent λ<1750Å em satur. Longueurs	//
	//	//	α δ R	H	LWR 3227 1+4	8000 15	-1.0 .08	S	C	14:08:14	55:00	5	5	perfect λ>2400Å MgII 2795 std saturation	//
	//	//	α δ R	L	SWP 3663 1+5	8000 350/20	-.5 .08	S L	C O	14:50:28 14:56:33	1:00 1:00	5	5 6	perfect acclimatation	//
	HD200120	B1.5Ve 4.8 0.07	α 20h 58' 07" δ +47° 19' 29" R 138° 57' 12"	H	SWP 3664 1+6	500 20 F/ov	-1.4 .08	L	O	16:50:48	1:40	5	6	excellent few parasit.	//
	//	//	α δ R	H	LWR 3228 1+7	500 20	-1.4 0.08	L	O	17:23:40	1:10	5	5	perfect	//
	//	//	α δ R	L	SWP 3665 1+8	500 0/10	-1.7 0.08	L S	O C	17:30:? 17:36:41	0:03 0:02	8 4	8 4	← mostly sat. ← a bit weak	//

OBSERVATORY LOG

DATE D 22 M DEC Y 78 RAW TAPE D Y

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESCL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
507 UK033	MK231 84	Sey 1 14..	α 12, 54, 04.95 δ +57, 08, 38.10 R 245, 52, 19	L	SWP 3670 1+2	60 1 (1.25Kb)	-1.0 -.8	L	O	11:28:3	380:00	2	2	faint spectrum	PENSTON CLAVEL
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , ,												

OBSERVATORY LOG

DATE D 23 M DEC Y 78 RAW TAPE D Y

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESCL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
NHØ51	HD50138 22..	B8IIe 6.6	α 6h, 49m, 07.6s δ -6°, 54', 21.5" R 199, 48, 2.9	L	LWR 3247 1+1	8000 28/500 f/ov	-1.5 1.0 -	L S	O C	10:37:32 10:42:31	0:35 0:35	7 5	7 6	good combination	THOMAS CLAVEL
	HD200120	B9.5Ve 4.8	α 20h, 58, 07 δ +47°, 19', 29" R 140, 12, 19.5	L	SWP 3681 1+2	500 15910	-.7 .08	S L	C O	12:55:08 13:03:01	0:01 0:01	5 3	5 3	good ← underexposed	//
	//	//	α , , δ , , R , ,	L	LWR 3248 1+3	500 150/20 f/ov	-.7 .08	S L	C O	12:50:17 12:58:01	0:01 0:01	3 5	3 5	underexp. exposure	//
	HD31293	B9IIe 7.2	α 4h, 52.3s δ +30, 28, 21" R 70, 30, 40.2	H	SWP 3682 1+4	5900 20 f/ov	-.2 .08	L	O	14:07:24	270:0	6	7	over exp $\lambda > 1800$Å under exp $\times$ 1380	
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										

OBSERVATORY LOG

DATE D 24 M DEC Y 78 RAW TAPE D 24 M DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 508	WZ Sge DwNova	~11	α 20, 5, 18 δ +17, 32, 56 R 144, 4, 45	L	SWP 3687 1+1	270 20	-0.8 0.48	L S	O O	10:37:02 11:07:28	20:00 8:00	5 5	5 5	Start ~ 10:38 in slot. Trailed exp. 20"/15m	STICKLAND
509	"	"	α , , δ , , R , ,	H	LWR 3261 1+6,7		0.08	L	O	11:20:00	120:00	4	0	25 min exposures x5 Weak. Use 1+7	"
510	"	"	α , , δ , , R , ,	L	SWP 3688 1+2	250 15	0.08	S L	O O	11:49:33 12:00:30	6:00 4:00	4 5	5 5	Very good.	"
511	"	"	α , , δ , , R , ,	L	SWP 3689 1+3	270	-0.7 0.08	S L	O O	12:41:07 12:53:16	7:00 4:00	5 5	5 5	"	"
512	"	"	α , , δ , , R , ,	L	SWP 3690 1+4	250 14	-0.1 0.08	S L	O O	13:32:37 13:44:38	7:00 4:00	5 5	5 5	"	"
513	"	"	α , , δ , , R , ,	L	SWP 3691 1+5	250	-0.8 0.08	S L	O O	14:22:45 14:34:56	7:0 4:00	5 5	5 5	"	"
514	"	"	α , , δ , , R , ,	H	SWP 3692 1+9	250	-0.8 0.08	L	O	15:14:41 +16:15:01	30:00 90:00	3	3	"	"
etc	"	"	α , , δ , ,	L	LWR 3262		-1.6	S	O	16:06:23 16	4:00	4	0	"	"

OBSERVATORY LOG

DATE D 25 M DEC Y 78 RAW TAPE D 25 DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 033 516	NGC 4151 84	Seq 1 11-5	α 12, 08, 00 δ +39, 40, 59.9 R 252, 12, 37.5	H	SWP 3704 1+1	55 0 ok	-0.9 0.22	L	O	11:05:24	40 00	2	3		PENSTON
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										

OBSERVATORY LOG

DATE D 26 M DEC Y 78 RAW TAPE D 26 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CAL 517	BD+75 325	0 sd. 9.5	α 8,4,43 δ +75, 6, 48 R 328, 51, 57.5	L	LWR 3282 1+1	650 60	-0.4 0.36	L S	O C	10:49:23 10:53:05	0:35s 0:55s	5 4	ϕ ϕ	1 Pixel sat. Good.	STICKLAND
518	"	"	α , , δ , , R , ,	H	SWP 3710 1+2	650 27	"	S	C	10:58:19	35:00	4	ϕ	Using GSFC recom. time! Next time try ~1hr.	"
519	"	"	α , , δ , , R , ,	H	LWR 3283 1+4	650	-1.2 0.08	S	C	11:38:11 12:15:53	25:00 25:00	5	ϕ	2 exposures at HTR HI OK in 26-2900A	"
520	"	"	α , , δ , , R , ,	L	SWP 3711 1+3	666 2 L 44 S	-1.2 0.08	L S	O C	12:07:54 12:11:26	0:15 0:24	5 5	ϕ ϕ	Almost identical	"
521	HD 3360 ζ Cas.	B2V 3.6.	α 0,34,10 δ +53, 37, 19 R 101, 14, 43.3	H	LWR 3284 1+6	1000 300 U/L	-0.1 0.08	S	C	13:27:59	0:35	5	ϕ		"
522	"	"	α , , δ , , R , ,	H	SWP 3712 1+5	1000 325.	+0.2 0.08	S	C	13:30:57	1:00	7	ϕ	Lower dil. Use 40s next time.	"
FIL 523	HD 224014 ζ Cas	F8Ia 4.4	α 23,51,33 δ +57, 14, 0 R 108, 19, 24.5	L	SWP 3713 1+7		-0.1 0.08	L	O	14:14:58	45:00	1	1	Nothing at all (ex Geo. Ly α)	"
TOO [illegible]	NOVA CYG	Q ~100	α 21,40,38.3 δ +43, 48, 9	L	LWR 3285	100	-1.0 0.08	L	O	15:55:50	15:00	3	7	Good comb.	"

OBSERVATORY LOG

DATE D 26 M DEC Y 78 RAW TAPE D 26 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK TOO 525	NOVA CYG	Q ~12	α 21,40,38.3 δ +43, 48, 09 R 134, 10, 47.8	L	SWP 3714 1+9	100 8	-1.3 0.08	S L	O O	16:23:53 16:30:56	3:00 12:00	1 2	5 7	V Good comb.	STICKLAND
UK CAL 526	BD+28° 4211	O7p 10.5	α 21,48,56 δ +28, 37, 35 R 130 16 22.2	L	LWR 3286 1+10	280 2 4 16 s	-1.2 0.08	L S	O O	17:11:13 17:15:09	1:00 1:40	5 5	ϕ ϕ	Good.	
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										
			α , , δ , , R , ,		1+										

OBSERVATORY LOG

DATE D 27 M DEC Y 78 RAW TAPE D 27 Y DEC

ESA / ~~IUE~~ UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undon/f.s	FOCUS BKG	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	BD 18°2910 (Feige 101) 82	B8 12 Uno	α 14 , 38 , 24 δ +17°, 03', R 234, 41 , 31.7	L	LWR 3301 1+ 1	28 0 ov	-0.7 .08	L	0	11:11:29	31:00			No spectrum	F. CIATTI L. BIANCHI A.H.
	4	11	α , , δ , , R , ,	L	SWP 3721 1+ 2	28 0 ov	-1.0 .08	L	0	11:51:17	44:00			No spectrum	11
	TON 209 20	B9 12.5 Uno	α 14h, 33m, 00s δ +27°, 00', R 233, 49 , 40.1	L	LWR 3302 1+ 3	40 0 ov	-1.2 .08	L	0	13:07:04	14:00	5	0	Infant	11
	11	11	α , , δ , , R , ,	L	SWP 3722 1+ 4	40 0 ov	-1.2 .08	L	0	13:40:36	13:48	4	0	SW pat	11
	BD+33° 2431 21	B3 10.0 0	α 13 , 36 , 06 δ +29°, 37', R 240, 41 , 20.7	L	LWR 3303 1+ 5	370 0/23 ov	-1.5 .08	L S	0 C	14:57:14 15:01:04	3:00 3:00	6 5	0 0	OK	11
	11	11	α , , δ , , R , ,	L	SWP 3723 1+ 6	320 30/0 ov	-1.5 .08	S L	C 0	15.01:33 15:13:51	4:00 4:00	4 5	0 0	Image of Aperture — sweep	11
	BD+52° 1681 25.	B9 11.3	α 12 , 52 , 18 δ +52°, 01 , R 248, 37 , 2.5	L	LWR 3304 1+ 6	90 0 ov	-0.6 .08	L	0	16:16:19	27:00			No spectrum : -	11
	11	11	α , , δ , , R , ,	L	SWP 3724 1+ 7	90 0	.08	L	0	16:48:07	55:00			No spectrum.	11

OBSERVATORY LOG

DATE D 28 M DEC Y 78 RAW TAPE D 28 Y DEC

~~ESA~~ UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undon/f.s	FOCUS BKG	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK018 527	HDE 269696 16	S2.0 11.3 —	α 05h, 32m, 8s.1 δ -69°, 55', 07" R 167, 40 , 38.5	L	LWR 3309 1+ 1	160 0/17. ov	-0.3 .08	L S	0 C	10:59:44 11:08:21	8:00 4:00	5 5	0 0	OK Both	A.LYNAS GRAY A.H.
11 528	11	11	α , , δ , , R , ,	L	SWP 3728 1+ 2	150 12/0 ov	-0.3 .08	S L	C 0	11:12:33 11:29:05	5:00 2:30	7 7	0 0	SW just overexp. — in both.	11
11 529	11	11	α , , δ , , R , ,	L	LWR 3310 1+ 3	150 0/15 ov	-1.8 .08	L S	0 C	12:24:28 12:31:51	8:00 4:30	5 5	0 0	OK both.	11
11 530	11	11	α , , δ , , R , ,	L	LWR 3311 1+ 4	150 0/15 ov	-1.8 .08	L S	0 C	13 h 17:07 13 h 21:29	2:00 4:00	5 5	0 0	OK both.	11
11 531	11	11	α , , δ , , R , ,	L	LWR 3312 1+ 5	150 0/15 ov	-1.0 .08	L S	0 C	14:32:20 14:48:44	2:00 4:00	5 5	0 0	Some spectra ~~ov~~ - Lower pass than others (eclipse)	11
11 532	11	11	α , , δ , , R , ,	L	LWR 3313 1+ 6	110 0/15 ov	-1.0 .08	L S	0 C	15:32:51 15:42:00	2:00 4:00	5 5	0 0	OK	11
11 533	11	11	α , , δ , , R , ,	L	LWR 3314 1+ 7	150 0/15 ov	-1.0 .08	L S	0 C	16:26:32 16:34:42	2:00 4:00	5 5	0 0	OK	11
11 534	11	11	α , , δ , , R , ,	L	LWR 3315 1+ 8	150 0/11 ov	-1.0 .08	L S	0 C	17:12:07 17:24:41	2:00 4:00	5 5	0 0	OK	11

OBSERVATORY LOG

DATE D 28 M DEC Y 78 RAW TAPE D 28 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK018 535	HDE 269696 16	SdO n.13 —	α 05h 32m 8s.1 δ −69° 51′ 07″ R 167° 40′ 38.5″	H	SWP 3729 1+9	150 0 ov	−1.0 .08	L	O	13:42:13 13:56:44	28:00 41:00				A.E. GINAS-GRAY A.M.
			α ′ ″ δ ′ ″ R ′ ″		1+					14:29:50 15:00:44	14:00 26:00				
			α ′ ″ δ ′ ″ R ′ ″		1+					15:53:17 16:45:29	26:00 28:00				
			α ′ ″ δ ′ ″ R ′ ″		1+					17:34:19 total →	13:00 178:50	6	0	OK	
			α ′ ″ δ ′ ″ R ′ ″		1+										
			α ′ ″ δ ′ ″ R ′ ″		1+										
			α ′ ″ δ ′ ″ R ′ ″		1+										
			α ′ ″ δ ′ ″ R ′ ″		1+										

OBSERVATORY LOG

DATE D 29 M DEC Y 78 RAW TAPE D 29 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	HD 32041 12	O9 V 5.1 0.2	α 5h 32m 55s δ −5° 26′ R 83 13 44.9	H	SWP 3755 1+1	24000 2500 ov	−1.6 .10	S	C	10:24:13	2:46	5	0	perfect	F. CIATTI L. BIANCHI A.M.
			α ′ ″ δ ′ ″ R ′ ″	H	LWR 3318 1+2	24000 2600 ov	−1.6 .10	S	C	10:47:35	2:00	6	0		
	BD+3°1011 20	B1 Sd 12 n0	α 1h 01m 42s δ +3° 58′ 0.0 R 112° 56′ 32″.1	L	LWR 3319 1+3	60 0 ov	−0.6 .08	L	O	12:84:13	14:00	7	0	a bit overexp	
			α ′ ″ δ ′ ″ R ′ ″	L	SWP 3736 1+4	57 0 ov	−0.6 .08	L	O	12:48:35	14:00	8	0	v.v.overexp	
	HD 206830 44	G0 V	α 21 42 09 δ +14 53 R 128 16 35.3	H	LWR 3320 1+5	11000 42 ov	−1 .08	L	O	14:18:41	48:00	6	0	OK	
	BD−5°5823174 20	B0 Sd 12.5 0	α 23 17 24 δ −5 26 R 112 44 45.2	L	SWP 3737 1+6	60 0 ov	−1. .08	L	O	15:55:16	10:00	9	0	overexp (3-7)	
	HD 245770 20	B0 Vc 9.4 0.8	α 5 35 41 δ 26° 17 R 71 27 40	L	LWR 3321 1+7	958 0 ov	−1.5 .08	L	O	12:10:38	30:00	8	C	LW just overexp.	
			α ′ ″ δ ′ ″ R ′ ″		1+										

OBSERVATORY LOG

DATE D 30 M DEC Y 78 RAW TAPE D 30 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK018 536	HDE 269696 16	S20 11.13	α 05h, 32m, 8.1 δ -69°, 55', 07.4" R 165, 37, 46.3	L	SWP 3743 1+1	160 0/37 ov	-1.0 .02	L S	O C	11:00:59 11:14:28	1:45 3:30	6 4	0 0	....	A.E. LYNAS-GRAY A.H.
" 537	" "	" "	α / / δ / / R / /	L	SWP 3744 1+2	160 0/37 ov	-1.6 0.1	L S	O C	11:55:42 12:04:54	1:55 4:00	6 6	0 0	....	"
538	"	"	α / / δ / / R / /	L	SWP 3745 1+3	160 0/37 ov	-1.6 .08	L S	O C	12:49:48 12:56:32	1:25 3:45	6 5	0 0	OK	"
" 539	" "	" "	α / / δ / / R / /	L	SWP 3746 1+4	160 0/37 ov	-1.4 .08	L S	O C	13:32:55 13:39:51	1:25 3:45	5 6	0 0	..... lack of reproducibility?	"
" 540	" "	" "	α / / δ / / R / /	L	SWP 3747 1+5	160 0/37 ov	-1.4 .08	L S	O C	14:16:23 14:23:33	1:15 3:30	5 6	0 0	OK ..... 8-pixels-overexp.	"
" 541	" "	" "	α / / δ / / R / /	L	SWP 3748 1+6	160 0/37 ov	-1.6 .08	L S	O C	15:00:09 15:09:10	1:15 3:00	5 5	0 0	OK ..... =	"
" 542	" "	" "	α / / δ / / R / /	L	SWP 3749 1+7	160 0/37 ov	-1.6 .08	L S	O O	15:45:31 15:53:26	1:15 3:00	5 5	0 0	OK ..... =	"
" 543	" "	" "	α / / δ / / R / /	L	SWP 3750 1+8	160 0/37 ov	-1.0 .08	L S	O C	16:56:23 17:02:56	1:15 3:00	5 5	0 0	OK	"

OBSERVATORY LOG

DATE D 30 M DEC Y 78 RAW TAPE D 30 Y DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK018 544	HDE 269696 16	S20 11.13	α 05h, 32m, 8.1 δ -69°, 55', 07.4" R 165°, 31°, 46.3		SWP 3751 1+9	150 37	-1.7 .08	S L	C O	17:31:33 17:40:17	3:00 1:15		0 0	(Autoexposed)	A.E. LYNAS-GRAY A.H.
" 545	" "	" "	α / / δ / / R / /	H	LWR 3327 1+10	150 0. ov	-1.6 .01	L	O	11:24:50 18:18:26	25:00 25:00		- -	....	....
			α / / δ / / R / /		1+					13:04:07 13:17:39	25:00 25:00		- -	....	"
			α / / δ / / R / /		1+					14:31:22 15:16:21	25:00 25:00	6	0	OK	
			α / / δ / / R / /		1+					16:01:58 total	50:20 200:00		-	....	
			α / / δ / / R / /		1+									....	
			α / / δ / / R / /		1+									....	
			α / / δ / / R / /		1+									....	

OBSERVATORY LOG

DATE D 31 M DEC Y 78 RAW TAPE D 31 M DEC

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	HD 23568 22	B9.5 6.8 .06	α 03h 44m 01.5s δ 24°, 22', R 97°, 31', 13.4	L	LWR 3337 1+1	6800 19/117 ov	-0.7 .08	L S	O C	11:31:28 11:29:44	0:40 2:30	6 7	0 0	ok	G. BURKI F. LLORENTE A.H.
	"	"	α ' " δ ° ' " R ° ' "	L	SWP 3759 1+2	6700 242/70	-0.7 .08	S L	C O	12:01:07 12:05:07	1:00 0:15	4 3	0 0	wrong!	"
	HD 23324 22	B8 5.61 .06	α 3h, 42m, 11s δ 24°, 41', R 97, 17, 25.7	L	LWR 3338 1+3	17400 57/1700	-0.3 .08	L S	O C	12:53:09 12:56:17	0:08 0:15	6 7	0 0	ok	"
	"	"	α ' " δ ' " R ' "	L	SWP 3760 1+4	17400 900/76	-0.3 .02	S L	C O	13:00:15 13:04:18	0:17 0:09	5 5	0 0	perfect	"
	HD 23561 22	B9.5 C.8 .06	α 03h, 44m, 01s δ 24°, 22', R 97°, 31', 13.4	L	SWP 3761 1+5	6700 17/170	-0. .06	L S	O C	14:05:55 14:09:51	0:38 1:24	4 5	0 0	ok	"
	HD 4630 24	B7 2.86 .06	α 3h, 44m, 31s δ 23°, 57', R 98, 0, 50.9	L	LWR 3339 1+6	1900 700/	-1.1 .08	S L	C O	14:59:54 15:01:14	0:03 0:01	7 6	0 0	low part. sat.	"
	"	"	α ' " δ ' " R ' "	L	SWP 3762 1+7	1900 204/233	-1.1 .08	L S	O C	15:06:36 15:09:49	0:01 0:02	5 5	0 0	ok	"
	HD 23850 24	B2 3.62	α 3h, 46m, 11s δ 23°, 54',	L	LWR 3340	970 164/158	-1.4 .08	S L	C O	16:17:13 16:21:17	0:03 0:01	7 5	0 0	low part. sat.	"

OBSERVATORY LOG

DATE D 31 M DEC Y 78 RAW TAPE D 31 M DEC Y

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	HD 23850 24	B2 3.62 .06	α 3h, 46m, 11s δ 23°, 54', R 97°, 58', 37.8	L	SWP 3763 1+9	970 19/160	-1.4 .08	L S	O C	16:24:18 16:27:38	0:02 0:03	5 5	0 0	[illegible]	G. BURKI F. LLORENTE A.H.
	HD 23762	B8p 5.08 0.06	α 3h, 46m, 13s δ 23°, 54', R 97°, 58', 37.9	L	LWR 3341 1+10	9800 2800/ 142	-1.4 .08	S L	C O	17:00:18 17:04:08	0:20 0:04	6 4	0 0	4 fixed exptm	"
			α ' " δ ' " R ' "		1+										
			α ' " δ ' " R ' "		1+										
			α ' " δ ' " R ' "		1+										
			α ' " δ ' " R ' "		1+										
			α ' " δ ' " R ' "		1+										
			α ' " δ ' " R ' "		1+										