I.U.E

VILSPA OBSERVATORY LOG

VOLUME 4

1981

OBSERVATORY LOG

DATE D 1 M JAN Y 81 RAN TAPE D 1 M JAN

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	TEL CTS ref. p. slot undov/f.s	FOCUS ENC THDA	APERTURE	AP. SHUT.	G.M.T. hhmmss	DURATION mmss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRON.
UK 365 2390	ESO(3)-E645 14	13.2	α 1h, 21m, 51.2 δ −59°, 3', 58" R 109°, 43', 55.3	L	SWP 10941 1+ 1	60 5 4.0.	−1.5 .10 11.5	L	0	09:21:24	25:00	2	5	1	Refl. Pt. = 28.8 MN=	M.V. PENSTON A.H.
" 2391	"	"	α / / / δ / / / R / /	H	LWR 9620 1+	60 5 4.0.	−1.9 .08 11.5	L	0	10:04:34	820:00	2	2	9	Read at GSFC "	" "
			α / / / δ / / / R / /		1+								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 JAN Y 81 RAW TAPE D 2 M JAN

(ESA) / UK UK NO. - PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BMI THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	PACKG.	COMMENTS	OBSERVER / RESIDENT ASTRON: 27
MP 3.98	GSa 113-2242 8"	13.2	α 01h 21m 51s.2 δ -59°, 03', 58" R 108°, 49', 33".4	L	SWP 10947 1+1	62 14 p.o.	-1.1 1.00 11.2	S	O	08:48:30	120:00	3	7	2	MN=	M.V. PRESTON A.M.
"	"	"	α ' " δ ' " R ' "	H	LWR 9625 1+	68 6 p.o.	11.2 .08 15.5	L	O	10:57:08	720:00	2	8	9	Read at 1 QSEC	"
"	"	Secondary	α ' " δ ' " R ' "	L	SWP 10948 1+	"	-1.4 .08 11.5	L	O	11:15:32	720:00		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 3 M JAN Y 81 RAW TAPE D 3 M JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES 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 ASTRONOT
UK 355 2392	T0109 = 38. 84	14	α 01h, 09m, 09s.8 δ −38°, 20', 56" R 110°, 24', 42"6	L	LWR 9627 1+ 1	47 3 8.0.	−0.6 −0.01 15.9	L	0	08:45:43	42:00	3	3	8	MN=	M.V. PENSTON A.H.
			α δ R		1+											
			α δ R		1+								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 4 M JAN Y 81 RAW TAPE D 4 M JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES 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
UK 356 2393	HD 284419 58	K1e 10	α 4, 19, 3.5 δ 19, 25, 12 R 102, 21, 40.7	H	SWP 10955 1+1	388 0 OF	−1.5 .16 11.5	L	0	09:00:19	407:0	0	3	2	$I_{Ly\alpha}(*) = 86$ DN, BKG = 34 $I_{Ly\alpha}(\text{geo}) = 241$ DN MN= 0	BROWN A. CASSATELLA
			α δ R		1+											
			α δ R		1+								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 5 M SAT Y 84 RAW TAPE D 5 M JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 356 2394	HD29139 47	K5III 0.8	α 4,33,2.9 δ 16,24,37 R 106,8,56.6	H	LWR 9644 1+1	9558 UF	1.2 .16 15.9	L	O	8:49:42	210:0	7	7	2	CII 670N, BKG = 79 MgII cut; FES cut MN= 397	BROWN AC
2395	HD12929 47	K2III 2.0	α 2,4,20.9 δ 23,13,37 R 106,10,45.2	H	LWR 9645 1+2	3395 726 UF		L	O	12:58:35	175:0	7	7	2	5±170 min CII 108 BKG = 63 MN = 341	M
			α δ R		1+								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 6 M JAN Y 84 RAW TAPE D 6 M JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
BW 311	HD269006 23	B2.5I 1.0	α 5,2,43 δ -71,24,5 R 151,16,54.7	H	LWR 9651 1+1	172 4 OF	-.5 .68 14.5	L	O	08:30:47	436:0	4	6	9	high background (+110 to 710 not zero) MN= 308	APPENZELLER A.C.
			α δ R		1+											
			α δ R		1+								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 7 M JAN Y 81 RAW TAPE D 7 M JAN

ES / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MF 415	RSO	Pec 11.6	α 1,43,25 δ -74,54,31 R 103,39,46	L	SWP 10990 1+1	382 4 0S	-1.25 .8 12.2	L	O	08:35:38	30:0	2	ϕ	1	C=100, B=25 λ>1500 C=59 λ<1500 MN=5	MURATORIO AC
"	R50	"	α , , δ , , R , ,	L	LWR 9659 1+2	392 1 0S	-4.1 .4 16.2	L	O	09:10:29	20:0	5	5	2	C=178; B=19 (MgII) B=29 MN=211	
"	S67-111 .13	Of 12.6	α 5,26,58 δ -67,32,02 R 155,50,50	H	SWP 10991 1+3	176 0 0S	-1.1 .08 11.5	L	O	10:12:48	335:0	4	4	2	C=150 B=35 MN=2	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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DATE D 8 M JAN Y 81 RAW TAPE D 8 M JAN

ES / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
BW 311	HDE269006 23	B2.5Ia 10.9	α 5,2,43 δ -71,24,5 R 149,13,31	H	SWP 10999 1+1	169 7 0F	-.7 .9 9.2	L	O	08:32:08	435:0	3	ϕ	4	C=160 B=90 very faint λ<1600 MN=2	APPENZELLER AC
			α , , δ , , R , ,		1+			/							MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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DATE D 9 M JAN Y 81 RAW TAPE D 9 M JAN

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 356 2396	HD 214952 49	H3 II 2.2	α 22, 39, 41.4 δ -47, 8, 48 R 75, 36, 32.6	H	LWR 9677 1+1	4485 1083 UF	-1.2 .32 15.5	L	O	08:57:51	85:00	3	6	4	E = 176 (C11) B = 36, guide (-336,7) 215 CTS MN= 335	BROWN PP+AC
2397	HD 209100 46	K5 V 4.7	α 21, 59, 31 δ -56, 59, 34 R 56, 24, 12	H	LWR 9678 1+2	2814 86 OF	-0.92 .08 16.2	L	O	11:16:23	271:00	7	6	8	Mg II overex. 4X MN= 224	BROWN PP+AC
			α δ R		1+										MN=	
			α δ R		1+								1		MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 10 M 01 Y 81 RAW TAPE D 10 M 01

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
KF 36.7	HD 2151 44	G2 III 2.8	α 00h, 23h, 09.0 δ -77, 31, 59.9 R 79, 52, 46.8	H	LWR 9684 1+1	1785 278 UF	-.17 .36 14.8	L	O	08:53:07	15:00	7	5	2	MN= 554	P. Linde AC+MM
"	"	"	α δ R	H	LWR 9685 1+2	270 4F	-1.3 .08 15.2	L	O	09:33:15	15:00	7	5	3	MN= 210	" MM
"	"	"	α δ R	H	LWR 9686 1+3	256	-.86 .08 15.2	L	O	10:12:40	15:00	7	5	3	MN=226	"
"	"	"	α δ R	H	LWR 9687 1+4	278 F1d	-.73 .08 16.9	L	O	10:52:44	15:00	7	5	3	MN=565	"
"	"	"	α δ R	H	LWR 9688 1+5	262 F2	-.20 .14 17.2	L	O	11:40:40	15:00	7	5	3	MN=616	"
VLSP.	3C 120 84	14.1	α 04h, 30m, 21.6 δ 5, 15, 00.3 R 115, 54, 00.8	L	SWP 11016 1+	0/0	-.66 .08 9.5	L	O	12:50:52	176:8	2	3	1	MN=	"
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG — DATE D 14 M 1 Y 81 — RAW TAPE D 11 01

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 327 2398	NGC 3783 84	13·5	α 11h, 36, 33 δ −37, 24, 41 R 235, 31, 496	L	SWP 11020 1+1	68 16 OV/S	−·16 ·08 9·8	L	0	08:53:31	90:00	2	5	1	DN C 50 E 180 B 27 MN= 0	Willis
2399	〃	〃	α , , δ , , R , ,	L	LWR 9692 1+2	69 11 OV/S	−1·2 ·08 14·2	L	0	10:28:13	60:00	3	4	3	C 115 DN E 185 B 42 MN= 226	Willis
~~2340~~ 2400	HZ Her 59	14 6	α 16h, 56, 02 δ 35°, 25, 05 R 218, 31, 348	L	SWP 11021 1+3	25 6 OV/S	−1·5 ·08 9·5	L	0	12:20:07	65:00	2	1	1	B 25 MN= 0	〃
~~2341~~ 2401	〃	〃	α , , δ , , R , ,		SWP 11022 1+4	〃	−1·6 ·08 10·2			13:48:19	50:00	2	2	1	B 25 MN= 0	〃
~~2342~~ 2402	〃	〃	α , , δ , , R , ,	L	SWP 11023 1+5	〃	−1·4 ·08 10·8	L	0	14:55:46	55:00	2	3	1	F. 45 C 38 B 23 MN= 0	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE 12 1 81 — RAW TAPE 12 1

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JR 403	TT Ari 62	B0V 11·79	α 2h, 04m, 100 δ +15, 02, 36 R 109, 26, 172	L	SWP 11035 1+1	329 5 S/OV	−1·5 ·10 8·5	L	0	8:40:37	20:00	4	6	0	E 240 DN C 120 B 20 MN=	Drechsel
〃	HD 102552 20	B1V 8·89	α 11h, 45, 27 δ −60, 17, 16 R 236, 22, 56	L	SWP 11036 1+2	1170 4 OV/F	−·03 ·08 8·5	L	0	9:45:10	2:45	6	0	0	MN=	〃
〃	〃	〃	α , , δ , , R , ,	H	LWR 9697 1+3	〃	−·07 ·08 12·5	L	0	9:51:59	70:00	4	0	3	B 48 C 180 MN= 600	〃
〃	〃	〃	α , , δ , , R , ,	H	SWP 11037 1+4	1152 2	−1·1 ·08 7·8	L	0	11:05:33	180:00	6		2	MN= 0	〃
〃	〃	〃	α , , δ , , R , ,	L	LWR 9698 1+5	〃	−1·4 ·08 13·2	L	0	14:17:28	1:30	7	0	2	MN= 521	〃
〃	HD 132742 30	A1V 4·70	α 14h, 58, 17 δ −08, 19, 24 R 249, 55, 516	H	SWP 11038 1+6	27797 6 OV/F	−1·1 ·08 8·8	L	0	15:28:19	10:00	5	0	1	MN=	〃
〃	〃	〃	α , , δ , , R , ,	H	LWR 9699 1+7	〃	−0·2 ·08 13·2	L	0	15:40:45	5:00	4	0	2	MN= 445	〃
			α , , δ , , R , ,		1+										MN=	

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DATE D 13 M JAN Y 81 RAW TAPE D 13 M JAN

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	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2403 2342 4K327	A0538-66 59	15·0	α 05h 35 42·7 δ −66 53 40·6 R 151 46 28·0	L	SWP 11042 1+1	B/O	−1·2 ·08 10·5	L	0	8:57:11	180:00	4	5	2	E 180 C 140 0 21 MN=.0	Wills W.W.
2343 2404	"	"	α δ R	L	LWR 9704 1+2	B/O	0·2 ·08 15·2	L	0	12:02:15	100:00	3	B 1	4	MN= 195	"
2344 2405	HD 45166 50	WR+B 9.9	α 06h 23 36 δ 8 00 18 R 128 40 59·8	L	LWR 9705 1+3	429 3 29 OV/F	−·26 ·08 15·2	L S	0	14:48:0 14:53:37	2:20 11:00	6 5	6 5	1 1	MN= 541	"
2345 2406	"	"	α δ R	H	SWP 11043 1+4	455 2 OV/F	0·5 ·08 9 5	L	0	15:07:33	40:00	3	2 !	0	MN= 6	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

Complete at the Coudé

OBSERVATORY LOG

DATE 14 Jan 81 RAW TAPE 14 Jan

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	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
H2335	HD 62058 47	BoIa 6.71	α 7h 38 56 δ −31 32 27 R 179 05 07·2	L	LWR 9711 1+1	7680 26 OV/F	+1 ·10 17·2	L	0	8:25:43	5:00	3	0	2	MN=	Zekl W.W.
"	"	"	α δ R	L	SWP 11049 1+2	"	0·1 ·42 13·2	L	0	8:34:01	65:00	1	1	2	MN=	Zekl W.W.
"	"	"	α δ R	L	LWR 9712 1+4	"	−·6 ·08 16·9	L	0	9:43:21	12:00	4	1	3	MN=	"
"	HD 74180 40	FoIa 1.9	α 8h 38 58·6 δ −46 28 12 R 194 05 45·8	L	SWP 11050 1+3	28673 700 OV/F	−·6 ·08 13·8	L	0	10:25:48	3:00	2	1 !	1	MN=	"
"	"	"	α δ R	L	SWP 11051 1+6	671 U/F	−2·3 ·08 13·2	L	0	10:56:10	21:00	5	0	0	MN= 0	"
"	"	"	α δ R	L	LWR 9713 1+5	650 89 UF	−1·0 ·08 16·5	L	0	11:25:21	3:00	7	0	2	MN= 378	"
"	HD 96918 45	BoIa 2.9	α 11 06 26·8 δ −58 42 14·0 R 226 18 43·7	L	LWR 9714 1+7	614 88 U/F	+·6 ·08 16·2	L	0	12:30:16	2:00	5	0	2	MN= 393	
"	"	"	α δ R		SWP 11052 1+8	"	−·8 ·08 15·2	L	0	12:56:32	35:00	2	0	1	MN=	"

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DATE D 14 M Jan Y 81 RAW TAPE D 14 M Jan

(ESA) / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMI
HZ 335	~~HD~~ 96918 45	9.0 B-V	α 11,06,26.8 δ -58,42,14.0 R 226,18,43.7	L	LWR 9715 1+9	593 92 4/F	-1.7 .08 16.2	L	O	13:36:11	30:00	8	O	3	MN=443	Zekl W.W.
11	HD 119796 45	9.8 6.6	α 13h,43,40.7 δ -62,20,25 R 259,49,27.6	L	LWR 9716 1+10	8649 01F	-2.6 .08 16.2	S /	O	14/45/21	62:00	2	O	4	MN=400	Zekl W.W.
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

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

(ESA) UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMI
PHCAL	Safety	Read	α δ R		SWR 1165 1+2										MN=	A. HECK A.H.
Part rd.	SAO 112106	F8 9.3	α 4,47,07.4 δ 6,52,32.0 R 112,54,25.0	L L	LWP 1263 1+3	1390 227 -542 4/F	-3.8 .08 8.2	L / S	8 O	15:15:10 15:18:08	00:10 00:20				MN=	WAMSTEKER WW
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG — DATE D M Y: 16 JAN 81 — RAW TAPE D M: 16 JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CJ 342	HD 147165 β CHa Star 53	B1 III 2.8	α 16,18,08.7 δ -25,28,28 R 263,40,20.9	H	SWP 11064 1+1	1948 290 FU	.73 .12 7.5	L	O	9:03:23	00:45	7	0	1	MN=	DE JAGER e.e/P.P.
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11065 1+2	1937 470 FU	-.65 .12 7.5	L	O	9:27:39	00:45	7	0	1	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11066 1+3	1882 246 FU	-.6 .08 7.8	L	O	9:51:51	00:45	7	0	1	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11067 1+4	1883 506 FU	-.9 .08 8.2	L	O	10:15:56	00:45	7	0	1	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11068 1+5	1897 480 FU	-.4 .08 8.2	L	O	10:39:43	01:29	7	0	1	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11069 1+6	1959 432 FU	-.7 .08 8.2	L	O	11:05:48	01:00	7	0	1	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11070 1+7	1855 291 FU	-.1 .08 8.5	L	O	11:29:58	01:00	7	0	1	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11071 1+8	1864 390 FU	-1.0 .08 8.5	L	O	11:53:35	01:00	7	0	1	MN=	〃

OBSERVATORY LOG — DATE 16 JAN 81 — RAW TAPE 16 JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CJ 342	HD 147165 β CHa Star 53	B1 III 2.8	α 16,18,08.7 δ -25,28,28 R 263,40,20.9	H	SWP 11072 1+9	1852 300 FU	-.13 .08 8.5	L	O	12:17:03	01:00	7	0	1	MN=	DE JAGER e.e/P.P.
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11073 1+10	1887 295 FU	-.8 .08 8.8	L	O	12:42:58	01:00	7	0	1	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11074 1+11	1885 290 FU	-1.2 .08 8.8	L	O	13:08:14	01:00	7	0	1	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11075 1+12	1908 280 FU	-1.1 .08 8.8	L	O	13:34:13	00:50	7	0	1	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11076 1+13	1890 467 FU	-1.5 .08 9.2	L	O	13:58:59	00:45	7	0	1	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11077 1+14	1847 303 FU	-1.4 .08 9.2	L	O	14:23:58	00:45	7	0	1	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11078 1+17	1825 314 FU	-1.4 .08 9.2	L	O	14:48:42	00:45	7	0	1	MN=	〃
〃	〃	〃	α , , δ , 〃 , R , ,	H	SWP 11079 1+15	1947 450 FU	-1.3 .08 9.2	L	O	15:18:09	00:50	7	0	1	MN=	〃

OBSERVATORY LOG

DATE D 16 M JAN Y 81 RAW TAPE D 16 M JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CIS 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
CJ342	HD 147165 53 (BC Ma)	B1 III 2.8	α 16, 18, 08.7 δ -25, 28, 28 R 263, 40, 20.9	H	SWP 11080 1+16	1901 802 FU	-1.3 :08 9.2	L	0	15:43:58	00:45	7	0	1	MN=	DE JAGER e.e./P.P
			α / / δ / / R / /		1+			/							MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE 17 JAN 81 RAW TAPE 17 JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CIS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VILSPA OBS	HD 143454 (TCz B) 63	Hep 10	α 15, 57, 24.5 δ 26, 03, 39 R 236, 41, 48.7	H	SWP 11087 1+1	500 7 +0	-1.2 .08 9.5	L	0	08:20:25	446:00	3	6	4	MN=	CACCIARI PATRIARCHI
			α / / δ / / R / /		1+			/							MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG — DATE D M Y: 18 JAN 81 — RAW TAPE D M: 18 JAN (1)

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK CAL 2407	BD+28 4211	10.5	α 21, 48, 56 δ 28, 37, 35 R 148, 37, 51.7	L	LWP 1264 1+1	256	... ...								READ HI MN=	P P + P B
2408	〃	〃	〃 〃 〃 〃 R 153, 37, 51.8	L	LWP 1265 1+2	275 1 FO	-1.2 .08 7.8	L	O	09:45:18	00:24	4	0	0	NON-OPT. ROLL +5° -15, -208 MN=	PP + PB
UKCAL 2409	〃	〃	〃 〃 〃 〃 R 143, 37, 51.8	L	LWP 1266 1+3	221 1 FO	-1. .08 8.8	L	O	10:29:37	1:12	7	0	0	NON-OPT ROLL -5° -17 -212 MN=	〃
2410	〃	〃	〃 〃 〃 〃 R 133, 37, 51.8	L	LWP 1267 1+4	274 1 FO	-.1 .08 9.2	L	O	11:09:25	00:12	3	0	0	NON OPT. ROLL -15° -13 -206 MN=	〃
2411	〃	〃	〃 〃 〃 〃 R 148, 46, 26.7	L	LWP 1268 1+5	274 1 FO	-1.2 .08 9.8	L	O	11:47:00	01:36	7	0	0	OPT. ROLL MN=	〃
UK348 2412	NGC 4236 #11	...	α 12, 13, 53.7 δ 69, 47, 20 R 287, 57, 33.7	L	SWP 11096 1+11	B.O. SO	-.6 .08 9.5	L	O	13:06:09	161:00	2	0	2	GUIDE: X=-1261 Y=-1291 CTS= 165. MN=	
UKCAL 2413			α , , δ , , R , ,		LWP 1269 1+6		-1.09 0.08 10.5								NULL image MN=	
UKCAL 2414			α , , δ , , R , ,		LWP 1270 1+7		-1.09 0.08 10.5			13:46:00	1:30				UVCAL MN=	

OBSERVATORY LOG — DATE: 18 JAN 81 — RAW TAPE: 18 JAN (2)

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UKCAL 2415			α , , δ , , R , ,		LWP 1271 1+8		-1.19 0.08 10.5			14:18:40	00:05				UVCAL LWR THDA=145 MN=	Goudsblom PATRIARCH
2416			α , , δ , , R , ,		LWP 1272 1+9		-1.62 0.08 10.8	/		14:51:20	00:10				〃 MN=	〃
2417			α , , δ , , R , ,		LWP 1273 1+10		-1.8 0.08 10.8			15:25:00	1:30				〃 MN=	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 19 M JAN Y 81 RAW TAPE D 19 M JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JF356	HD38268	0+WN	α 5,39,03.5		SWP	655	-1.3	L	0	08:35:49	200:00	5	6	2	Extended source	FEITZINGER
		9.5	δ -69,07,35	H	11102	134	.08									
	13+11	0.13	R 146,25,01.1		1+1	fo	11.8								MN=	ee.
"	"	"	α , ,		LWR		-1.3			12:04:38	222:00	6	0	5		"
			δ , ,	H	9737	4	.08	L	0							
			R , ,		1+2		15.5								MN= 215	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE 20 JAN 81 RAW TAPE 20 JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHOT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
BW 378	BD-33h781	AOIb-II	α 8,15,08.1		LWR	659	-.7			8:43:43	20:00	7	0	2		PETTERSON
	32	9.3	δ -33,59,04	L	9739	2	.08	L	0							
		.29	R 182,08,17.9		1+1	fo	15.2								MN= 498	ee.
VILSPA OBSP	NGC 330		α 00,54,30		SWP	124	-1.4			09:45:30	160:00	8	0	2	guide -555, -1056, ct. 154	CACCIARI
	83	9.63	δ -72,45,00	L	11113	37	.08	L	0							
			R 78,34,34.5		1+2	fo	10.5								MN=	ee.
BW378	HD 69106	B0 V	α 8,12,12		SWP	5243	-.6			13:12:06	00:17	7	0	0		PETTERSON
	20	7.14	δ -36,47,59	L	11114	21	.08	L	0							
			R 181,01,03.2		1+3	fo	11.5								MN=	ee.
"	"	"	α , ,		SWP	5330	-.7			13:46:03	18:00	6	0	1	~30 px sat.	"
			δ , n ,	H	11115	35	.08	L	0							
			R , ,		1+4	fo	11.5								MN=	
VILSPA OBSP	NGC 330		α 00,54,30		LWR	127	-1.5			14:43:50	25:00	4	0	2	Guide -763, -897 ct. 156	CACCIARI
	83	9.63	δ -72,45,00	L	9740	70	.08	L	0							
			R 78,20,43.8		1+5	fo	15.2								MN=	ee.
"	"	"	α , ,		SWP	434	-1.4			15:21:54	25:00		0	1	Guide -565, -982 ct. 164	
			δ , " ,	L	11116	315	.08	L	0							
			R , ,		1+6	s/o	11.2								MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 21 M JAN Y 81 RAW TAPE D 21 M JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK369 2418	NGC362 83	F.8 6.42	α 01,00,36.0 δ -71,07,00 R 79,44,29.9	H	LWR 9748 1+	647 310 f-0	2.5 .08 16.9	L	O	8:45:22	787.00				Guide x=-744 y=-354 at 117 flow Read at MN=9 SFC	PETTINI ee.
2419	"	"	α , , δ , , R , ,	L	SWP 11122 1+		1.3 .08 12.5	L	O	15:14:20	400:00				Serendipity Read at 9 SFC MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

The earlier P.M.M.

OBSERVATORY LOG

DATE 22 JAN 81 RAW TAPE 22 JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	47TUC	4.0	α 00,21,54 δ -72,21, R , ,	H	LWR 9754 1+			L	O	08:38:16	442.00				READ at GSFC MN=	Bianchi
	"	"	α , , δ , , R , ,	L	SWP 11126 1+			L	O	08:55:17	825:00				" MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

This is a duplicate The original was accidentally destroyed P.M.M.

OBSERVATORY LOG — DATE D M Y: 25 JAN 81 — RAW TAPE D M: 25 JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2422 UV311	3C120 84	14.1	α 4 30 32 δ 5 14 00 R 109 2 11.3	L	LWR 9778 1+1	B0	4.2 0.08 16.5	L	0	08:48:12	18 0:00	3	4	5	Guide CT 286 8/0 -932-786 MN=	Goudfrooij / "
2423	"	"	α , , δ , , R , ,	L	SWP 11147 1+7	B0	-0.4 0.08 13.0	L	0	12:00:08	225:00	2	4	2	Guide CT 254 5/0 -931, -925. MN=	"
UVCAL			α , , δ , , R , ,		LWP 1274 1+2						~~0:40~~ 0:00				UV FLAT FIELD MN=	NULL
			α , , δ , , R , ,		LWP 1275 1+3		-0.9 0.08 11.5			13:00:00	~~0:20~~ 0:90				LWR THDA 17.6. MN=	
			α , , δ , , R , ,		LWP 1276 1+4		~~-0.4~~ 0.08 11.0			13:31:10	~~0:25~~ 0:20				MN=	
			α , , δ , , R , ,		LWP 1277 1+5		-1.1 0.08 12.2			14:04:40	~~0:40~~ 0:25				MN=	
			α , , δ , , R , ,		LWP 1278 1+6		-1.4 0.08 12.2			14:34:32	0:90				MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE D M Y: 26 JAN 81 — RAW TAPE D M: 26 JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FP 364	AB AUR 34	Ae 7.2 0.30	α 4 52 34.1 δ 30 28 22.3 R 90 14 0.1	H	LWR 9789 1+1	5040 14 F0	-1.3 .08 15.5	L	0	08:53:18	90:00	6	7	4	crs=303 Gu. x=-655 y=-226 MN=197	FELGENBOK / PP+LB
"	"	" " "	α , , δ , , R , ,	H	LWR 9790 1+2	52.56 15 F0	-.7 .08 15.9	L	0	11:07:37	30:00	3	4	3	Gu. crs >343 MN=264	" PP+LB
"	BD +46 3471 34	Ae 10.1 0.45	α 21 50 39 δ 46° 59' 22" R 160 18 20.1	L	SWP 11157 1+3	308 4 F/0	-1.1 .08 9.2	L	0	12:11:38	60:00	3	0	1	MN=	"
"	"	" " "	α , , δ , , R , ,	L	SWP 11158 1+4	272 2 F/0	-2. .08 10.2	L	0	13:38:09	129:00	4	0	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 23 M JAN Y 81 RAW TAPE D 23 M JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PH. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
)H 325	HKN 325 88	HKN ~14	α 23,25,11.5 δ 23,18,50 R 117,40,21.9	L	LWR 4760 1+ 2	70/43 13 S/O	-.37 .08 16.5	L	0	08:58:28	408:00	4	ϕ	5	MN=	Heidmann - Benvenuti LB
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 24 JAN 81 RAW TAPE 24 JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	PH. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
)H325	HKN 7 88	~14	α 7,22,19.5 δ -72,40,33 R 18,15,55.0	L	SWP 11139 1+2	B.O.	-.86 -.08 10.8	L	0	09:06:34	400:00	3	ϕ	4	Ly α sat MN=	J. HEIDMANN P. BENVENUTI LB
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 25 M JAN Y 81 RAW TAPE D 25 M JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2422 UV311	3C120 84	14.1	α 4 30 32 δ 5 14 00 R 109 2 11.3	L	LWR 9778 1+1	BO	4.2 0.08 16.5	L	O	08:48:12	180:00	3	4	5	Guide CT 286 S/O -932 -786 MN=	Gondhalekar/ 11
2423	〃	〃	α , , δ , , R , ,	L	SWP 11147 1+7	BO	-0.4 0.08 13.0	L	O	12:00:08	225:00	2	4	2	Guide CT 2545/0 -731, -925 MN=	〃
JVCAL			α , , δ , , R , ,		LWP 1274 1+2						~~0:30~~ 0:00				UV FLAT FIELD NULL MN=	
			α , , δ , , R , ,		LWP 1275 1+3		-0.9 0.08 11.5			13:00:00	~~0:20~~ 0:90				LWR THDA 17.6. MN=	
			α , , δ , , R , ,		LWP 1276 1+4		-0.4 0.08 11.0			13:31:10	~~0:25~~ 0:20				MN=	
			α , , δ , , R , ,		LWP 1277 1+5		-1.1 0.08 12.2			14:04:40	~~0:90~~ 0:25				MN=	
			α , , δ , , R , ,		LWP 1278 1+6		-1.4 0.08 12.2			14:34:37	0:90				MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 26 JAN 81 RAW TAPE 26 JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FP 364	AB AUR 34	Ae 7.2 0.30	α 4 52 34.1 δ 30 28 22.3 R 90 14 0.1	H	LWR 9789 1+1	5040 14 FO	-1.3 .08 15.5	L	O	08:53:48	90:00	6	7	4	CTS=303 Gu. X=-658 Y=-226 MN=197	FELENBOK PP+LB
〃	〃	〃	α , , δ , , R , ,	H	LWR 9790 1+2	5256 15 FO	-.7 .08 15.9	L	O	11:03:37	30:00	3	4	3	Gu. CTS =343 MN=264	〃 PP+LB
4	BD +46 3471 34	Ae 10.1 0.45	α 21 50 39 δ 46° 59' 22" R 160 18 20.1	L	SWP 11157 1+3	308 4 F/O	-.1 .08 9.2	L	O	12:11:38	60:00	3	0	1	MN=	〃
〃	〃	〃	α , , δ , , R , ,	L	SWP 11158 1+4	272 2 F/O	-2. .08 10.2	L	O	13:38:09	129:00	4	0	1	MN=	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE D 27 M JAN Y 81 — RAW TAPE D 27 M JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 335 2424	BRUNET 69 20	BØ 14.2	α 5,6,1.9 δ -68,13,12.6 R 130,44,7.2	L	LWR 9793 1+1	BO	-1.2 .08 14.5	L	O	08:53:51	100:00	7	0	4	GUIDE: cts 409 x=26 y=-368 MN=	NANDY PB
UK 335 2425	" "	" "	α , , δ , , R , ,	L	SWP 11172 1+2	BO	-1.1 .08 9.2	L	O	10:43:50	60:00	5	0	1	GUIDE: cts=100 " x=225 y=-409 MN=	"
UK 335 2426	" "	" "	α , , δ , , R , ,	L	LWR 9794 1+3	BO	-2. .08 14.2	L	O	11:50:12	40:00	4	0	3	GUIDE: cts=100 x=26 y=-368 MN= 561	"
UK 335 2427	ROE 102 20	BØ 14.7	α 5,21,10.6 δ -67,02,27 R 134,2,38.0	L	SWP 11173 1+4	BO	-1.1 .08 9.8	L	O	13:16:07	75:00	5	0	1	GUIDE: cts=83 x=535 y=-185 MN=	"
UK 335 2428	" "	" "	α , , δ , , R , ,	L	LWR 9795 1+5	BO	-1.4 .08 15.5	L	O	14:38:57	60:00	4	0	3	GUIDE: cts=104 x=338 y=-48 MN= 494	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE D 28 M JAN Y 81 — RAW TAPE D 28 M JAN

ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK376 2429	NGC 3998 88	12.2	α 11,55,21.1 δ 55,43,54.7 R 295,44,06.6	L	SWP 11178 1+1	222 20 S/O	-1.2 .08 11.8	L	O	08:39:58	210:00	3	0	2	Ly α sat. MN=	WARD ee
2430	MCG-5-23-16 88	13.0	α 09,45,28.3 δ -30,42:58 R 199,23,07.5	L	SWP 11179 1+5	B/O	-1.2 .08 10.8	L	O	13:40:23	127:00	1	0	1	Guide 888; 1540 ~900 to MN=	"
			α , , δ , , R , ,		Field 1+2										MN=	
			α , , δ , , R , ,		Field 1+3										MN=	
			α , , δ , , R , ,		Field 1+4										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 29 M JAN Y 81 RAW TAPE D 29 M JAN

ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
			~~α 11 58 00~~ L ~~δ 13 59 46~~ R , ,		SWP 1+	~~B0~~	~~-1.0~~ 0.08 9.5			~~09:00:27~~					MN=	
2431 UK302	Blue Emission Line Galaxy 88		α 12 04 53 δ 13 43 03 R 257 58 469	L	SWP 11187 1+1	B0	-0.85 0.1 9.5	L	0	10:42:07	300:00	2	3	3	Guide Stars: +950, -915, 2973 MN=	Goudfrooij "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 30 M JAN Y 81 RAW TAPE D 30 M JAN

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK376 2432	3C3.90.3 88	~15	α 18 45 37.9 δ 79 43 57 R 209 46 24.5	L	SWP 11191 1+1	B/0	-1.2 .08 11.5	L	0	09:09:01	170:00	2	3	2	1 px sat at 1380 MN=	WARD ee,
2433	3C382 88	~15	α 18 33 12.03 δ 32 39 17.9 R 218 14 8.9	L	SWP 11192 1+2	B/0	.5 .08 11.5	L	0	12:50:50	176:00	3	3	2	MN=	4
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 31 M JAN Y 81 RAW TAPE D 31 M JAN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2434 4K376	3C382 84	14·7	α 18ʰ, 33, 12·0 δ 32, 39, 17·9 R 248, 09, 27	L	SWP 11200 1+1	B/0	−1·4 ·10 9·8	L	0	08:42:54	180:0	3	3	2	b 21 c 85 E 110 MN=.0	WARD .W.W.
2435	NGC4593 84	12·5	α 12ʰ, 37, 04·9 δ −05, 04, 12 R 246, 17, 38·2	L	SWP 11201 1+2	76 OV,S	−1·7 ·08 11.2	L /	0	12/24/10	110:0	3	3	1	MN=0	WARD WW.
2436	NGC4593 84	"	α δ R	L	LWR 9818 1+3	78 29 OV,S	−1·0 ·08 14·5	L	0	14/25/07	42:0	3	3	2	MN=218	WARD WW.
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 01 M Feb Y 81 RAW TAPE D 01 M Feb

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CB376	II Zw 70 88	14	α 14ʰ, 48, 54·9 δ +35, 46, 37 R 257, 03, 073	L	LWR 9826 1+1	B/0	−.4 ·3 15·2	L	0	06/44/15	423:0	4	0	9	MN=332	RAFANelli W.W.
			α δ R		1+			/							MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 2 M Feb Y 81 RAW TAPE D 2 M Feb

ESA / UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK-343 2437	M42 HH1 -72		α 05,32,44 δ −5,23,45 R 114,35,39	L	SWP 11217 1+1	26000 B/0	.69 .5 10.5	L	0	6/51/07	10:ϕ	3	2	0	MN=	AXON W.W.
2438	〃	〃	α δ R	L	LWR 9836 1+2	〃	.26 .10 15.2	L	0	7/07/55	10:ϕ	3	1	2	MN= 449	AXON WW.
2439	〃	〃	α δ R	L	SWP 11218 1+3	〃	-.17 .10 10.5	L	0	7/34/13	30:ϕ	6			MN=	AXON WW
2440	〃	〃	α δ R	L	LWR 9837 1+4	〃	-.1 .08 15.2	L	0	8/38/41	20:ϕ	4	5	2	MN= 266	AXON WW.
2441	〃	〃	α δ R	L	SWP 11219 1+5	〃	-.9 .08 10.5	L	0	9/37/17	30:ϕ	5	2	1	SPrepmade off-Orion MN=	AXON WW
2442	NGC2997 88		α 9,43,27 δ −30,57,37 R 193,07,24	L	SWP 11220 1+6	B/0	−.2 .08 10.5	L	0	11/15/34	144:ϕ	2	1	1	exp t. modified wrong by [illegible] because MN=	AXON WW.
			α δ R		1+										~~poss 1/2 exposed~~ MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 3 M FEB Y 81 RAW TAPE D 3 M FEB

ESA / UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CB.376	NGC 7250 82	~14	α 22.16,08.9 δ 40,18,43.6 R 160,15,38.4	L	SWP 11227 1+1	B0	-.4 .08 9.8	L	0	06:45:07	270:00	3	3	2	Guide (143,-256) ct 154 FO, SAT at 442 MN=	RAFANELLI CC.
〃	〃	〃	α δ R	L	LWR 9846 1+2	B/0	-1.7 .08 14.2	L	0	11:20:50	146:00	3	0	4	Guide (-53, -142) ct 132 FO MN= 289	〃
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 4 M FEB Y 81 RAW TAPE D 4 M FEB

UK NO. / PROPOSAL	OBJECT / TYPE / PHASE	SP.TYPE m_v / B-V	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK343 / 2443	NS253A / 80	13.5	α 13,37,4.5 / δ -31,23,24 / R 243,39,21.3	L	SWP / 11232 / 1+1	B/0	.2 / .10 / 10.5	L	0	07:20:16	120:00	3	0	1	Guide 214,491 ct 230 slow over MN=	AXON / ee.
2444	"	"	α , , / δ , , / R , ,	L	LWR / 9852 / 1+2	B/0	-1.2 / .08 / 14.8	L	0	09:25:17	40:00	3	0	2	Guide 16,637 ct 230 slow MN= 149	"
2445	"	"	α , , / δ , , / R , ,	L	SWP / 11233 / 1+3	B/0	-.5 / .08 / 10.5	L	0	10:11:15	216:00	4	0	2	Guide 212,499 240 ct. slow. / a few first sat at lyα MN=	"
			α , , / δ , , / R , ,		1+									1	MN=	
			α , , / δ , , / R , ,		1+										MN=	
			α , , / δ , , / R , ,		1+										MN=	
			α , , / δ , , / R , ,		1+										MN=	
			α , , / δ , , / R , ,		1+										MN=	

OBSERVATORY LOG

DATE 5 Feb 81 RAW TAPE 5 Feb

UK NO. / PROPOSAL	OBJECT / TYPE / PHASE	SP.TYPE m_v / B-V	RGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SP382	NGC 7008 / 70	~12	α 20,59,05.1 / δ 54,20,44 / R 183,41,44.3	L	SWP / 11237 / 1+2	108 / 5 / SO	-.5 / .08 / 13.2	L	0	06:52:58	135:00	4	0	1	Guide 66,-292 ct 509 FO MN=	GILRA / ee.
"	Serendipity	"	α , , / δ , , / R , ,	L	LWR / 9859 / 1+1		-.5 / .08 / 16.5	L	0	07:00:49	100:00	1	0	4	No spectrum visible MN= 347	"
"	NGC 7008 / 70	~12	α 20,59,05.1 / δ 54,20,44 / R 183,41,44.3	L	LWR / 9860 / 1+4	90 / 7 / SO	-1.2 / .08 / 16.8	L	0	9:11:47	120:00	5	0	4	Guide -133,-154 ct. 517 FO MN= 566	"
"	Serendipity	"	α , , / δ , , / R , ,	L	SWP / 11238 / 1+3		-1.3 / .08 / 11.8	L	0	9:43:55	65:00	1	0	1	Nothing MN=	"
"	NGC 650 / 70	"	α 01,39,11.3 / δ 51,19,25 / R 118,34,0.6	L	SWP / 11239 / 1+5	B/0	-1.3 / .08 / 11.2	L	0	11:47:18	60:00	1	2	1	Guide -794,952 131 FO MN=	"
"	"	"	α , , / δ , , / R , ,	L	LWR / 9861 / 1+7	B/0	-0.7 / .08 / 16.2	L	0	12:52:19	55:00	1	0	2	Guide -993,1090 MN= 548	"
"	Serendipity	"	α , , / δ , , / R , ,	L	SWP / 11240 / 1+6		-0.7 / .08 / 11.5	L	0	13:46:53	20:00	1	0	1	MN=	"
			α , , / δ , , / R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 6 M FEB Y 81 RAW TAPE D 6 M FEB

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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SP382	NGC2452 70	PN ~14	α 7,45,26.7 δ -27,12,41 R 149,38,29.9	L	SWP 11246 1+1	101 10 S/O	-1.7 .16 10.5	L	O	07:06:43	150:0	2	4	2	MN=	GILRA / LB
"	NGC 2346 70	PN ~12	α 7,6,49.7 δ -0,43,29 R 118,17,37.3	L	LWR 9869 1+3	360 12 S/O	-.6 .08 16.8	L	O	10:27:58	90:0	2	3	2	MN= 275	"
"	"	"	α SERENDIPITY δ " , " , " R , ,	L	SWP 11247 1+2	/	-1.4 0.8 10.5	L	O	10:57:39	36:00	1	1	1	NGC 2346 in LWLA MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWR 11248 1+5	"	-1.3 .08 10.5	L	O	12:01:41	105:00	3	4	1	MN=	"
"	"	"	α SERENDIPITY δ " , " , " R , ,	L	LWR 9870 1+4	/	-1.4 .08 15.5	L	O	12:26:40	60:00	1	1	2	NGC 2346 in SWLA MN= 465	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 7 M FEB Y 81 RAW TAPE D 7 M FEB

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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DG389	HD31964 40	FOI 3.0	α 4,58,23 δ 43,45,5 R 84,45,20.7	H	LWR 9876 1+1	1600 300 F/U	-1.5 .08 13.5	L	O	06:55:47	20:00	7	7	2	MN=	GILRA / LB
"	"	"	α , , δ " , " , " R , ,	H	SWP 11256 1+2	1550 220 F/U	-1.6 .08 7.8	L	O	07:20:28	70:00	3	5	1	MN=	"
"	HD62001 30	A0V 8.0	α 7,39,1 δ -18,52,18 R 141,48,36.5	H	LWR 9877 1+3	1987 5 F/O	-.65 .08 13.2	L	O	09:17:10	120:0	3	0	4	MN= 527	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 11257 1+4	1957 1 F/O	-1.0 .08 7.5	L	O	11:21:21	7:0	5	0	0	MN=	"
DG388	NGC 1982 72	HII	α 5,33,3 δ -5,18,15 R 111,0,23.3	L	LWR 9878 1+5	b-o	-1.1 .08 13.0	L	O	12:21:33	27:00	6	0	2	MN= 323	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 11258 1+6	b/o	-1.5 .08 7.5	L	O	13:08:45	30:00	7	0	0	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE 8 FEB 81 — RAW TAPE 8 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
04420	30 DOR 72	H II ~11	α 5,39,15.5 δ -69,6,28 R 126,10 35.9	L	LWR 9878 1+2	B.0	-.47 .16 12.2	L	O	06:45:26 06:59:53	60:00	3	1	2	Lya ~~saturated~~ MN= 559	GILRA LB
"	SERENDIPITY	"	α / / δ / / R / /	L	SWP 11264 1+1	"	-.47 .08 8.2	L	O	07:04:11	35:00	1	1	0	30 DOR IN LW LA Lya = 60 DN MN=	"
"	30 DOR 72	"	α / / δ " " R / /	L	SWP 11265 1+3	"	-.39 .08 8.8	L	O	08:02:51	60:00	2	2	1	MN=	"
"	"	"	α 5,38,55.5 δ -69,7,37 R " "	L	LWR 9880 1+5	"	-.73 .08 12.0	L	O	09:09:02	90:00	6	0	2	MN= 471	"
"	SERENDIPITY	"	α " " δ " " R / /	L	SWP 11266 1+4	"	-1.4 .08 8.2	L	O	09:43:04	32:00	2	0	0	30 DOR IN LWLA data lost: y=734, 735,766,773 MN=	"
"	30 DOR 72	"	α / / δ " " R / /	L	SWP 11267 1+6	"	-1.7 .08 8.5	L	O	10:42:36	105:00	4	0	1	MN=	"
"	N81 SHC 72	~~H II~~ 12.8	α 1,7,41 δ -73,28,05 R 60,14,22.3	L	LWR 9881 1+K	242 9 S/O	-.4 .08 13.2	L	O	12:50:32	20:00	4	0	1	MN= 477	"
"	"	"	α / / δ " " R / /	L	SWP 11268 1+8	236 8 S/O	.10 .08 8.0	L	O	13:17:31	25:00	5	0	1	MN=	"

OBSERVATORY LOG — DATE D 9 M Feb Y 81 — RAW TAPE D 9 Feb

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2446 UK361	CPD -67°3184 24	B5 III	α 16h, 35, 39.7 δ -67°, 46, 04 R 279 39, 205	L	SWP 11273 1+ 1	201 1 OV/F	-1.5 .08 7.8	L	0	6/21/50	4/10	5	0	0	MN=	Pettini/Thomas WW.
2447 UK361	HD 156359 13	O9 III	α 17h, 16', 36.4 δ -62, 52, 05 R 287, 23, 46	H	SWP 11274 1+2	525 4 OV/F	-0.5 .08 8.2	L /	0	7/05/08	170/0	7	0	2	MN=	Pettini/Thomas WW.
2448 UK361	11	11	α " " δ 11 " " R " "	H	LWR 9885 1+3	540 4 OV/F	-1.1 .08 12.8	L	0	09/58/19	75/0	5	0	4	MN= 157	Pettini/Thomas W.W.
2449 UK361	CPD -74°1569 12	O9.5 V	α 16, 44, 27.9 δ -74, 27, 08 R 283, 55, 42	H	SWP 11275 1+4	348 4 OV/F	-1.4 .08 9.2	L	0	11/37/08	132/0	5	0	1	MN=	Pettini/Thomas W.W.
			α " " δ " " R " "		1+										MN=	
			α " " δ " " R " "		1+										MN=	
			α " " δ " " R " "		1+										MN=	
			α " " δ " " R " "		1+										MN=	

OBSERVATORY LOG — DATE 10 Feb 81 — RAW TAPE 10 Feb

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2450 UK361	HD 92809 10	WC 6 9.08	α 10h, 31, 41.9 δ -58, 30, 35 R 196, 38, 14	L	SWP 11280 1+1	937 2,50 OV/F	-.9 .08 10.2	L	0	6/48/41	2/30	4	5	0	MN=	Pettini/Thomas W.W.
				L				S	0	6/53/42	2/0	3	4	0		
2451 UK361	11	11	α " " δ " " R " "	H	LWR 9889 1+2	951 9 OV/F	-.9 .08 14.0	L /	0	6/58/33	~~02/0~~ 30/0	2	3	3	MN= 273	Pettini/Thomas WW.
2452 UK361	11	11	α " " δ " " R " "	H	SWP 11281 1+3	941 4 OV/F	-.9 .08 10.2	L	0	7/33/59	240/0	3	7	2	MN=	Pettini/Thomas W.W.
2453 UK361	HD 158243 23	B1 Iab 8.2	α 17h, 27, 04 δ -53, 26, 28 R 284, 21, 400	H	LWR 9890 1+4	1957 5 OV/F	-1.4 .08 13.5	L	0	12/01/27	37/0	5	0	2	MN= 653	Pettini/Thomas W.W.
2454	11	11	α " " δ " " R " "	H	SWP 11282 1+5	2087 6 OV/F	-1.7 .08 9.2	L	0	12/41/35	66/0	4	0	1	MN=	Pettini/Thomas WW.
			α " " δ " " R " "		1+										MN=	
			α " " δ " " R " "		1+										MN=	
			α " " δ " " R " "		1+										MN=	

OBSERVATORY LOG

DATE D 11 M Feb Y 81 RAW TAPE D 11 M Feb

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
V.LSP	NGC 3125 88	13·9	α 10h,04,18 δ −29,41,29 R 189,15,27	L	LWR 9894 1+1	44 ~~B/O~~ ON/S	−1·2 ·10 13·2	L	O	6/43/24	419/0	4	1	7	SAO 178426 @ X 292 Y −274 MN= 335	W AMSTEKER W.W.
			α / / δ / / R / /		1+				/						MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE 12 Feb 81 RAW TAPE 12 Feb

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2455 UK311	36120 84	14.1	α 04,30,32 δ 05,15,00 R 103,1,34	L	SWP 11292 1+1	B/O 254	−1.7 0.08 8.2	L	O	06:47:22	200:00	2	4	2	MN=	GONDWALEKAM "
2456 UKRAL	68 Cyg. 14	6.6	α 21,16,35 δ +43 44, R 187,20,18	H	LWR 9897 1+2	24178 4 F/O	−1.6 0.08 12.8	L	O	10:57:56	1:28	4	ø	ø	MN=	
2457	"	"	α / / δ / / R / /	H	LWR 9898 1+3	"	−1.5 0.08 12.8	L	O	11:23:14	2:30	3	ø	ø	MN=	
2458	"	"	α / / δ / / R / /	H	LWR 9899 1+4	"	−1.5 0.08 12.8	L	O	11:51:23	2:38	6	ø	ø	MN= 407	
2459			α / / δ / / R / /	H	LWR 9900 1+5		−1.5 0.08 12.8	L	O	12:17:12 12:19:47	1:28 + 5	6	ø	ø	50 DN (5 S) TF FF MN=	
2460	"	"	α / / δ / / R / /	H	LWR 9901 1+6		−1.7 0.00 12.8	L	O	12:48:25	1:00	5	ø	ø	MN=	
2461	"	"	α / / δ / / R / /	H	LWR 9902 1+7		−1.6 0.08 13.0	L	O	13:12:47	3:10	7	ø	ø	MN=	
2462			α / / δ / / R / /	H	LWR 9903 1+8		−1.1 0.08 14.2	L	O	12:37 13:~~00~~ 57	2:38 5	6	ø	ø	50 DN T FLOOD MN=	

OBSERVATORY LOG — DATE D 13 M Feb Y 81 — RAW TAPE D 13 M Feb

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
RK383	HD 89137	B0	α 10,13,43		LWR	2583	1.2									
	20	8.1	δ -51, 0', 27	L	9906	14	.08	L	O	06:54:21	00:20	5	0	2		SCHÖNBERNER
			R 187, 36, 48.8		1+1	FO	14.2								MN=	P. P.
"	"	"	α , ,		SWP	2355	1.1									
			δ , 4,	H	11296	9	.08	L	O	07:00:45	60:00	6	0	1		"
			R , ,		1+3	FO	9.8								MN=	
"	"	"	α , ,		LWR	2162	.03									
			δ , 4,	H	9907	8	0.08	L	O	08:14:48	30:00	5	0	3		"
			R , ,		1+4	FO	13.0								MN= 612	
"	"	"	α , ,		SWP	2310	-.5									
			δ , 4,	L	11297	4	0.08	L	O	08:47:22	00:35	6	0	1		"
			R , ,		1+5	FO	9.0							!	MN=	
"	HD 93030	B0	α 10,41,10		LWR	2702	-.7									
	20	2.8	δ -64, 7, 55	H	9908	362	0.08	L	O	09:46:26	00:08	5	0	2		"
			R 193, 42, 33.3		1+17	FU	14.2								MN=	
"	"	"	α , ,		SWP	2499	-1.1									
			δ , 4,	H	11298	443	0.08	L	O	10:13:02	00:06	5	0	1		"
			R , ,		1+6	FU	9.2								MN=	
"	HD 98279	B2	α 6,40,4.8		SWP	2552	-1.1									
	20	7.8	δ 1,45,58	H	11299	8	0.08	L	O	11:14:39	00:00	5	0	1		"
			R 106,43,18.3		1+8	FO	9.2								MN=	
"	"	"	α , ,		LWR	2400	-1.7									
			δ , 4,	H	9909	450	0.08	L	O	12:37:23	26:00	4	0	3		"
			R , ,		1+9	FO	13.5								MN= 581	

OBSERVATORY LOG — DATE 13 FEB 81 — RAW TAPE 13 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/E.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
RK383	HD48279	B2	α 6,40,48.		SWP	2569	-.5									
	20	7.8	δ 1,45,58	L	11300	17	0.08	L	O	13:06:40	00:50	5	0	0		SCHÖNBERNER
			R 106,43,18.3		1+10	FO	9.2								MN=	PP
"	"	"	α , ,		LWR	2675	-1.3									
			δ , 4,	L	9910	9	0.08	L	O	13:30:47	00:25	5	0	2		"
			R , ,		1+11	FO	14.2								MN= 217	"
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 14 M FEB Y 81 RAW TAPE D 14 M FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2463 JK 326	UVO 0653-23 19		α 6h.54'.23" δ -23°.30'.58" R 126°.2'.47.8	L	SWP 11305 1+1	672 2 FO	-1.3 .08 9.8	L S	O	07:03:01 07:08:58	02:05 03:15	5 4	0 0	1 1	MN=	DARLUS PP
2464 4	4 3 4		α , , δ , , R , ,	L	LWR 9913 1+2	611 4 FO	-.6 .08 14.2	L I S	O	07:53:17 07:58:52	02:00 03:30	5 5	0 0	2 2	MN=	4 4
2465	UVO 0825 I15 1.9		α 8h.25'.46" δ 15°.02'.09" R 87°.19'.21.6	L	SWP 11306 1+3	362 2 SO	-1.3 .08 9.2	L S	O	09:23:45 09:31:05	04:00 05:15	6 5		1 1	MN=	4 4
2466	4 4		α , , δ , , R , ,	L	LWR 9914 1+4	85 1 FO	-.6 .08 14.2	L S	O	09:51:38 09:59:00	04:05 06:10	5 4		2 2	MN= 197	4 4
2467	UVO 0734+37 19		α 7.34.07 δ 37.20.43.9 R 60.21.51.2	L	SWP 11307 1+5	376 1 SO	-.2 .08 10.5	L S	O	10,55:49 11:03:51	04:05 06:20	0 0	0 0	1 1	WRONG STAR MN=	4 4
2468	4 4 2		α , , δ , , R , ,	L	SWP 11308 1+6	194 1 FO	-1. .08 11.5	L S	O	12:19:05 12:26:47	04:05 06:20	5 3	0 0	1 1	MN=	4 4
2469	4 4		α , , δ , , R , ,	L	LWR 9915 1+7	190 1 FO	-1. .08 14.5	L S	O	12:51:37 17:57:19	03:05 04:40	5 4		2 2	MN=	4 4
2470	HD 62014 19	A5 8.76	α 1.00.50 δ 43,47,54 R 130,39,48.4	L	LWR 9916 1+8	1149 7 FO	-1.9 .08 15.2	F S	O	13:33:56 13:37:43	00:40 00:55	5 4		2 2	MN= 299	4 4

OBSERVATORY LOG

DATE 15 FEB 81 RAW TAPE 15 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2471 JK 305	HD 91316 21	B3 3.8 0.05	α 10,30,11 δ 9,33,528 R 249,18,4.7	H	SWP 11312 1+1	952 241 FU	1.9 .08 10.2	S	O	06:29:59	1:20	6	0	1 1	MN=	BLADES PP
2472 4	4 4 4	4 4 4	α , , δ , , R , ,	H	LWR 9919 1+2	950 249 FU	2.2 .08 14.8	S	O	06:34:49	1:20	6	0	2 2	MN= 565	4 4
2473 4	MKM 478 84	15.	α 14.48.4.8 δ 35,38,56 R 269,57,4.5	H	SWP 11313 1+3	BO	0.08 12.2	L	O	08:58:41	768:00	3	0	9	START AT GSEC and READ GUIDE X=1288 Y=-1460 CTS=542 MN= H/O	4 4 No GSEC in expose
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 16 M FEB Y 81 RAW TAPE D 16 M FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK305	F9 84	13.7	α 1, 21, 51 δ -59, 3, 59 R 61, 26, 13.4	H	SWP 13319 1+	BO	.08 9.0	L	O	06:54:58	885:00	3	0	9	and Read Start Plot GSFC C.R. x=1219 y=420 cts=233 MN=	BLADES PP
			α δ R 1+												MN=	
			α δ R 1+												MN=	
			α δ R 1+												MN=	
			α δ R 1+												MN=	
			α δ R 1+												MN=	
			α δ R 1+												MN=	
			α δ R 1+												MN=	

OBSERVATORY LOG

DATE 17 FEB 81 RAW TAPE 17 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SD 387	HD 6201 19	8.76	α 1h, 00m, 50.3s δ 43°, 47', 54" R 122°, 23', 2.1"	L	SWP 13327 1+ 1	1255 2 FO	-.7 0.08 11.5	L S	O	06:27:39 06:31:05	00:35 00:55	5 5	0	0	MN=	PARIUS PP
"	UVO 0821+30 19	10.2	α 00, 21, 56.2 δ 30, 21, 52 R 136, 4, 10.4	L	SWP 13328 1+ 2	384 9 FO	-1.1 0.08 11.5	L / S	O	07:14:41 07:26:18	07:50 11:50	3 3		0	not UV source MN=	" 4
4	1 4	4	α δ R	L	LWR 9927 1+3	368 1 FO	-1.1 0.08 15.5	L S	O	07:42:08 07:55:35	09:50 14:40	4 4	0	2	not UV source MN= 401	4
4	BD +35 3631 19		α 19, 34, 55.6 δ 35, 7, 58 R 223, 5, 13.5	L	LWR 9928 1+4	332 3 FO	-2.6 0.08 15.5	L S	O	08:04:10 09:18:14	04:40 07:05	7 6	0 1	2	MN= 345	4
4	4 4	4	α 4 δ 4 R 4	L	SWP 13329 1+5	370 1 FO	-2.2 0.08 11.2	L S	O	09:28:58 09:38:12	05:55 08:55	7 7	0	0	MN=	4
VILSP	T CrB 55	Re Nov 10.	α 15, 57, 24.5 δ 26, 3, 39.04 R 259, 33, 40.8	L	LWR 9929 1+6	411 4 SO	-1.3 0.08 15.9	L	O	10:59:23 11:15:56	11:00 29:00	7	6	3	GUIDE X=-620 Y=-368 cts 24 s.c MN=	PATRIARCHI P.P. "
4	4 4	4 4	α 15, 57, 24.5 δ 26, 3, 39.04 R 259, 33, 40.8	L	SWP 13330 1+7	410 4 SO	-.5 0.08 10.8	L	O	11:50:48 12:45:52	20:00 20:00	5	6	0	DOUBLE START OF EXP. EXP.TIME = SUM MN=	P 4
4	HD 152236 23	4.73 .69	α 16, 50, 28 δ -42, 17, 00 R 268, 0, 30.7	H	LWR 9930 1+8	27340 89 FO	-1.1 0.08 15.5	L	O	13:39:05	05:40	5	0	2	MN= 485	4 4

OBSERVATORY LOG — DATE D 18 M FEB Y 80 — RAW TAPE D 18 M FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
OBSP 1	2S0114+65 / 23	B0 III / 11	α 1,14,618 / δ 65,1,32 / R 133,34,8.8	L	LWR / 9942 / 1+1	150 / 0 1 / F.O.	-.91 / .08 / 14.5	L	O	06:57:44	100:00	3	0	3	TARGET ON THE EDGE OF THE APERTURE MN= 442	L. BIANCHI / LB
"	"	"	α , , / δ , , / R , ,	L	SWP / 13332 / 1+3	140 / 4 / F.O.	-.73 / -.83 / .08 / 8.2	L	O	08:42:05 / 10:57:03	34:00 / ~~40:00~~ 34:00	2	0	0	MN=	"
"	"	"	α , , / δ , , / R , ,	L	LWR / 9943 / 1+2	146 / 1 / F.O.	-.64 / .08 / 14.8	L	O	09:22:26	90:00	4	0	2	MN= 472	"
"	"	"	α , , / δ , , / R , ,	L	LWR / 9944 / 1+	148 / Ø / F.O.	-.40 / .08	L	O	11:38:16	130:00	5	0 1	3	BOTTOM PART OF IMAGE LOST (Y < 263) MN= 383	"
			α , , / δ , , / R , ,		1+										MN=	
			α , , / δ , , / R , ,		1+										MN=	
			α , , / δ , , / R , ,		1+										MN=	
			α , , / δ , , / R , ,		1+										MN=	

OBSERVATORY LOG — DATE 19 FEB 80 — RAW TAPE 19 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HCAL	BD+75 325 / 16	SdO / 9.54 / -0.37	α 8,4,43 / δ 75,6,48 / R 33,32,22.4	L	SWP / 13335 / 1+1	696 / 2/50 / F.O.	-.65 / .08 / 7.8	L / S	O / O	06:34:09 / 06:39:21	0:14 / 0:28	4 / 3	0 / 0	0 / 0	MN=	L. BIANCHI / LB
"	"	"	α , , / δ , , / R , ,	L	LWR / 9951 / 1+2	680 / 2/279 / F.O.	-.65 / -.71 / .08 / 13.2	L / S	O / O	06:43:23 / 06:48:12	0:24 / 0:48	4 / 4	0 / 0	1 / 1	MN= 351	"
"	HD 93521 / 12	O9 V / 6.89 / 0.03	α 10,45,33.6 / δ 37,50,4.5 / R 340,21,9.1	L	SWP / 13336 / 1+6	6237 / 20/231 / F.O.	-.73 / .08 / 13.2	L / S	O / O	07:53:54 / 07:57:49	0:3 / 0:6	4 / 4	0 / 0	0 / 0	MN=	"
"	"	"	α , , / δ , , / R , ,	L	LWR / 9952 / 1+3	6246 / 6/557 / F.O.	-.73 / .08 / 7.5	L / S	O / O	08:01:18 / 08:04:44	0:3 / 0:6	4 / 4	0 / 0	1 / 1	MN= 615	"
"	"	"	α , , / δ , , / R , ,	H	LWR / 9953 / 1+4	6186 / 7 / F.O.	-.29 / .08 / 12.8	L	O	08:30:42	4:30	4	0	2	4 mins. heater hold to avoid auto. noise. MN=	"
"	"	"	α , , / δ , , / R , ,	H	LWR / 9954 / 1+5	6462 / 14 / F.O.	-.81 / .08 / 12.8	L	O	09:19:50	2:00	3	0	2	MN= 397	"
"	"	"	α , , / δ , , / R , ,	H	LWR / 9955 / 1+7	6392 / 13 / F.O.	-.90 / .08 / 13.2	L	O	09:48:58	1:00	3	0	2	heater hold for 4 mins. to avoid auto. MN=	"
	SAFETY READ		α , , / δ , , / R , ,		LWP / 1279 / 1+8									2	SAFETY READ data lost during the read (y= 827, 643, 435) MN=	"

OBSERVATORY LOG

DATE D 19 M FEB Y 81 RAW TAPE D 19 M FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot und/ov/f.s	FOCUS BKG THDA	APERTURE	AP. CNTR.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LOSES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOM.
PH CAL	UA 93521 12	09 V 6.89	α 10,45,38.6 δ 37,50,4.5 R 340,21,9.1	H	LWP 1280 1+11	6673 11 F.O.	-.81 .08 5.8	L	O	11:07:18	4:0	4	0	0	MN=	L. BIANCHI UB
"	"	"	α " , " , " δ " , " , " R , ,	L	LWP 1281 1+9	6680 6/1000 F.O.	-.55 .08 6.5	L I S	O O	11:57:00 11:00:59	0:2 0:4	4 4	0 0	1	MN=	"
	~~PES4 PTEL~~ ~~OPTEL~~		α , , δ , , R , ,		1+										MN=	
" "	RR TEL 63	10.5	α 20,00,20.1 δ -55,52,.4 R 317,38,43.4	L	LWP 1282 1+10	274 1 F.O.	-1.9 .08 6.1	L	O	13:32:11	5:00	3	7	0	TRAILED SPECTRUM RATE = 1 "/sec ITERATIONS: 15 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE 20 FEB 81 — RAW TAPE 20 F

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRO
	HD115520	FØ	α 13, 15, 1.0		SWP	1580	-2.4 -1.9	L	O	06:51:56	4:35	5	0			J. DAR
UK 326	19	7.5	δ 30, 52, 34	L	13340	5/73	.08							0		
2473			R 284, 56, 23.1		1+1	F.O.	9.8	S	O	06:42:21	6:50	4	0		MN=	
	"	"	α , ,		LWR	1583	-1.1 -1.5	L	O	07:17:49	3:10	5	0	1		"
"	"	"	δ " , " , "	L	9961	4/77	0.08	/								
2474			R , ,		1+2	F.O.	13.2	S	O	07:10:32	4:50	4	0	1	MN= 641	
	UVo 1101+24		α 11h, 01m, 48.0s	L	LWR	162	-2.3 +0.1	L	O	08:04:59	10:00	4	0			
	19	12.6	δ +24°, 56', 00.0"		9962	7/17	0.08							2		"
2475			R 317°, 51', 37.8		1+3	S.O.	13.5	S	O	08:19:13	15:00	4	0		MN= 389	
			α , ,	L	SWP	146/139	0.4 0.7	L	O	08:40:28	7:05	5	0		a bit weak	
	"	"	δ , ,		13341	3/8	0.08							0		"
2476			R , ,		1+4	S.O.	9.2	S	O	08:50:50	11:00	5	d		MN=	
	UVo 0515-69		α 05h, 15m, 46.0s	L	SWP	350/346	-0.97	L	O	11:02:50	2:10	1	0			
	19	10.2	δ -69°, 42', 35.0"		13342	185/184	0.08							0		"
2477			R 108°, 22', 59.7"		1+5	F.O.	10.8	S	O	11:08:39	3:10	1	0		MN=	
	NGC 3783		α 11h, 36m, 33.0s	L	SWP	91	-1.5	L	D	12:03:19	104:00	3	5	1	CIV λ1550, LyA, CIII λ1909	
	84	13.5	δ -37°, 27', 41.0"		13343	16	0.08								in emission; brilliant	"
2478			R 206°, 08', 44.9		1+6	S.O.	9.8								CR event MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE 21 FEB 81 RAW TAPE 21 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SPUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
49.340	HD269546 20 SW	08 11	α 5,27,2.2 δ -68,52,19 R 110,13,49.4	H	SWP 13347 1+1	220 20 F.O.	.22 .08 10.8	L	O	06:57:39	383:00	5	0	3	MN=	M. GREWING UB
"	HD269541 31	A5 10.6	α 5,26,53.1 δ -68,54,37.4 R 110,13,49	L	LWR 9971 1+2	264 1 F.O.	-.86 .08 12.5	L	O	13:24:25	20:00	4	0	2	MN= 355	"
			α δ R		1+										MN=	
			α δ R		1+									1	MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 22 FEB 81 RAW TAPE 22 FEB

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SPUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK359 2479	N4SA 05	10.3	α 12,02,25 δ 3,56,26 R 254,24,34.5	L	LWR 9977 1+1	305 2 f.o	-1.0 .08 15.2	L	O	06:55:13	40:00	5	0	2	MN= 316	BUTTERWORH P.O.
UK359 2480	"	"	α δ R	L	LWR 9978 1+2	320 1 f.o	.08 .08 15.5	L	O	08:00:45	100:00	7	0	4	60 p.x sat. MN= 403	"
2481	HEBE 05	10.3	α 4,2,40 δ 7,48,48 R 100,49,53.1	L	LWR 9979 1+3	315 2 f.o	-1.8 .08 15.5	L	O	11:33:35	124:00	6	0	4	MN= 311	"
			α δ R		1+									1	MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG — DATE 23 FEB 84 — RAW TAPE 23 FEB

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 / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	HD 60753 / 21	B3 IV / 6.7	α 7,32,8.14 / δ -50,28,28.99 / R 134,47,33.3	L	LWR 9997 1+1 F.O.	7616 / 9/450 / 16.2	-.82 / .08 / S	L / O		06:29:49 / 06:32:39	0:7 / 0:14	5	0	1	MN=.218	L. BIANCHI / LB
"	"	"	α , , / δ , , / R , ,	L	SWP 13348 1+2 F.O.	7570 / 16/340 / 9.8	-.67 / .08 / S	L / I / O	O	06:35:30 / 06:38:15	0:10 / 0:20	5	0	0	MN=MAXI=3	"
HG 340	HD 269546 SE / 20	B1 / 11	α 5,27,.10 / δ -68,52,19 / R 108,11,29.2	H	LWR 9998 1+3 F.O.	204 / 17 / 15.9	-1.3 / .08	L	O	07:36:13	270:00	5	0	8	MN=	H. GREWING / LB
"	"	"	α , , / δ , , / R , ,	L	SWP 13350 1+4 F.O.	206 / 29 / 9.8	-1.2 / .08	L / S	O / O	12:07:08	45:00	8	0	1	MN=	"
"	HD 269546 / 11-12	OB+WN / 10	α 5,27,2.2 / δ -68,52,19 / R 108,11,29.2	L	" 1+	400 / 31 / F.O.	-2.0 / .08 / 10.5	S	O	12:57:49	15:00	8	0	1	MN=	"
"	"	"	α , , / δ , , / R , ,	L	LWR 9999 1+	411 / 38 / F.O.	-2.0 / .08 / 16.2	S	O	13:16:34	6:00	5	0	2	MN=	"
"	HD 269546 SE / 20	B1 / 11	α 5,27,.10 / δ -68,52,19 / R 108,11,29.2	L	" 1+	201 / 26 / F.O.	-2.0 / .08 / 16.2	L	O	13:26:31	22:00	7	0	2	MN=	"
			α , , / δ , , / R , ,		1+										MN=	

OBSERVATORY LOG — DATE 24 FEB 84 — RAW TAPE 24 FEB

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 / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UR359 2482	JUPITER / 03	G / -3	α 12,33,43 / δ -1,57,58.3 / R 249,8,58.6	H	LWR 10005 1+1		-.9 / .08 / 15.2	L	O	06:50:46	39:10	9	9	9	completely overexp. up to 100 at 3000Å MN=	V. MOORE
			α , , / δ , , / R , ,		1+			/							MN=	
			α , , / δ , , / R , ,		1+										MN=	
			α , , / δ , , / R , ,		1+										MN=	
			α , , / δ , , / R , ,		1+										MN=	
			α , , / δ , , / R , ,		1+										MN=	
			α , , / δ , , / R , ,		1+										MN=	
			α , , / δ , , / R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 25 M FEB Y 81 RAW TAPE D 25 M FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SD 393	NGC 598		α 1 , 31 , 01.9		SWP	101	-1.4			8:25:30	322:00	4	8	2	Particle event at	P. Benvenuti
	8ø	13	δ 30 , 24 , 18	L	13356	31	0.08	L	0						λ 1284	
			R 125 , 20 , 16.9		1+1	slow	9.8								MN=	P.B.
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE 26 FEB 81 RAW TAPE 26 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	N44 - 1		α 5 , 22 , 26.4		SWP	266	-1.3	L	0	07:14:07	13:00	3	2	1	N44 - 2 also	P. Benvenuti
	20	12	δ -67 , 59 , 40	L	13366	4	0.08								present into LAP	P.B.
			R 104 , 10 , 5.1		1+1	slow	10.2	S	0	07:50:09	12:00	2	2	1	MN=	
	N44 - 1		α , ,		LWR	266	-1.8									
	20	12	δ , ,	L	10023	-	0.09	L	0	07:47:35	10:00	5	5	1		
			R , ,		1+2	slow	14.8								MN=	
	N44 - 3		α 5 , 22 , 23.9		SWP	122	-.5								N44 - 2 also	
	20	12.9	δ -68 , 04 , 03	L	13367	-	0.08	L	0	08:28:26	20:00	4	4	1	present into LAP	
			R 104 , 10 , 5.1		1+3	slow	10.2								MN=	
	N44 - 3		α , ,		LWR	122	-.5								N44 - 2 also	
	20	12.9	δ , ,	L	10024	-	0.08	L	0	08:59:56	15:00	5	5	1	present	
			R , ,		1+4	slow	14.8								MN=	
	N44 - 1-2		α 5 , 22 , 26.4		SWP	266	-.5								N44 - 1 at	
	20	12	δ -67 , 59 , 40	L	13368	-	0.08	L	0	09:47:24	30.00	5	5	1	-30, -20 before	
			R 104 , 10 , 5.1		1+6	slow	10.2								RTOFFER MN=	
	SK-67° 101	B ø	α 5 , 26 , 42.2		LWR	161	-1.3									
	20	12,63	δ -67 , 32 , 55	L	10025	-	0,08	L	0	11:08:18	15:00	5	5	1		
			R 104 , 51 , 12.8		1+5	slow	14.8								MN=	
	"	"	α " , " , "		SWP	161	-1.3									
			δ " , " , "	L	13369	-	0,08	L	0	11:48:08	12:00	5	5	1		
			R " , " , "		1+7	slow	10.2								MN=	
	SK-70 91		α 5 , 28 , 08.4		SWP	150	-1.6			13:00:55	20:00					
	20	12.79	δ -70 , 39 , 08	L	13370	-	0.08					6	5	1		
			R 105 , 03 , 38.2		1+8	slow	10.2								MN=	

OBSERVATORY LOG

DATE 26 FEB 81 RAW TAPE 26 FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PB 393	SK-70 91 20	OB 12.79	α 5, 28, 8.4 δ -70, 38., 08 R 105, 03, 38.2	L	LWR 10026 1 + 9	150 ~ Low	-1.1 0.08 14.8	L	O	13:25:58	15:00	5	0	1	MN=	Benvenuti / P.B.
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE 27 Feb 81 RAW TAPE 27 Feb

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2484 UK311	3C120 84	14.6	α 04, 30, 31 δ 05, 15, 00 R 98, 40, 10	L	SWP 13376 1 + 2	BO	-0.3 0.08 9.5	L	0	06:53:10	200:00	2	3	2	250 S/O for Guide MN=	P.M.G. / P.M.G.
2483	NULL		α , , δ , , R , ,		LWR 10033 1 + 1							0	0	0	READ After x5-6 Overexpose MN= 249	
2485	UVCAL		α , , δ , , R , ,		SWP 13376 1 + 3					12:02:46	1:52				UV FF T = 28.6 MN=	
2486	NULL		α , , δ , , R , ,		SWP 13377 1 + 4										NULL MN=	
2487	U.V. CAL		α , , δ , , R , ,		SWP 13378 1 + 5					13:16:30	0:18				MN=	
2488	NULL		α , , δ , , R , ,		SWP 13379 1 + 6										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 24 M FEB Y 81 RAW TAPE D 28 M FEB

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG : THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SD 407	NGC 2903	Spiral galaxy	α 9, 29, 17.1 δ 21, 42, 38 R 55, 22, 20	L	SWP 13382 1+2	150 50 05	-1.3 .08 10.5	L	0	07:37:10	390:0	3	0	3	VIDEO (1329-752) 280 OS C=1120, B=56 MN= 1	BENVENUTI A.C.
"	"	"	α , , δ , , R , ,	L	LWR 10036 1+1	/	-1.8 .08 15.5	L	0	06:41:56	372:0	2	0	2	SERENDIPITY MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 1 MAR 81 RAW TAPE 1 MAR

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 345 24.89	SMC N87 70	PN	α 1, 19, 58.8 δ -73, 30, 16 R 40, 59, 30.2	L	SWP 13387 1+1	h.o.	-.98 .08 9.8	L	0	05:45:42	180:0	3	7	1	Ref point -32, -216 guide (734, -744) 78 SO B=29, E=79 86 (NW) 95 (SE) MN=	BARLOW (SW) sett CASSATELLA
2490	"	"	α , , δ , , R , ,	L	LWR 10043 1+2	h.o.	-.94 .08 14.5	L	0	8:50:40	175:0	3	3	6	XXREP guide (735, -626) C=95, E= B=55 MN=	(SW) 142 DN, (SE) 145, Mg II 23.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 2 MAR 81 RAW TAPE 2 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CC392	IC 2458 88	15.2	α 9,17,26.4 δ 64,26,59 R 26,59,48.5	L	SWP 13396 1+1	BO	-1.5 .10 8.8	L	0	04:56:23	410:00	3	3	2	GUIDE X=427 Y=-527 ors=337.50 MN=	CASINI PP
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		.1+										MN=	

OBSERVATORY LOG

DATE 3 MAR 81 RAW TAPE 2 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
R408	IT ABL 54	B/IV 11.5	α 2,4,10.0 δ 15,3,27 R 111,44,40.1	L	SWP 13398 1+1	97 51 OF	-1.0 .4 5.5	L	0	04:33:59	20:0	5	0	0	2 pixsat at 1250 Å 1300-1600 DN = 198 max 1600-1900 DN = 214 max 0.16 MN= .1	CASSATELLA
			α δ R	L	LWR 10060 1+2	344 6 05	-1.3 .08 11.0	L	0	05:59:51	20:0	7	0	0	MN= 251	
			α δ R	H	SWP 13399 1+4	428 .13 05	-1.4 .08 5.8	L	0	05:41:13 06:39:04	36:0 308:0	3	0	2	double exposure C=120(1900Å) C=90(1300Å) B=36 MN=	
			α δ R	L	LWR 10061 1+3	408 .08	-1.2 .08	L	0	06:25:45	10:0	4	0	3	C=163 B=93 MN= 639	MNoise ~ 1900 Å
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		.1+										MN=	

OBSERVATORY LOG

DATE D 4 M MAR Y 81 RAW TAPE D 4 M MAR

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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2491 UK345	NGC 6805 70	15. Cutout 3 rows	α 20,20,9 δ 19,56,38 R 239,31,55.4	L	SWP 13404 1+1	BO	-1.3 .08 7.2	L	O	04:32:55	90:00	7	8	1	GUIDE X=553 Y=327 cts 449 50 MN=	BARLOW PP
2492 "	9 4	4	α , , δ , , R , ,	L	LWR 10067 1+2	BO	-.6 .08 12.8	L	O	06:06:27	100:00	6	8	4	GUIDE X=355 Y=467 cts 388 50 1 min exposed in Mir Dim MN= 497	" "
2493 "	7 4	4	α , , δ , , R , ,	L	SWP 13405 1+3	BO	-.9 .08 8.2	L	O	08:02:14	20:00	3	4	1	GUIDE X=333 Y=327 cts 430 50 MN=	" "
2494 "	4 4	4	α , , δ , , R , ,	L	LWR 10068 1+4	BO	-1.3 .08 13.5	L	O	08:40:07	20:00	3	3 1	2	GUIDE X=355 Y=467 cts 473 50 MN=	" "
2495 "	IC 4642 70		α 17,7,37 δ -55,20,22.3 R 268,7,38.8	L	LWR 10069 1+5	BO	-.8 .08 13.8	L	O	10:01:41	106:00	3	6	4	GUIDE X=200 Y=114 cts 132 FC MN= 587	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 5 M MAR Y 81 RAW TAPE D 5 M MAR

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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 2496 UK345	LMC NM41 70		α 05,25,43.7 δ -68,58,7.7 R 97,55,6.5	L	SWP 13408 1+1	BO	-.3 .48 8.5	L	O	04:42:21	150:00	3	5	1	GUIDE X=488 ~~Y=946 cts 287 50~~ MN=	BARLOW PP
" 2497 "	" 4		α , , δ , , R , ,	L	LWR 10073 1+2	BO	-1. .08 12.5	L	O	07:15:26	30:00	0	0	3	GUIDE X=289 Y=1085 cts 261 50 NO SPECTRUM MN= 513	" "
" 2498 "	LMC N28 70		α 5,11,8.3 δ -67,51,32.2 R 94,27,24.5	L	SWP 13409 1+3	BO	-2. .08 8.5	L	O	08:37:03	190:00	2	5	1	GUIDE X=-826 Y=286 cts 149 50 Lost scan lines: MN=	" "
			α , , δ , , R , ,		1+										Y=425,429,442 523,536,537 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE 6 MAR 81 — RAW TAPE 6 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG : THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 2499 UK 345	SWST 1 70	11.3	α 18,12,58.8 δ -30,53,14 R 273,41,3.5	L	LWR 10077 1+1	165 31 FO	-.9 .08 15.5	L	O	04:51:20	07:00	4	5	2	MN=	BARLOW PP
" 2500 "	TC 1 70	11.8	α 17,41,52.6 δ -46,04,16 R 272,31,36.6	L	SWP 13412 1+2	184 4 FO	-.9 .08 9.8	L	O	05:15:54	20:00	8	0	1	overexp ≃ 2.5 x MN=	" "
" 2501 "	" "	"	α , , δ , , R , ,	L	LWR 10078 1+3	189 5 FO	-.9 .08 15.2	L	O	05:44:06	07:30	6	0	2	243 MN= 481	" "
" 2502 "	" "	"	α , , δ , , R , ,	L	SWP 13413 1+4	175 3 FO	-.6 .08 10.2	L	O	06:14:18	04:00	3	0	1	MN=	" "
" 2503 "	IC 4642 70		α 17,07,37 δ -55,20,22.3 R 267, 6,43.3	L	LWR 10079 1+5	BO	-.6 .08 15.2	L	O	06:03:03	20:00	4	7	4	GUIDE: X= 204 Y=118 ds 150 FO MN= 458	" "
" 2504 "	SAND 3 10	WR 13.	α 16,03,12.5 δ -35,37,09.5 R 256,01,14.8	L	LWR 10080 1+6	58 18 30	-.8 .08 15.5	L	O	08:46:51	120:00	5	8	5	MN= 335	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE 7 MAR 81 — RAW TAPE 7 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
4V330	NGC 3516 84	13.2	α 11,03,22.8 δ 72,50,24 R 1,26,23.5	L	SWP 13425 1+1	133 9 30	-.36 .08 11.2	L	O	05:25:23	240:00	3	5	2	MN=	ULRICH PP
" "	" "	"	α , , δ , , R , ,	L	LWR 10089 1+2	112 14 30	-.56 .08 14.5	L	O	09:31:00	135:00	4	5	4	MN= 195	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 8 Mar 81 RAW TAPE 8 Mar

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2505 UK320	NGC 5253 88	13	α 13h,37,05·1 δ −31°,23,13·7 R 229,53,01·2	L	SWP 13430 1+1.	B/0	−0·7 −0·8 9·5	L	O	05/07/02	180/ϕ	4	5	1	Sum 5 221 S/O Hot Spot #1 bg 29 cnts/60 MN=	Briggs W.W.
2506 UK320	NGC5253 88	13	α , , δ , , R , ,	L	LWR 10093 1+2	B/0	−0·5 −0·8 13·0	L /	O	08/12/06	100/ϕ	4	0	3	bg 50 c 150 e 0 MN= 241	Briggs W.W.
2507 UK320	" "	" "	α , , δ , , R , ,	L	LWR 10094 1+3	B/0	−1·1 −0·8 15·2	L	O	10/18/55	88/ϕ	4	0	4	bg 53 c 150 e 0 MN= 280	Briggs W.W.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 9 Mar 81 RAW TAPE 8 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
NP314	NGC 4536 S.N 56	S.N	α 12,31,55 δ +02,28,00 R 262,41,43·3	L	LWR 10100 1+2	272 5/0	3·4 0·8 14·5	L	O	05/29/05	40/ϕ	3	0	3	05/23 UT 272 S.O. Fe Cal bg 44 c 95 MN= 547	WAMSTEKER WW.
"	"	"	α , , δ , , R , ,	L	SWP 13438 1+3	267 5/0	4·9 0·8 11·8	L /	O	06/13/21	26/ϕ	1	1	0	06/12 UT 267 S.O. MN=	WAMSTEKER WW.
"	"	5	α , , δ , , R , ,	L	LWR 10101 1+5	262 6 5/0	5·5 0·8 15·5	L	O	06/45/24	100/ϕ	4	0	4	bg 57 c 170 MN= ?	WAMSTEKER WW.
ENG			α , , δ , , R , ,	L	SWR 1166 1+4		0·8 17·6	L	O					2	SAFETY READ SWR MN= 0	WAMSTEKER WW
PHCAL	η U Ma 21	B3 V 1·8	α 13h,45,34 δ 49,33,44 R 312,29,51	H	SWR 13439 1+6	5667 664 F/U	3·1 0·8 14·5	L	O	9/48/34	ϕ/06	4	0	0	MN=	WAMSTEKER WW.
PHCAL	η U Ma "	"	α , , δ , , R , ,	H	LWR 10102 1+7	5667 628 F/U	3·1 0·8 17·2	L	O	9/53/03	ϕ/06	4	0	2	MN= 0	WAMSTEKER WW
PHCAL	BD+75°325 16	Sd O 9·2	α 8,04,43 δ 75,06,48 R 49,58,35	L	SWP 13440 1+8	674 36 F/O	1·3 0·8 13·8	L S	O O	10/54/38 10/57/58	ϕ/14 ϕ/28	4 5	0 0	0 0	MN=	WAMSTEKER WW.
"	"	"	α , , δ , , R , ,	L L	LWR 10103 1+9	674 1.	1·3 0·8 17·2	L S	O O	11/06/22 11/09/14	ϕ/24 ϕ/48	4 4	0 0	1 1	HAS 24 sec of HRas in background MN= 0	Wamsteker WW.

OBSERVATORY LOG

DATE 9 MAY 83 RAW TAPE 3

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIFT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	HD 93521	0.3	α 10, 45, 33	L	SWP	6289	-.6	L	0	11/52/42	0/03	5	0	0		Wamsteker
P.H.CAL	12	7.0	δ 37, 50, 04		13441	23	-.08									
			R 14, 12, 43		1+ 10	F/0	12.8								MN=	WW
			α / /													
			δ / /													
			R / /		1+										MN=	
			α / /													
			δ / /													
			R / /		1+										MN=	
			α / /													
			δ / /													
			R / /		1+								1		MN=	
			α / /													
			δ / /													
			R / /		1+										MN=	
			α / /													
			δ / /													
			R / /		1+										MN=	
			α / /													
			δ / /													
			R / /		1+										MN=	
			α / /													
			δ / /													
			R / /		1+										MN=	
			α / /													
			δ / /													
			R / /		1+										MN=	

OBSERVATORY LOG — DATE 10 Mar 81 — RAW TAPE 10

ESV. / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRO
Target of opport. VILSP	SN N4536 56	SN 12·1	α 12,31,55 δ 2,28:00 R 263,37,16·1	L	SWP 13452 1+1	245 S/O	-·9 -·08 11·2	L	O	05/01/80	330:ϕ	2	4	2	MN=	WAMSTEK W.W.
UK# 2508			α , , δ , , R , ,		1+			/	/						MN=	
11 2509	11		α , , δ 11,11,11 R , ,	L	LWR 10115 1+2	261 S/O	3·8 ·08 16·9	L	O	10:37:11	50:ϕ	3	0	3	lg 47 e∫≈100 MN= 156	WAMSTEK W.W.
			α , , δ , , R , ,		1+								1		MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 11 MAR 81 RAW TAPE 11 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
RK 383	BD-3° 2179 16	Sd O 10.4	α 7,59,44.8 δ -3,49,51 R 168,54,24.7	H	SWP 13458 1+1	290 2 OF	-.95 0.2 10.5	L	O	04:10:32	66:00	5	5	1	C=214(~1300Å) C=251(~1900Å) B=86 MN=.2	HAMANN CASSATELLA
"	UV O ϕϕϕ4-ϕ2 16	Sd O 12.0	α 9,4,37 δ -2,54,0 R 100,53,22.8	H	SWP 13459 1+2	71 2 OF	-2.0 0.08 10.5	L	O	06:08:36	209:0	5	5	1	C~200 (~1300Å) B~30 MN=	"
VILSP	SN N4C4536 56	Supernova type I 12.1	α δ R	L	LWR 10170 1+	237 2 05	-1.5	L	O	11:07:45	~~360:0~~ 385:0	6	5	5	IMAGE STARTED AT VILSPA 1 MN=	ARCHIVED @ VILSPA
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 12 MAR 81 RAW TAPE 12 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 370 UK 2510	IC 4329 A 84	Seyfert 14.4	α 13,46,27.8 δ -30,3,40 R	L	LWR 10126 1+X	64 4 05	-1.5 .08 14.2	L	O	04:11:58	870:0	3	ϕ	9	IMAGE READ AT GODDARD C=190, B=11.5 MN=.	SNIJDERS A.C.
UK 2511	SKY BACKGROUND	"	α δ R	L	SWP 13466 1+X	/	-1.5 .08 8.8	L	O	04:57:29	790:0	ϕ	ϕ	8	image SPREAD ~ has SX overlap data lowered B=100 MN=	"
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 13 MAR 81 RAW TAPE 13 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	BD+75°325	Sd O	α 8, 4, 43	L	LWR	637	-1.0	L	O	04:02:33	00:24	Y	0	1		CASSATELLA
	-16	9.54	δ +75, 6, 48		10129	0	.20									
			R 53, 7, 15		1+1	OF	17.8	S	O	04:07:18	0:48	S	O		MN=	
"	"	"	α , ,	L	SWP	631	-1.0	L	O	04:11:06	0:14	S	0	1		
			δ " , " , "		13475	0	.20									
			R , ,		1+2	OF	7.8	S	O	04:14:23	0:28	S	O		MN=	
"	HD93521	O9 V p	α 10, 45, 34	L	LWR	5960	-2.0	L	O	05:24:43	0:3	1	0	1		
	12	7.04	δ 37, 50, 04		10130	15	.08									
			R 19, 25, 20		1+3	OF	13.2								MN=	
"	"	"	α " , " , "	L	LWR	5964	-1.2	L	O	5:57:17	0:3	5	0	1		
			δ , ,		10131	20	.08									
			R , ,		1+4	OF	13.2						1		MN= 0	
"	"	"	α , ,	L	SWP	5960	-1.3	L	O	06:23:29	0:3					
			δ , ,		13476	20	.08									
			R , ,		1+5	OF	7.5	S	O	06:27:04	0:9				MN=	
PR 408	BF Cyg	B+p, gM	α 19, 21, 55.1	L	SWP	275	-1.0	L	O	08:10:57	60:0	3	7	1	SiIV 180, CIV 5p/k not DM 241; NIV 1 not SiIV 164, CNJ 1 not C=115(1500) D=26	
	57	12	δ 29, 34, 32		13477	0	.08									
			R 252, 40, 51.2		1+6	OS	7.2								MN=	
"	"	"	α , ,	L	LWR	272	-1.3	L	O	09:16:37	35:0	3	5	1	C=111 (2500) B=2.8	
			δ " , " , "		10132	0	.08									
			R , ,		1+7	OS	12.2								MN= 0	
"	"	"	α , ,	L	SWP	272	-1.1	L	O	09:56:57	15:0	2	4	1	CIII 135, OIII 466:77 NIV 104; CIII 184 SiIV 57. B=2.4.	
			δ , ,		13478	0	.08									
			R , ,		1+8	OS	7.8								MN= 2	

OBSERVATORY LOG

DATE 13 MAR 81 RAW TAPE 13 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
R408	BF Cyg	B+M	α 19, 21, 55.1	L	LWR	267	-1.0	L	O	10:21:45	2610	3	4	1	C=90 E=44 B= 29	CASSATELLA
	57	12	δ 29, 34, 32		10133	11½	.08									
			R 252, 40, 51.2		1+9	OS	12.8								MN= 543	
			α , ,													
			δ , ,					/								
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE 14 MAR 81 RAW TAPE 14 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 320 UK 2517	NGC 5253 82		α 13h 37m 15.84 δ -31° 33' 22.5 R 226° 9' 47.5	L	SWP 13483 1+ 1	b.	-1.6 .08 7.2	L	0	04:29:00	150:00	3	0	1	Scarlet	S.A. BRIGGS A.H.
2 < 13.	"		α 13h 37m 5.05 δ -31° 28' 13.7 R 226° 4' 37.1	L	SWP 13484 1+ 2	b.	-.14 -.08 7.8	L	0	07:22:37	200:00	5	6	1	2 px set.	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 13 MAR 81 RAW TAPE 15 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
RW 318	NGC 1313 70		α 4h 4m 54.5 δ -66° 52' R 87° 26' 56.8	H	SWP 13495 1+ 1	160 25 8.0	-1.4 .08 7.8	L	0	01:49:32	150:00	3	5	2		J. KOEPPEN A.H.
BB 319	HD 58343 26	B3Ve 5.2 0.13	α 7h 22m 24.5 δ -16° 6' R 100° 6' 32"	H	LWR 10141 1+ 2	2544? 156 8.0	-1.2 -.08 12.2	L	0	06:59:29	3:00	5	0	2	MN= 338	
"	"	"	α δ R	H	SWP 13496 1+ 3	2569 96 8.0	-1.3 .08 8.8	L	0	09:04:52	3:00	4	0	0		"
"	FEIGE 66 89	S2 0B	α 12h 21m 54.5 δ 25° 21' R 327° 21' 20".8	H	LWR 10142 1+ 4	161 0 8.0	-1.7 .08 12.5	L	0	08:16:59	150:00	1	0	0	target was quite?	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 16 MAR 81 RAW TAPE 16 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 309 2514	HD 215573 Star 21	B5 5.34 0.0	α 22 , 45 , 49 δ -86 , 23 , 19 R 345 , 44 , 16.2	H	LWR 10149 1 + 1	21,000 70 over/5	-1.3 .08 12.9	L	0	04:11:58	002:30	5	0	2	microphonics MN= 420	J. JACOBS C.B./A.H.
" 2515	"	"	α , , δ , , R 345 , 44 , 16.2	H	SWP 13508 1 + 2	20,000 100 over/5	-1.3 .08 9.2	L /	0	04:17:56	004:00	5	0	1	MN=	"
2516	"	"	α , , δ , , R , ,	H	LWR 10150 1 + 3	4219 73 over/5	-.9 .08 13.2	L	0	04:53:24	006:00	7	0	2	microphonics MN= 659	"
2517	"	"	α , , δ , , R , ,	H	SWP 13509 1 + 3	22095 87 over/5	-.9 .08 8.0	L	0	05:25:18	013:00	8	0	1	MN=	"
2518	HD 75440 STAR 30	A0 6.20 0.0	α 18 , 53 , 46.7 δ -01 , 52 , 00 R 283 , 26 , 59.8	H	SWP 13510 1 + 5	11342 32 over/5	-1.3 .08 9.2	L	0	06:19:32	027:00	5	0	1	MN=	
2519	"	"	α , , δ , , R , ,	H	LWR 10151 1 + 6	11212 25 over/5	-.8 .08 13.2	L	0	06:50:52	016:00	5	0	2	no microphonics. 4 minute heater hold. MN=	
2520	HD 174567 STAR 22	B9.5V 6.48 0.0	α 18 , 47 , 50.4 δ +31 , 34 , 00 R 281 , 57 , 34	H	SWP 13511 1 + 7	7559 23 over/5	-.75 .08 9.2	L	0	07:42:50	070:00	6	0	1	MN=	
2521	HD 182308 STAR 22	B9 6.3 0.0	α 19 , 19 , 23 δ +64 , 17 , 46 R 289 , 50 , 46.4	H	LWR 10152 1 + 8	8676 20 over/5	-1.5 .08 13.2	L	0	09:17:16	012:00	5	0	2	microphonics. MN= 629	

OBSERVATORY LOG DATE 16 MAR 81 RAW TAPE 16 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 309 2521	HD 182308 STAR 22	B9 6.3 0.0	α 19 , 19 , 23 δ +64 , 17 , 46 R 289 , 50 , 46.4	H	SWP 13512 1 + 9	8700 25 over/5	-1.1 .08 9.2	L	0	09:42:00	017:00	5	0	1	MN=	J. JACOBS C.B./A.H.
2522	HD 44206 STAR 36	A0p 4.57 0.0	α 16 , 01 , 14.3 δ +46 , 10 , 29 R 240 , 18 , 34.4	H	SWP 13513 1 + 10	360 35 under/5	-1.1 .08 9.2	L /	0	10:42:42	003:00	4	0	1	MN=	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		.1 +										MN=	

OBSERVATORY LOG

DATE 17 MAR 81 RAW TAPE 17 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JK362	NGC 4361 70	PN 13	α 12,21,54 δ -18,31,0 R205,0,59	H	SWP 13521 1+1	129 22 OS	-.80 .08 7.5	L	O	04:12:48	180:00	3	5	2	CIV 226 DN, 155 DN HeII 222 DN CIII 127, 118 B=36 MN=	J.K OEPPEN A. CASSATELLA
PR408	BF CYG 57	B+M	α 19,21,55 δ 29,34,32 R256,15,42	H	SWP 13522 1+2	269 5 OS	-.12 .08 7.2	L	O	08:38:44	128:0	5	1	2	CIII 635, NIV 108 CIV 83,75 DN OIV 100 (weighted av. wlk) B=37 MN=	CASSATELLA
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 18 MAR 81 RAW TAPE 18 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JK335 2523	ROE 359 20	14.95	α 5,25,13.6 δ -67,29,55 R84,54,32.5	L	LWR 10161 1+1	B/O	0.2 .08 10.8	L	O	04:19:38	80:00	5	0	3	GOIDE (-792,297) 282 FO MN=	K. NANDY ee
JK335 2524	11	11	α δ R	L	SWP 13527 1+2	B/O	-.11 .08 6.1	L	O	05:47:50	100:00	5	0	1	GDE (-593,157) 250 FO MN=	11
2525	ROE 368 20	14.88	α 5,21,36.2 δ 67,35,23 R83,54,57.9	L	LWR 10162 1+3	B/O	-.08 .08 11.5	L	O	07:52:47	80:00	5	0	3	GDE (-80,-272) 200 SO MN=575	11
2526	11	11	α δ R	L	SWP 13528 1+4	B/O	-.07 .08 6.5	L	O	09:17:09	81:00	5	0	1	GDE (118,-412) 186 SO MN=	11
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 19 M MAR Y 81 RAW TAPE D 19 M MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
LP371	SK 82	B1 Ia	α 0 , 58 , 11		SWP	232	-1.1			04:37:29	370:00					LPREVOT
	23	12.16	δ -73 , 01 , 00	H	13532	3	.08	L	O			4	5	3	QDE (-1190, 235)	
		0.07	R 17 , 08 , 5.2		1+1	S/O	6.1								2226 FO	
															MN=	ee
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE 20 MAR 81 RAW TAPE 20 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
IK439	ROE 97	B0-B2V	α 5 , 20 , 30.3		SWP	B/O	-1.4			04:49:26	120:00					NANDY
2527	20	15.29	δ -67 , 02 , 07	L	13537		.08	L	O			4	0	1	QDE (67, 26)	
			R 81 , 50 , 48.1		1+1		5.5								448 S/O	
															MN=	ee
	"	"	α , ,		LWR	B/O	-1.0			06:53:42	100:00					
2528			δ , " ,	L	10175		.08	L	O			4	0	(1)	QDE (-132, 664)	"
			R , ,		1+2		10.8								461 S/O	
															MN=	
	ROE 130	B0-B2V	α 5 , 23 , 15.5		SWP	B/O	-1.0			09:00:45	107:00					
2529	20	15.07	δ -67 , 26 , 54	L	13538		.08	L	O			5	0	1	QDE (339, -51)	
			R 82 , 16 , 12.6		1+3		7.5								372 S/O	
															MN=	"
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 21 M MAR Y 81 RAW TAPE D 21 M MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG. THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
A4 310	N 63 A 75	SN remnant	α 5,35,40.4 δ -66,3,42 R 84,26,2.3	L	LWR 10182 1+2	6.0	-1.0 .08 12.5	L	O	04:04:10	40310	5	5	8	CII 241 (OII) 221 HeII 182; MgII 209 B=67 / C=182 MN=0	GREVE AC.
"	Sky BACK	"	α ,, δ ,, R ,,	L	SWP 13540 1+2	—	-1.5 .08 7.5	L	O	04:35:21	35810	7	6	3	serendipity only Lyα present MN= 2	AC
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	

OBSERVATORY LOG

DATE 22 MAR 81 RAW TAPE 22 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG. THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	IM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
WK 364 2530	MKI 6 84	Sey 1.5 14.5	α 6,45,43.9 δ 74,29,7.2 R 79,45,.6	L	LWR 10185 1+1	~25 05	0.3 .08 12.5	L	O	04:06:17 04:31:00	180:0	1	3	6	two exposures of 20+190 min. HgII 105 DN; B=47 NeIV-III DN; B=53 MN= 0	SNIJDERS A.C.
" 2531	"	"	α ,, δ ,, R ,,	L	SWP 13545 1+2	✓	+0.5 .08 7.2	L	O	07:44:06	180:0	0	5	3	only Lyα MN= 0	"
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	

OBSERVATORY LOG — DATE 23 Mar 81 — RAW TAPE 23 Mar

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
AG307	HD 344 11 44	§2V 4.7	α 05h, 15, 37 δ 40, 03, 24 R 97, 47, 14	H	LWR 10190 1+1	26732 121 OV/F	−.31 .20 11.8	L	O	04/08/20	30:0	6	0	3	MN= 0	Greve W.W.
AG307	HD 186408A 44	§2V 6.2	α 19, 40, 29 δ 50, 24, 30 R 252, 11, 11	H	LWR 10191 1+2	11114 62 OV/F	−1.34 .08 12.5	L	O	05/20/50	80/0	6	0	4	MN=526	Greve W.W.
AG307	HD 186408B 44	§2V 6.4	α 19, 40, 29 δ 50, 24, 30 R 252, 11, 11	H	LWR 10192 1+3	9456 64 OV/F	−1.4 .08 13.5	L	O	07/08/15	100/0	6	0	4	MN= 549	Greve W.W.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE 24 Mar 81 — RAW TAPE 24 Mar

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK364 2532	HD 53138 24	B3Ia 3.0	α 07h, 00, 56 δ −23, 45, 32 R 94, 00, 21	H	LWR 10197 1+1	1833 227 UN/F	−.8 .08 11.2	L	O	03/48/49	0/18	5	0	2	B 37 C 220 MN=459	Snijders W.W.
UK364 2533	ESO 141-G55 84	— 13.4	α 19, 16, 57 δ −58, 45, 52 R 284, 48, 25	L	SWP 13563 1+2	72 14 S/OV	−1.3 .08 75	L	O	04/31/22	45/00	3	5	0	MN=	Snijders W.W.
2534	" "	" "	α , , δ " , " , " R , ,	L	LWR 10198 1+3	62 3 S/OV	−1.9 .08 11.5	L	O	05/20/43	55/0	3	6	3	B 44 C 80 E 255 Mg II MN= 0	Snijders W.W.
2535	HD 53138 24	B3Ia 2.0	α 7h, 00, 56 δ −23, 45, 32 R 92, 54, 38	H	SWP 13564 1+4	1760 392 S/OV	−2.8 .08 7.2	L	O	6/48/23	1/20	7	0	1	MN=	Snijders W.W
2536	MKn 3 84	Sey II 13.4	α 6, 09, 48 δ 71, 03, 08 R 89, 59, 09	L	LWR 10199 1+5	73 17 S/OV	−1.9 .08 11.8	L	O	7/28/30	199/0	2	3	6	B 77 E Mg II 120 C weak. MN= 212	Snijders W.W.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 26 M MAR Y 81 RAW TAPE D 26 M MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. CHOT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK413	NGC 3783	Seyfert	α 11, 36, 33		SWP	97	-.12	S	0	04:03:49	180:00	3	3	2		H. Phillips
84		13.0	δ -37, 27, 41	L	13588	27	.08									
2537			R 162, 26, 35.4		1+1	s/o	8.2								MN=	GB
"	"	"	α , ,		LWR	96	-1.0									"
2538			δ " , " , "	L	10214	12	-.08	L	0	07:12:43	90:00	5	6	2	MN= 249	
			R , ,		1+2	s/o	12.5									
"	"	"	α , ,		SWP	97	-1.5								image lost	
2539			δ " , " , "	L	13581	19	.08	L	0	08:49:25	90:00	4	5	1	below y = 347	"
			R , ,		1+3	s/o	11.2								MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

Observatory Log 25-3-81

Σ9 crash. No support.

OBSERVATORY LOG — DATE: 27 MAR 81 — RUN START: 27 MAR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	BD +75 325 16	SdO 9.54	α 8, 4, 43 δ 75, 6, 48 R 121, 10, 44.9	L	LWR 10219 1+1	640 50/2 F.O.	-1.6 (=-1.0) .08 12.2	S L	0	06:00:08 06:04:23	1:12 0:24	5 5	0 0	1 1	MN= 323	LBIANCHI LB
"	"	"	α , , δ , , , R , ,	L	SWP 13587 1+2	620 37/2 F.O.	-2.0 .08 7.5	S / L	0	06:07:27 06:10:47	0:42 0:14	5 5	0 0	0 0	MN=	"
RS306	HD138749 23	B7e 4.22	α 15, 30, 54 δ 31, 31, 36 R 298, 7, 37	H	SWP 13588 1+3	618 93 FU	.12 .08 7.2	L	0	07:37:13	2:0	5	0	1	c=240(1900Å) c=220(1300) B=22 MN= 0	CASSATELLA (STALLO)
"	HD149757 14	O9.5IVe 2.7	α 16, 34, 24 δ -10, 28, 3 R 267, 22, 45	H	SWP 13589 1+4	2566 549 FU	-.15 .08 7.2			08:18:17		5	0	1	MN=	"
"	HD200120 23	B1IVe	α 20, 58, 8 δ 47, 19, 30 R 140, 56, 5	H	SWP 13590 1+5	277200 35 FO	-1.5 .08 7.2	L	0	08:52:38	1:10	5	0	1	c=231(1900Å) diffuse mirror phot MN= 0	"
"	"	"	α " , " , " δ , , , R , ,	L	LWR 10220 1+6	"	-.15 .08 11.8	L	0	08:56:58	0:1	5	0	1	MN= 249	"
"	HD175754 23	B0	α 18, 54, 39 δ -19, 13, 13 R , ,	H	SWP 13591 1+7	5643 14 OF	-1.4 .08 7.2	L	0	09:53:10	12:0	5	0	1	MN= 1	"
"	"	"	α , , , δ " , " , " R , ,	H	LWR 10221 1+8	"	-1.4 .08 11.8	L	0	10:07:19	10:0	5	0	1	MN= 473	"

OBSERVATORY LOG — DATE D 28 M MAR Y 81 — RAW TAPE D 28 M MAR

ESA (UK) / UK NO. / PROPOSAL	OBJECT / TYPE / PHASE	SP.TYPE / m_v / B-V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 413 2540	NGC3783 84	Seyfert 13.0	α 11,36,33 δ -37,27,41 R 159,10,16.0	L	SWP 13598 1+1	97 11 S.O.	-1.4 .08 7.5	L	O	03:59:35	40:00	3	5	1	MN=	H. PHILLIPS / LB
UK 413 2541	MCG-6-30-15 84	Seyfert 14	α 13,33,1.9 δ -34,02,26 R 210,15,55.6	L	SWP 13600 1+2	60 5 S.O.	-.73 .08 8.5	L	O	06:28:50	230:00	1	1	2	MN=	"
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG — DATE 29 MAR 81 — RAW TAPE 29 MAR

ESA / UK NO. / PROPOSAL	OBJECT / TYPE / PHASE	SP.TYPE / m_v / B-V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
OH CAL	HD 93521 12	O9Vp 6.89 +0.03	α 10,45,33.6 δ 37,50,4.5 R 36,14,51.5	L	SWP 13607 1+1	6200 12/305 F.O.	-.90 .08 7.2	L S	O O	03:31:10 03:34:16	0:3 0:9	4 5	0 0	0	MN=	L. BIANCHI / LB
"	"	"	α δ R	L	LWR 10234 1+2	6230 7/460 F.O.	-.91 .08 11.5	L S	O O	03:37:22 03:40:25	0:3 0:9	4 4	0 0	1	MN= 363	"
"	BD+75325 16	sdO 9.54	α 8,4,43 δ 75,6,48 R 66,6,11	L	SWP 13608 1+3	660 0 F.O.	-1.2 .08 7.2	L	O	04:52:06	0:42	4	0	0	TRAILED SPECTRUM RATE=2.38, ITER=5 joint spectra using the small aperture	"
"	"	"	α δ R	L	LWR 10235 1+4	670 0 F.O.	-1.3 .08 11.8	L	O	05:17:03	0:84	4	0	1	trailed: rate=1.19 Iterations: 5 MN= 493	"
"	RR TEL 63	Fe 10.5	α 20,00,20.1 δ -55,52,04 R 290,49,32.1	L	LWR 10236 1+5	320 4 F.O.	-1.44 .08 11.8	L	O	06:29:13	6:0	3	7	2	trailed. rate=.1665 Iter.: 3 MN=	"
KF 367	HD 2151 44	G2V 2.8	α 0,23,9.0 δ -77,32,0 R 358,21,44.2	H	LWR 10237 1+6	2000 360 F.U.	-2.6 .08 12.2	L	O	07:23:44	15:00	8	0	2	MN= 425	DRAINS / LB
"	"	"	α δ R	H	LWR 10238 1+7	1900 370 F.U.	-1.3 .08 12.5	L	O	08:04:19	15:00	8	0	2	MN= 213	"
"	"	"	α δ R	H	LWR 10239 1+8	1895 375 F.U.	-1.2 .08 12.8	L	O	08:46:09	15:00	8	0	2	MN= 622	"

OBSERVATORY LOG

DATE D 30 M MAR Y 81 RAW TAPE D 30 M MAR

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 und/ov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 413 2542	HCG-6-30-15 84	Seyfert 1 14	α 13, 33, 1.9 δ -34, 2, 26 R 207, 58, 10.3	L	LWR 10249 1+1	60 b-0 S.O.	-.31 .08 13.5	L	O	03:47:32	180:00	3	0	3	MN=	H. PHILLIPS
2543	"	"	α " δ " R "	L	LWR 10250 1+2	"	-.91 .08 15.5	L	O	07:11:32	178:00	3	0	4	MN=	"
			α δ R		1+										MN=	
			α δ R		1+									1	MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 31 M MAR Y 81 RAW TAPE D 31 M MAR

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 und/ov/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
IR 370	HD 183912 47	K5+B 3	α 19, 28, 42 δ 27, 51, 30 R 267, 19, 46	H	LWR 10251 1+1	1427 323 F.U.	-1.2 .08 12.5	L	O	03:29:15	30:00	8	0	3	MN= 324	D. REIMERS
"	"	"	α " δ " R "	H	SWP 13618 1+2	1500 292 F.U.	-1.1 .08 8.2	L	O	04:03:41	33:38	8	0	1	MN=	"
"	HD 192909 47	K2+B 3	α 20, 13, 55 δ 47, 33, 00 R 254, 13, 6.4	H	LWR 10252 1+3	631 105 F.U.	-.72 .08 13,2	L	O	05:02:04	40:00	3	7	2	MN=	"
"	"	"	α " δ " R "	H	SWP 13619 1+4	638 105 F.U.	-1.1 .08 8.2	L	O	05:46:18	60:00	2	5	1	MN=	"
"	UV AURB 47	"	α 5, 18, 33 δ 32, 27, 51 R 47, 20, 12.1	L	LWR 10253 1+5	1754 4 F.O.	-1.8 .08 12.8	L	O	07:38:49	10:00	4	0	2	MN=	"
"	"	"	α 5, 18, 33 δ " R "	L	SWP 13620 1+6	1738 5 F.O.	-1.3 .08 8.5	L	O	08:04:15	20:00	5	0	0	MN=	"
"	HD 81797 47	K5 2	α 9, 25, 7.7 δ -8, 26, 27 R "	L	SWP 13621 1+7	3790 550 F.U.	-1.3 .08 8.5	L	O	09:11:51	50:00	2	5	1	MN=	"
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 1 M APR Y 81 RAW TAPE D 1 M APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 311 2544	HD 37318 20	B0.5V 8.4 0.67	α 5,35,48.2 δ 28,25,58 R 93,53,37.3	H	SWP 13635 1+1	1447 5 FO	-1.3 .08 9.2	L	O	03:22:58	250:00	6	0	3	MN=	PHILLIPS P.P.
2545	" "	" " "	α , , δ , , R , ,	H	LWR 10261 1+2	1492 5 FO	-1.3 .08 9.8	L	O	07:35:56	115:00	6	0	4	MN= 159	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 2 M APR Y 81 RAW TAPE D 2 M APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DR 370	δ Tr A 45	G2 3.8	α 16,10,52 δ -63,33,37 R 236,40,21.4	L	SWP 13640 1+1	658 99 FU	-1.1 .24 9.5	L	O	03:14:59	120:00	4	5	1	MN=	REIMERS PP
"	"	" "	α , , δ , , R , ,	H	LWR 10266 1+2	636 88 FU	-.7 .08 9.8	L	O	05:17:59	30:00	4	5	3	MN= 143	" "
"	ε CAR 47	K0 II 1.85	α 8,21,29.5 δ -59,20,30 R 108,55,55.8	H	SWP 13641 1+3	4108 707 FU	-1.6 .08 9.5	L	O	06:23:16	00:35	4	0	0	MN=	" "
"	" "	" "	α , , δ , , R , ,	H	LWR 10267 1+4	4548 977 FU	-1.3 .08 14.2	L	O	06:26:11	00:20	3	0	2	MN= 397	" "
"	HD 163770 47	K1 3.8	α 17,54,32.1 δ 37,15,21 R 281,21,22.5	L	SWP 13642 1+5	607 120 FU	-1.8 .08 9.2	L	O	07:17:19	150:00	4	5	2	MN=	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

3 APRIL 81 [3|APR]

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2546 UKC.AL	BD+75 325 16	9.5	α 08,04,54 δ +17,06,48 R 69,59,253	L	LWP 1287 1+1	2030 -16.208 F/O	-0.66 0.08 8.9	L	0	03:08:09	00:00 +0:00	4	0	2	TFLOOD + SPECTRUM MN=	GONDHALEKAR /
2547			α δ R	L	LWP 1288 1+2		-0.0 0.08 9.5	"	"	03:41:00 03:44:05	00:46 +0:10	4	0	2	00:46 x 00:1 NO TFLOOD MN=	
2548			α δ R	L	LWP 1289 1+3		0.44 0.08 10.2	"	"	04:13:57 04:16:55	0:46 +0:10	4	0	9	TFLOOD + SPECT MN=	
2549			α δ R	L	LWP 1290 1+4		2.0 0.08 10.5	"	"	05:02:06 05:07:00	00:55 +0:10	3	0	9	MN=	
2550			α δ R	L	LWP 1291 1+5		1.2 0.08 10.5	"	"	05:39:34 05:41:58	00:38 +0:10	4	0	8	MN=	
2551			α δ R	L	LWP 1292 1+6		0.3 0.08 10.0	"	"	06:12:12 06:14:49	0:02 +0:10	3	0	4	MN=	
2552			α δ R	L	LWP 1293 1+7		-0.2 0.08 10.0	"	"	06:47:39 06:52:54	1:09 +0:10	8	0	9	MN=	
2553			α δ R	L	LWP 1294 1+8		-1.1 0.08 10.8	"	"	07:22:49 07:26:19	0:09 +0:10	8	0	9	MN=	

OBSERVATION LOG

DATE 3 APR 81 RAW TAPE 3 APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2554 UKCAL	BD+75 325 16	9.5	α 08,04,54 δ 17,06,48 R 69,59,25	L	LWP 1295 1+89	670 -16.208 F/O	-1.5 0.08 11.2	L	0	07:57:58 08:03:02	0:12 0:10	3	0	9	TFLOOD + SPECTRUM MN=	
2555			α δ R	"	LWP 1296 1+90		-0.7 0.08 11.5	"	"	08:32:10 08:35:45	0:35 0:10	4	0	8	MN=	
2556			α δ R	"	LWP 1297 1+91		-0.75 0.08 11.1	"	"	09:10:06 09:14:19	1:09 0:10	8	0	9	MN=	
2557			α δ R	"	1+			"	"		0:46 0:10				MN=	
2558			α δ R	"	1+			"	"		0:00 0:10				MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG — DATE 4 APR 81 — RAW TAPE 4 APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
LM 529	PKS 0537-441		α 05, 37, 20.8		LWR	3/0	-2.7			03:10:06	220:00				GDE (342, 548)	IANZI
	87	13-16	δ -44, 06, 44.2	L	10282		.08	L	O			3	0	7	177 FO	
		~.5	R 73, 06, 09.7		1+1.		14.5								MN=	ee
	PKS 2155-304		α 21, 55, 58.3		SWP										Σ	
U	87	13-14	δ -30, 27, 53.7	L	13652			L	O						Crash	U
		~.5	R		1+										MN=	
			α													
			δ													
			R		1+										MN=	
			α													
			δ													
			R		1+										MN=	
			α													
			δ													
			R		1+										MN=	
			α													
			δ													
			R		1+										MN=	
			α													
			δ													
			R		1+										MN=	
			α													
			δ													
			R		1+										MN=	

OBSERVATORY LOG — DATE 5 apr 81 — RAW TAPE 5 apr

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UKCAL 2557			α 7h, 49, 06		SWP							0	0	3	NULL	WAMSTEKER
			δ 01, 53, 45		13658		-.13								HIGH-GAIN	
			R 83, 33, 22		1+1		8.8								MN=	W.W.
2558 UKCAL			α		SWP							0	0	5	NULL	
			δ		13659		-.13	/							HIGH-GAIN	
			R		1+2		9.2								MN=	W.W.
2559 UKCAL			α		SWP		+.3			03/42/59	1:49	0	0	6	<M7> = 172	
			δ		13660		+.10								<M7> = 71	
			R		1+3		9.2								CAL UV, 4Φ	W.W.
2560 VILSP	SN N4536 -56	13-5	α 12, 31, 56.3	L	LWR	66	1.0	6	O	05/13/30	250:0				FesPNT 100	WAMSTEKER
			δ 2, 28, 31		10289	5	-.08					2	0	6	66 5:0	
			R 34, 22, 34.2		1+4	S.10V.	13.8								-Ref-pnt / Focus at end exp. 2 MN=	WW.
			α												β=10°	
			δ												So focus was bad	
			R		1+										MN=	
			α													
			δ													
			R		1+										MN=	
			α													
			δ													
			R		1+										MN=	
			α													
			δ													
			R		1+										MN=	

OBSERVATORY LOG

DATE 07 APR 81

(ESA) / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
NP587	M100 80	13.8	α 12, 20, 22 δ 16, 05, 56 R 23, 24, 39.5	L	LWR 10295 1+1	B/0	-0.6 .08 14.2	L	O	02:37:34	120:00	3	0	4	GDE(-510,-1238) 101 50 MN=196	VETTOLANI ec
"	"	"	α , , δ , , R , ,	L	SWP 13667 1+3	B/0	-0.2 .08 11.2	L	O	04:41:01	307:00	3	0	3	GDE(-313,-1379) 123 50 MN=	"
"	"	"	α , , δ Serendip R , ,	L	LWR by 10296 1+2			L	O	05:06:40	264:00	1	0	4	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE 7 APR 81 RAW TAPE 7 APR

(ESA) / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
Q544 UKCAL			α , , δ , , R , ,		LWR 1298 1+1										NULL MN=	GONDHALEKAR
2545			α , , δ , , R , ,		LWP 1299 1+2			/							" MN=	
2546			α , , δ , , R , ,		~~LWR~~ LWP 1300 1+3					04:18:10	1:30				UV FLOOD MN=	
2547			α , , δ , , R , ,		LWP 1301 1+4					04:59:24	0:50				" MN=	"
2548			α , , δ , , R , ,		LWP 1302 1+5					05:31:39	1:10				" MN=	
2549			α , , δ , , R , ,		LWP 1303 1+6					06:09:07	1:30				" MN=	
2550			α , , δ , , R , ,		LWP 1304 1+7										NULL MN=	
2551			α , , δ , , R , ,		LWP 1305 1+8					07:02:26	0:40				UV FLOOD MN=	

OBSERVATORY LOG

DATE 7 APR 81 RAW TAPE 7 APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2552			α / / δ / / R / /		LWP 1306 1+9										NULL MN=	P.M.G
2553			α / / δ / / R / /		LWP 1307 1+10					02:55:35	1:30				UVFLOOD MN=	
2554			α / / δ / / R / /		LWP 1308 1+11										NULL MN=	
2555 UK302	POX4 88	16.2	α 11,48,39 δ -20,13,19 R 125,15,27.1	L	SWP 13675 1+12	6.0	H.5 0.08 11.5	L	O	03:03:45	03:48:00 348:00	0	0		No Spectrum Or V. Faint MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE 8 APR 81 RAW TAPE 8 APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2556 UKCAL			α / / δ / / R / /		LWR 10306 1+1										H1 READ NULL MN=935	GONDHALEKAR
2557			α / / δ / / R / /		LWR 10307 1+2			/							" MN=	
2558			α / / δ / / R / /		LWR 10308 1+3					03:56:31	1:58				UV FLOOD 60% MN=	
2559			α / / δ / / R / /		LWR 10309 1+4					04:27:30	5:1				UV FLOOD 160% MN=	
2560			α / / δ / / R / /		LWR 10310 1+5										2nd READ MN=	
2561			α / / δ / / R / /		LWR 10311 1+6					08:12:53	0:22				T. FLOOD 100% MN=	
2562 UK354	VELA8NR 75		α 08,30,50 δ -46,27,27 R 100,38,47	L	SWP 13678 1+7	60	-1.53 0.08 8.5	L	O	02:50:26	3.56M	2	3	2	MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE 9 APR 81 RAW TAPE 4 HPR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2563 UKCAL			α δ R		SWP 13683 1+1										HI NULL MN=	
2564			α δ R		SWP 13684 1+2			/							" MN=	
2565			α δ R		SWP 13685 1+3					03:12:	1:49				UV FLOOD 60% MN=	
2566			α δ R		SWP 13686 1+4					04:12:00	4:51				UV FLOOD 160% MN=	
2567			α δ R		SWP 13687 1+5										2nd READ MN=	
2568			α δ R		SWP 13688 1+6						0:16				TFLOOD 100% MN=	
2569 UK354	VELA SNR 75		α 08.30.50 δ -45.27.27 ℓ 138.08.58	L	LWR 10318 1+7	6.0	-1.0 0.08 11.2	L	O	05:07:56	280:00	2	3	6	MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 10 APR 81 RAW TAPE 10 HPR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JC 562	NGC 3125 82	dwarf irregular galaxy	α 10, 4, 18.0 δ -29, 41, 29 R 107, 25, 33.0	L	SWP +13693 1+2	44 0 05	-1.4 .08 9.2	L	O	03 4702	360:0	3	Ø	3	intended. MN=	J. CLAVEL Ac
"	Serendipity background	—	α δ R	L	LWR 10329 1+1	~	~	L /	O	03 4902	333:0	0	0	4	DN = 60 MN= 14	"
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 447 2570	[illegible] 84 Akn 120	Max K. gal.	α 5, 13, 32.9 δ -0, 12, 16 R 80, 33, 6.3	H	SWP 13698 1+ //	/	-1.3 0.2-.08 10.0	L	O	1:43:25 9:03:00	440:0 440:0 1050:0	5	0	X	READ AT GSFC - STARTED AT GSFC PREVIOUS SHIFT B=180 MN= /	BLADES A.C.
2571	background	/	α , , δ , , R , ,	L	LWR 10335 1+1	/	-1.3 0.2/.08 15.5	L	O	02:19:11 09:40:00	440:0 440:0 980:0	0	0	X	serendipity READ AT GSFC STARTED AT VILSPA B=188 MN= /	sec
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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OBSERVATORY LOG DATE 12 APR 81 RAW TAPE 12 APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JC 562	NGC 3125 82	irregular other gal.	α 10, 4, 18 δ -29, 41, 29 R 105, 22, 16.3	L	SWP 13701 1+1	44 0 05	-.06 0.08 10.0	L	O	3142:34	365:0	4	0	2	B=31, C=134 at 1750-2000 Å MN=.1	J. CLAVEL AC
			α , , δ , , R , ,		1+			/							MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 14 APR 81 RAW TAPE 14 APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 447 2573	MK 509 84	Seyfert 13.	α 20, 41, 26.4 δ -10, 54, 16 R 282, 50, 2.5	H	SWP 13707 1+	/	-0.3 0.08 12.2	L	N	00:15:17 01:00:17 08:22:17	35 440: 440:				started at GSFC and to be read at GSFC MN=	BLADES JCB
UK 447 2577	NULL (serendipity)	/	α 20, 41, 26.4 δ -10, 54, 16 R 282, 50, 2.5	H	LWP 1310 1+1	/	-0.3 0.05 12.2	L	N	01:03:04 08:24:14	60 60 T=500	0	0		started at GSFC read down here background 60 MN=	BLADES JCB
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 14 APR 81 RAW TAPE 14 APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 447 2574	Akn 120 84	Seyfert 14.5	α 5, 13, 38 δ -0, 12, 15.8 R 79, 07, 9.6	H	9 SWP 13708 1+	/	-0.9 0.08 12.5	L	O	21:51:58 05:12:56	440:00 440:00				read at GSFC MN=	JCBlades JCB
UK 447 2575	serendipity serendipity	/	α 5, 13, 38 δ -0, 12, 15.8 R 79, 07, 9.6	/	LWR 10346 1+	/	-0.9 0.08 16.5	L	O	21:57:00 05:18:02	440:00 440:00				background bit read at GSFC MN=	JCBlades JCB
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 15 Apr 81 RAW TAPE 15 Apr

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2576 UK320	NGC5253A 82	13.	α 13h, 37, 04.6 δ −31°, 23', 24" R 183, 30, 11.1	L	LWR 10355 1+1	152 110 @V/S	−2.1 −.08 15.2	C L	O	06/32/51	40:0	3	1	5	MN=173	Briggs W.W.
2577 UK320	HD 149757 23	2.7	α 16, 34, 24.2 δ −10, 28, 3.1 R 273, 10, 52.8	H	SWP 13719 1+2	2741 330 U/F	−.3 .08 9.5	L /	O	06/46/05	00:23	6	0	0	C 220 Lg 20 MN=	Briggs WW.
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 16 APR 81 RAW TAPE 16 APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
RS.564	HD 26861 15	02 B(f)) 3.56 0.12	α 5h, 32m, 22.9 δ 9°, 54', 8" R 84°, 25', 0.8"	H	SWP 13725 1+1	1448 650 f.u.	−1.0 .08 8.2	S	O	02:40:39	0:30	5	0	1	MN=	R. COSTERO. A.H.
"	HD 66811 15	04 If 2.26 0.04	α 8h, 04m, 49.5 δ −39°, 57', 41" R 86°, 36', 32"3	H	SWP 13726 1+2	4037 765 f.u.	−0.6 .08 8.2	L /	O	05:15:31	0:0Y	5	0	1	MN=	"
"	HD 105056 15	ONq.7Iae 7.55 0.31	α 12h, 03m, 12.8 δ −69°, 17', 41" R 153°, 59', 48"0	H	SWP 13727 1+3	4106 5 f.o.	−0.7 .08 8.2	L	O	04:00:27	28:00	5	0	1	MN=	"
"	HD 47594 15	08 B(f) 7.04 0.24	α 18h, 54m, 39.4 δ −19°, 13', 14" R 276°, 13', 10"8	H	SWP 13728 1+4	5869 19 f.o.	−0.9 .08 8.5	L	O	05:04:17	12:00	5	0	1	MN=	"
"	HD 164794 13	04 V 5.97 0.35	α 18h, 0m, 48.4 δ −24°, 21', 49" R 269°, 38', 22"1	H	SWP 13729 1+5	13000 290 f.o.	−1.8 .08 8.5	L	O	~~07:59:49~~ 06:04:58	4:30	5	0	1	MN=	"
PHCAL	RR TEL 6.3	10.5	α 20h, 00m, 20.5 δ −55°, 52', 04" R 280°, 42', 56"1	L	SWP 13730 1+6	289 1 f.o.	−1.9 .08 8.2	L	O	06:48:19	4:00	9	6	0	Trailed (a.333, 0.9, 4) 2 1x sat. MN=	A. HECK A.H.
"	"	"	α δ R	H	LWR 10364 1+7	292 0 f.o.	−2.0 .08 12.2	L	O	07:05:31	2:00	2	6	2	Refpt= (−4, −2.0) MN= 135	"
	WAVCAL	(3,	α δ 120) R	H	SWP 13731 1+8			S	C	08:08:53 68:11:48					Image totally saturated MN=	"

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VILSP	HD122236	4.73 .69	α 16h 50m 18s δ -42° 17' 0" R 247° 17' 27"	H	LWR 10365 1+9	342 35 1.0	-0.3 .08 12.5	L	0	09:16:11	5:40	5	0	2	MN=	A. HECK A.H.
			α δ R		1+			/							MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

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DATE D 17 M APR Y 91 RAW TAPE D 17 M APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK364 2578	MKN 3 84	Seyfert 2 13.4 0.35	α 06h 09m 48s.3 δ 71° 3' 7".8 R 162° 51' 15".5	L	SWP 13738 1+1	61 7 2.0	-0.8 .01 15.2	L	0	02:13:33	428:00	2	5	4	MN=	J. BOKSENBERG A.H.
			α δ R		1+			/							MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 18 APR 81 RAW TAPE 10 FT 9

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V).	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CC554	NGC 1978	10.7	α 5 , 28 , 24.0 δ -66 , 16 , 00 R 55 , 11 , 48.4	L	SWP 13745 1+1	119 51 SO	-2.2 .08 18.3	L	O	02:51:40	165:00	1	0	2	MN=	CACCIARI ee.
"	NGC 1786	10.88	α 04 , 58 , 54 δ -67 , 49 , 00 R 48 , 4 , 19.8	L	LWR 10379 1+2	157 8 FO	-2.3 .08 20.4	L	O	05:57:50	230:00	7	0	6	MN=	4
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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DATE 19 APR 81 RAW TAPE 19 APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CC554	NGC 1786 83	10.88	α 4 , 58 , 54 δ -67 , 49 , 00 R 47 , 14 , 44.8	L	SWP 13750 1+	158 6 FO	-0.6 .08 18.6	L	O	02:26:58	130:00	3	0	3	9DE(-900, -81, 273.50) Sat. at 4d MN=	LACCIARI ee.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 20 M APR Y 81 RAW TAPE 20 APR

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 wdow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DG 566	HD 110432 26	Be 5.3	α 12, 39, 54 δ -62, 47, 30 R 158, 24, 06	H	LWR 10390 1+1	20446 278 wdow f.	-2.0 .08 22.6	L	O	02:58:41	4:00	5	16	2	MN=	PACHECO / P.B.
	4	4	α , , δ , , R , ,	H	SWP 13759 1+2	20400 81	-2.0 .08 19.0	L	O	03:00:39	7:00	5	0	1	MN=	4 / 4
	4	4	α , , δ , , R , ,	H	LWR 10391 1+3	20420 62	-1.2 0.08 21.9	L	O	03:28:44	10:00	6	0	2	MN=	4 / 4
DG 566	HD 87643 27	Bp 8.7	α 10, 02, 50 δ -58, 25, 17 R 113, 22, 48	L	LWR 10392 1+4	1089 11	-.9 0.08 21.9	L	O	04:27:55	7:00	6	6 1	2	MN=	4 / 4
	4	4	α , , δ , , R , ,	L	SWP 13760 1+5	1075 14	-1.3 0.08 19	L	O	06:40:18	30:00	5	5	0	MN=	4 / 4
	4	4	α , , δ , , R , ,	H	LWR 10393 1+6	1049 6	-1.3 .08 21.9	L	O	05:13:59	273:00	5	5	8	MN=	4 / 4
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 21 M APR Y 81 RAW TAPE 21 APR

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 wdow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HP 348	A 70 70	15:	α 20, 28, 54 δ -7, 16, 0 R 282, 45, 33.2	L	SWP 13765 1+1	B.O.	-4.2 0.08 20.1	L	O	02:41:06	150:00	2	2	4	MN=	BENVENUTI / P.B.
	4	4	α , , δ , , R , ,	L	LWR 10397 1+2		-1.6 0.08 21.6	L	O	05:17:39	28:00	0	0	1	Aborted MN=	4 / 4
4	A 76 70	~14.5	α 21, 27, 30 δ -3, 1, 0 R 283, 55, 1.5	L	SWP 13766 1+3	B.O.	-.6 0.07 19.7	L	O	06:25:50	200:00	2	2	1	MN=	4 / 4
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 22 APR 81 RAW TAPE 22 APR

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 window/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DG 567	HD150135	06V	α 16, 37, 34	H	SWP	/	-1.7	S	O	03:25:15	50:0	2	0	2	SAO227053 at FES	PACHECO
	12	6.89	δ -48, 40, 02		13775		.08								(X,Y) = (-389, -330)	
		0.49	R 235, 58, 59		1+1		18.6								MN=	CASSAFECLA
	"	"	α " " "	H	LWR	/	-1.4	S	O	04:20:32	40:0	0	0	2	SAO22253 at FES	
			δ / /		10411		.08	/							(X,Y) = (192, -170)	"
			R / /		1+2		21.9								MN=	
	HD150041	B0III	α 16, 36, 59	H	SWP	5071	-.98	L	O	05:12:20	22:00	5	0	1	B=20; C=196	
	23	7.06	δ -48, 39, 35		13776	20	.08									"
		0.38	R 235, 58, 59		1+3	OF	19.0								MN= Ø	
			α / /	H	LWR		-.1	L	O	06:01:29	25:00	7	0	1		
			δ / /		10412		.08									"
			R / /		1+4		21.3								MN= /	
	72 A	B3V	α 16, 36, 18	L	SWP	141	-1.9	L	O	06:47:47	45:00	5	Ø	1	C=200; B=19	
	21	11.0	δ -48, 42, 00		13777	0	.08									"
		0.59	R 235, 58, 59		1+5	OF	19.0								MN= Ø	
	"	"	α / /	L	LWR	"	//	L	O	07:36:44	30:0	5	0	1	C=225; B=29	
			δ / /		10413											"
			R / /		1+6										MN= Ø	
	HD150136	O5III	α 16, 37, 35	H	SWP	18480	1.1	L	O	08:29:26	7:0	5	0	1		
		5.6	δ -48, 40, 01		13778	6000	.08									"
		0.49	R 235, 58, 59		1+7	OF	19.0								MN= 1	
	"	"	α " " "	H	LWR	/	-0.4	L	O	09:01:55	6:0	5	0	1	C=240	
			δ / /		10414	/	.08									"
			R / /		1+8		21.9								MN= Ø	

OBSERVATORY LOG

DATE 23 APR 81 RAW TAPE 23 APR

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 window/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	HD124689	F2V	α 14, 13, 24.9	H	LWR	3579	-1.9	L	O	02:24:49	90:00	4	0	4	C=165 B=40	WADE, Fitch, Ruzeski
2579	40	7.2	δ -57, 37, 22		10418	5	.08									
UK 313			R 184, 18, 34		1+1	OF	21.6								MN= Ø	A-C
+UKR317	"	"	α / /	L	SWP	2814	-1.1	L	O	03:58:43	90:00	7	0	2	Overexposed λ>1950A	
2580	"	"	δ " "		13784	7	.08	/							continuum 05:20:52	"
			R / /		1+2	OF	18.6								= 3113 OF MN= Ø	
	HD99946	F0V	α 11, 27, 25.6	L	SWP	5766	-2.0	L	O	06:21:33	60:0	8	3	2	CII = 73; SiIV 64; D=25	
2581	53	6.8	δ +30, 14, 35		13785	15	.08	/							CIV = 79; overexp	"
			R 46, 51, .8		1+3	OF	18.3								λ>1710 A MN= Ø	
	HR6116	"	α / /	H	LWR	5392	-2.0	L	O	07:55:09	70:0	4	0	2	C=160; B=35	
2582			δ / /		10419	15	0.08									"
			R / /		1+4	OF	21.2								MN= Ø	
			α / /	L	SWP	4912	-0.5	L	O	09:08:46	15:0	5	0	1	XSPREP	C=228 in LAP
2583	"	"	δ " "		13786	19	.08								CTS = 4932 at 09:28:30	C=142 in SAP
			R / /		1+5	OF	18.3	S	O	09:29:21	16:0	4	0	1	CII = 4911 at 09:46:00	"
															MN= Ø	B=24
			α / /	L												
			δ / /													
			R / /		1+										MN=	
			α / /													
			δ / /													
			R / /		1+										MN=	
			α / /													
			δ / /													
			R / /		1+										MN=	

OBSERVATORY LOG

DATE 24 APR 81 RAW TAPE 24 APR

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 T:DA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION hh:mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
AA 545	AG DRA 57	Symb. 9.3	α 16, 1, 23 δ +66, 56, 26 R 331, 17, 43	H	SWP 13793 1+1	743 1 0F	-0.3 0.08 16.5	L	O	02:19:24	30:0	2	6	1	guide (1086, 1095) cps 337 09 CIV 158, 102 HeII Spk-sat B=19 MN= φ	BARATTA CASSARELLA
"	"	"	α , , δ , , R , ,	H	LWR 10426 1+2	704 2 0F	-1.2 .08 19.3	L	O	02:54:55	30:0	2	3	1	MgII 130; B = 31 MN= φ	"
"	"	"	α , , δ , , R , ,	H	SWP 13794 1+3	723 3 0F	-1.7 .08 16.9	L	O	03:28:57	80:0	2	5	1	NV 123, 125; SiIV 139, 140; CIV 154, 161; B=24 MN= φ	"
"	CI CYG 57	Symb. 10.	α 19, 48, 21 δ 35, 33, 30 R , ,	H	LWR 10427 1+4	325 5 0F	-0.5 0.08 19.7	L	O	05:13:27	100:0	0	3	2	MgII 102; OIII 3132: 114 B=40 MN= φ	"
"	"	"	α , , δ , , R , ,	H	SWP 13795 1+5	302 3 0F	-1.7 .08 16.9	L	O	06:57:07	80:0	0	3	2	CIV 132, 94; HeII 104; SiIV 167 SiIV 98; B=30 MN= φ	"
"	Z AND	Symb 10.3	α 23, 31, 15 δ 48, 32, 31 R 235, 1, 52.3	L	LWR 10428 1+6	292 1 0F	-2.0 .08 19.7	L	O	08:53:12	20:0	4	5	2	MgII 1px sat C 248 B=27 OIII 3132 = 24 MN= φ	"
"	"	"	α , , δ , , R , ,	H	SWP 13796 1+7	486 2 0F	-2.0 .08 16.9	L	O	09:22:18	24:0	0	3	2	CIV: 118, 96 HeII: 114 B=20 MN= φ	"
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 25 APR 81 RAW TAPE 25 APR

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 T:DA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION hh:mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 313 317 2584	HD 163611 53	≈ 5V ≈ 5	α 17, 56, 24.3 δ 4, 59, 31 R 288, 24, 19.8	H	LWR 10438 1+1	3186 9 F.O	-1.2 .24 19.0	L	O	03:11:26	180:00	5	φ	6	MN=	WADE; WILHO RUCINSKI / LB
" 2585	"	"	α , , δ " , " , " R , ,	L	SWP 13803 1+	2206 7 F.O.	-1.1 .08 15.2	L	O	06:18:49	180:00	7	0	2	MN=	"
" 2586	HD 150486 53	GOV 8.8	α 16, 38, 47.8 δ 0, 36, 9 R 291, 38, 26.2	L	LWR 10439 1+	1200 6 F.O.	-.88 .08 18.6	L	O	09:39:00	10:00	5	0	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 26 APR 81 RAW TAPE 26 APR

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	PES CTS / ref. p. slot / undov/f.s	FOCUS / BKG / THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UV597	NGC 4151	Seyfert	α 12 , 08 , 00.4		SWP	194	-.48									M. V. PENSTON
	84	11.7	δ 39 , 41 , 02	L	13810	20	.08	L	O	07:34:04	25:00	3	4			
			R 35 , 26 , 11.5		1+1	S.O.	17.9								MN=	LB
"	"	"	α , ,		LWR	191	-.98									
			δ " , " , "	L	10448	24	.08	L	O	08:03:10	30:00	3	4	1		"
			R , ,		1+2	S.O.	20.4								MN=	
"	"	"	α , ,		SWP	187	-1.5									
			δ " , " , "	L	13811	19	.08	L	O	08:37:44	40:00	3	5	1		"
			R , ,		1+3	S.O.	18.3								MN=	
"	"	"	α , ,		LWR	176	-1.9									
			δ " , " , "	L	10449	22	.08	L	O	09:21:22	25:00	3	5	3		"
			R , ,		1+	S.O.	21.2								MN=	
			α , ,			195									RESNT after last exposure	
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE 27 APR 81 RAW TAPE 27 APR

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	PES CTS / ref. p. slot / undov/f.s	FOCUS / BKG / THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK332	HD 45166	WR+B	α 6 , 23 , 36		LWR	446	-.65									A. WILLIS
	10	9.9	δ 8 , 0 , 18	H	10455	2	.08	L	O	02:26:00	100:00	3	5	5		
2587			R 78 , 49 , 7.7		1+1	F.O.	21.2								MN=	LB
"	HD 136488	WC9	α 15 , 19 , 58.2		SWP	741	-.36									
	10	9.4	δ -62 , 30 , 00	H	13816	2	.08	L	O	04:57:37	220:00	3	5	2		"
2588			R 200 , 19 , 59.0		1+2	F.O.	17.9								MN=	
"	HD 169757	O9	α 16 , 34 , 24.1		SWP	2640	-.31									
	13	2.6	δ -10 , 28 , 3	H	13817	400	.08	L	O	09:32:54	00:23	5	0	1		"
2589			R 278 , 57 , 26.2		1+3	F.O.	18.3								MN=	
			α , ,		LWR	2554	-.31									
	"	"	δ " , " , "	H	10456	500	.08	L	O	09:36:00	00:25	7	0	2		"
2590			R , ,		1+4	F.O.	20.1								MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 28 M APR Y 81 RAW TAPE 28 APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
OS 524	B0-9°4395	B_p	α 16,25,52	H	SWP 13826 1+9	239 2 F.O.	-2.7 .08 17.9	L	O	03:09:42	398:00	5	0	3	MN=	V. HEBER / UB
	27	10.6 .31	δ -9,13,0 R 281,42,54.7													
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

DATE 29 APR 81 RAW TAPE 29 APR

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 332	A0538-66	B2 III	α 5,32,43	L	SWP 13834 1+1	137 11 S.O.	-1.6 .08 15.2	L	O	03:04:18	45:00	3	6	0	MN=	A. WILLIS / UB
2591	59	12.5-15	δ -66,53,40 R 46,8,55.9													
2592	"	"	α δ R	L	LWR 10467 1+3	143 33 S.O.	-1.1 .08 18.6	L	O	03:53:27	30:00	4	0	0	MN=	"
			α δ R		FES FIELD 1+2										MN=	
2593	"	"	α δ R	L	SWP 13835 1+4	138 7 S.O.	-1.1 .08 15.9	L	O	04:26:57	40:00	4	5	0	MN=	"
2594	"	"	α δ R	L	LWR 10468 1+5	135 33 S.O.	-1.1 .08 19.0	L	O	05:11:12	30:00	4	0	1	MN=	"
2595	"	"	α δ R	L	SWP 13836 1+6	138 5 S.O.	-1.6 .08 16.2	L	O	05:48:53	40:00	3	5	0	MN=	"
2596	"	"	α δ R	L	LWR 10469 1+7	142 30 S.O.	-1.5 .08 19.3	L	O	06:33:19	20:00	3	0	1	MN=	"
2597	"	"	α δ R	L	SWP 13837 1+8	140 9 S.O.	-1.1 .08 16.2	L	O	06:59:51	40:00	3	5	1	MN=	"

OBSERVATORY LOG

DATE D 29 M APR Y 81 RAW TAPE 29 APR

ESA / UK UK NO. PHOTOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
			α , ,		LWR	140	-.2									A. WILLIS
"	"	"	δ , , , "	L	10470	19	.08	L	O	2:50:34	20:00	3	0	1		
2598			R , ,		1+9	S.O.	A.3								MN=	
			α , ,		SWP	130	.2									
	"	"	δ " , " , "	L	13838	12	.08	L	O	08:21:54	20:00	2	3	1		"
2599			ε , ,		1+10	S.O.	16.5								MN=	
	4U0149757	09	α 16, 34, 24.1		SWP	2700	.2									
"	13	2.6	δ -10, 28, 3	H	13839	350	.08	L	O	01:38:48	0:23	5	0	1		"
2600			2280, 21, 55.4		1+11	F.O.	16.5								MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 30 M APR Y 81 RAW TAPE 30 APR

ESA / UK UK NO. PHOTOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HN 530	HD 50896	WN5	α 6, 52, 8		LWR	7450	-0.8	L		03:29:12	00:12					SCHMUTZ /
	"	6:5	δ -23, 51, 51	L	10476	20	.08		O		00:20	5	7	1		SCHILD
			R 66, 18, 29.3		1+1	FO	21.2	S		03:32:42					MN=	ee
			α , ,		LWR	7460	-0.3			04:05:06	24:00				GDE (-656, -1468,	
"	"	"	δ , " ,	H	10477	23	.08	L	O			6	8	3	388. FO)	"
			R , ,		1+2	FO	21.2								MN=	
			α , ,		SWP	7600	.09	L		04:32:57	00:04					
"	"	"	δ , " ,	L	13844	29	.08		O			5	7	1		"
			R , ,		1+3	FO	17.6	S		04:36:21	00:03				MN=	
	HD 89358	WN5	α 10, 15, 15		LWR	190	-0.4			05:24:29	12:00				GDE (-380, 778	
	"	11.7	δ -57, 39, 45	L	10478	2	.08	L	O			3	5	1	343 FO)	"
			R 105, 13, 44.6		1+4	FO	21.2								MN=	
MUS97	NGC 4151	Seyfert	α 12, 08, 00.4		SWP	184	-1.3			06:36:50	25:00				GDE (-369,	PENSTON
	84	12.4	δ +39, 41, 02	L	13845	13	.08	L	O			2	4	1	-352, 289 SO)	
			R 38, 21, 59.5		1+5	SO	17.9								MN=	ee
			α , ,		LWR	186	-1.0			07:09:50	25:00				GDE (-562, -212	
	"	"	δ , " ,	L	10479	19	.08	L	O			3	5	2	354 150) Bad	"
			R , ,		1+6	SO	21.2								Sign. reading MN= Frames missing	
			α " , " , "	L	SWP	190	-1.05	L	O	07:44:32	50:00					
"	"	"	δ " ,		13846	18	.08					3	6	1		"
			R , ,		1+7	S/O	17.9								MN=	
			α , ,		LWR	190	-1.1			08:39:03	25.00					
"	"	"	δ , ,	L	10480	20	.08	L	O			3	5	2		"
			R , ,		1+8	S/O	21.2								MN=	

OBSERVATORY LOG

DATE 1 May 81 RAW TAPE 1 May

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot wdow/f.s	FOCUS BIN THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HN 530	HD 15 473	WC5	α 13, 15, 18	L	SWP	789	-0.63	S	O	00:28:37	4:00	4	7	1	E=209; C=74; B=30	SCHMUTZ
	-10-	10.0	δ -57, 53, 0		13856	5/38	0.9								E: 37 eak p'nin CIV;	
			R 153, 54, 50		1+1	OF	14.8	L	O	∞ 36:09	10:00				12 in HeII and 10 in CIII; C=165 MN= 0	AC
			α , ,	L	LWR	789	-0.7	L	O	00:51:31	8:0	5	8	1	cont. 1300 Å ; sm 80 DN;	
			δ , ,		10488	5/49	0.5	/							B=30	
			R , ,		1+2	OF	19.3	S	O	01:02:36	12:0	5	8		MN= 0	
	HD 165763		α 18, 5, 28.6	L	LWR	3420	-0.9	L	O	07:26:56	0:40	5	8	2		
			δ -21, 15, 40		10489	10/200	.08	/								
			R 272, 17, 49.3		1+3	OF	14.8	S	O	02:23:13	1:00	5	8		MN= 0	
			α , ,	H	LWR	3420	/	L	O	02:55:36	60:0	5	8	4	B=60	
			δ , ,		10490	2	0.08							1		
			R , ,		1+4	OF	19.0								MN= 0	
	HBV 475	Symbiotic	α 20, 49, 2.6	L	SWP	111	-1.0	L	O	04:39:17	40:0	0	4	1	CIV: 132 ; HeII: 133	SCHILD
	57	12.8	δ +35, 23, 37		13857	5	0.08								B=18; CIII 101	
			P. 279, 48, 24		1+5	OS	13.2								MN= 0	AC
			α , ,	L	LWR	107	-0.7	L	O	05:23:24	20:0	2	3	1	MgII 110; B=29	
			δ , ,		10491	7	0.08								C=34;	
			R , ,		1+6	OS	18.6								MN=	
			α , ,	H	SWP	101	-0.5	L	O	05:58:58	109:0	0	2	1	fe line missing	
			δ , ,		13858	5	0.08								HeII 57; B=28	
			R , ,		1+7	OS	13.2								MN= 0	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE 2 May 81 RAW TAPE 2 May

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot wdow/f.s	FOCUS BIN THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2601	HD 210839	5.2	α 22, 09, 48.5	H	LWR	29467	-.11	L	O	00:39:02	2:05	3	0	2	C = 130	Ellery
UK 410	13		δ +59, 10, 02		10499	49	.08								b = 34	
			R 257, 12, 21.5		1+1	OV/F	16.2								MN= 612	MM
2602	HD 210839 13	06If 5.2	α , ,	H	SWP 13863 1+2	23470 93 OV/F	-.11 .08 11.2	L	O	00:43:41	10:30	6	0	0	c = 240 b = 19 MN=	Ellery M
2603	BD +40° 4220 12	07 9.2	α 20, 30, 34.8 δ +41, 08, 04 R 282, 11, 45.2	L	LWR 10500 1+3	928 1 OV/F	-1.0 .08 16.2	L	O	00:38:47	260:0	0 7	0	5	b = 69 MN= 0	M
2605	HD 147933 20	B2IV 4.6	α 16h, 22, 34.8 δ -23, 19, 58 R , ,	L	LWR 10501 1+5	482 20 UN/F	-.4 .08 16.9	L	O	00:32:38	0:06	7	0	2	MN= 587	Ellery W.W.
2604	"	"	α , , δ , , R , ,	L	SWP 13864 1+4	430 50 UN/F	-.4 .08 10.2	L	O	00:35:46	0:06	7	0	0	40 DN amplitude Micrph. (Roll) MN= wavelength	Ellery W.W.
2606	HD 179406 21	B3V 5.4	α 19, 09, 57.9 δ -8, 01, 29 R 283, 13, 12	H	SWP 13865 1+6	19583 62 OV/F	-.65 .08 10.5	L	O	07:41:03	14:00	6	0	1	b=24 MN=	Ellery W.W.
2607	"	"	α , , δ , , R , ,	H	LWR 10502 1+7	19759 64 OV/F	-.42 .08 16.2	L	O	7:40:50	5:30	5	0	2	MN= 421	Ellery WW
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG — DATE 3 May 81 — RAW TAPE 3 May

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
(F521	Jupiter 03	-1.9	α 12, 05, 48 δ 1, 02, 22 R 49, 48, 34	L	SWP 13871 1+1	N/A	-1.2 .08 8.8	L	0	01/44/10	8:09	8	5	0	JIII @ +379X +1066Y 760(0,1) as Stack MN=	FRICKE WW
	Star Sakura 03	+0.9	α 12, 16, 48 δ +1, 01, 39 R 79, 02, 40	L	SWP 13872 1+2	N/A	-.5 .08 8.9	L	0	03/34/55	30:00	8	3	1	MN=	FRICKE WW.
	geo corona 03		α 15, 44, 30.4 δ -19, 34, 02 R 258, 08, 27	L	SWP 13873 1+3	147 61 U/F	-1.4 .08 10.0	L	0	7/21/22	26:00	2	3	1	MN=	FRICKE WW.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										JIII at 379X 1044Y after image @ 01:49:10 MN=	Lyα = 150 b = 20 do.
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE 4 May 81 — RAW TAPE 4 May

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2608 UK 414	NGC 4151 84	Sey I 12.4	α 12, 08, 004 δ +39, 41, 02 R 41, 02, 08	L	SWP 13880 1+1	184 18 OV/S	-.54 .54 8.5	L	0	00/48/52	25:0	2	5	0	CIV = 142 MN=	Clavel W.W.
2609	"	"	α , , δ " , " , " R , ,	L	LWR 10511 1+2	184.6 "	-.57 .08 13.2	L	0	01/16/59	30/0	3	4	3	MgII = 186 MN= 360	Clavel W.W.
2610	"	"	α , , δ " , " , " R , ,	L	SWP 13881 1+3	189.8 14 OV/S	-.66 .08 8.5	L	0	01/51/29	~~35/0~~ 40:00	2	6	1	CIV 189 Lyα = 241 MN=	Clavel WW.
2611	"	"	α , , δ " , " , " R , ,	L	LWR 10512 1+4	181.3 19 OV/S	-1.2 .08 13.5	L	0	02/34/45	25/0	3	4	3	MgII = 160 MN= 592	Clavel W.W.
2612	"	"	α , , δ " , " , " R , ,	L	SWP 13882 1+5	180.0 19 OV/S	-1.7 .08 8.8	L	0	03/03/00	60/0	2	7	0	at end of exp. PNT 180.3 0.5 MN=	Clavel WW.
2613 UK 410	HD 50064 25	B.6Ia 8.2	α 6, 49, 00 δ +0, 21, 27 R 72, 20, 09	L	LWR 10513 1+6	167.8 7 OV/F	-1.5 .08 13.2	L	0	04/46/49	20/0	7	0	3	MN=	Ellery W.W.
2614	HD 92207 32	A.0I 5.5	α 10, 35, 32.3 δ -58, 28, 24 R 106, 01, 37	L	LWR 10514 1+7	167.9 56 OV/F	-2.2 .08 13.2	L	0	06/14/18	1/10	8	0	2	MN= 529	Ellery WW
2615	"	"	α , , δ " , " , R , ,	L	SWP 13883 1+8	167.9 54 OV/F	-2.2 .08 7.8	L	0	6/18/22	4/0	7	0	0	MN=	Ellery WW.

	OBJECT / TYPE / PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2616	HD92207 32	A0I 5.5	α 10 : 35 , 32.3 δ -58 28 : 27 R 106, 01 : 37	H	LWR 10515 1+9	17402 56 OV/F	-1.7 .08 13.5	L	O	6/29/27	25:0°	6	0	3	MN= 605	Ellery W.W.
2617	HD 92964 20	B 2.5	α 10, 40, 44.3 δ -58, 57, 12 R 107, 24, 44.4	H	SWP 13884 1+10	19207 88 OV/F		L /	O	07/29/25	20:0	6	0	0	MN=	Ellery W.W.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATION LOG — DATE 5 MAY 81 — RAW TAPE 5 MAY

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	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
MC583	NGC4762	Sϕ 11.5	α 12 , 50 , 25.2 δ 11 , 30 , 6 R 46 , 40 , 12.0	L	SWP 13892 1+2	149 50 05	-0.7 0.08 8.2	L	O	01:16:15	391:0	L	ϕ	3	MN= 6	CAPACCIOLI AC
"	background NGC4762	V	α " , " , " δ , , R , ,	L	LWR 10522 1+1	/	-0.7 0.08 15.2	L /	O	01:23:15	367:0	ϕ	ϕ	5	SERENDIPITY MN= ϕ	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 6 M MAY Y 81 RAW TAPE 6 MAY

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hhmm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK410	BD+2 3771	BØIII	α 19, 1, 39.3	L	LWR	677	-1.2	L	O	004014	14:0	7	Ø	1	C=140 λ<2600	L ELLERY
	23	9.2	δ 3, 1, 1.8		10531	3	0.5									
2618		0.93	R 289, 33, 58.5		1+1	OF	13.5								MN= 287	AC
			α , ,	L	SWP	667	-1.7	L	O	01:01:06	25:0	4	Ø	1		
			δ , ,		13902	3	.08	/								
2619			R , ,		1+2	OF	7.8								MN= Ø	
	HD151346	B7V	α 16, 44, 44.6	L	LWR	2288	-1.7	L	O	02:13:22	5:0	7	Ø	1		
	22	7.9	δ -23, 53, 09		10532	125/9	0.08									
2620			R 259,40, 35		1+3	OF	13.5	S	O	02:21:30	4:0	5	Ø		MN= Ø	
			α , ,	L	SWP	2266	-1.3	L	O	02:28:08	6:0	5	Ø	1	C=178, B=13	
			δ , ,		13903	7	0.08									
2621			R , ,		1+4	OF	8.2								MN= Ø	
	HD147933/A	B2IV-V	α 16, 22, 35	H	LWR	511	-0.9	L	O	03:09:34	5:0	8	Ø	2	good below 2600	
	20	4.6	δ -23, 19, 58		10533	95	.08									
2622		0.49	R 256, 22, 30		1+5	FU	13.8								MN= 572	
			α , ,	L	SWP	410	-0.26	L	O	03:38:14	0:3	5	Ø	2		
			δ , ,		13904	60	.08									
2623			R , ,		1+6	FU	9.8								MN= Ø	
			α , ,	L	LWR	475	+0.05	L	O	040432	0:5	7	Ø	2		
			δ , ,		10534	168/87	.08									
2624			R , ,		1+7	UF	13.8	S	O	040710	0:4				MN= 469	
	HD147889	B2V	α 16, 22, 22.8	L	SWP	2401	1.58	L	O	05:08:48	3:30	4	Ø	2	C=120 B=20	
	20	7.9	δ -24, 21, 07		13905	5	.08									
2625		1.12	R 253, 56, 57.7		1+8	OF	10.0								MN= Ø	

OBSERVATORY LOG

DATE D 6 M MAY Y 81 RAW TAPE 6 MAY

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hhmm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK410	HD147889	B2V	α 16, 22, 22.8	L	LWR	2444	+0.58	L	O	053406	10:0	5	O	1	C=220; B=30	ELLERY
	20	7.9	δ -24, 21, 07		10535	19/90	0.08									
2626		1.12	R 253, 56, 57.7		1+9	OF	14.2	S	O	052042	8:0	7	Ø		MN= 547	AC
	HD144470	B1V	α 16, 03, 53	H	SWP	776	0.77	L	O	06:12:21	4:0	5	Ø	1		
	20	4.1	δ -20, 32, 07		13906	91	.08	/								
2627		0.22	R 259, 33, 52		1+10	UF	11.5								MN= Ø	
	HD198478	B3Ia	α 20, 47, 14	H	SWP	164192	0.77	L	O	07:14:09	35:0	5	O	1		
	23	4.9	δ 45, 55, 40		13907	40	008									
2628		0.53	R 282, 13, 24		1+11	OF	11.8								MN= Ø	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG — DATE D 7 M MAY Y 81 — RAW TAPE D 7 M MAY

ESO / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
c 514	NGC 4572	SBa	α 12h, 37m, 4s.7	L	LWR	79	-0.4	L	O	01:03:50	180:00	5	6	5	2.1x subin Hg I	J. CLAVEL
74	74	13.	δ -5°, 4', 16"		10539	27	.10									A.H.
			R 68°, 11', 14".3		1+ 1	f.o.	13.2								MN=	
"	"	"	α , ,	L	SWP	79	-0.9	L	O	04:19:30	216:00	3	4	2		"
			δ , "		13915	22	.08	1								
			R , ,		1+ 2	f.o.	11.8								MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG — DATE D 8 M MAY Y 81 — RAW TAPE D 8 M MAY

ESO / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 414	NGC 4561	Sp	α 12h, 8m, 0s.4	L	LWR	176	-1.8	L	O	00:52:49	20:00	3	4	2	max 0 at 180 - Hg II	J. CLAVEL
2629	84	13.5	δ +39°, 41', 02"		10543	21	.08									A.H.
			R 43°, 44', 22".7		1+ 1	f.o.	14.5								MN= 518	
"	"	"	α , ,	L	SWP	174	-1.1	L	O	01:26:08	174:00	3	7	1	clear the end	
2630			δ , " ,		13921	17	.08	1							of exposure 182 not	"
			R , ,		1+ 2	f.o.	9.8								MN=	
UK 410	HD 92207	A0 I	α 10h, 35m, 32s.3	L	LWR	16615	-2.0	L	O	04:44:56	0:20	7	0	2		L. ELLERY
2631	32	5.5	δ -58°, 28', 21"		10544	105	.08									A.N
		0.50	R 101°, 52', 22".3		1+ 3	f.o.	14.2								MN= 437	
"	"	"	α , ,	L	SWP	16610	-2.0	L	O	04:47:49	1:00	6	0	1	≈ 20 fs out	
2632	"	"	δ , " ,		13922	73	.08									"
			R , ,		1+ 4	f.o.	10.2								MN=	
"	HD 92464	B2.5	α 10h, 40m, 44s.3	L	LWR	12000	-1.7	L	O	05:40:00	0:10	5	0	2		
2633	20	5.9	δ -58°, 57', 12"		10545	41/1440	.01	5	0	05:42:29	2:08	7	0			"
		0.40	R 103°, 14', 9".8		1+ 6	f.o.	14.2								MN= 462	
"	"	"	α , ,	L	SWP	17000	-1.2	L	O	05:47:30	0:12	4	0	0		
2634			δ , " ,		13923	77	.08									"
			R , ,		1+ 5	f.o.	4.3								MN=	
	HD 47129	O8p	α 06h, 14m, 42s.2	H	SWP	12441	-1.2	L	O	06:27:58	15:00	7	0	1		
2635	14	6.1	δ 06°, 10', 44"		13924	25	.08									"
			R 73°, 29', 57".3		1+ 7	f.o.	9.8								MN=	
"	HD 211934	B5 IV	α 22h, 17m, 56s.5	H	LWR	21005	-1.4	L	O	07:36:40	4:00	5	0	2		
2636	21	5.4	δ 5°, 32', 15"		10546	98	.08									"
		0.16	R 286°, 3', 54".1		1+ 8	f.o.	14.2								MN= 950	

OBSERVATORY LOG

DATE 9 MAY 81 RAW TAPE 9 MAY

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
AH 510	HD 51309	B3 V	α 6h 53m 54.3	L	LWR	494	-0.7	L	0	00:42:20	00:01.5	5	0	2		CUCCHIARO
	24	4.4	δ -16° 59' 16"		10551	67/172	.08	S	0	00:43:32	00:02	5	0			- HECK
			R 62° 5' 7.4		1+ 1	f.u.	13.0								MN=	A.H.
			α ' "	L	SWP	497	0.1	L	0	00:50:52	00:03	6	0	1	3 px sat.	
"	"	"	δ ' "		13936	76/150	0.8	S	0	00:56:36	00:05	5	0			"
			R ' "		1+ 2	f.u.	9.8								MN=	
			α ' "	H	LWR	532	-0.7	L	0	01:57:55	1:00	7	0	2		
"	"	"	δ ' "		10552	74	.08									"
			R ' "		1+ 3	f.u.	14.2								MN= 536	
			α ' "	H	SWP	540	-0.7	L	0	01:57:15	3:00	6	0	1	~15 px sat	
"	"	"	δ ' "		13937	58	.08									"
			R ' "		1+ 4	f.u.	9.8								MN=	
	HD 26644	A2 V	α 4h 55m 47.7	L	LWR	1344	-0.3	L	0	03:24:19	0:03	7	0	2		
"	21	2.2	δ 49° 19' 22"		10553	216/540	.08	S	0	03:30:43	0:04	5	0			"
			R 79° 28' 37.6		1+ 5	f.u.	14.2								MN=	
			α ' "	L	SWP	1342	-0.2	L	0	03:54:05	0:09	5	0	0		
"	"	"	δ ' "		13938	179/530	.08	S	0	03:57:26	0:14	5	0			"
			R ' "		1+ 6	f.u.	9.5								MN=	
			α ' "	H	LWR	1340	-0.3	L	0	04:39:47	2:00	6	0	2	~50 px sat.	
"	"	"	δ ' "		10554	193	.08									"
			R ' "		1+ 7	f.u.	14.5								MN= 581	
			α ' "	H	SWP	1333	-0.7	L	0	04:46:00	7:00	6	0	0	~15 px sat.	
"	"	"	δ ' "		13939	216	.08									"
			R ' "		1+ 8	f.u.	9.5								MN=	

OBSERVATORY LOG

DATE 9 MAY 81 RAW TAPE 9 MAY

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 C/S ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
AH 510	HD 120198	B3 Ve Cr	α 13h 44m 43.7	L	LWR	16800	-0.8	L	0	05:45:33	0:13	6	0	2		CUCCHIARO
	27	5.5	δ +54° 40' 55"		10555	57/1602	.08	S	0	05:49:12	0:20	5	0			- HECK
			R 19° 18' 57.9		1+ 10	f.u.	14.5								MN= 603	A.H.
			α ' "	L	SWP	16300	-0.8	L	0	05:53:20	0:30	5	0	1		
"	"	"	δ ' "		13940	61/895	.01	S	0	05:58:33	0:46	5	0			"
			R ' "		1+ 9	f.u.	9.5								MN=	
			α ' "	H	SWP	16100	-1.3	L	0	06:26:14	24:00	5	0	1		
"	"	"	δ ' "		13941	82	.08									"
			R ' "		1+ 11	f.u.	9.8								MN=	
			α ' "	H	LWR	16200	-1.4	L	0	06:54:05	16:00	6	0	3	~30 px sat.	
"	"	"	δ ' "		10556	51	.08									"
			R ' "		1+ 12	f.u.	14.2						1		MN= 482	
			α ' "	"	SWP	16000	-1.4	L	0	07:24:37	23:00	5	0	1		
"	"	"	δ ' "		13942	66	.08									"
			R ' "		1+ 13	f.u.	9.8								MN=	
			α ' "													
			δ ' "													
			R ' "		1+										MN=	
			α ' "													
			δ ' "													
			R ' "		1+										MN=	
			α ' "													
			δ ' "													
			R ' "		1+										MN=	

OBSERVATORY LOG — DATE 10 MAY 81 — RAW TAPE 10 MAY

ESA / UK UK NO. / PROPOSAL	OBJECT TYPE / PHASE	SP. TYPE m_v / B-V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
AH 510	HD 62832	A1V	α 7h, 43m, 31.7	L	LWR	10900	-1.9	L	O	00:32:03	0:09	5	0	2		CUCCHIARO
	30	5.3	δ +10°, 53', 29"		10559	24/1900	.08	S	O	00:36:24	0:14	5	0			— HECK
			R 75°, 30', 45.2		1+1	f.o.	13.5								MN= 482	A.H.
			α , ,	H	SWP	20800	-1.4	L	O	00:40:02	2:00	6	0	1	-4 px sat.	
"	"	"	δ , "		13948	70	.08	/								"
			R , ,		1+2	f.o.	9.5								MN=	
			α , ,	H	LWR	20900	-1.4	L	O	01:08:51	11:00	6	0	2	-4 px sat.	
"	"	"	δ , "		10560	55	.08									"
			R , ,		1+3	f.o.	13.8								MN= 467	
			α , ,	L	SWP	20800	-1.8	L	O	01:20:08	0:20	5	0	0		
"	"	"	δ , "		13949	86/1326	.08	S	O	01:22:02	0:14	5	0			"
			R , ,		1+4	f.o.	9.5								MN=	
	HD 76756	Am	α 8h, 55m, 45.2	L	LWR	469	-1.7	L	O	01:29:47	0:08	6	0	2	5.2a px sat.	
"	35	4.3	δ 12°, 3', 9"		10561	84/1200	.08	S	O	01:01:23	0:12	5	0			"
			R 73°, 22', 47.8		1+5	f.o.	13.8								MN= 501	
			α , ,	H	SWP	540	-1.7	L	O	01:05:58	2:00	6	0	0	4.30 px sat.	
"	"	"	δ , "		13950	73	.08									4
			R , ,		1+6	f.o.	9.2								MN=	
			α , ,	H	LWR	500	-1.7	L	O	01:38:11	9:00	6	0	2	4.11 px sat.	
"	"	"	δ , "		10562	69	.08									"
			R , ,		1+7	f.o.	13.8								MN= 472	
			α , ,	L	SWP	462	-1.7	L	O	04:06:02	0:25	5	0	0		
"	"	"	δ , "		13951	104/226	.08	S	O	04:12:52	0:38	5				"
			R , ,		1+8	f.o.	9.2								MN=	

OBSERVATORY LOG — DATE 10 MAY 81 — RAW TAPE 10 MAY

ESA / UK UK NO. / PROPOSAL	OBJECT TYPE / PHASE	SP. TYPE m_v / B-V	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA IMAGE NO. / RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
AH C10	HD 122640	F0 IV	α 19h, 22m, 58s	L	LWR	1106	-0.9	L	O	05:26:59	0:06	7	0	1		CUCCHIARO
	40	3.4	δ 3°, 0', 49"		10563	214/1400	.08	S	O	05:30:24	0:06	6	0			— HECK
			R 290°, 52', 17.8		1+9	f.u.	13.8								MN=	A.H.
			α , ,	L	SWP	1110	-0.9	L	O	05:32:59	0:25	5	0	0		
"	"	"	δ , "		13952	200/1324	.08	S	O	05:32:11	0:40	5	0			"
			R , ,		1+10	f.u.	8.8								MN=	
"	HD 147661	Hemeab	α 11h, 4m, 51.5	H	LWR	10019	-0.2	L	O	06:38:09	12:00	5	0	3		
	?	6.3	δ -24°, 19', 45"		10564	23	.08									"
			R 246°, 7', 51.2		1+11	f.o.	13.8								MN=	
			α , ,	H	SWP	1000	0.1	L	O	07:02:43	17:00	5	0	1		
h	"	"	δ , "		13953	41	.08									"
			R , ,		1+1	f.o.	8.8								MN=	
			α , ,	L	LWR	10407	1.0	L	O	07:31:22	11:00	5	0	2	1 px sat.	
"	"	"	δ , "		10565	23/680	.08	S	O	07:34:43	16:00	5	0			"
			R , ,		1+	f.o.	14.2								MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

SERVATORY LOG

DATE D 11 M MAY Y 81 RAW TAPE 11 MAY

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	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
JH505	HARKARIAN 7 88		α 7.22.19.5 δ 72.40.33 R 110.35.10.4	L	LWR 10572 1+	B/D	-0.9 .08 13.8	L	O	00:52:12	160:00				GDE (587, 1046 238 SO) MN=	J. HEIDMANN ec
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

SERVATORY LOG

DATE D 12 M MAY Y 81 RAW TAPE 12 MAY

ESA (UK) UK NO. / PROPOSAL	OBJECT / TYPE / PHASE	SP. TYPE / m_v / E(B-V)	RIGHT ASCENSION / DECLINAT. JN / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	FES CTS / ref. p. / slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 458 2637	HD 96548 "	WN8 7.9	α 11.04.18 δ -65.14.21 R 107.58.45.6	H	SWP 13960 1+1	3033 9 Fo	-0.6 .08 7.5	L	O	00:55:16	40:00	5	5	1	GDE (384, 200, 307 SO) MN=	G. BROMAGE ec.
UK 414 2638	NGC 4151 84	Seyfert 11.0	α 12.08.00 δ 39.41.00 R 46.22.50.5	L	LWR 10574 1+2	193 22 SO	-0.2 .08 12.8	L	O	02:34:37	25:00	3	4	2	GDE (830, 822, 443 Fo) MN= 419	"
2639	"	"	α , , δ " , R , ,	L	SWP 13961 1+3	185 19 SO	-0.08 .08 9.8	L	O	03:21:10	25:00	2	3	1	GDE (1032, 680, 496 Fo) MN=	"
2640	"	"	α , , δ " , R , ,	L	LWR 10575 1+4	194 21 SO	-0.3 .08 13.8	L	O	03:53:13	25:00	3	4	2	GDE (832, 821 427 Fo) MN= 501	"
2641	"	"	α , , δ " , R , ,	L	SWP 13962 1+5	191 20 SO	-0.8 .08 11.2	L	O	04:23:34	50:00	3	5	1	GDE (1032, 680 433 Fo) MN=	"
UK 458 2643	HD 96548 "	WN8 7.9	α 11.04.18 δ -65.14.21 R 107.44.54.5	H	SWP 13963 1+7	2984 12 Fo	-1.7 .08 11.2	L	O	06:47:25	40:00	5	5	1	GDE (386, 201, 228 SO) MN=	"
2642	"	"	α , , δ " , R , ,	H	LWR 10576 1+6	2951 11 FO	-2.2 .08 14.5	L	O	06:06:58	37:00	5	6	3	GDE (185, 344, 238 SO) MN= 409	"
2644	"	"	α , , δ " , R , ,	L	LWR 10577 1+8	3000	.04 .08 15.2	L	O	07:38:48	01:20	4	5	1	Trailed, rate 0.25" /sec MN= 426	"

SERVATORY LOG

DATE D 13 M MAY Y 81 RAW TAPE D 13 M MAY

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_y E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2645 UK 458	HD 168206 10	WC8 9.4	α 18, 16, 19.8 δ −11, 39, 16 R 286, 13, 23.1	L	SWP 13964 1+1	751 2 fast	−.5 0.08 9.2	L	O	01:16:42	10:00	3	3	ϕ	MN=	BROTHERS P.B.
2646 4	4	4	α , , δ , , R , ,	L	LWR 10593 1+2	758 10 fast	−.9 0.08 14.2	L	O	01:29:53	10:00	5	5	2	MN=	4 4
2647 4	4	4	α , , δ , , R , ,	L	SWP 13965 1+3	750 3 fast	−.9 0.09 10.8	L	O	01:58:53	25:00	5	5	1	MN=	4 4
2648 4	HD 214419 11	WN7+ 8.9	α 22, 34, 56.8 δ 56, 38, 46 R 264, 12, 54.8	H	SWP 13966 1+4	1130 5 fast	−1.4 0.08 11.5	L	O	03:08:26	105:00	3	4	2	MN=	4 4
2649 UK 459	HD 96548 11	WN8 7.9	α 11, 04, 18 δ −65, 14, 21 R 106, 36, 43.3	H	SWP 13967 1+5	3048 7	−1.2 0.08 9.8	L	O	07:26:45	24:00	4	5	1	MN=	4 4
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE D 14 M MAY Y 81 RAW TAPE D 14 M MAY

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_y E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 458 2650	HD 125924 2ϕ	B2 IV 9.2	α 14, 20, 2.7 δ −8, 1, 16 R 53, 23, 22.2	H	SWP 13969 1+1	563 2	−1.0 0.08 8.5	L	O	00:32:44	113:00	5	ϕ	1	MN=	BROTHERS P.B.
UK 459 2651	HD 96548 11	WN8 7.9	α 11, 04, 18 δ −65, 14, 21 R 105, 43, 47	H	SWP 13970 1+4	3331 4	1.3 0.08 12.2	L	O	03:19:56	40:00	5	5	1	MN=	4 4
UK 494 2652	HD 141891 4ϕ	F2 V 2.9	α 15, 50, 43 δ −63, 14, 42 R 103, 42, 56	H	LWR 10604 1+2	1727 332 f.u.	−.4 0.08 15.2	L	O	04:30:53	2:15	5	ϕ	2	MN=	BECKMAN P.B.
2653	HD 2151 44	G2 IV 2.8	α 0, 23, 9.4 δ −77, 32, 8.1 R 317, 26, 46	H	LWR 10605 1+3	1739 353 f.u.	−1.1 0.09 10.2	L	O	05:19:31	7:00	6	6	2 1	MN=	4 4
2654	HD 130248 44	G8 V 3.6	α 20, 3, 50.4 δ −66, 18, 30 R 253, 30, 32	H	LWR 10606 1+5	877 152 f.u.	−1.6 0.08 15.5	L	O	06:14:48	22:00	6	5	2	MN=	4 4
2655	HD 12311 40	F0V 2.9	α 1, 57, 11.7 δ −61, 48, 45 R 339, 41, 27	H	LWR 10607 1+6	1683 323 f.u.	0.08	L	O	07:12:30	4:00	5	5	2	MN=	4 4
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 15 MAY 81 RAW TAPE 15

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	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
UK 458 2656	HD 214419 11	WN7+O 8.9	α 22, 34, 56.8 δ 56, 38, 46 R 338, 44, 11.8	L	LWR 10617 1+1	1182 1	-.8 0.08 14.8	L	O	00:56:31	2:00	5	5	2	MN=	BROMAGE P.B.
2657	〃	〃	α , , δ , , R , ,	L	SWP 13971 1+2	1128 6	-.8 0.08 8.2	L	O	03:56:06	5:00	4	5	1	MN=	〃
2658	〃	〃	α , , δ , , R , ,	H	LWR 10618 1+3	1084 3	-.7 0.08 14.8	L	O	01:28:59	140:00	4	4	6	MN=	〃
2659	〃	〃	α , , δ , , R , ,	H	SWP 13972 1+4	853 /	-1.1 0.08 8.5	L	O	03:53:44	234:00	3	4	1	FES=864 at 0746 MN=	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 16 May 81 RAW TAPE 16 May

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	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
IC 5147	NGC 7591 84	Sey I 10.3	α 23h, 17, 05 δ -5, 4, 16 R 67, 53, 59	L	SWP 13974 1+1	80 OV/S	-.5 .08 75	L	O	00/14/11	287:00	3	3	2	a 20 CIII 130 MN= 0	CLAVEL W.W.
〃	〃	〃	α , , δ 4, 4, 4 R , ,	L	LWR 10622 1+2	83 0 OV/S	-17 .08 13.8	L /	O	05/07/11	160:00	3	4	4	B59 Mg II 180 MN= 199	Clavel W.W.
			α , , δ , , R , ,		1+										FES at end of exp LWR 83 OVS. MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/F.s	FOCUS ENC THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION hh:mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2659 UK414	NGC4151 84	12.4	α 12, 08, 00.4 δ 39, 41, 02 R 49, 26, 53	L	SWP 13982 1+1	180 80	-1.5 0.18 8.5	L	0	00:53:03	30:00	2	4	1	MN=	P.M.G. / P.M.G.
2660	"	"	α , , δ , , R , ,	L	LWR 10630 1+2	45 FO	-0.7 0.08 13.5	L	0	01:26:08	30:00	3	5	2	MN= 383	
2661			α , , δ , , R , ,	L	SWP 13983 1+3	190 80	-0.7 0.08 8.8	L	0	01:59:18	120:00	3	6	1	$(FES)_{av}$ = 183.3 MN= 1243	
2662 UK422	MKN 273 88	12.7	α 12, 29, 01 δ 58, 14, 20 R 43, 2, 28	L	LWR 10631 1+4	68 80	-0.7 0.08 13.5	L	0	04:31:21	196:00	3	0 1	3	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DESTINATION LOG DATE 18 May 81 RAW TAPE 18 May

ESA (UK) UK NO. PROPOSAL	OBJECT TYPE	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 ENC THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION hh:mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2663 UK412	BD +55°1317 53	g2V+ K5V 10.0	α 9, 6, 19 δ +54, 42, 6 R 84, 32, 39.9	L	LWR 10639 1+1	401 3 OV/F	-.8 .08 13.8	L	0	00/13/58	50:00	3	5	4	= XY UMa MN= 0	Budding / Gimenez W.W.
2664	BD +27°1706 53	g5+ M2 9.7	α 8, 58, 58 δ 26, 52, 40 R 76, 22, 26	L	LWR 10640 1+2	529 3 OV/F	-1.1 .08 14.2	L	0	01/40/21	32/00	4	5	3	= WY Cnc MN= 407	Budding / Gimenez W.W.
2665	UV Leo 53	g0V+ g2V 8.9	α 10, 35, 41 δ 14, 31, 42 R 67, 19, 58.6	L	LWR 10641 1+3	956 1 OV/F	-1.4 .08 14.2	L	0	03/39/15	20/0	7	0	3	MN= 283	Budding / Gimenez W.W.
2666	ER Vul 53	g0V+ g5V 7.3	α 21, 00, 16 δ 27, 36, 30 R 291, 25, 42.6	L	LWR 10642 1+4	3837 4 OV/F	-1.1 .08 14.2	L	0	04/10/24	4/00	6	0 1	3	MN= 343	Budding / Gimenez W.W.
2667	"	"	α , , δ 4, 4, 4 R , ,	H	LWR 10643 1+5	3837 17 OV/F	-1.0 .08 14.2	L	0	04/41/36	154/00	4	0	7	MN= 546	" " "
2668	"	"	α , , δ 4, 4, 4 R , ,	L	LWR 10644 1+6	3837 6 OV/F	-4 .08 14.5	L	0	07/41/58	4/00	6	0	2	MN= 0	" " "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 19 MAY 81 RAW TAPE 19 MAY

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hhmmss	DURATION mmss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2669 UKCAL			α δ R		LWP 1312 1+1										SAFETY READ MN=	PMG/PMG
2670			α δ R		LWP 1313 1+2										NULL MN=	
2671			α δ R		LWP 1314 1+3		-0.06 0.08 7.8			03:21:35	1:30				UV FLOOD MN=	
2672			α δ R		LWP 1315 1+4		1.06 0.08 7.0			03:57:15	6:30			1	" MN=	
2673			α δ R		LWP 1316 1+5		1.82 0.08 8.2			04:36:30	3:30				" MN=	
2674			α δ R		LWP 1317 1+6		2.07 0.08 8.8			05:13:31	5:00				" MN=	
2675			α δ R		LWP 1318 1+7		1.28 0.08 9.8			06:03:00	1:30				" MN=	
2676			α δ R		LWP 1319 1+7		1.17 0.08 11.2			06:42:42	2:00				" MN=	

OBSERVATORY LOG

DATE 19 MAY 81 RAW TAPE 19 MAY

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hhmmss	DURATION mmss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
~~2677~~			α δ R		~~LWR 1320~~ 1+						~~3:45~~				~~UV FLOOD~~ MN=	PMG/ "
2677 UK472	QQ172 85	17.5	α 14,42,50 δ 10,11,13 R 25,57,23	L	SWP 13996 1+8	80	-2.0 0.08 7.5	L	O	02:03:43	340:00		~~0~~ 2	~~2~~ 4	~~Possibly No Spot~~ V Weak Spect MN=	≈5DN
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 20 M MAY Y 81 RAW TAPE D 20 M MAY

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CNT ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CZ 502	HD196755	G5III	α 20, 36, 42	L	SWP	21427	-1.0	L	O	00:23:09	40:00	3	0	1	C=81, B=25	ORANJE
	44	5.05	δ 9, 54, 32		13999	53	.08									
			R 292, 59, 3.1		1+1	OF	8.2								MN= 0	A.C
	HD 352	K2III	α 0, 5, 38.4	L	LWR	9661	-1.0	L	O	01:41:45	10:0	6	0	1		
	47	6.07	δ -2, 43, 34		10659	28	0.08	/								
			R 295, 21, 32.3		1+2	OF	13.0	S	O	01:54:41	4:0	3	4		MgII 142 MN= 289	
			α , ,	L	SWP		-1.0	L	O	02:02:03	60:0	5	4	1	C=237	
			δ , ,		14000		.08								B=23	
			R , ,		1+3		8.2								MN= 0	
	HD280657	F8IV	α 23, 22, 52.8	L	SWP	406	-3.0	L	O	03:56:27	35:0	7	4	1	saturated λ>1860 SiII 226 DN; B=16 CII 86 OI 60; CII 91; SiIV 44	
	41	4.4	δ 23, 7, 43		14001	99	.08									
			R 280, 34, 22		1+4	OF	9.2	S		04:44:48	6:0	0	0		MN= 0	
	HD223552	F3V	α 23, 47, 52.8	L	SWP	7708	-0.7	L	O	05:36:02	28:0	8	0	1	saturated λ>1750	
	41	6.44	δ 31, 20, 38		14002	33	.08									
			R 258, 46, 17		1+5	OF	9.2								MN= 0	
			α , ,	L	SWP	7816	-1.4	L	O	07:29:35	17:0	6	5	1	SiIV 2510N D=30	
			δ , ,		14003	20	.08									
			R , ,		1+6	OF	9.5								MN= 0	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE 21 MAY 81 RAW TAPE 21 MAY

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CNT ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GV 555	GD.394	DA	α 21, 11, 3	L	SWP	103	-0.4	L	O	00:21:31	40:00	7	0	1		VAUCLAIR
	37	13.1	δ 49, 53, 42		14011	3	.08									
			R 290, 4, 16.3		1+1	OS	8.5								MN= 0	CASSATELLA
			α , ,	L	LWR	108	-0.4	L	O	01:04:49	26:0	6	0	1	saturated 2400-2880 C(λ<2400): 200	
			δ , ,		10664	4	.08	/								
			R , ,		1+2	OS	13.2								MN=	
			α , ,	L	SWP	106	-0.47	L	O	01:50:02	15:0	6	0	1		
			δ , ,		14012	3	.08									
			R , ,		1+3	OS	8.8								MN= 0	
			α , ,	L	LWR	100	-1.34	L	O	02:19:07	15:0	5	0	1		
			δ , ,		10665	3	.08									
			R , ,		1+4	OS	13.2								MN= yes	
	G 238-44	DA	α 13, 37, 37	L	SWP	118	-1.34	L	O	03:08:32	11:0	4	0	1		
	37	12.8	δ 70, 32, 24		14013	3	.08									
			R 30, 45, 56		1+5	OS	13.2								MN= 0	
			α , ,	L	LWR	124	-1.35	L	O	03:45:08	11:0	4	0	1	C=163	
			δ , ,		10666	4	.08								B=126	
			R , ,		1+6	OS	13.8								MN= 0	
	G 226-29	DA	α 16, 47, 38	L	SWP	172	-1.0	L	O	04:50:37	15:0	3	0	1	C=85 D=24	
	37	12.3	δ 59, 08, 42		14014	4	.08									
			R 346, 10, 11		1+7	OS	8.5								MN= 0	
			α , ,	L	LWR	170	-0.3	L	O	05:28:43	15:0	5	0	1		
			δ , ,		10667	5	.08			05:57:53	13:0					
			R , ,		1+8	OS	13.5				28:00				MN=	

OBSERVATORY LOG

DATE D 21 M MAY Y 81 RAW TAPE D 21 M MAY

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	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
GV.555	GD358 29	DB 13.65	α 16, 45, 25 δ 32, 33, 42 R , ,	L	SWP 14015 1+9	70 4 05	-1.7 .08 8S	L	O	06:35:53	34:0	5	0	1	C(λ<1500):213 C(λ>1500):160 MN= 0	VAUCLAIR CASSATELLA
"	"	"	α , , δ , , R , ,	L	LWR 10668 1+10	70 3 05	-1.7 .08 13.5	L	O	07:13:41	34:0	5	0	1	B=30 C=211 MN= 431	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 22 MAY 81 RAW TAPE 22 MAY

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	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
GV.555	G126-27 43	C2 13.2 0.17	α 21, 40, 22 δ 20, 46, 36 R 290, 1, 33	L	SWP 14021 1+	84 1 50	-1.0 .08 8.2	L	O	00:47:17	420:00	5	0	3	MN=	G. VAUCLAIR ec.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 23 M May Y 81 RAW TAPE D 23 M May #1

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2678 UKCAL	BD+75 325		α δ R		LWP 1324 1+1										NULL MN=	P.M.G/ P.M.G
2679	T FLOOD + BD 75 16 325	9.5	α 08.04.43 δ +75.06.48 R	L	LWP 1325 1+2	651 F/O	-1.96 0.08 7.2	0	0	00:36:09 00:38:32	0:46 0:10	5	0	9	T MN=	
2680			α δ R	L	LWP 1326 1+3		-1.4 0.08 7.8	0	0	01:13:51	0:10	4	0	2	MN=	
2681 UK414	NGC 419 84	13.1	α 12.08.00 δ 38 41.02 R 53.5.39	L	LWR 10680 1+4	197 S/O	-0.65 0.08 13.5	0	0	02:38:30	0:30	3	4	2	MN=	
2682			α δ R	L	SWP 14030 1+5	202 S/O	-3.1 0.08 8.5	0	0	03:11:55	0:30	2	4	1	MN=	
2683			α δ R	L	LWR 10681 1+6	189 S/O	0.08 14.2	0	0	03:48:34	60:00	3	5	2	MN= 569	
2684			α δ R	L	SWP 14031 1+11	195 S/O	-1.3 0.08 7.8	0	0	04:48:24	120:00	3	6	1	Av FES = 195 MN=	
2685			α δ R		LWP 1327 1+7		-1.4 0.08 8.5			05:13:01	1:30				UV FLOOD MN=	

OBSERVATORY LOG

DATE 23 May 81 RAW TAPE 23 MAY #2

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2686			α δ R		LWP 1328 1+8										NULL MN=	P.M.G/ P.M.G
2686			α δ R		LWP 1329 1+9		-1.8 0.08 9.5	/		06:12:15	3:45				CALUV MN=	
2687			α δ R		LWP 1330 1+10		-1.08 0.08 9.5			06:54:27	2:30				MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG — DATE 24 MAY 81 — RAW TAPE 24 MAY

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LOSS	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JB601	2A0526-33 59	13.9 0.1	α 5,27,34.5 δ -32,51,24 R 24,14,4.9	L	SWP 14040 1+1	54 2 S/O	-1.3 .08 9.5	L	O	00:22:17	50:00	3	4	1	GDE(448,-147 219 FO) MN=	BONNET-BIDAUD ec.
"	"	"	α , , δ , , R , ,	L	LWR 10691 1+2	55 2 S/O	-1.6 .08 13.8	L	O	01:18:55	50:00	3	3	2	GDE(248,-13, 213 FO) MN= 490	"
"	1E 0643-16 59	13.2 0.1	α 6,43,3.5 δ -16,48,25 R 48,12,26.7	L	SWP 14041 1+3	68 5 S0	-1.0 .08 9.2	L	O	02:54:12	40:00	3	3	1	GDE(247,995 615 FO) MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 10692 1+4	63 7 S0	-0.9 .08 14.2	L	O	03:38:26	30:00	3	3	2	GDE(46,1133 560 FO) MN= 487	"
"	4U 1849-31 59	13.2 0.1	α 18,51,50.0 δ -31,13,40 R 264,58,18.6	L	SWP 14042 1+5	91 6 S0	-1.3 .08 9.2	L	O	05:11:33	40:00	4	5	1	GDE(960,720 1641 FO) Archived Twice MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 10693 1+7	89 8 S0	-0.7 .08 14.2	L	O	05:56:06	40:00	4	5	2	GDE(758,859 1591 FO) MN= 417	"
"	"	"	α , , δ , , R , ,	L	SWP 14043 1+8	"	-0.8 .08 9.2	L	O	06:41:38	65:00	4	5	1	GDE(960,720 1705) MN=	"
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE 25 MAY 81 — RAW TAPE 25 MAY

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LOSS	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JB601	2A0526-33 59	13.9 0.1	α 5,27,34.5 δ -32,51,24 R 23,6,9.7	L	SWP 14057 1+1	39 3 S/O	-.76 .08 6.8	L	O	00:44:33	60:00	3	4	1	MN=	BONNET-BIDA GB
"	1E 0643-16 59	Cataclysmic Variable 13.2 0.1	α 6,43,3.5 δ -16,48,25 R 47,13,10	L	SWP 14055 1+2	51 6 S/O	-1.6 .08 7.5	L	O	02:43:17	60:00	3	5	1	MN=	"
MU597	NGC4151 84	12.4	α 12,08,00.4 δ 39,41,02 R 54,19,16.5	L	SWP 14056 1+3	330 3 F.O.	-1.3 .08 7.5	L	O	04:41:42	30:00	0	0	0	MN=	ELVIUS "
"	"	"	α , , δ , , R , ,	L	1+	386 2 F.O.		L	O		30:00				MN=	
"	NGC4151 84	Seyfert 12.4	α 12,08,00.4 δ 39,41,02 R 54,19,16.5	L	LWR 10700 1+4	201 15 S.O.	-.56 .08 11.8	L	O	05:29:34	30:00	3	4	2	MN= 272	"
"	"	"	α , , δ , , R , ,	L	SWP 14057 1+5	203 19 S.O.	-.21 .08 7.5	L	O	06:03:41	50:00	3	5	1	MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 10704 1+6	193 17 S.O	-.12 .08 12.2	L	O	06:56:36	50:00	3	5	3	MN= 518	"
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

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

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OPSERVER / RESIDENT ASTRONOMER
2688 UK477	HD 23784 21	9.5	α 09,48,31 δ 55,57,38 R 82,40,24	L	LWR 10723 1+1	380 F/s	-0.31 0.08 11.8	L	O	01:27:27	2:00	S	O	1	MN=	PMG / PMG
2689	0957+56 N.D. 85	16.5	α 09,57,57 δ 56,08,18 R 80,52,54	L	LWR 10724 1+	BO	-0.92 0.08 11.0	L	O	02:53:50	~~100:00~~ + 715:00	S	8	7	H/O m Expose MN=	
			α δ R		1+										MN=	
			α δ R		1+									1	MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

Observatory Log 26-5-81

Shift repaid to GSFC — no support at VILSPA.

OBSERVATION LOG — DATE 28 MAY 81 — RAW TAPE 28 MAY

ESA / UK UK NO: PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v B(O-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG TKDA	APERTURE	AP. CNTR.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
AE 556	NGC 7469 84	Seyfert 13.4	α 23,00,44.6 δ 8,36,16 R 290,1,34.4	L	LWR 10732 1+	79 5 S.O.	-1.3 .08 12.2	L	O	01:04:27	60:00	4	5	2	Image archived on raw tape 29 MAY 81, file 1+4 MN=	A. ELVIUS
"	"	"	α , , δ " , " , " R , ,	L	SWP 14094 1+	87 7 S.O.	-1.2 .08 6.5	L	O	02:08:34	100:00	3	5	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 10733 1+	78 6 S.O.	-1.0 .08 12.2	L	O	03:55:22	90:00	4	6	4	MN=	"
"	"	"	α , , δ " , 0 , " R , ,	L	SWP 14095 1+3	81 4 S.O.	-3.9 .08 7.2	L	O	05:28:32	139:00	3	5	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE 29 MAY 81 — RAW TAPE 29 MAY

ESA / UK NO. / PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GP613	NGC 6946 80	Spiral G. 11.1 0.82	α 20 , 33 , 48.8 δ 59 , 58 , 50 R303 , 23 , 43.1	L	LWR 10739 1+1	49 10 S.O.	-6.5 .08 12.2	L	O	00:56:16	120:00	1	0	3	MN=	G. PALUMBO - G. CAVALLO / LB
"	"	"	α , , δ , , R , ,	L	SWP 14107 1+2	B-0	-1.1 .08 6.8	L	O	03:03:28	49:00	1	0	1	MN=	"
"	NGC 5236 80	Spir. G. 8.2 0.72	α 13 , 34 , 17 δ -29 , 36 , 48 R 92 , 8 , 42.2	L	LWR 10740 1+3	126 19 F.O.	-21 .08 12.5	L	O	04:44:40	183:00	7	0	5	MN=	"
			α , , δ , , R , ,		LWR 10738 1+4										Image of 28 MAY 81, archived on raw tape MAY 29, 81 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE 30 MAY 81 — RAW TAPE 30 MAY

ESA / UK NO. / PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HU 597	NGC 4151 84	Seyfert 12.4	α 12 , 08 , 00.4 δ 39 , 41 , 02 R 57 , 7 , 14.3	L	SWP 14115 1+1	199 10 S0	-.7 .08 7.2	L	O	00:34:23	30:00	3	4	1	4DE (-422, -179 324 SO) MN=	A. ELVIUS ee.
"	"	"	α , , δ , , R , ,	L	LWR 10748 1+2	195 11 S0	-.4 .08 12.2	L	O	01:09:01	45:00	3	5	2	4DE (-618, -41 306 SO) MN=	"
"	"	"	α , , δ , , R , ,	L	SWP 14116 1+3	180 18 S0	-1.3 .08 7.5	L	O	01:57:38	120:00	3	6	1	4DE (-424, -181 304 SO) MN=	"
HR 503	NGC 5128 72	OB ~16	α 13 , 22 , 30.7 δ -42 , 44 , 35.4 R 104 , 8 , 53.3	L	LWR 10749 1+4	B0	-1.4 .08 12.2	L	O	04:49:27	178:00	4	0 1	4	4DE (969, -554 874 FO) SAO 224131 MN= 340	G. HOELLENHOFF ee.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE J 31 M MAY Y 81 RAW TAPE D 31 M MAY

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 405 2690	LDS 7498 29	14.5	α 21, 29, 42.07 δ 00, 01, 55.5 R 292, 30, 32.3	L	SWP 14.127 1 + 1	BO	-1.1 .08 7.8	L	O	01:16:48	383:00	5	0	2	GUIDE X=19 Y=404 cts=432 FO MN=	WICKRAMASINGHE P. P.
2691	LDS 7498 29	14.5	α 21, 29, 42.07 δ 00, 01, 55.5 R 292, 30, 32.3	L	LWR 10753 1 + 2	BO	-.15 .08 11.8	L	O	06:45:41	62:00	3	0	3	GUIDE X=-128 Y=541 cts=332 FO MN=	4
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	

OBSERVATORY LOG

DATE 1 SUN 81 RAW TAPE 1 SUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PS 597	V603 Aql 55	B.0 12	α 18, 46, 21 δ 00, 31, 35 R 306, 50, 20.9	H	LWR 10757 1 + 1	271 2 SO	-.8 .08 12.2	L	O	00:40:47	387:00	4	4	6	GUIDE X=250 Y=1233 cts=1192 FO MN=	SELVELLI P. P.
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	

OBSERVATORY LOG

DATE D 1 M JUN Y 81 -2 RAW TAPE D 1 M JUN -1

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 405 2692	G240-72 29	14.	α 17.48.50.9 δ 70.53.07 R 343.24.36.8	L	LWR 10759 1+1	BO	-.4 .42 12.8	L	O	22:41:24	180:00	3	0	4	GUIDE X=539 Y=243 cts=179 50 MN=493	WICRAMASINGHE P.P.
2693	BPM 18164 29	14.	α 6.15.32.3 δ -59.11.12 R 22.39.17.8	L	SWP 14156 1+2	BO	.04 .08 8.2	L	O	02:36:43	100.00	4	0	1	GUIDE X=74 Y=59 cts=7840FO MN=	"
2694	BPM 18164 29	14	α , , δ , , R , ,	L	LWR 10760 1+3	BO	-.47 .08 13.5	L	O	04:21:45	85:00	5	0	2	GUIDE X=125 Y=199 cts=7077FO MN=516	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 2 M JUN Y 81 RAW TAPE D 2 M JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP. TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MR 503	NGC5128 72	15	α 13.22.30.7 δ -42.44.35.4 R 100.17 " 39.2	L	SWP 14164 1+1	BO	-1. .08 7.2	L	O	23:39:30	368:00	4	0	2	Guide X=1202 Y=-624 cts 812 FO MN=	HOLLENHOFF P.P.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE 3 JUN 81 — RAW TAPE 3 JUN

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 467 2695	NGC 7094 70	0 13.6 0.08	α 21,34,27.9 δ 12,33,49 R 296,7,28.4	L	SWP 14178 1+1	83 15 SO	-.9 .08 7.2	L	O	12:36:16	10:30	4	0	1	MN=	BARLOW PP
2696	4 4	0 4 4	α , , δ , , R , ,	L	LWR 10776 1+2	69 6 SO	-.9 .08 11.5	L	O	22:51:10	18:00	4	0	3	MN= 398	4
2697	NGC 6751 70	WC6 15.0 0.7	α 19,03,14.9 δ -6,4,10 R 29.38,2.6	L	SWP 14179 1+3	BO	-.6 .08 7.2	L	O	23:51:04	120:00	4	17	1	GUIDE X=609 Y=856 cts 432 SO MN=	4
2698	4 4 4	4 4 4	α , , δ , , R , ,	L	LWR 10775 1+4	BO	.2 .08 11.5	L	O	01:55:0	100:00	4	5	3	GUIDE X=410 Y=995 cts=437 SO MN=	4
2699	4 4	4 4 4	α , , δ , , R , ,	L	SWP 14180 1+5	BO	2.3 .08 17.5	L	O	03:37:03	20:00	3	4	1	GUIDE X=609 Y=856 cts=432 SO MN=	4
2700	HE 2-108 70	12.5 0.5	α 14,14,47.5 δ -51,56,50 R 120,55,6	L	SWP 14181 1+6	173 4 SO	1.2 .08 8.5	L	O	04:57:19	20:00	3	0	1	MN=	4
2701	4 4	0 12.5 0.5	α , , δ , , R , ,	L	LWR 10776 1+7	173 4 SO	1.2 .08 12.5	L	O	05:20:12	27:00	4	0	3	MN=	4
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE 4 JUN 81 — RAW TAPE 4 JUN

(ESA) / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PS 57.6	V 603 Aql 55	sd O 12.	α 18,46,21 δ 00,31,35 R 310,47,25.4	L	LWR 10779 1+1	252 10 SO	.4 .08 11.8	L	O	23:03:05	13:00	4	5	2	MN=	SELVELLI P.P.
4 4	4 4 4	4 4 4	α , , δ , , R , ,	L	LWR 10780 1+2	269 4 SO	-.01 .08 12.2	L	O	23:42:29	13:00	5	5	3	MN= 175	4
4 4	4 4	4 4	α , , δ , , R , ,	L	LWR 10781 1+3	276 6 SO	-.9 .08 12.8	L	O	00:22:16	13:00	4	5	2	MN= 417	4
4 4	4 4	4 4	α , , δ , , R , ,	L	LWR 10782 1+4	268 2 SO	-.6 .08 13.5	L	O	01:06:11	18:00	5	5	3	MN= 197	4
4 4	4 4	4 4	α , , δ , , R , ,	L	LWR 10783 1+5	257 3 SO	-1. .08 13.8	L	O	01:45:38	13:00	5	5	3	MN=	4
MU 97	NGC 4151 84	12.5	α 12,08,00 δ 39,41,02 R 60,36,26	L	SWP 14189 1+6	200 2 S/O	-1.49 .08 10.8	L	O	02:57:23	30:00	2	4	1	MN=	Grandchalchy 11
	11 11	11 11	α , , δ , 11 , R , ,	L	LWR 10784 1+7	190 4 S/O	-2.27 0.08 14.2	L	O	03:37:50	30:00	3	4	2	MN= 493	
			α , , δ , , R , ,	L	SWP 14190 1+8	200 2 S/O	-2.27 0.08 9.5	L	O	04:11:36	46:00	5	6	1	MN=	

OBSERVATORY LOG

DATE 5 JUN 81 RAW TAPE 5 JUN

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 467 2702	LMC N97 70		α 5,5,4.57 δ -68,43,8.3 R 2,35,38.6	L	LWR 10791 1+1	BO	1.7 .08 13.8	L	O	03:42:52	150:00	2	0	5	GUIDE X=78 Y=446 ch=119 FO MN=	BARLOW PP
2703	4		α ,4, δ ,3, R ,4,	L	SWP 14199 1+2	BO	-2.1 .08 13.8	L	O	02:18:05	120:00	0	5	1	GUIDE X=279 Y=306 ch=123 FO MN=	4
2704	FD73 10	16	α 5,39,52.45 δ -68,45,40.6 R 10,25,5.8	L	LWR 10792 1+3	BO	-1.1 .08 15.9	L	O	04:48:14	60:00	3	3	3	GUIDE X=-550 Y=517 ch=223 FO MN=	4
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 6 JUN 81 RAW TAPE 6 JUN

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2705 UK409	HD 185859 23	6.5	α 19,38,17 δ 20,22,00 R 315,34,25	H	LWR 10800 1+1	7660 4 O/F	-0.57 08 13.5	L	O	23:04:39	25:00	6	0	2	MN=	Goudfaddy / "
2706	"	"	α ,, δ ,", R , ,	H	SWP 14207 1+2	2	-0.66 08 8.5	L	O	23:32:28	80:00	6	0	1	MN=	
2707	HD 185915 22	6.4	α 19,38,32 δ 23,36,00 R 316,56,47	H	LWR 10801 1+3	7285 4 O/F	-1.0 08 13.5	L	O	01:07:11	20:00	~~5~~ 5	~~0~~ 0	~~4~~ 2	MN= 557	
2708	"	"	α ,, δ ,", R , ,	H	SWP 14208 1+4	7224 2 O/F	-1.4 08 8.0	L	O	01:36:28	25:00	4	0	1	MN=	
~~2709~~	~~HD 50658~~	~~5.9~~	α ~~6,52,50~~ δ ~~46,20,00~~ R , ,	H	~~LWR 10802~~ 1+										MN=	
2709	HD 198183 22	4.5	α 20,45,28 δ 36,18,00 R 308,20,00	H	LWR 10802 1+5	22764 4 O/F	-0.73 08 13.5	L	O	02:28:54	1:30	~~4~~ 5	~~0~~ 0	~~1~~ 2	MN= 467	
2710	"	"	α ,, δ ,", R , ,	H	SWP 14209 1+6	22742 2 O/F	-0.39 08 8.5	L	O	02:56:46	2:00	5	0	1	MN=	
2711	HD217906 ~~19818~~ 49	2.6	α 23,01,21 δ 27,48,30 R 290,01,16	L	LWR 10802 1+7 3	5000 4 U/F	-0.04 08 13.2	L	O	04:04:36	0:45	2	3	1	MN=	

CORR. Id

OBSERVATORY LOG

DATE 6 JUN 81 RAW TAPE LO N 013

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2712	HD 217906 49	2.6	α 23,01,21 δ 27,48,30 R 290 01,16	L	SWP 14210 1+8	5000 2 U/F	-0.04 08 8.2	L	O	04:09:21	10:00	2	2	2	MN=	GONDHALEKAR II
2713	"	"	α , , δ , " , R , ,	H	LWR 10804 1+9	3460 4 U/F	-0.8 08 13.2	L	O	04:41:02	40:00	2	2	2	Mg II Sat. MN= 459	
2714	"	"	α , , δ , " , R , ,	L	SWP 14211 1+10	3100 2 U/F	-1.27 0.8 8.2	L	O	05:24:37	23:00	2	2	1	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 7 Jun 81 RAW TAPE 7 Jun

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2715 UK467	LMC N201 70	15	α 5h,25,39.4 δ -71,35,30 R 5,29,27	L	SWP 14216 1+1	B/O	-1.4 .08 7.2	L	O	22:35/51	150/0	3	3	1	CIV 100 HeII 120 B:26 MN= 0	Barlow W.W.
2716 "	LMC N203 70	15	α 5,25,48.4 δ -73,43,12 R 5,25,40	L	LWR 10808 1+2	B/O	-1.2 .08 12.5	L	O	1/32/19	120/0	2	2	3	MN= 137	Barlow W.W.
2717 "	LMC N 102 70	15	α 5h,08,15.3 δ -68,44,15 R 1,15,10	L	SWP 14217 1+3	B/O	-1.4 .08 8.8	L	O	3/56/39	111/0	1	1	1	MN= 0	Barlow W.W
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 8 JUN 81 RAW TAPE 8 JUN

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	IPES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FW. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HU597	NGC4151 84	12.5	α 12,08,00 δ 39,41,02 R 62,47,54.4	L	SWP 14222 1+1	193 15 SO	-0.9 .08 10.2	L	O	22:42:50	30:00	2	5	1	GDE (1209, 379 456 FO) MN=	M.H. ULRICH ee.
〃	〃	〃	α / / δ 〃 / / R / /	L	LWR 10813 1+2	191 17 SO	-1.3 .08 13.8	L	O	23:18:08	30:00	3	5	2	GDE (1008, 516 427 FO) MN=527	〃
〃	〃	〃	α / / δ 〃 / / R / /	L	SWP 14223 1+3	185 17 SO	-1.5 .08 10.2	L	O	23:56:22	120:00	3	7	1	GDE (1208, 375 421 FO) MN=	〃
〃	〃	〃	α / / δ 〃 / / R / /	L	LWR 10814 1+4	196 20 SO	-1.3 .08 13.8	L	O	02:00:40	48:00	4	5	3	GDE (1009, 516 452 FO) MN=463	〃
LH529	PKS 2155-304 87	13.1	α 21,55,58.3 δ -30,27,53.7 R 282,22,17.8	L	SWP 14224 1+5	96 10 SO	-2.0 .08 9.2	S	O	03:56:48	80:00	3	0	1	GDE (625, 1055 824 FO) MN=	C. CACCIARI ee.
〃	〃	〃	α / / δ 〃 / / R / /	L	LWR 10815 1+6	90 3 SO	-1.4 .08 13.8	L	O	05:19:17	28:00	4	0	2	GDE (275, 914 774 FO) MN=503	〃
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE 9 JUN 81 RAW TAPE 9 JUN

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	IPES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FW. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GG591	RY LUP 58	GØV 10.7	α 15,56,5 δ -40,13,36 R 239,1,15	L	LWR 10822 1+1	214 5 OF	-2.2 0.08 17.8	L	O	23:03:09	30:0	3	3	3	MgII: 90; B=21 (emission) C≈81 (λ>2800) MN=175	LISEAU CASSATELLA
〃	〃	〃	α / / δ 〃 / / R / /	L	SWP 14231 1+2	224 4 OF	0.45 0.08 9.5	L /	O	23:36:30	277:0	3	3	4	C=93; B=65 (λ>1800) CIV=86, B=47 CII(1335)=68 B=39 MN=0	〃
〃	〃	〃	α / / δ 〃 / / R / /	L	LWR 10823 1+3	233 2 OF	-1.2 0.08 15.9	L	O	04:16:49	90:0	4	4	3	MgII(em.) 132; C≈141 (λ>2800) B=35 MN=	〃
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE 10 JUN 81 RAW TAPE 10 JUN

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2718 UKCAL	BD+75 325 16	8do 9.7	α 8,4,43 δ 75,6,48 R 294,30,58	L	LWP 1331 1+1	700 4 U/F	0.96 0.08 7.2	L	0	23:26:42	0:20	5	0	3	MN=	CONDHALEKAR
2719	"	"	α , , δ , , R , ,	L	LWP 1332 1+2	"	1.0 0.08 8.2	L	0	23:49:55	0:30				MN=	
2720			α , , δ , , R , ,	L	LWP 1333 1+3		-0.6 0.08 8.5	L	0	00:23:12	0:40				MN=	
2721			α , , δ , , R , ,	L	LWP 1334 1+4		-1.3 0.08 8.8	L	0	00:51:34	0:10				MN=	
2722			α , , δ , , R , ,	L	LWP 1335 1+5		-1.7 0.08 9.2	L	0	01:19:44	0:05				MN=	
2723			α , , δ , , R , ,	L	LWP 1336 1+6		-1.6 0.08 9.2	L	0	01:50:55	0:20				MN=	
2724			α , , δ , , R , ,	L	LWP 1337 1+7		-1.8 0.08 9.2	L	0	02:22:16	0:10				+35s TFLOOD MN=	
2725			α , , δ , , R , ,	L	1338 LWP 1+8		-1.4 0.08 9.2	L	0	02:54:03	0:10				" MN=	

OBSERVATORY LOG

DATE 10 JUN 81 RAW TAPE 10 JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2726			α , , δ , , R , ,	L	LWP 1339 1+9		-1.6 0.08 9.2	L	0	03:23:17	:20				MN=	P.M.H.
2727			α , , δ , , R , ,	M	LWP 1340 1+10		-1.5 0.08 9.5	L	0	04:03:34	35:00				MN=	
2728	NGC4449 80	13.0	α 12,25,45 δ 44,23,23 R , ,	L	SWP 14235 1+11		-1.0 0.08 7.8	L	0	05:27:47	20:00	2	0	1	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 11 JUN 81 RAW TAPE 11 JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MU595	NGC 3516 84	Seyfert 13.0	α 11, 03, 22.8 δ +72, 50, 24 R 86, 22, 9.6	L	SWP 14241 1+1	119 10 05	-.81 0.08 7.2	L	O	23.00.04	280:0	4	5	2	NV 226 CIV: 195 B = 43 HeII: 141 CIII: 183 MN= 0	ULRICH A.C.
"	"	"	α / / δ / / R / /	L	LWR 10834 1+2	116 15 05	-1.3 0.08 12.5	L	O	03 44 33	122:0	5	5	2	MgII: 223 DN C = 171 B = 36 MN= 185	"
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	B 1
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE 12 JUN 81 RAW TAPE 12 JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MU595	NGC 3516 84	Seyfert 13	α 11, 03, 22.8 δ +72, 50, 24 R 87, 21, 15	L	SWP 14243 1+1	124 9 05	+1.7 .08 9.8	L	O	23.18.43	280:0	4	5	2	CIV 179 B=40 CIII 160 NV 102 HeII 127 MN= 0	ULRICH CASSATELLA
"	"	"	α / / δ / / R / /	L	LWR ~~10839~~ 10840 1+2	108 9 05 PP	-1.7 .08 13.2	L	O	04 02 04	105:0	4	5	2	MgII 217 B = 35 C = 138 MN= 197	"
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE D 13 M June Y 81 RAW TAPE D 13 M JUN

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2729 UK 475	N 3783 84	13.5	α 11, 36, 33 δ -37, 27, 41 R 72, 31, 41	L	LWR 10849 1+1	97 10 O.S.	-1.5 .08 11.5	L	O	22/57/29	75/0	3	6	4	Foc MN= 0	Barr W.W.
2730 UK 327	N 3783 84	"	α , , δ " , " , " R , ,	L	SWP 14252 1+2	97 6 OV.S.	-.4 .08 6.1	L	O	00/16/00	90/0	3	6	1	MN= 6	Barr W.W.
2731 "	N 5584 84	13.5	α 14, 15, 44 δ +25, 22, 00 R 47, 42, 02.3	L	LWR 10850 1+3	54 7 OV.S	-1.4 .08 11.5	L	O	02/33/07	60/0	2	4	3	MN= 523	Barr W.W
2732 "	"	"	α , , δ " , " , " R , ,	L	SWP 14253 1+4	50 4 OV.S	-1.4 .08 6.5	L	O	03/36/34	60/0	2	3	1	MN=	Barr W.W.
2733 "	H 2252-035 59	B? 13.2 1	α 22, 52, 43.1 δ -3, 26, 40 R 232, 59, 39.9	L	SWP 14254 1+5	70 OVS	-.7 .08 6.8	L	O	05/33/07	18/0	2	3	0	MN= 262	Barr W.W.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 14 JUNE 81 RAW TAPE 14 JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
Sc537	HD 85444 45	{8 III 4.16	α 9, 49, 04 δ -14, 36, 40 R 59, 51, 05	H	LWR 10859 1+1	522 106 UN.F	1.4 .08 12.5	L	O	22/37/03	30/0	5	5	3	MN= 426	BLANCO WW.
Sc537	"	"	α , , δ " , " , " R , ,	L	SWP 14261 1+2	513 82 U.F	-.7 .08 7.2	L	O	23/10/19	80/0	3	3	1	MN=	BLANCO W.W.
Sc537	HD 141714 45	{5 III 4.62	α 15, 47, 30 δ 26, 13, 13 R 29, 10, 49	H	LWR 10860 1+3	352 56 U.F	-1.9 .08 12.2	L	O	01/11/58	~~30/0~~ 33/10	5	5	3	real exp time 30 min. Star out of LWLA for 3 min 10 sec MN= 422	BLANCO W.W.
"	"	"	α , , δ " , " , " R , ,	L	SWP 14262 1+4	303 70 U.F	0.6 .08 7.2	L	O	02/17/13	73/0	3	3	1	still NO star to track on MN=	Blanco W.W.
Sc537	HD 162076 45	{5 III 5.69	α 17, 46, 16 δ 20, 34, 51 R 355 12, 10	H	LWR 10861 1+5	14128 47 OV.F	-.2 .08 11.8	L	O	04/04/21	40/0	3	3	2	MN=382	Blanco W.W.
"	"	"	α , , δ " , " , " R , ,	L	SWP 14263 1+	13672 51 OV.F	-.7 .08 7.2	L	O	04/48/38	59/0	2	1		MN=	BLANCO W.W.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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DATE 15 JUN 81 RAW TAPE 15 JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2754 UK 475	HZ HER	A 13.3	α 16h 15m 1.6 δ 35° 25' 5" R 10° 23' 12.3	L	SWP 14266 1 + 1	86 0 4.0	-0.6 .08 4.8	L	0	22:41:02	40:00	4	4	1	MN=	BARR A.H.
2735 "			α / / . δ . ' " R / /	H	SWP 14265 1 + 2	86 1 8.0	-1.8 .08 5.8	L !	0	23:55:44	352:00	2	3	2	Rising spikes Res (c-d) = 81 MN=	
			α / / . δ / / . R / /		1 +										MN=	
			α / / . δ / / . R / /		1 +									1	MN=	
			α / / . δ / / . R / /		1 +										MN=	
			α / / . δ / / . R / /		1 +										MN=	
			α / / . δ / / . R / /		1 +										MN=	
			α / / . δ / / . R / /		1 +										MN=	

OBSERVATORY LOG

DATE 16 JUN 81 RAW TAPE 16 JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DR 590	HD192909	K +A 3	α 20, 13, 55 δ 47, 33, 00 R 324, 11, 29	H	SWP 14267 1 + 1	662 164 UF	-0.9 0.08 5.8	L	0	22:42:31	60:0	5	5	3	[CII] 1 248DN MN= ϕ	HEMPE CASSATELLA
"	"	"	α / / . δ / / . R / /	H	LWR 10876 1+2	659 137 UF	-0.9 0.08 12.2	L !	0	23:46:08	25:0	4	6	3	MN= 255	
"	SY FOR 29	B WD 10.3	α 2, 51, 15 δ -37, 58, 18 R 319, 57, 28.7	L	SWP 14268 1+4	304 ϕ OF	-0.8 0.08 6.5	L	0	01:06:14 02:44:21 total →	30:0 180:0 210:0	2	ϕ	2	C = 56 (λ 1850) B = 43 MN= ϕ	
"	"	"	α / / . δ / / . R / /	L	LWR 10877 1+3	298 2 OF	-1.2 0.08 12.5	L	0	01:40:36	60:0	3	5 !	2	MgII 177DN B=33 MN= 416	
			α / / . δ / / . R / /		1 +										MN=	
			α / / . δ / / . R / /		1 +										MN=	
			α / / . δ / / . R / /		1 +										MN=	
			α / / . δ / / . R / /		1 +										MN=	

OBSERVATORY LOG — DATE 17 JUN 81 — RAW TAPE 17 JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2736 UK 481	HD 149757 14	09.5c 2.6	α 16h, 34m, 24.1 δ −10°, 28′, 3″ R 49°, 37′, 32″.6	H	SWP 14270 1+1	2694 311 f.u.	−0.6 7.5 0.6	L	0	22:39:48	01:23	5	0	1	MN=	P. BARR A.H.
2737 "	HD 138749 26	B5e. 4.2	α 15h, 30m, 5.43 δ 31°, 31′, 36″ R 54°, 7′, 19″.4	H	SWP 14271 1+2	613 86 f.u.	−0.3 .08 18.2	L	0	23:28:40	2:00	6	0	1	v. low cont. MN=	"
2738 "	HD 200120 26	B1e 4.7	α 20h, 58m, 7.4 δ 47°, 19′, 30″ R 316°, 3′, 57″.3	H	SWP 14272 1+3	26126 545 f.o.	−0.7 .08 10.2	L	0	00:12:43	1:10	5	0	1	MN=	"
2739 "	"	"	α ′ ″ δ ° ′ ″ R ′ ″	L	LWR 10889 1+5	26600 564 f.o.	−0.7 .08 18.5	L	0	00:16:48	0:01	5	0	2 1	MN= 458	"
2740 "	"	"	α ′ ″ δ ° ′ ″ R ′ ″	L	SWP 14273 1+4	26605 593 f.u.	−1.5 .08 10.5	L	0	00:47:07	0:01	5	0	1	MN=	"
2741 "	HD 5394 26	B2e 2.6	α 00h, 53m, 40.53 δ 60°, 26′, 47″ R 267°, 7′, 50″.8	H	SWP 14274 1+5	3760 809 f.u.	−2.1 .08 10.5	L	0	01:29:17	01:06	5	0	1	MN=	"
2742 UK 475	E30 141=G55 8.4	Sanford 13.2	α 19h, 16m, 53.0 δ −58°, 45′, 52″ R 215°, 8′, 26″.9	L	SWP 14275 1+7	66 3 f.o.	−0.5 .08 9.2	L	0	03:23:14	60:00	3	5	1	MN=	"
2743 "	"	"	α ′ ″ δ ° ′ ″ R ′ ″	L	LWR 10890 1+8	60 5 f.o.	−0.7 .08 18.0	L	0	04:27:05	75:00	4	6	3 5	5 1/2 hrs. MN=	"

OBSERVATORY LOG — DATE 18 JUN 81 — RAW TAPE 18 JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	BD+75° 325 16	sd O 9.54	α 8, 4, 43 δ +75, 6, 48 R 140, 37, 2.9	L	SWP 14276 1+1	653 — —	−.4 0.08 8.2	L S	0 0	22:31:05 22:34:36	00:14 00:42	5 5	0 0	0 0	MN=	Benvenuti P.B.
"	"	"	α ′ ″ δ ° ′ ″ R ′ ″	L	LWR 10859 1+2	650 — —	−.8 0.08 14.8	L S	0 0	22:38:05 22:43:21	00:24 01:12	5 5	0 0	1 1	MN=	"
"	Zeta Cas 20	B2 IV 3.68	α 0, 54, 10 δ 53, 37, 19 R 275, 30, 44	H	SWP 14277 1+3	1050 197 blank	−1.4 0.08 8.2	L	0	23:51:01	00:24	5	0	0	MN=	"
"	"	"	α ′ ″ δ ° ′ ″ R ′ ″	H	LWR 10900 1+4	1050 — —	−1.4 0.08 14.2	L	0	23:55:23	00:24	5	0 1	1	MN=	"
"	BD+28 4211 18?	Op.	α 21, 48, 56 δ 28, 37, 34 R 305, 25, 31	L	SWP 14278 1+5	264 — —	−1.2 0.08 8.2	L S	0 0	01:14:38 01:18:12	00:26 01:18	5 5	0 0	0	MN=	"
"	"	"	α ′ ″ δ ° ′ ″ R ′ ″	L	LWR 10901 1+6	262 — —	−.9 0.08 13.8	L S	0 0	01:24:15 01:29:08	01:00 03:00	5 5	0 0	1	MN=	"
"	"	"	α 4, 7, 11 δ ° ′ ″ R ′ ″	L	SWP 14279 1+7	4 — —	−0.8 0.08 8.2	L	0	02:21:41	01:18	5	0	0	TRAILED RATE = 0.256 ITER = 1 MN=	"
"	"	"	α ′ ″ δ ° ′ ″ R ′ ″	L	LWR 10902 1+8	4 — —	−0.8 0.08 13.8	L	0	02:31:06	03:30	5	0	1	TRAILED RATE = 0.035 ITER = 1 MN=	"

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DATE 18 JUN 81 RAW TAPE 18 JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASS	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	HD 60753 21	B3 IV 6.69	α 7, 32, 8.14 δ -50, 28, 29 R 24, 17, 27	L	SWP 14280 1+10	7388 14	-.9 0.08 8.2	L L S	O	04:06:00 04:09:34	00:10 00:30	5 5	0 0	0	MN=	Benvenuti / P.B.
4	4		α 4, , , δ , , , R , ,	L	LWR 10903 1+9	7338 -	-1.0 0.08 13.5	L S	O	04:13:16 04:16:58	00:07 00:21	5 5	0 0	1	MN=	P / 4
	RR Tel 63	10.5	α 20, 00, 20.1 δ -55, 52, 04 R 250, 17, 26.7	H	LWR 10904 1+10	225	-1.2 0.08 18.8	S L	O	04:50 BC 05:35:29	00:00 12:00	0 0	3 4	1	MN=	4 / 4
			α , , δ , , R , ,		1+								1		MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 17 JUN 81 RAW TAPE 17 JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASS	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 233 2744	NGC 4449 80		α 12, 25, 43 δ 44, 21, 53 R 67, 17, 55	L	SWP 14281 1+1	BO	-1.6 0.08 8.2	L	O	23:05:19 04:47:39	~~240:00~~ 170:00 55:00	5	0	2	OBC, Guide & recovery. MN=	Ellis / Candelaria
UK 233 2745	"		α , , δ , , R , ,	L	LWR 10907 1+2		-1.6 0.08 14.5	L	O	23:22:58 0448:40	149:0 60:00	3	0	5	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+								1		MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 20 M JUN Y 81 RAW TAPE D 20 M JUN - 2

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 BNG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CC 533	NGC 121 83	11.3	α 00, 24, 36 δ -71, 48, 54 R 284, 23, 30.7	L	LWR 10914 1+1	103 26 S/O	-.9 .08 13.5	L	O	23:09:20	398:00	3	0	9	GDE (1003, 232 286 50) MN=	F. FUSI-PECCI C. CACCIARI ee.
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 21 JUN 81 RAW TAPE 21 JUN

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 BNG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2746 UK433	N4449 80	13.5	α 12, 25, 449 δ 44, 23, 23 R 68, 38, 0.6	L	SWP 14299 1+1	80	-0.74 0.08 9.2	L	O	22:35:8	100:00	2	0	1	OPT ROLL +5° 16' MN=	ELLIS/ GONDHALEKAR
2747	11	11	α δ 11 R	L	LWR 10924 1+2		-0.38 0.08 13.2	L	O	20:25:42	23:00	2	0	2	MN= 245	
2748	11	11	α δ 11 R 74, 23, 48	L	SWP 14800 1+3		-0.8 0.08 9.2			01:02:46	275:00	5	0	2	OPT ROLL +5° 16' MN=	
2749			α δ R	L	LWR 10925 1+4		-0.38 0.08 13.5			01:25:29	262:00	2	0	7	MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 22 M JUN Y 81 RAW TAPE D 22 M JUN

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	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CC533	NGC121 83	11.2	α 00,24,36 δ -71,48,54 R 282,28,42.7	L	SWP 14304 1+1	112 30 SO	-1.0 .08 7.5	L	O	22:26:52	44:00	3	0	3	GDE (1200,132 288) MN=	C. CACCIARI ec.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 23 SUN 81 RAW TAPE 23 SUN

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	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PH CAL	HD 60753 21	B3 IV 6.7	α 7,32,8.14 δ -50,28,28.84 R 19,46,59.0	L	SWP 14310 1+1	17654 16 FO	-.9 .08 8.2	L S	O	22:26:45 22:29:07	00:10 00:30	5 7	0 0	1 1	MN=	PATRIARCHI P.P.
PH CAL	4 4	4 4	α 4 δ 4 R 4	L	LWR 10941 1+2	7700 34 FO	-.9 .08 13.2	L S	O	22:31:42 22:34:06	00:07 00:21	5 6	0 0	2 2	MN=	4 4
"	BD+28 4211 12	Op 10.5	α 21,48,56 δ 28,37,34.6 R 308,30,46.1	L	SWP 14311 1+3	266 1 FO	-1.4 .08 7.8	L S	O	00:22:04 00:24:51	00:26 01:18	3 7	0 0	1 1	MN=	4 4
"	4 4	4 4	α , , δ , , R , ,	L	LWR 10942 1+4	272 1 FO	-1.4 .08 13.2	L S	O	00:28:48 00:37:22	01:00 03:00	5 6	0 0	2 2	MN= 159	4 4
"	BD +75 325 16	sd O 9.54	α 8,04,43 δ 75,06,48 R 146,33,29	L	SWP 14312 1+5	646 1 FO	-.7 .08 7.8	L S	O	01:34:01 01:38:48	00:14 00:42	5 5	0 0	1 1	MN=	4 4
"	4 4	4 4	α 4 δ 4 R 4	L	LWR 10943 1+6	650 3 FO	-.7 .08 13.2	L S	O	01:41:09 01:44:49	00:24 01:12	5 7	0 0	2 2	MN= 501	4 4
SD 509	IC 131 72		α 1,30,22 δ 30,29,54 R 281,52,27.7	L	SWP 14313 1+7	BO	-1. .08 7.8	L	O	03:25:51	141:00	3	0	1	GUIDE X=265 Y=562 cts 150 SO MN=	D'ODORICO PP
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 24 M JUN Y 81 RAW TAPE D 24 M JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SD 509	NGC 592 72	15	α 1, 30, 22.8 δ 30, 23, 31 R 282.15, 32	L	SWP 14326 1+1	BO	-.6 .08 8.5	L	O	22:52:52	200:00	3	0	2	GUIDE X = 1395 Y = -376 ch 172 SO MN=	D'ODORICO P.P
〃 〃	IC 131 72	14.5	α 1, 30, 22 δ 30, 28, 54 R 282, 15, 52.2	L	LWR 10945 1+2	BO	-1.4 .08 12.5	L	O	01:21:09	206:00	4	0	4	GUIDE X = 71 Y = 699 ch 153 SO MN=	〃 〃
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 25 JUN 81 RAW TAPE 25 JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 466 2750	NGC 4151 84	12.3	α 12, 8, 0 δ 39, 41, 0 R 72.49, 48.1	L	SWP 14331 1+1	BO	-.3 .08 8.2	L	O	22:43:10	30:00	0	0	2	GUIDE X = 1274 Y = 233 ch 453 SO NO SPECTRUM MN=	BRIGGS PP
UK 466 2751	〃 〃	〃 〃	α 〃 δ 〃 R 〃	L	SWP 14332 1+2	807 4 SO	-1.2 .08 7.8	L	O	23:53:51	30:00	3	5	1	MN=	〃 〃
2752	TOL 0109-383 84	13.5	α 1, 9, 9.8 δ -38, 20, 56 R 296, 9, 82.9	L	SWP 14333 1+3	34 1 SO	-1.7 .08 7.5	L	O	01:58:41	225:00	2	3	2	MN=	〃 〃
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LCO

DATE D 26 M JUN Y 81 RAW TAPE D 26 M JUN

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	PES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CC 560	IC 2458 88	Markarian 15.2	α 9, 17, 26.4 δ +64, 26, 59 R 123, 33, 42	L	LWR 10955 1+1	b.o. ..	-1.1 0.08 4.5	L	O	23:07:11	383:0	3	0	9	4(-558,-232) CTS=363 (window) C=134 B=65 at 2800. MN=.181	CASINI A-C.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LCO DATE 27 JUN 81 RAW TAPE 27 JUN

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	PES CTS ref. p. slot window/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 466 2753	NGC 4151 84	Seyfert 12.	α 12, 8, 0 δ +39, 41, 0 R 74, 3, 33	L	SWP 14348 1+1	204 192(end) 11 05	0.3 0.08 7.8	L	O	22:36:38	30:0	3	5	1	4DE(1287, 141) 461 CTS C IV: 165; HeII 59 C III 138; B=19 C-57 (194) MN=.0	BRIGGS AC
2754	MRK 348 84	Seyfert 14.5	α 00, 46, 49 δ +31, 41, 04 R 287, 43, 38	L	SWP 14349 1+2	23 0 05	-1.7 0.08 8.5	L	O	0047:46	330:0	2	4	3	Lyα: 152; Si IV 95 C IV. 112; HeII 99 B=49 MN=0	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 28 JUN 81 RAM TAPE 28 JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CC 360	NGC 3994 88	Em.line gal.	α 11 , 55 , 2.4 δ 32 , 33 , 22 R 74 , 1 , 40.6	L	SWP 14354 1+1	56 5 0s	-1.1 B.08 8.2	L	O	225202	315:0				ϕDE(451,1331)cts = 89360F. B = 55 C = 107 λ1850:111 MN= ϕ	C. CASINI AC
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 29 JUN 81 RAM TAPE 29 JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK466 2755	NGC4151 84	Seyfert 12.5	α 12 , 08 , 00 δ 39 , 41 , 00 R 75 , 19 , 28.1	L	SWP 14359 1+1	198 28 S.O.	-1.1 .08 8.8	L	O	22:39:32	30:00	3	5	9	MN=	S. BRIGGS / LB
" 2756	"	"	α " , " , " δ " , " , " R , ,	L	LWR 10968 1+2	193 22 S.O.	-1.5 .08 12.2	L	O	23:18:31	30:00	3	5	2	cts = 196 s.o. at 24:06 MN= 382	"
" 2757	NGC1068 84	Seyfert 10.0	α 2 , 40 , 7 δ -0 , 13 , 31 R 296 , 51 , 22.7	L	LWR 10969 1+3	146 34 F.O.	-1.1 .08 12.8	L	O	01:08:33	40:00	4	5	3	MN= 229	"
" 2758	"	"	α , , δ " , " , " R , ,	L	SWP 14360 1+4	143 35 F.O.	-1.4 .08 7.8	L	O	01:56:31	90:00	4	6	1	MN=	"
" 2759	"	"	α , , δ " , " , " R , ,	L	LWR 10970 1+5	141 33 F.O.	-1.7 .08 13.2	L	O	03:32:49	120.0	5	7	4	MN= 243	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 30 M JUN Y 81 RAW TAPE D 30 M JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JH 505	HKN 8 88	Galaxy 14.2	α 7, 23, 38.2 δ 72, 13, 54 R 165, 58, 52.9	L	LWR 10976 1+1	b-0	-1.0 .08 13.5	L	O	22:54:18	160:00	3	0	4	MN= .	C. CASINI LB
BTAND.	HD170153 41	F7V 3.53	α 18, 21, 57.5 δ 72, 42, 42 R 3, 41, 37.0	L	LWR 10977 1+3	887 161/345 F.U.	-1.6 .08 14.2	L S	O O	02:21:21 02:30:14	0:8 0:9	7 6	0 0	2	MN= 160	L. BIANCHI LB
"	"	"	α , , δ " , " , " R , ,	L	SWP 14366 1+2	853 184/298 F.U.	-1.6 -1.2 .08 7.8	L S	O O	02:33:18 02:37:04	1:10 1:37	5 6	0 0	0	MN=	"
"	"	"	α , , δ " , " , " R , ,	H	SWP 14367 1+4	840 173 F.U.	-1.2 .08 8.6	L	O	03:17:07	46:00	6	0	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	H	LWR 10978 1+5	833 129 F.U.	-.9 .08 13.5	L	O	04:09:20	5:30	6	0	2	MN= 274	"
"	HD 103287 30	A0V 2.44	α 11, 51, 12.6 δ 53, 58, 22 R 84, 58, 15	L	LWR 10979 1+6	2604 370/460 F.U.	-.91 .08 13.0	L S	O O	05:03:12 0 05:06:14	0:1 0:0.5	5 4	0 0	2	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG DATE D 30 M JUN Y 81 RAW TAPE D 30 M JUN

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 431 2760	HD 88366 51 0.81	He 6v Ø	α 10, 7, 46.2 δ -61, 18, 14 R 46, 19, 52.2	L	LWR 10985 1+1	11540 35 F.O.	-1.1 .10 13.2	L	O	20:34:13	60:00	3	5	3	MN= 195	D. STICKLAND LB
" 2761	"	"	α , , δ " , " , " R , ,	L	SWP 14378 1+2	11493 42 F.O	-.83 .08 8.2	L	O	21:38:49	35:00	0	0	1	MN=	"
" 2762	"	"	α , , δ " , " , " R , ,	L	LWR 10986 1+3	11588 43 F.O.	-.56 .08 13.8	L	O	22:23:12	220:00	7	7	7	MN=	"
" 2763	HD 82901 51 .09	He 5v Ø	α 9, 30, 59.2 δ -62, 34, 01 R 88, 44, 15.1	L	LWR 10987 1+4	27605 100 F.O.	-.56 .08 14.2	L	O	02:49:42	80:00	4	5	3	MN= 421	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 2 M JUL Y 81 RAW TAPE D 2 M JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CE 551	S 106 72	— 16	α 20, 25, 32.9 δ 37, 12, 40 R 334, 27, 23	L	LWR 10996 1+1	—	-0.7 0.08 12.8	L	O	21:08:07	360:0	0	0	9	serendipity MN=	EIROA CASSATELLA
			α δ R	L	SWP 14386 1+2	—	-0.7 0.08 7.8	L	O	21:05:48	402:0	1	1	4	serendipity B=75, C=78 MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG DATE 5 JUL 81 RAW TAPE 5 JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 418 2764	NGC 4151 84	Seyfert 13.0 0.05	α 12, 8, 00.4 δ 39, 41, 02 R 77, 52, 15	L	SWP 14392 1+1	196 20 S.O.	-.99 .08 8.5	L	O	20:50:46	25:00	3	5	1	MN=	H. PENSTON / GB
" 2765	"	"	α " δ " R	L	LWR 11004 1+2	198 24 S.O.	-1.3 .08 13.2	L	O	21:23:13	25:00	2	5	3	200 cts (S.O.) at 21:51 GHT MN=	"
" 2767	NGC 3783 84	Seyfert 13.0	α 11, 36, 33 δ -37, 27, 41 R 60, 58, 31.8	H	LWR 11005 1+	91 8 S.O.	-.82 .08 13.8	L	O	22:42:40	—				exp. continued at GSFC. MN=	"
" 2768	serendipity	—	α δ R	L	SWP 14393 1+		-.38 .08 8.2	L	O	23:05:03	—				exp. continued at GSFC MN=	"
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 4 JUL 81 RAW TAPE 4 JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SGYFE	SAFETY READ		α ' ' δ ' ' R ' '		SWR 1167 1+1									7	SWR safety read during maneuver TFDC = 20.8 MN=	L. BIANCHI / LB
"	NGC5548 84	Seyfert 13.6	α 14, 15, 43,2 δ 25, 22, 00 R 60, 24, 50.6	L	SWP 14398 1+2	55 5 S.O.	-.34 .08 6.1	L	O	21:35:14	90:00	3	4	0	MN=	"
"	"	"	α ' ' δ " " " R ' '	L	LWR 11009 1+3	55 1 S.O.	-1.1 .08 11.5	L	O	23:09:52	75:00	3	5	3	MN=	"
"	ESO141-G55 84	Seyfert I 14.1	α 19, 16, 57 δ -58, 45, 52 R ' '	L	SWP 14399 1+4	59 4 S.O.	-1.2 .08 7.8	L	O	01:49:39	50:00	3	4	1	MN=	"
"	"	"	α ' ' δ " " " R ' '	L	LWR 11010 1+6	62 4 S.O.	-1.4 .08 12.2	L	O	02:44:15	63:00	4	5	3	MN= 452	"
			α ' ' δ ' ' R ' '		1+										MN=	
			α ' ' δ ' ' R ' '		1+										MN=	
			α ' ' δ ' ' R ' '		1+										MN=	

OBSERVATORY LOG

DATE 5 JUL 81 RAW TAPE 5 JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK418 2769	NGC 3783 84	Seyfert 13.	α 11, 36, 33 δ -37, 27, 41 R 59, 53, 32.9	H	LWR 11016 1+	97 10 S.O.	.62 .08 10.5	L	O	21:08:17					exposure continued at GSFC MN=	M. PENSTON / LB
" 2770	Serendipity		α ' ' δ " " " R ' '	L	SWP 14408 1+	-	1.1 .08 5.8	L	O	21:10:27					exp. continued at GSFC MN=	"
			α ' ' δ ' ' R ' '		1+										MN=	
			α ' ' δ ' ' R ' '		1+										MN=	
			α ' ' δ ' ' R ' '		1+										MN=	
			α ' ' δ ' ' R ' '		1+										MN=	
			α ' ' δ ' ' R ' '		1+										MN=	
			α ' ' δ ' ' R ' '		1+										MN=	

OBSERVATORY LOG

DATE 6 JUL 81 RAW TAPE 6 JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MU***	NGC4151	13.0	α 12,08,00 δ 39,41,02 R 79,53,30	L	SWP 14412 1+1	192 46:208 S/O	-1.01 0.12 7.2	L	O	20:36:28	60:00	3	6	1	FESLOCUR 192 MN=	PMG/11
"	"	"	α , , δ " , R , ,	L	LWR 11019 1+2	195 S/O	-1.3 0.08 12.2	L	O	21:35:32	30min				195 MN=	
KF 521	Uranus φ3	planet 5.8:	α 15,34,42 δ -19,02,14 R 76,13,14	L	SWP 14413 1+3	14798 1874 OF	-1.17 0.08 7.5	S L	O O	22:46:57 22:46:57	125:0 59:24	3 φ	3 4	1	BKG = 22 MN= φ	FRICKE AC
VILSP	NGC 3783 84	Seyfert	α 11,36,30 δ -37,28,00 R , ,	L	LWR 11020 1+4	95 11 OS	-0.92 0.08 11.8	L	O	01:51:08	25:0	3	4	2	C=114, E=137 B=29 MN= 193	"
"	"	"	α , , δ " , " R , ,	L	SWP 14414 1+5	"	-0.9 0.08 7.2	L	O	02:23:01	84:0	3	4	2	E=171, C=99 B=23 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG DATE 7 JUL 81 RAW TAPE 7 JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHIT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 436 2771	NEPTUNE 03	7.7	α 17,27,24.09 δ -21,52,6.2 R 83,31,55.8	L	SWP 14423 1+	2146 128 FO	-1.1 0.8 5.1	S	O	22:24:23					XSP at 15.55 Track Anomal SWSA READ AT GSFC MN=	MOORE PP
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 8 M JUL Y 81 RAW TAPE D 8 M JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MC 603	NEPTUNE 03	7.7	α 17 . 27.17.9 δ -21 , 52 , 03 R 83, 40, 17	L	SWP 14427 1+	2111 155 FO	-1.2 .08 6.8	S	O	21:53:18					GUIDE ON SUN A READ AT GSFC MN=	COMBES PP.
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+								1		MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	

OBSERVATORY LOG

DATE D 9 M JUL Y 81 RAW TAPE D 9 M JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 436 2772	JUPITER 03	planet -1.5	α 12 , 11 , 40 δ 0 , 6 , 57 R 66 , 55 , 12	H	LWR 11040 1+1	/	-0.9 0.08 12.5	S	C	21:02:30					READ AT GSFC MN=	MOORE AC
2773	SKY BACK	/	α " ' " / " δ ' ' / ' R ' "	L	SWP 14435 1+1	/	-1.4 0.08 9.5	S	C	21:47:50	200:0	0	3	2	E(Lyα): 84 DN B=27 MN= 0	
2774	SKY BACK	/	α " ' " / " δ ' ' / ' R ' "	L	SWP 14436 1+2	/	-1.5 .08 9.5	S	C	02:20:46	85:0	0	3	2	Lyα 430N Bk < 18 MN= 0	
			α ' " δ ' " R ' "		1+								1		MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	

OBSERVATORY LOG

DATE D 10 M JUL Y 81 RAW TAPE D 10 M JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MC 603	JUPITER 03	PLANET -2·5	α 12, 12, 13·7 δ 0, 2, 52·3 R 66, 55, 57·9	H	SWP 14445 1+1	—	— 0·08 8·5	S	C	23:17:16	440:00 and handed to NASA to collect				Portion of Ganymede at 12:17 July 11. Tracking on Callisto Occasional use in pitch. MN=	COMBES / PERRYMAN
			α , , δ , , R , ,		1+			/							Shift supported + exposure slotted by NASA due to ZA image rejected at GSFC.	Nash.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK491 2775	MCG-2-58-22 84	13·8	α 23, 2, 7·2 δ -8, 57, 19 R , ,	L	SWP 14451 1+1	B/O.	-1·0 0·08 7·8	L	O	21:11:44	60:00	3	4	1	B/O using star at α = 23, 2, 8.5 δ = -8, 50, 38 MN=	Mc Mahon / Perryman
2776	"	"	α , , δ , , R , ,	L	LWR 11051 1+2	"	-0·7 0·08 12·5	L	O	22:16:44	45:00	3	0	3	(Field at 2·5 hlt) " MN= 569	"
2777	"	"	α , , δ , , R , ,	L	SWP 14452 1+3	"	-0·5 0·08 7·8	L	O	23:16:58	60:00	3	4	1	B/O using star α = 23, 2, 32.2 δ = -8, 59, 17 MN=	"
2778	NGC 7552 84	12·5	α 23, 13, 25 δ -42, 51, 27 R 265, 28, 0·2	L	SWP 14453 1+4		-1·2 0·08 8·2	L	O	01:13:37	153:00	3	0	2	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 12 JULY 81 RAW TAPE 12 JUL

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 EMG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HN568N	NGC4278 81	GAL 10.2	α 12,17,36 δ 29,33,36 R 77,52,36.2	L	LWR 11055 1+1	208 34 s/o	-1.3 0.08 11.8	L	O	20:46:09	421:00	2	0	9	MN=	NORGAARD-NIELSEN/ PERRYMAN
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+								1		MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG DATE 13 JUL 81 RAW TAPE 13 JUL

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 EMG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HN568N	NGC4278 81	GAL 10.2	α 12,17,36 δ 29,33,36 R 78,26,22.3	L	SWP 14467 1+1	130 38 (1,0)	-0.9 0.08 7.2	L	O	21:01:41	406:00	2	3	4	MN=	NIELSEN/ PERRYMAN
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+								1		MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 14 M JUL Y 81 RAW TAPE D 14 M JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 427	QSO 1217+023 85	QSO 16.5	α 12,17,38.4 δ 2,20,19.5 R 67,54,39.2	L	SWP 14476 1+	B-0	-1 - 7.5	L	O	21:33:46	246:00				exposure started at 21:33:46 but with object out of the aperture. MN=	GASKELL LB
			α δ R		1+		-1,1 .08 8.2	L	O	22:02:31	440:00	3	7	9	image read at GSFC. object re-acquired and exposure re-started MN=	
			α δ R		1+										MN=	
			α δ R		1+								1		MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG DATE 15 JUL 81 RAW TAPE 15 JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 427 2779	QSO 1217+023 85	QSO 16.5	α 12,17,38.4 δ 2,20,19.5 R 67,58,7.5	L	SWP 14484 1+1	B-0	-1.2 .10 6.5	L	O	20:54:09	240:0	3	4	2	MN=	M. GASKELL LB
"	QSO 0312-770 85	QSO 15.9	α 3,12,56.3 δ -77,1,00.9 R 297,21,13.7	L	SWP 14485 1+	0-0	-1.3 .08 7.5	L	O	02:12:34	400:26	3	3	6	exposure continued at GSFC. MN=	"
			α δ R		1+										MN=	
			α δ R		1+								1		MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 16 M 07 Y 81 RAW TAPE D 16 M JUL

ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHOT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 414 2780	NGC 4151 84	Seyfert 13.0 0.05	α 12, 8, 00.4 δ 39, 41, 02 R 87, 20, 25	L	SWP 14495 1+1	189 30 50	-1. .10 6.8	O	0	20 30 02	30:00	2	4	1	189 at 20:28 GMT MN= .	L. BIANCHI S. di Serego
" 2781	" "	Seyfert " "	α " " " δ " " " R " " "	L	LWR 11071 1+2	187 19 50	-1.3 .08 7.5	L	0	21 04 20	30:00	3	4	2	187 cts at 21:02 MN= 152	" "
" 2782	" "	" " "	α " " " δ " " " R " " "	L	SWP 14496 1+3	182 35 50	-1.3 .08 7.2	L	0	21 39 47	00:00	3	6	1	182 cts at 21:37 MN=	" "
" 2787	" "	" " "	α " " " δ " " " R " " "	L	LWR 11072 1+4	184 24 50	-1.4 .08 11.8	L	0	23 30 12	30:00	3	4	1	184 cts at 23:27 184 cts at 00:01 MN= Y=591	"
PH CAL 2784	BD+33 2642 20	B2 III (0.8)	α 15, 50, 01.9 δ 33, 05, 28 R 54, 10, 24	L	SWP 14497 1+5	182 3/12 F0	-1.3 .08 7.5	L	0	00 50 38	4:00	5	0	1	MN=	"
" 2785	" "	" "	α " " " δ " " " R " " "	L	LWR 11073 1+6	181 14 F0	-1.4 .08 12.2	S	0	01 16 48	5:30	6	0	2	MN= Y325	"
" 2786	BD+28 4211	SdO 10.53	α 21, 48, 58 δ 28, 37, 35 R 325, 16, 58	L	SWP 14498 1+7	267 3 F0	-1.1 .08 7.2	L	0	02 28 53	01:26	5	0	0	MN=	"
" 2787	" "	" "	α " " " δ " " " R " " "	L	LWR 11074 1+9	260 11 F0	-0.7 .08 12.5	L	0	02 36 44	1:00	6	0	2	MN=	"

OBSERVATORY LOG DATE 16 JUL 81 RAW TAPE 16 JUL

ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHOT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PH CAL 2788	BD+28 4211 16	SdO .10	α 21, 48, 56 δ 28, 37, 35 R 325, 16, 58	L	SWP 14499 1+8	266 1 F0	-1.6 .08 7.5	L	0	03 12 15	1:18	5	0	0	Trail: 20k-0,256 iterations: 1 MN= .	L. BIANCHI S. di Serego
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 17 M JUL Y 81 RAW TAPE D 17 M JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 426 2789	950 1146-037 85	950 16.9	α 11, 46, 22.43 δ -3, 47, 29.2 R 64, 7, 22.7	L	LWR 11083 1+1	B-0	-.84 .08 12.8	L	O	21:19:58	240:00	2	3	6	MN=	M. GASKELL LB
" 2790	"	"	α , , δ , , R , ,	L	LWR 11084 1+	"	-1.4 .08 13.8	L	O	01:42:25		3	3	7	exposure finished at 5 SPC MN= 199	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG DATE D 18 M JUL Y 81 RAW TAPE D 18 M JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JP 851	HD 184915 23	B 0.5 III 4.96	α 19, 34, 12 δ -7, 8, 0 R 15, 25, 32.6	H	SWP 14512 1+1	25177 95 F.O	-.47 .08 7.8	L	O	20:25:24	2:10	5	0	1	from reference point -5, -211 MN=	C. LAURENT LB
"	"	"	α , , δ " , " , " R , ,	H	LWR 11088 1+3	27149 97 F.O.	.46 .08 11.8	L	O	21:05:31	2:00	5	0	2	reference point -5, -211 MN=	"
"	"	"	α , , δ " , " , " R , ,	H	SWP 14513 1+2	27000 88 F.O.	.35 .08 8.8	L	O	21:10:43	3:00	5	0	1	ref. point -27, -205 MN=	"
"	HD 163472 29	B2 IV 5.84	α 17, 53, 48 δ 0, 41, 0 R 51, 4, 17.9	H	SWP 14514 1+4	14733 40 F.O.	-.57 .08 10.2	L	O	21:58:11	20:00	8	0	1	MN= 3	"
"	"	"	α , , δ " , " , " R , ,	H	LWR 11089 1+5	16700 29 F.O.	.57 .08 12.5	L	O	22:25:12	10:00	7	0	2	MN= 261	"
"	"	"	α , , δ " , " , " R , ,	H	SWP 14515 1+13	14840 30 F.O.	.14 .08 12.2	L	O	22:59:19	12:00	5	0	1	2 pxl. sat. MN=	"
"	HD 184915 23	B0.5 III 4.96	α 19, 34, 12 δ -7, 8, 0 R 15, 57, 57.9	H	SWP 14516 1+6	26900 100 F.O.	.42 .08 13.8	L	O	00:07:09	3:00	5	0	1	ref. point -5, -211 MN=	"
"	"	"	α , , δ , , R , ,	H	LWR 11090 1+7	27000 92 F.O.	.7 .08 14.2	L	O	00:13:22	2:20	5	6	2	ref. point -27, -205 MN= 169	"

OBSERVATORY LOG

DATE D 17 M JUL Y 81 RAW TAPE D 17 M JUL 18

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JPS81	HD164432 20	B2 IV 6.37	α 17, 58, 24 δ 6, 16, 0 R 264, 22, 41.0	H	SWP 14517 1+8	10500 20 F.O	+1.3 .08 14,15	L	O	00:52:50	10:00	5	0	1	MN=	C. GAURENT LB
"	"	"	α , , δ " , " , " R , ,	H	LWR 11091 1+9	10200 8 F.O.	1.0 .08 15,2	L	O	01:27:48	10:00	6	0	3	MN=	"
"	HD161056 20	B1.5V 6.32 0.64	α 12, 41, 06 δ -7, 3, 0 R , ,	H	SWP 14518 1+10	9700 33 F.O.	.07 .08 15,5	L	O	02:11:49	25:00	4	0	1	MN=	"
"	"	"	α , , δ " , " , " R62, 47, 7.2	H	LWR 11092 1+11	9700 24 F.O.	-.24 .08 15,9	L	O	02:41:31	35:00	4	0	2	MN=	"
"	"	"	α , , δ " , " , " R , ,	H	SWP 14519 1+12	9660 16 F.O.	-.9 .08 15.5	L	O	03:19:41	30:00	4	0	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG DATE 18 JUL 81 RAW TAPE 19 JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 42'6 2791	~~1146~~ 037 85	9.50 16.9	α 11, 46, 22.4 δ -3, 47, 21.2 R 61, 55, 9.5	L	LWR 11098 1+/	B.D.	-8 0.08 14.2	L	O	21:28:00	650:00				Read at GSFC MN=	GASKELL P.B.
			α , , δ , , R , ,		1+			/							MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 20 M JUL Y 81 RAW TAPE D 20 M JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FB 582	NGC 4125 81	– 10.7.	α 12 , 5 , 35 δ 65, 27, 18 R 107, 15, 55.4	L	SWP 14531 1 + 1	191 49 ov/nos	–.5 0.08 7.5	L	O	20:53:51	413:00	2	0	3	MN=	REGILAS P.B.
			α , , δ , , R , ,		1 +			/							MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG DATE 21 JUL 81 RAW TAPE 21 JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2752 UK 426	1103-006 85	950 16.5	α 11 , 03 , 58.3 δ +0 , 36 , 39.5 R 61 , 51 , 20.4	L	LWR 11111 1 + 1	B.O.	–1.2 0.08 12.8	L	O	20:46:00					Image read at GSFC MN=	GASKELL P.B.
			α , , δ , , R , ,		1 +			/							MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 22 M JUL Y 81 RAW TAPE D 22 M JUL

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	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
2793 UK422	CALUV		α , , δ , , R , ,	L	SWP 14541 1+1	-2	-2.2 0.08 6.5	L	O	20:13:15	1:00				UV FLOOD MN=	GONDHALE KWR
2794	1337-31 88	12.5	α 13, 37, 050 δ -31, 28, 21 R 68, 57, 10	L	SWP 14542 1+	175 -16,-208 S10	-0.2 0.08 6.5	L	O	22:02:03	347:00	7	9	3	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG DATE 23 JUL 81 RAW TAPE 23 JUL

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	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
2795 UK422	1401+12 88	15.	α 14, 00, 57 δ 11, 23, 37 R 70, 42, 52	L	SWP 14545 1+1	80	-0.74	L	O	20:47:39	420:00	22	3		v Faint Spect. MN=	GONDHALEKAR
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 24 M Jul Y 81 RAW TAPE D 24 M Jul

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JK559	IC 2003 12.4	Pl.Neb 12.4	α 3 , 53 , 12 δ 33 , 43 , 00 R 27½ 18 , 41	H	SWP 14551 1+1	196 7 S.O.	-1·4 ·08 6·1	L	0	21/12/26	200/00	1	6	1	HeII 1 pixel @ 255. MN=.0	Köppen .W.W.
BB544	HD 4539 16m.	sdB 10·3	α 0 , 44 , 54 δ 9 , 42 , 22 R 294 , 27 , 08	H	LWR 11138 1+2	273 2 F.O.	-1·2 ·08 10·8	L	0	01/03/43	160/0	6	0	5	MN=32	Köppen W.W.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE 25 JUL 81 RAW TAPE 25 JUL

ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2796 UK 480	HD 193576 11	WN5+06 ~8.3	α 20 , 17 , 42 δ +38 , 34 , 00 R 00 , 11 , 27.3	H	SWP 14553 1+3	2287 6 Fo	-·7 ·08 7.2	L	0	20:45:21	90:00	3	3	1	MN=	A.WILLIS ee.
2797	HD 190918 11	WN4+09I 7.48	α 20 , 04 , 05 δ +35 , 39 , 00 R 4 , 13 , 16.3	H	SWP 14554 1+4	6461 434 Fo	-·5 ·08 7.8	L	0	22:57:24	10:00	3	3	1	MN=	4
2798	HD 197406 11	WN 7 10.5	α 20 , 39 , 54 δ +52 , 25 , 00 R 354 , 48 , 49.1	L	SWP 14555 1+5	254 1 Fo	-.6 ·08 7.8	L	0	23:41:09	25:00	3	3	1	MN=	4
2799	HD 177230 11	WN8 11.5	α 19 , 01 , 20 δ -4 , 23 , 31 R 49 , 37 , 23.8	L	SWP 14556 1+6	139 40 004 Fo	-1·2 ·08 7.5	L	0	00:47:47	40:00	2	3	1	MN=	4
2800	HD 168 206 11	WC8+O 9.4	α 18 , 16 , 20 δ -11 , 39 , 00 R 71 , 05 , 56.6	L	SWP 14557 1+7	772 4 Fo	-·06 ·08 8.8	L	0	02:06:55	20:00	4	5	1	MN=	11
2801	NGC 3783 84	Sey I ~13	α 11 , 36 , 33 δ -37 , 27 , 41 R 48 , 07 , 50.7	L	SWP 14558 1+8	107 38 S/O	-1·1 ·08 9.2	L	0	03:23:49	24:00	2	3	1	MN=	11
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 26 M 10L Y 81 RAW TAPE D 26 M 10L

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 wndow/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
Jk 559	FEIGE 66 16	SD OB 10.5	α 12, 34, 54 δ +25, 21, R 82, 00, 33.7	H	LWR 11154 1+1	271 1 FO	-1.2 .08 11.8	L	O	21:07:14	160:00	7	0	6	GDE (63, -222, 166 50) MN= 2h5	DR. J. KÖPPEN ee.
"	"	"	α , , δ , , R , ,	H	SWP 14567 1+2	260 2 FO	-.3 .08 6.8	L	O	23:53:26	30:00	5	0	1	GDE (259, -367, 184 50) MN=	"
"	FEIGE 86 16	SD B 10.0	α 13, 36, 06 δ 29, 37, 00 R 78, 10, 46.6	H	LWR 11155 1+3	370 2 FO	-.9 .08 12.2	L	O	01:44:47	121:00	4	0	4	GDE (45, -101 143 50) MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE 27 10L 81 RAW TAPE 27 10L

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v S(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot wndow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2802 UK 465	HK CHISL 84	~12	α 12, 08, 00 δ 39, 40, 52 R 96, 33, 54	L	SWP 14573 1+1	198 16 50	-1.3 .08 6.1	L	O	21:08:45	30:00	2	4	1	GDE (475, -145 166 50) MN=	DR. T. Snijders ee.
2803	HK 348 84	Sey 2 14.5	α 00, 46, 04.9 δ 31, 41, 04 R 299, 50, 38	L	LWR 11163 1+2	B/O	.2 .08 10.5	L	O	23:01:23	286:00	3	3	7	GDE (-696, -88 110 50) MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 28 M JUL Y 81 RAW TAPE D 28 M JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
15557	4273-13 43	DC 14.0	α 23,16,56.5 δ -17,21,54 R 278,58,02.4	L	LWR 11175 1+2	B/0	-1.0 .08 10.8	L	O	21:12:58	80:00	3	0	3	GDE(878,293 235 Fo) First archive load MN= 344	Dr. I. BUES cc.
U	BPM 14403 43	DC 14.4	α 22,16,16.4 δ -65,44,32.9 R 213,14,43.4	L	LWR 11176 1+4	B/0	-.3 .08 11.2	L	O	00:58:36	169:00	1	0	5	GDE(-158,905 113 So) MN=	U
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 29 JUL 81 RAW TAPE 29 JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2804 UK 465	NGC 4151 84	Sey 1.5 12	α 12,08,00 δ 39,40,52 R 98,25,41.6	L	LWR 11185 1+1	196 18 Fo	1.3 .08 11.8	L	O	20:42:29	120:00	4	6	4	GDE(1073,-235 368 Fo) MN= 249	Dr. T. SNIJDERS cc.
2805	NGC 1068 84	Sey 2 ~10	α 02,40,7.1 δ 00,13,31 R 288,42,41.8	L	LWR 11186 1+2	145 27 Fo	-.6 .08 12.2	L	O	00:11:45	80:00	3	4	2	From RP (-27,-205) GDE (-421,-54 138 Fo) MN= 502	U
2806	U	U	α U δ R	L	SWP 14589 1+3	146 18 Fo	1.0 .08 6.1	L	O	00:44:47	183:00	4	7	?	From RP (-27,-205) GDE (-224,-196 160 Fo) MN=	U
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 30 M JUL Y 81 RAW TAPE D 30 M JUL

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	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GK570	AE AQR 54	11.5	α 20,37,34 δ -01,03,00 R 00,25,26.4	L	LWR 11193 1+1	126 2 FO	-1.8 .08 9.8	L	O	02:04:05	15:00	4	7	2	GDE(196,-1281 344 SO) MN= 360	O. STAHL PP.
"	"	"	α / δ / R	L	SWP 14598 1+2	393 1 SO	-1.2 .08 6.1	L	O	02:23:06	30:00	2	3	1	GDE(398,-1426 438 SO) MN=	"
"	"	"	α / δ / R	L	LWR 11194 1+3	351 3 SO	-.6 .08 10.2	L	O	02:58:28	10:00	3	5	1	GDE(195,-1285 456 SO) MN= 532	"
"	"	"	α / δ / R	L	SWP 14599 1+4	95 3 FO	1.0 .08 5.8	L	O	03:30:10	17:00	2	3	1	GDE(395,-1429 434 SO) MN=	"
			α / δ / R		1+										MN=	
			α / δ / R		1+										MN=	
			α / δ / R		1+										MN=	
			α / δ / R		1+										MN=	

OBSERVATORY LOG

DATE 31 JUL 81 RAW TAPE 31 JUL

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	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GK 570	AE Aqr 54	Var 11.5	α 20,37,34 δ -1,3.0 R 3,39,1.6	L	LWR 11202 1+1	290 2 SO	-1.8 .08 12.2	L	O	21:56:39	10:00	3	6	2	MN=	STAHL P.P
"	"	"	α / δ / R	L	SWP 14609 1+2	321 4 SO	-.7 .08 9.5	L	O	22:10:13	30:00	3	3	1	MN=	"
"	"	"	α / δ / R	L	LWR 11203 1+3	334 1 SO	-.2 .08 12.8	L	O	22:44:12	10:00	3	6	3	TWO MICROPHONICS MN=498,267	"
"	"	"	α / δ / R	L	SWP 14610 1+4	98 0 FO	.8 .08 11.5	L	O	23:14:00	30:00	3	5	0	MN=	"
"	"	"	α / δ / R	L	LWR 11204 1+5	162 0 FO	1.4 .08 13.8	L	O	23:51:19	10:00	5	7	2	MN= 475	"
STAN 1	HD 4142 21	B5V 5.68	α 0,41,39 δ 47,35,25 R 304,30,11.4	L	LWR 11205 1+6	1743 70 FO	2.2 .08 14.5	L O S	O	01:16:51 01:21:26	00:05 00:06	5 4	0 0	2 2	MN=	PATRIARCHI PP
"	"	"	α / δ / R	L	SWP 14611 1+7	1709S 59 FO	2.2 .08 14.5	L O S	O	01:25:19 01:29:03	00:07 00:10	6 4	0 0	0 0	MN=	"
"	"	"	α / δ / R	H	LWR 11206 1+8	17214 56 FO	.5 .08 15.2	L	O	02:21:30	04:50	5	0	2	MN=	"

OBSERVATORY LOG

DATE D 31 M JUL Y 81 RAW TAPE D 31 M JUL

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
STAN1	HD4142 21	B5 II 5.68	α 0, 41, 39 δ 47, 35, 25 R 306, 30, 11.4	H	SWP 14612 1 + 9	17003 40 FD	.5 .08 14.2	L	O	02:89:54	05:30	5	0	1	MN=	PATRIARCHI PP
			α / / δ / / R / /		1 +			/							MN=	
			α / / δ / / R / /		1 +										MN=	
			α / / δ / / R / /		1 +									1	MN=	
			α / / δ / / R / /		1 +										MN=	
			α / / δ / / R / /		1 +										MN=	
			α / / δ / / R / /		1 +										MN=	
			α / / δ / / R / /		1 +										MN=	

OBSERVATORY LOG

DATE D 1 M AUG Y 81 RAW TAPE D 1 M AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 438 2807	HD215835 12	06 8.6	α 22, 44, 54.3 δ 57, 48, 14 R 331, 15, 19.4	L	SWP 14619 1 + 1	1219 8 FO	-1.3 .40 8.8	L	O	18:40:22	03:34	5	0	1	MN=	SKILLEN PP
2808	4 1	1 4	α / 4 / δ / 3 / R / 4 /	L	LWR 11209 1 + 2	1132 46 FO	-1.3 .08 13.2	L	O	19:25:26	01:16	5	0	2	MN=	4 4
2809	4 4	4 4	α / 4 / δ / 4 / R / 4 /	H	SWP 14620 1 + 3	1206 6 FO	-1.3 .08 8.5	L	O	20:06:28	25:00	5	0	3	MN=	4 4
2810	4 4	4 4	α / 4 / δ / 4 / R / 4 /	H	LWR 11210 1 + 4	1269 50 FO	-.8 .08 12.5	L	O	00:20:07	85:00	4	0	3	MN=	4 4
			α / / δ / / R / /		1 +										MN=	
			α / / δ / / R / /		1 +										MN=	
			α / / δ / / R / /		1 +										MN=	
			α / / δ / / R / /		1 +										MN=	

OBSERVATORY LOG

DATE D 2 M AUG Y 81 RAW TAPE D 2 M AUG

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 438 2811	HD 19820 12	09 7.0	α 3,10,7.4 δ 59,22,39 R274,54,137	L	SWP 14630 1+1	4293 6 FO.	-2. 1.04 8.2	L	O	18:32:10	04:46	7	0	1	MN=	SKILLEN PP
2812			α , , δ , , R , ,	L	LWR 11219 1+2	4200 9 FO	-1.9 .08 13.2	L	O	19:06:18	00:24	4	0	2	MN= 180	
2813			α , , δ , , R , ,	L	SWP 14631 1+3	4210 10 FO	-1.5 .4 8.2	L	O	19:27:07	02:23	5	0	1	MN=	
2814			α , , δ , , R , ,	H	SWP 14632 1+4	4210 12 FO	-1.4 .08 8.5	L	O	19:58:34	160:00	5	0 1	2	MN=	
2815			α , , δ , , R , ,	H	LWR 11220 1+5	4150 8 FO	-1.2 .08 13.2	L	O	22:42:37	30:00	4	0	3	MN=	
2816			α , , δ , , R , ,	L	LWR 11221 1+6	4145 10 FO	-1.2 .08 13.8	L	O	23:44:07	02:10	7	0	2	GOOD IN THE PART OF SHORT) MN=	
2817	HD 215835 12	06 8.6	α 22,44,54.3 δ 57,49,14 R332,18,18.5	L	LWR 11222 1+7	1160 2 FO	-.9 .08 14.2	L	O	00:37:25	03:15	7	0	2	GOOD IN THE PART OF SHORT) MN=	
2818			α , , δ , , R , ,	L	SWP 14633 1+8	1212 5 FO	.08 9.2	L	O	01:08:50	03:34	5	0	1	MN=	

DATE D 2 M AUG Y 81 RAW TAPE D 2 M AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 438 2819	HD 215835 12	06 8.6	α 22,44,54.3 δ 57,49,14 R332,18,18.5	L	LWR 11223 1+9	1228 47 FO	.08 14.2	L	O	01:39:55	01:16	5	0	2	MN= 494	SKILLEN PP
			α , , δ , , R , ,		1+			/							MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 3 M AUG Y 81 RAW TAPE D 3 M AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	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
DPSS2	AG CAR 23	B0Ia 6.5	α 10, 54, 11 δ -60, 11, 10.8 R 29, 2, 53.1	L	SWP 14639 1+1	9708 72/ OF	-1.2 0.08 8.8	L S	O O	18:52:44 19:01:05	4:0 4:0	5 4	5 4	1 1	C=213 (λ>1800) E=229 ; B=28 C+E=156 MN= ϕ	D. PONZ A. CASSATELLA
"	"	"	α / / δ " " " R / /	H	LWR 11229 1+2	9499 54 OF	-0.8 0.08 14.2	L	O	19:09:39	30:0	5	5	1	E=249 (HgII) MN= 225	"
"	AG DRA 57	Symb.	α 16, 1, 23 δ 66, 56, 26 R 67, 43, 0.1	L	SWP 14640 1+3	846 3/30 OS	-0.86 0.08 8.8	L S	O O	20:33:11 20:51:00	15:0 5:0	5 3	7 5	1	C=244 (λ>1800) B=17 C=53 HeII:237; CIV:89 SiIV: 66 NV:83 MN= ϕ	"
"	"	"	α / / δ " " " R / /	H	LWR 11230 1+4	626 0 OS	-1.2 0.08 14.2	L	O	21:02:06	30:0	2	5	1	HgII 182/73 B=28 MN= 447	"
"	"	"	α / / δ " " " R / /	H	SWP 14641 1+5	628 2 OS	-1.2 0.08 7.8	L	O	21:35:56	50:0	2	6	1	HeII 31 pix not CIV 202/150 MN= ϕ	"
"	"	"	α / / δ " " " R / /	L	LWR 11231 1+6	630 2 OS	-0.9 0.08 14.2	L	O	22:32:12	5:0	5	6	1	MN= ✓	"
AA 545	NOVA VUL 63	Nova 8.9	α 20, 19, 1.1 δ 21, 24, 43 R 13, 5, 39.3	L	LWR 11232 1+7	1104 0 OF	-1.1 0.08 14.2	L	O	23:30:35	30:0	5	5	1	GUIDE (857, 165) 217 of C=210 B=29 MN=	"
"	HBV 475 57	Symb	α 20, 49, 3.0 δ +35, 23, 37 R 1, 32, 57.3	L	SWP 14642 1+8	80 0 OS	-0.9 0.08	L	O	00:29:02	50:0	2	4	1	NV:55; CIV:133 HeII 155 ; OIII 41 NIII 51 ; SiIV 57 ; B=17 CIII:133 MN= ϕ	"

OBSERVATORY LOG DATE D 3 M AUG Y 81 RAW TAPE D 3 M AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	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
AA 545 "	HBV 475 57	Symb	α 20, 49, 3.0 δ +35, 23, 37 R 1, 32, 57.3	L	LWR 11233 1+9	80 0 OS	-0.9 0.08 14.2	L	O	01:23:50	23:0	7	3	1	GDE (-41, -386) CIII 3132 :66) MgII :113 λ 2794.72 ; B=30 MN=	D. PONZ A. CASSATELLA
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE 4 Aug 81 RAW TAPE 4 Aug

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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2820 UK 431	HD 82901 51	Me 7	α 9, 30, 59 δ -62, 34, 1 R 8, 12, 32	L	LWR 11243 1+1	13108 57 F.O.	-.9 .3 12.8	L	O	18/40/18	60/0	C	8	4	4 min HTR WARM up MN= 678	Strickland W.W.
2821 "	"	"	α , , δ , , R , ,	L	SWP 14653 1+3	12682 50 F.O.	-1.4 .08 8.5	L	O	19/47/02	71/0	1	0	1	5+36 +30min MN=	Strickland WW
2822	"	"	α , , δ , , R , ,	L	LWR 11244 1+2	13035 82	-1.7 .08 14.2	L	O	20/40/37	10/0	3	6	3	4 min HTR WARM up. Mg II 2 pixels left. MN= 0	"
2823	HD 88366 51	Ke 6.0	α 10, 07, 46 δ -61, 18, 14 R 16, 59, 24	L L	LWR 11245 1+4	18536 2000 35 O.F.	-1.7 .08 14.2	S L	O O	21/55/07 22/14/26	15/0 60/0	4 8	0 0	5 5	MN= 0	" "
2824	HD 31964 33	A8Ia 3.0	α 4, 58, 22 δ 43, 45, 5 R 261, 52, 52	L L	LWR 11246 1+5	1471 226 584 F.U	-1.4 .08 14.5	L S	O O	00/03/23 00/09/18	2/0 1/0	9 8	0 0	2 2	MN=	" "
2825	"	A8Ia 30	α , , δ , , R , ,	L	SWP 14654 1+6	1443 336 F.U	-1.2 .08 8.5	L S	O O	00/12/43 00/47/59	20/0 5/0	7 4	0 0	1 1	MN=	" "
2826	"	"	α , , δ , , R , ,	H	LWR 11247 1+7	1442 340 F.U.	-1.1 .08 14.5	L	O	00/58/21	15/0	7	0	2	MN= 0	"
2827	"	"	α , , δ , , R , ,	H	SWP 14655 1+8	1431 178 F.U.	-1.1 .08 8.8	L	O	01/26/34	2[illegible]/0	3	0	1	MN=	" "

OBSERVATORY LOG

DATE 5 Aug 81 RAW TAPE 5 Aug

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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
LB 304	HD 37022 104	O6ep 5.13 .32	α 5, 32, 48.9 δ -5, 25, 16.2 R 290, 0, 0	H	SWP 14665 1+1	B-O	-2.2 .10 9.2	L	O	19:12:21	1:30	5	0	1	~~TARGET~~ BKG=24 MN=	L. BIANCHI LB
"	HD 37021 20	B3 7.96 .44	α 5, 32, 48.6 δ -5, 25, 0.12 R 290, 0, 0	L	LWR 11251 1+2	B-O	-2.1 .16 13.8	L / S	O	19:45:33 19:50:09	0:310 1:00	5 4	0 0	2	MN=	"
"	HD 37021 "	"	α , , δ , , R , ,	H	SWP 14666 1+3	B-O	-1.6 .08 9.2	L	O	19:54:19	8:00	3	0	1	MN=	"
"	HD 37020 20	B0.5Vp 6.72 .28	α 5, 32, 48.3 δ -5, 25, 7.7 R 290, 0, 0	L	LWR 11252 1+4	B-O	-1.0 .08 13.8	L / S	O	20:49:26 20:53:36	0:18 0:10	8 3	0 0	2	MN= 536	"
"	"	"	α , , δ , , R , ,	H	SWP 14667 1+5	B-O	-.9 .08 9.2	L	O	21:03:12	5:10	5	0	1	MN=	"
"	HD 37023 "	B0.5Vp 6.70 .36	α 5, 32, 49.8 δ -5, 25, 9.8 R 290, 0, 0	H	SWP 14668 1+6	B-O	-1.2 .08 9.2	L	O	21:49:30	5:00	5	0	1	MN=	"
~~AG 30~~	~~HD 37008~~	~~92 I~~	~~α 4, 57, 28 δ 10, 20, 06 R 293, 49, 43~~	~~H~~	~~LWR 11253 1+~~	~~B~~									antenna null + Earth scattered Light MN=	"
STAND 1	56 TAU 36-34	AepSi 5.38	α 4, 16, 38.8 δ 21, 39, 15 R 279, 50, 37.4	H	SWP 14669 1+7	10948 48 F.O.	-.71 .08 9.2	L	O	23:08:40	9:30	6	0	1	MN=	L. BIANCHI LB

OBSERVATORY LOG

DATE D 5 M AUG Y 81 RAW TAPE D 5 M AUG

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 BRG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
STAN01	HD27309 34-36	Aep S. 5.38	α 4, 16, 38.8 δ 21, 39, 15 R 279, 50, 37.4	L	LWR 11253 1+8	21022 198 F.O.	-1.0 .08 13.5	L	0	23:29:03	6:10	5	7	2	MN=	L. BIANCHI LB
AG307	HD32008 44	92V 5.7	α 4, 57, 28 δ -10, 20, 6 R 293, 45, 56.	L	LWR 11254 1+9	17500 49 F.O.	-.71 .08 13.5	L	0	00:51:19	56:00	5	6	3	MN= 272	"
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

DATE D 6 M AUG Y 81 RAW TAPE D 6 M AUG

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 BRG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2828 UK 464	HD 112843 23 -	B2 III 9.6 0.29	α 12, 57, 46 δ -72, 21, 38 R 55, 6, 28	L	SWP 14675 1+1	532 2 FO	-1.4 0.08 7.5	L S	0 0	19:15:42 19:23:09	003:00 008:00	5 4	0 0	0 0	MN=	West W.W.
2829 UK464	HD 112843 23 -	B2 III 9.6 0.29	α 12, 57, 46 δ -72, 21, 38 R 55, 6, 28	L	LWR 11259 1+2 11260	553 3 FO	-.3 .08 12.2	L	0	19:41:12	002:00	5	0	2	MN= 263	West W.W.
2830 UK464	HD 112843 23 -	B2 III 9.6 0.29	α 12, 57, 46 δ -72, 21, 38 R 55, 6, 28	H	SWP 14676 1+3	~~547~~ 3 FO	-.3 .08 7.8	L	0	20:11:16	295:00		0		exposure looked O.K. no time for histogram MN=	West W.W.
2831	HD 86606 23	O5f 6.3	α 9, 55, 17 δ -71, 09, 02 R 11, 49, 27.7	H	SWP 14677 1+4	10701 16 F.O.	-.2 .08 8.5	L	0	1/43/19	6/0	5	0	1	MN=	West W.W.
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 7 M Aug Y 81 RAW TAPE D 7 M Aug

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	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
HN600	HBV 475 57	13.2	α 20, 49, 2.6 δ 35, 23, 37 R 5, 59, 10	H	LWR 11265 1+1	81 3 0.5.	−1.7 .08 11.5	L	O	19/18/58	170/0	1	2	4	MN at the bottom. ~25 MN=	MUSSBAUMER/ SCHILD W.W.
HN600	HBV475 57	13.2	α ″ ″ δ ″ ″ ″ R ″ ″	H	SWP 14687 1+2	88 10 0.5	+.04 .08 6.1	L /	O	22/13/31	2/2/30	1	1	0	MN=	″ ″ W.W.
HN600	HBV475 57	″	α ″ ″ ″ δ ″ ″ ″ R ″ ″	L	LWR 11266 1+3	83 0.5	−.13 .08 12.8	L	O	23/06/32	70/0	3	4	8	2779. 190 RM MN=387	″ ″
HN600	HBV475 57	4	α ″ ″ ″ δ ″ ″ ″ R ″ ″	L	SWP 14688 1+4	90 2 0.5	−.7 .08 6.5	L	O	00/20/20	87/0	1	5	1	eHe-II-1640 200 ecm 190 BBS.21 MN=	″ ″
			α ″ ″ ″ δ ″ ″ ″ R ″ ″		1+										MN=	
			α ″ ″ ″ δ ″ ″ ″ R ″ ″		1+										MN=	
			α ″ ″ ″ δ ″ ″ ″ R ″ ″		1+										MN=	
			α ″ ″ ″ δ ″ ″ ″ R ″ ″		1+										MN=	

OBSERVATORY LOG DATE 2 AUG 81 RAW TAPE 2 AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	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
2932 UK 464	CPD-72°1184 23	Ba III 10.7 0.23	α 11h, 56m, 21.7 δ −71°, 09′, 05″ R 39°, 8′, 34″.9	H	SWP 14695 1+1	197 0 f.o.	−0.8 .10 7.2	L	O	11:59:09	270:00	5	0	2	MN=	K. West A.H.
2833 ″	″	″	α ″ ″ ″ δ ″ ″ ″ R ″ ″	H	LWR 11272 1+2	196 0 f.o.	−1.5 .08 11.8	L !	O	23:22:10	135:00	4	0	4	MN= 209	″
			α ″ ″ ″ δ ″ ″ ″ R ″ ″		1+										MN=	
			α ″ ″ ″ δ ″ ″ ″ R ″ ″		1+										MN=	
			α ″ ″ ″ δ ″ ″ ″ R ″ ″		1+										MN=	
			α ″ ″ ″ δ ″ ″ ″ R ″ ″		1+										MN=	
			α ″ ″ ″ δ ″ ″ ″ R ″ ″		1+										MN=	
			α ″ ″ ″ δ ″ ″ ″ R ″ ″		1+										MN=	

OBSERVATORY LOG

DATE D 9 M AUG Y 81 RAW TAPE D 9 M AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	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
HN 600	HM Sge	Sg-subdw.	α 19h 39m 41.4s δ +16° 37' 33" R 37° 29' 8".7	L	SWP 14704 1+1	175 20/1 f.o.	-0.9 .07 7.8	S L	0 0	19:28:18 19:04:23	40:00 20:00	1 2	3 6	1	MN=	H. NUSSBAUMER H. SCHILD A.H.
"	"	"	α , , . δ , , " R , ,	L	LWR 11280 1+2	185 19/3 f.o.	-.4 .08 12.5	S L	0 0	19:36:21 19:54:04	8:00 40:00	2 5	5 6	3	MN=	"
"	"	"	α , , . δ , , " R , ,	H	SWP 14705 1+3	184 2 f.o.	-0.7 .08 7.8	L	0	20:32:50	50:00	1	3	0	MN=	"
"	"	"	α , , . δ , , " R , ,	H	LWR 11281 1+4	193 2 f.o.	-0.5 .08 12.8	L	0	21:26:37	20:00	2	5 1	4	MN= 305	"
"	"	"	α , , . δ , , " R , ,	H	SWP 14706 1+5	174 1 f.o.	-0.7 .08 9.8	L	0	22:40:05	182:00	2	6	2	MN=	"
			α , , . δ , , " R , ,		1+										MN=	
			α , , . δ , , " R , ,		1+	—									MN=	
			α , , . δ , , " R , ,		1+										MN=	

DATE D 10 M AUG Y 81 RAW TAPE D 10 M AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	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
2834 UK 47.0	HD 197906 11	V=7.7 10.5	α 20h 39m 54s δ +52° 25' 00" R 10° 23' 37"	L	SWP 14713 1+1	247 2 f.o.	-0.3 .08 9.2	L	0	18:26:52	50:00	4	5	1	MN=	WILLIS SANFORD A.H.
2835 "	HD 193576 LL	V=5.26 8.3	α 20h 17m 42s δ +38° 34' 00" R 18° 15' 28".1	L	SWP 14714 1+2	211 3 f.o.	-1.3 .08 8.8	L 1	0	19:59:44	2:00	4	5	1	MN=	"
2836 "	HD 190918 31	V=4.09 7.5	α 20h 4m 5.0s δ +35° 39' 0" R 22° 49' 48".0	H	SWP 14715 1+3	5975 417(446!) f.o.	-1.7 .08 8.8	L	0	20:40:17	2:00	5	5	1	MN=	"
2837 "	HD 197230 11	V=4.8 11.5	α 19h 9m 20s δ -09° 23' 11" R 69° 25' 42".0	L	SWP 14716 1+4	131 41(44) f.o.	-1.0 -.08 9.2	L	0	21:56:10	70:00	4	4 1	1	MN=	"
2838 "	HD 168206 11	V=6.0 9.7	α 18h 16m 24s δ -11° 39' 00" R 79° 38' 28".3	L	SWP 14717 1+5	200 5 f.o.	-2.0 .08 11.2	L	0	23:44:24	2:100	4	5	0	MN=	"
2839 "	NGC 6383 84	Sag. I 13.1	α 17h 36m 33s δ -32° 27' 41" R 37° 33' 29".6	L	SWP 14718 1+6	76 17 f.o.	-1.5 .08 9.8	L	0	01:15:41	31:00	3	3	1	MN=	"
			α , , . δ , , " R , ,		1+										MN=	
			α , , . δ , , " R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 11 M AUG Y 81 RAW TAPE D 11 M AUG

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 TIDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
/ PHCAL	WAVCAL	/	α 20, 0, 20.1 δ -55, 5, 4 R 150, 5, 56.7	H	SWP 14726 1+1	/	0.607 0.08 9.8	S	C	19:04:07	0:45	0	7	3	FLOOD=5 CALWL=40 MN=0	CASSATELLA
"	RR TEL 57	Pec 10.5	α 20, 0, 20.1 δ -55, 5, 4 R 150, 5, 56.7	H	LWR 11293 1+2	311 1 OF	0.607 0.08 13.2	L	O	19:11:23	25:0	0	7	1	MN=0	
"	"	"	α , , δ , , R , ,	H	SWP 14727 1+3	312 1 OF	-0.66 0.08 9.8	L	O	19:41:33	25:0	0	6	2	FLOOD=7 CALWL=40 MN=0	
"	WAVCAL	/	α , , δ , , R , ,	H	LWR 11294 1+4	/	0.146 0.08 13.2	S	C	20:14:00	0:47	0	8	3	MN=0	
"	"	"	α , , δ " , " , " R , ,	H	SWP 14728 1+5	/	-0.74 0.08 14.5	S	C	22:17:40	0:45	0	6	3	FLOOD=5 CALWL=40 MN=0	
"	"	"	α , , δ , , R , ,	H	LWR 11295 1+6	/	-0.82 0.08 11.8	S	C	22:49:56	0:8	0	6	2	TFLOOD=3 CALWL=5 XS PREP MN=0	
"	RR TEL 57	" 10.5	α " , " , " δ , , R , ,	H	SWP 14729 1+7	319 5 OF	-0.82 0.08 12.5	L	O	22:56:02	25:0	0	6	3	MN=0	
"	"	"	α " , " , " δ , , R , ,	H	LWR 11296 1+8	314 2 OF	-1.25 0.08 14.8	L	O	232844	25:0	0	7	3	MN=431	

OBSERVATORY LOG DATE 11 AUG 81 RAW TAPE 11 AUG

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 TIDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
/ PHCAL	WAVCAL	/	α 20, 0, 20.1 δ -55, 5, 4 R 150, 5, 56.7	H	LWR 11297 1+9	/	-1.43 0.08 15.2	S	C	005542	0:13	0	6	2	TFLOOD=3 CALWL=10 MN=0	CASSATELCA
"	RR TEL 57	Pec 10.5	α , , δ , , R , ,	L	SWP 14730 1+10	321 18/5 OF	-1.09 .08 12.5	L S	O	012150 011632	6:0 2:0	3 1	7 6	1	CONT ~ 87 B=21 MN=0	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 12 M AUG Y 81 RAW TAPE D 12 M AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RN1 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
EG 546	NGC 1818 83	Glclus 9.85	α 5, 4, 4 δ −66, 28, 0 R 297, 48, 20	L	SWP 14735 1+1	132 25 OF	0.57 0.08 8.8	L	0	18:53:34	40:0 1.9	5	ϕ	1	C = 176, B = 20 extended MN=	CASSATELLA GEYER
"	"	"	α " , " , " δ , ,	L	LWR 11300 1+2	131 52 OF	−0.3 0.08 12.8	L	0	19:37:40	50:0 9.4	5	ϕ	1	C = 252, B = 30 Bright nucleus MN= 454	
"	NGC 2004 83	~ 9.86	α 5, 30, 44 δ −67, 19, 0 R 303, 42, 23	L	SWP 14737 1+3	192 41 OF	−1.7 0.08 8.8	L	0	20:48:19	30:0 2-3	6	0	1	C = 250 λ > 1700 4 pix sat around 1300A, B = MN=	
"	"	"	α , , , δ , ,	L	LWR 11301 1+4	192 64 OF	−1.2 0.08 13.5	L	0	21:22:07	35:0 11.7	7	0	1	B = 30 C(λ < 2400) = 200 MN= 429	
"	NGC 2100 83	" 9.6	α 5, 42, 23 δ −69, 15, 0 R 306, 14, 28	L	SWP 14738 1+5	132 76 OF	−1.3 0.08 8.5	L	0	22:21:25	40:0	4	0	1	C = 136 B = 17 MN=	
"	"	"	α , , , δ , ,	L	LWR 11302 1+6	128 64 OF	−0.9 0.08 13.8	L	0	23:05:39	40:0	5	0	1	C = 251 B = 31 MN= 399	
"	NGC 1866 83	" 9.89	α 5, 13, 28 δ −65, 31, 0 R , ,	L	SWP 14739 1+7	301 97 OF	−0.9 0.08 8.5	L	0	00:00:10	72:0	3	0	1	C = 88 B = 25 MN= ϕ	
"	NGC 2004 83	" 9.86	α 5, 30, 44 δ −67, 19, 0 R 303, 42, 23	L	LWR 11303 1+8	195 32 OF	−1.5 13.5	L	0	01:24:45	18:0	6	0	1	4 pix sat ~ 2800 B = 27 MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RN1 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
RV547	AG CAR-A 73	Neb 10.0	α 10, 54, 8.9 δ −60, 11, 24 R 20, 34, 17.4	L	SWP 14749 1+1	/	−1.8 0.08 9.7	L	0	18:29:42	40:0	2	0	1	ϕ = 571, 103, 600 OF C = 40, B = 27 MN=	VIOTTI CASSATELLA
"	"	"	α , , , δ , , , R , ,	L	LWR 11313 1+2	/	−0.6 0.08 14.2	L	0	19:15:46	40:0	4	0	1	ϕ = 372, 242 C = 155 B = 32 FILLO STAR? MN= ϕ	
"	AG CAR 23	B1I 6.6	α 10, 54, 10.5 δ −60, 11, 11 R 20, 34, 17.4	H	SWP 14750 1+3	9439 40 OF	−0.48 0.08 9.5	L	0	20:07:43	90:0	4	0	2	ϕ = 641, 102 C = 149 B = 39 MN= ϕ	
"	AG CAR-B 73	Neb 10.0	α 10, 54, 11.9 δ −60, 10, 01 R 20, 34, 17.4	L	LWR 11314 1+4	/	−1.3 0.08 14.2	L	0	21:40:09	120:0	6	0	1	ϕ = 499, 230 sharp edge to one SAP - Few pix sat MN= ϕ	
"	ETA CAR-H 73	Neb	α 10, 43, 5.3 δ −59, 25, 13 R 17, 44, 24	H	SWP 14751 1+6	/	−0.9 0.08 9.2	L	0	23:59:32 01:29:31	60:0 18:0 78:0 TOTAL	1	0	1	MN=	η Car CTS 13864 (OF)
"	AG CAR 23	B1I 6.6	α , , , δ , , , R , ,	L	LWR 11315 1+5	9291	−1.3 0.08 14.2	L	0	01:11:11	0:30	6	0	1	B = 26 3 pix sat at 2800 MN= 559	
			α , , , δ , , , R , ,		1+										MN=	
			α , , , δ , , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 14 AUG 81 RAW TAPE 14 AUG

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / WILLIS RESIDENT ASTRONOMER
2840 UK480	HD 5394 26	Be 2.6	α 00,53,40 δ +60,26,47 R 312,9,21	H	SWP 14760 1+1	3690 750 FU	-.4 .4 8.5	L	O	18:28:22	000:06	5	5	1	MN=	WILLIS/SANFORD WAMSTEKER & (BLADES)
2841	HD 200120 B 26	Be 4.7	α 20,58,0 δ 47,19,30 R 10,09,43	H	SWP 14761 1+2	295 FU	-.95 .22 8.8	L	O	19/02/81	001:10	5	5	1	MN=	" "
~~2842~~ 2842	HD200120 26	"	α , , δ , , R , ,	L	LWR 11323 1+6	290 40 F.U.	-.9 .08 13.2	L	O	19/06/80	0/01	5	5	0	MN=594	" "
2843	HD 200120 26	"	α , , δ 4, 4, 4 R , ,	L	SWP 14762 1+3		-1.3 .08 8.5	L	O	19/43/40	000:01	5	5	1	MN=	" "
2844	HD 138749 26	Be 4.2	α 15,30,55 δ 31,31,36 R 78,15,48	H	SWP 14763 1+4	600 75 FU	-1.0 .08 8.8	L	O	20:25:18	002:00	6	5	1	MN=	" "
2845	HD 149757 26	Be 2.6	α 16,34,24 δ -10,28,03 R 78,1,23	H	SWP 14764 1+5	2656 339 FU	-.6 .08 8.8	L	O	21:01:42	000:23	5	5	1	MN=	" "
2846	BBB 280 23	B 14.5	α 00,46,17 δ -73,28,25 R 232,09,26.9	L	SWP 14765 1+7	B/O	-1.2 .08 8.5	L	O	22:35:02	70:00	3	0	0	MN=	2C
2847	BBB 280 23	"	α , , δ , , R , ,	L	LWR 11324 1+	B/O	-.9 .08 13.2	L	O	23/54/23	113/0	4	0	5	MN=402	"

OBSERVATORY LOG DATE 15 AUG 81 RAW TAPE 15 AUG

(ESA) / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS DKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PB612	HD 34078 12	O9 V 5.81 NE	α 5,12,58.8 δ 34,15,25 R 268,53,35.8	L	SWP 14769 1+1	11878 790	-1.5 .26 7.8	S L	O O	18:31:00 18:36:13	00:15 00:25	4	0	0	TRAILED MN=	BENVENUTI / P.B.
	IC 405 73		α , , δ , , R , ,	L	LWR 11335 1+2	B.O.	-.7 .08 12.8	L	O	18:45:47	24:00	3	0	2	HD 34078 AT X=-67, Y=128 MN=	/
	HD 34078 12	O9V 5.81	α , , δ , , R , ,	L	LWR 11336 1+3	11821 790.	-1.1 .08 13.5	S L	O O	19:46:48 19:52:08	00:20 00:21	6 4	0 0	2	TRAILED MN=	/
	IC 405 73		α , , δ , , R , ,	L	SWP 14770 1+4	~~(1078)~~ B.O.	-1.2 0.08 8.2	L	O	20:01:55	20:00	3	0	1	HD 34078 AT X=120, Y=-38 MN=	/
	IC 405 73		α , , δ , , R , ,	L	LWR 11337 1+5	B.O.	-1.2 0.08 13.5	L	O	20:28:26	60:00	3	0	2	HD 34078 AT X=-79, Y=101 MN=	/
	HD 37128 23	B6 I 1.71	α 5,33,40.5 δ -1,12,56 R 286,28,36.8	L	LWR 11338 1+6	6603	-.5 0.08 14.2	L	O	21:27:35	00:00.33	0	0	2	TRAILED NO SPECTRUM ?? MN=	/
	[illegible]	[illegible]	α , , δ , , R , ,	L	LWR 11339 1+7	6603 2666!	-1.2 0.08 14.2	S L	O O	22:56:09 28:01:01	00:01 00:00.56	8 7	0 0		TRAILED MN=	/
	NGC 1990 73		α , , δ , , R , ,	L	LWR 11340 1+8	B.O.	-1.2 0.09 14.5	L	O	23:38:4	00:20	2	0		HD 37128 AT X=-67, Y=128 MN=	/

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

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PR 642	HD 37742 13	09.5 Ib 1.75	α 05, 38, 14.0 δ −1, 58, 03 R 286, 59, 39.6	L	LWR 11341 1+9	5666 6627	−1.2 0.08 14.2	S L	0 0	00:29:49 00:38:35	00:01 DBP 00:00.36	8 7	0 0	2 2	TRAILED MN=	BENVENUTI P.B.
4	NGC 2024 72		α , , δ , , R , ,	L	LWR 11342 1+16	B.O	−1.2 0.08 14.2	L	0	01:11:12	02:00	4	0	2	MN=	4/
2	NGC 2024 72		α , , δ , , R , ,	L	SWP 14771 1+10	8.0	−.8 0.08 8.5	L	0	01:26:06	02:00	5	0	1	MN=	4/2
			α , , δ , , R , ,		1+								1		MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE 16 AUG 81 RAW TAPE 16 AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2848 UK 420	ANTIGONE Φ5 –	G5 10.7 –	α 18, 08, 29 δ −15, 42, 22 R 84, 42, 21	L	LWR 11350 1+1	130 3 F.0	−1.4 −0.08 12.8	L	0	19:12:29	100:00	4	–	4	4 MIN HEATER WARM UP BEFORE READ. MN=	BUTTERWORTH + EATON / BENVENUTI (+BLADES)
2849 –"–	HERTHA Φ5 –	G5 10.1 –	α 20, 30, 17.6 δ −21, 19, 18.6 R 111, 8, 34	L	LWR 11351 1+2	359 0 F.0	+1.4 −0.08 13.5	L	0	22:19:03	50:00	4	–	4	4 MIN HEATER WARM UP. MN= 779	–"–
2850 –"–	THISBE Φ5 –	G5 10.9 –	α 17, 53, 09 δ −21, 45, 50 R 88, 12, 15	L	LWR 11352 1+3	152 2 F.0	+1.6 −0.08 14.8	L	0	00:34:35	68:00	3	–	4	4 MIN HEATER WARM UP. MN= 782	–"–
			α , , δ , , R , ,		1+								1		MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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DATE 17 AUG 81 RAW TAPE 17 AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	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
OE 589	HD 39801 49	M2 Ib 0.86	α 5,52,27.8 δ 7,23,57 R 281,15,54.8	H	SWP 14775 1+		-1.5 .32 32.8	L	O	17:57:02	930:00	3	8	9	START AT GSFC START AGAIN AT VILSPA AT 01:12:56 READ AT GSFC MN=	ENG VOLD PP
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

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DATE 18 AUG 81 RAW TAPE 18 AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	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
UK 420 2851	DAPHNE 05	11.4	α 20,34,18.2 δ -1,8,48 R 56,45,18.1	L	LWR 11366 1+1	183 2 FO	-.1 .08 13.2	L	O	18:53:30	342:00	6	0	9	HTR WARM-UP 4 min MN= 789	BUTGALWORTH PP.
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE 19 AUG 81 RAW TAPE 19 AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
OE 589	BCET1 47	K1III 2.04	α 0,41,5 δ −18,15,39 R 268,26,43.0	H	SWP 14786 1+	3205 573 FU	−.7 .08 6.8	L	O	19:34:11	795:00	7	7	9	READ AT GSFC MN=	ENG WOLD PP
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 20 AUG 81 RAW TAPE 20 AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 428 2852	HD 6980 44	G2V+G5 8.5 0.63	α 1,07,20.8 δ −46,31,55 R 245,38,43.8	L	LWR 11380 1+9	945 5 FO	−1.5 .32 12.5	L	O	17:51:54	28:00	6	0	3	HTR WARM-UP=4min MN= 849	CLARK/ MOE PP
2853			α δ R	L	LWR 11381 1+1	1083 9 FO	−.6 .08 12.5	L	O	19:02:19	28:00	7	0	3	HTR WARM-UP=4min MN=	
2854			α δ R	L	LWR 11382 1+2	1104 6 FO	−1.5 .08 13.2	L	O	20:01:46	26:00	7	0	3	HTR WARM-UP=4min MN=	
2855			α δ R	L	LWR 11383 1+3	1157 2 FO	−1.0 .08 13.5	L	O	20:58:39	24:00	7	0	3	HTR WARM-UP=4min MN=	
2856			α δ R	L	LWR 11384 1+4	1191 2 FO	−.06 .08 14.2	L	O	21:53:01	24:00	7	0	3	HTR WARM-UP=4min MN=	
2857	HD 6269 44	G5IV 6.3 0.93	α 1,0,54.5 δ −29,47,38 R 257,38,57.2	L	LWR 11385 1+5	8566 39 FO	−.9 0.08 14.5	L	O	23:14:32	12:00	7	0	3	HTR WARM-UP=4min MN= 781	
2858	HD 3795 44	G3V 6.1 0.70	α 0,38,1.8 δ −24,4,27 R 260,2,16.7	L	LWR 11386 1+6	9746 57 FO	−1.4 0.08 14.8	L	O	00:11:57	02:20	6	0	2	HTR WARM-UP=4min MN=	
2859	HD 21981 30	A2V 6.0	α 3,29,0.07 δ −47,32,42 R 273,4,13.3	L	LWR 11387 1+7	12133 25 FO	−1.7 0.08 13.2	L	O	01:00:05	00:24	5	0	2	HTR WARM-UP=4min MN= 800	

OBSERVATORY LOG

DATE 20 AUG 81 RAW TAPE 20 AUG

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 428 2860	HD21981 30	A2II 6.0	α 3, 29, 0.07 δ -47, 32, 42 R 273, 4, 133	L	L WR 11388 1+8	12391 31 FO	-1.3 .08 15.2	L	O	01:32:06	00:24	5	0	2	HTR WARM-UP: 4 min MN=	CLARK / HOE PP
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

DATE 21 AUG 81 RAW TAPE 21 AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 472 2861	UV FLAT FIELD		α δ R	L	SWP 14789 1+1			L	O		00:30			2	UV LAMP 4% MN=	GONDHALEKAR PP
" 4	QQ172 85	17.5	α 14, 42, 50.4 δ 10, 11, 13 R 80, 51, 12.5	L	SWP 14790 1+	BO	-1.3 .08 8.5	L	O	20:40:24	815:00	1	1	9	READ AT GSFC X=-492 Y=-1144 cts=113 SD MN=	" 4
			α δ R		1+										MN=	
			α δ R		1+								1		MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 22 AUG 81 RAW TAPE 22 AUG

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 482	HD 131154 44	4.8V 4.5	α 14.49.05 δ 19.18.27.0 R 84.18.22.0	H	SWP 14791 1+			L	O	17:25:88	952:00	3	3	9	START AT GSFC READ AT GSFC MN=	JORDAN PP
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 23 AUG 81 RAW TAPE 23 AUG

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 472 2862	UV Flat field		α δ R	L	SWP 14797 1+1			L	O		00:45			5	UV FE 40% MN=	GONDHALEKAR PP
〃 4 2863	NULL		α δ R		LWP 1348 1+2			/							NULL (Readprep) MN=	〃 4
〃 4	Q 2204-408 85	17.5	α 22.04.33.1 δ -40.51.37 R 177.45.59.2	L	SWP 14798 1+	BO	-2. .08 9.8	L	O	20:54:38	760:00	1	1	7	X=-280 y=-1190 cts 315 SO READ AT GSFC MN=	〃 4
〃 4	Serendipity		α δ R	L	LWP 1349 1+		-2. .08 8.2	L	O	20:56:19	715:00	0	0	7	READ AT GSFC MN=	〃 4
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE: D 24 M AUG Y 81 RAW TAPE D 24 M AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	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
RS564	HD175754 12	O8 II 7.04 0.24	α 18,54,39.4 δ -19,13,14 R 92,10,13.4	H	SWP 14803 1+1	5496 16 FO	-0.7 .08 8.5	L	O	18:29:40	12:00	5	0	1	MN=	STALIO ee.
〃	HD152408 12	O8fp 5.77 0.47	α 16,51,28.75 δ -41,04,15 R 87,52,56.7	H	SWP 14804 1+2	14129 57 FO	-1.6 .08 8.5	L	O	19:23:10	3:45	3	4	0	MN=	〃
〃	〃	〃	α , , δ , , R , ,	H	LWR 11410 1+5	14034 55 FO	-1.2 .08 12.2	L	O	19:30:44	2:20	4	0	1	MN=439	〃
〃	HD164794 12	O4 V 5.97 0.35	α 18,00,18.4 δ -24,21,49 R 90,35,33.4	H	SWP 14805 1+4	12977 28 FO	.5 .08 7.8	L	O	20:24:39	4:30	5	0	1	MN=	〃
〃	HD105056 12	ON9.7 Ia 7.55 0.31	α 12,03,12.7 δ -69,17,41 R 27,18,47.9	H	SWP 14806 1+6	3803 8	-.5 .08 8.2	L	O	21:34:31	30:00	6	0	1	GDE (4.21, 3.30 2.01 FO) MN=	〃
QB594	LSI+61 303 26 -0.6	Be V 10.8 0.81	α 02,36,40.6 δ 61,00,54.1 R , ,	H	LWR 11411 1+7	170 1 FO	-.3 .08 12.5	L	O	23:21:46	35:00	1	0	2	GDE (17,-754 MN=358	BIGNAMI — CARAVEO ee.
〃	〃	〃	α , , δ , , R , ,	L	SWP 14807 1+8	168 2 FO	0.7 .08 7.8	L	O	00:02:08	105:00	4	3	1	GDE (217,-899 2892 FO) MN=	〃
			α , , δ , , R , ,		1+										MN=	

DATE: 29 AUG 81 RAW TAPE 25 AUG

ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	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
UK472 2864	UV FLAT FIELD		α , , δ , , R , ,		SWP 14814 1+1		-.7 .08 7.8			19:58:00	00:45				MN=	GONDHALEKAR ee.
〃	QSO 85	17.5	α 22,04,33.1 δ -40,51,37 R 174,12,19.5	L	SWP 14815 1+	3/0	-.6 .08 8.2	L	O	21:07:35	243:00	1	1	9	GDE (-209,-1205 355 50) Read at GSFC MN=	〃
〃	Background		α , , δ , , R , ,	L	LWP 1350 1+		-1.3 .08 7.2	L	O	21:19:09	360:00	0	0	3	Read at GSFC MN=	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE: 28/AUG/81 — NIGHT NUMBER: 207

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HL593	HD186882 25	B9.5III 2.8	α 19,43,25 δ 45,00,28 R42,51,02.7	H	SWP 14822 1+1	1772 570 FU	-.9 .08 10.5	S	O	18:28:03	02:40	5	0	1	MN=	DE JAGER ee
"	"	"	α ,, δ ,, R ,,	H	SWP 14823 1+2	1780 715 FU	0.3 .08 10.5	S	O	19:05:19	04:50	7	0	1	MN=	"
"	HD201345 12	ON9.5V 7.7	α 21,05,52 δ 33,11,40 R25,14,48.8	H	SWP 14824 1+3	2990 149 FO	0.6 .08 10.2	S	O	19:56:19	30:00	3	0	1	MN=	"
"	HD191877 23	B1Ib 6.3	α 20,09,10 δ 21,43,31 R48,17,22.7	H	SWP 14825 1+4	10228 690 FO	0.5 .08 12.2	S	O	21:07:03	34:00	5	0	1	MN=	"
"	HD2905 23	B0.7Ia 4.2	α 00,30,8.3 δ 62,39,22 R327,11,43.8	H	SWP 14826 1+5	562 214 FU	-.5 .08 12.8	S	O	22:20:31	2:40	4	0	1	MN=	"
"	HD186882 25	B9.5III 2.8	α 19,43,25 δ 45,00,28 R43,2,38.1	H	SWP 14827 1+6	1761 650 FU	-.1 .08 12.2	S	O	28:00:39	4:00	6	0	1	~50 px sat. MN=	"
"	HD154090 23	B0.7Ia 4.9	α 17,01,31.7 δ -34,3,16 R87,0,53.1	H	SWP 14828 1+7	25071 15131 FO	-1.0 .08 11.5	S	O	23:57:30	32:00	5	0	1	MN=	"
"	HD149038 13	O9.5Iab 4.9	α 16,30,31.3 δ -43,56,28 R84,12,28.1	H	SWP 14829 1+8	200 100 FU	-.6 .08 11.2	S	O	01:12:58	8:20	6	0	1	~100 px sat MN=	"

OBSERVATORY LOG — DATE: 27/AUG/81 — NIGHT NUMBER: 206

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
LM529	3C 66A 87	BL Lac 15	α 02,19,30.03 δ 42,48,29.9 R299,14,11.6	L	SWP 14838 1+1	B/O	-1.2 .08 10.5	L	O	18:53:27	280:00	3	0	3	GDE (-1151,-574 1268 FO) MN=	TANZI ee
"	"	"	α ,, δ ,, R ,,	L	LWR 11419 1+2	B/O	-1.0 .08 13.5	L	O	23:37:20	130:00	3	0	3	GDE (-1350,-436 1378 FO) MN=	"
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	
			α ,, δ ,, R ,,		1+										MN=	

OBSERVATORY LOG

DATE D 28 M AUG Y 81 RAW TAPE D 28 M AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HL593	HD186882 25	B9.5 III 2.8	α 19, 43, 24.7 δ 45, 00, 28 R 44, 57, 3.8	H	SWP 14844 1+1	1791 718 FU	-1.3 .08 9.8	S	O	18:46:42	4:00	7	0	1	MN=	DE JAGER ee.
"	HD2905 23	BC0.7Ia 4.2	α 00, 30, 8.3 δ 62, 39, 22 R 328, 42, 51.6	H	SWP 14845 1+2	569 204 FU	-.2 .08 9.8	S	O	19:29:49	4:30	5	0	1	PG/g. components ~100DN MN=	" 4
"	HD37468 12	O9.5V 3.8	α 5, 36, 14.0 δ -2, 37, 38 R 280, 55, 16.5	H	SWP 14846 1+3	1801 600 FU	-1.1 .08 9.8	S	O	20:17:27	0:45	0	0	1	No spectrum MN=	" 4
"	HD105056 13	ON9.7Ia 7.4	α 12, 03, 12.7 δ -69, 17, 41 R 23, 55, 23.8	H	SWP 14847 1+4	3657 8 FO	-1.2 .08 9.5	L	O	21:33:15	20:00	4	0	1	GDE(741, 874 309 FO) MN=	" 4
HT535	HD97048 30	A0 IV 8.5	α 11, 6, 39.6 δ -77, 23, 1 R 9, 39, 6.1	H	LWR 11429 1+5	1328 2 FO	-.8 .08 13.2	L	O	22:13:24	90:00	3	0	2	GDE(137, -488 177 FO) MN= 334	TJIN A DJIE ee.
"	HD144667 27	Bp 6.6	α 16, 5, 13.0 δ -38, 57, 38 R 78, 58, 26.7	L	SWP 14848 1+6	7530 13 FO	-.08 .08 8.8	L	O	00:27:31	1:30	8	0	0	MN=	" u
"	"	"	α , , δ , , R , ,	L	LWR 11430 1+7	7496 10 FO	-.08 .08 14.5	L	O	00:34:52	1:00	8	0	2	MN=	" 4
"	"	"	α , , δ , , R , ,	L	SWP 14849 1+8	7351 15 FO	1.5 .08 9.2	L	O	01:11:42	00:25	5	0	1	MN=	" u

OBSERVATORY LOG

DATE D 28 M AUG Y 81 RAW TAPE D 28 M AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HT535	HD144667	Bp 6.6	α 16, 5, 13.0 δ -38, 57, 38 R 78, 58, 26.7	L	LWR 11431 1+9	7828 10 FO	0.6 .08 14.2	L	O	01:37:38	00:18	6	0	1	30 px sat. MN=	TJIN A DJIE ee.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 29 M Aug Y 81 RAW TAPE D 29 M Aug

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HT525	HD 293782 32	A2 III 9.8	α 5, 2, 1.0 δ −3, 51, 30 R 279, 55, 43.9	L	SWP 14857 1+1	504 O.F.	−1.6 .08 12.2	L	0	19/33/35	147/0	7	0	1	MN=	Tjin, Remeja WW.
CZ502	HD 12533 47	K3 III 2.1	α 2, 0, 49.2 δ +42, 5, 27 R 303, 48, 17	H	LWR 11439 1+2	4300 1000 4.F	−.8 .08 15.9	L	0	22/47/33	15/0	3	5	2	offset −7 in Y FES. MN=	Oranje WW.
CZ502	〃	〃	α , , δ , , R , ,	L	SWP 14858 1+3		−1.0 .08 12.2	L	0	23/19/12	50/0	9	0	1	directly from LWR-pos. MN=	Oranje WW.
CZ502	HD 163993 47	K0 III	α 17, 55, 49 δ 29, 15, 07 R 71, 10, 38	L	SWP 14859 1+4	F.4	−1.3 .08 11.8	L	0	01/31/18	16/0	2	0	0	MN=	Oranje WW.
			α , , δ , , R , ,		1+										Distance headlist image has identifi MN=	
			α , , δ , , R , ,		1+										NB! wrong gives: HD 169933 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

DATE 30 AUG 81 RAW TAPE 30 AUG

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CH529	PKS 0637-75 87	BL LAC 15.5	α 6, 37, 25.3 δ −75, 13, 37.8 R 301, 51, 41.5	L	SWP 14867 1+2	B-0	−1.3 .08 7.8	L	0	20:07:38	240:00	3	0	2	guide 1165, −283 MN=	E. TANZI IB
〃	〃	〃	α , , δ 〃, 〃, 〃 R , ,	L	LWR 11445 1+1	B-0	−1.8 .08 12.5	L	0	00:20:21	87:00	1	0	3	MN= 254	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 31 AUG 81 RAW TAPE 31 AUG

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 window/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SEYFE	NGC 7469 84	SEYFERT ~14	α 23, 00, 44.4 δ 8, 36, 18 R 341, 80, 7.5	L	LWR 11448 1+1	75 12 S.O.	-1.6 .08 128	L	O	20:15:47	73: 00	3	5	3	MN= 377	L. BIANCHI UB
"	"	"	α , , δ " , " , " R , ,	L	SWP 14870 1+2	77 — S.O.	.6 .08 10.8	L	O	21:35:28	140:00	3	6	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 11449 1+3	79 Ø S.O.	3.2 .08 14.8	L	O	23:59:41	68:00	3	4	3	MN= 152	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 1 Sept 81 RAW TAPE 1 Sep

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 window/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CZ502	HD8799 41	F4 IV 4.8	α 1, 24, 39 δ +45, 8, 57 R 314, 20, 7	L	SWP 14876 1+1	25505 314 F.O.	-2.5 .4 7.8	L	O	16/32/46	70/6	7	4	1	MN=	Oranje WW
CZ502	HD 223552 41	F2 V 6.4	α 23, 47, 52 δ +51, 20, 38 R , ,	H	LWR 11453 1+2	7664 29 F.O	-1.3 .2 12.5	L	O	18/38/12	50/0	6	3	3	MN= 259	" "
CZ502	HD 205435 44	G8 III 4.1	α 21, 32, 58 δ +45, 22, 12 R 20, 57, 31	L	SWP 14877 1+3	575 133 F.U.	-1.9 .08 7.8	L	O	19/57/03	100/0	3	4	0	MN=	" "
CZ502	HD 163993 47	K0 III 3.7	α 17, 55, 49 δ 29, 15, 07 R 73, 30, 40	L	SWP 14878 1+4	701 169 F.U.	-1.1 .08 8.5	L	O	22/16/23	90/0	4	4	1	MN=	" "
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	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
2865 UK455	EV Lac 48	dM4.5e 10.2	α 22,44,40 δ 44,04,36 R 0,0,15	L	LWR 11458 1+1	362 5 F.0	-1.7 .9 13.5	L	O	16/03/23	25/0	1	3	3	MN=173	Dufton W.W.
2866	EV Lac 48	"	α " δ " R "	L L	SWP 14884 1+2	357 45 F.0	-1.1 .08 9.2	L L	O O	16/43/11 17/18/37	30/0 30/0	1 1	1 1	0 0	MN=	" "
2867	EQ Peg 48	M4Ve 10.2	α 23,29,20 δ 19,39,42 R 337,26,07	L L	SWP 14885 1+3	395 2 F.0	-1.6 .08 10.5	L L	O O	19/00/27 19/36/30	30/0 30/0	1 1	2 2	1 1	MN=	" "
2868	"	"	α " δ " R "	L	SWP 14886 1+4	408 3 F.0	+0.3 .08 11.5	L	O	20/34/18 21/08/32	30/0 30/0	1 1	2 2	1 1	MN=	" "
2869	"	"	α " δ " R "	L	LWR 11459 1+5	408 3 F.0	+1.6 .08 13.2	L	O	22/10/44	25/0	2	4	2	MN=497	Dufton WW
2870	"	"	α " δ " R "	L L	SWP 14887 1+	407 4 F.0	-.3 .08 11.8	L L	O O	22/40/48 23/15/30	30/0 32/0	1 1	2 2	0 0	MN=	" "
			α " δ " R "		1+										MN=	
			α " δ " R "		1+										MN=	

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ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2871 UK 455	EV LAC 52 -	dM4.5e 10.2 0.1	α 22,44,40 δ +44,04,36 R 00,51,21	L	SWP 14892 1+1	355 43 F/0	-2.26 0.1 7.8	L' L"	O O	15:42:29 16:21:00	030:00 030:00	1 1	1 1	0 0	FES 367.826 (16.15 hr) FES 342.283 (16.54) 1 7,-213 mod ref pos 11 -34,-203 MN=	DUFTON WAMSTEKER (BLADES)
2872 UK 455	"	"	α " δ " R "	L	LWR 11465 1+2	362 - F/0	-0.9 0.16 12.8	L	O	16:59:40	025:00	1	4	2	MN=164	"
2873	"	"	α " δ " R "	L	SWP 14893 1+3	360 40 F/0	-.9 .08 7.8	L' L"	O O	17/29/58 18:08:21	30/0 030:00	2 2	2 2	1 1	FES 372.906 (18.35 hr) 1 7,-213 11 -34,-203 MN=	"
2874	EQ PEG 52	M4Ve 10.2 0.1	α 23,29,20 δ +19,39,42 R 338,55,59	L	SWP 14894 1+4	394 4 F/0	-.4 .08 7.8	L' L"	O O	19:31:05 20:05:15	030:00 030:00	1 1	2 2	0 0	FES=393.518 (19.27 hr) FES=381.842 (20:04 hr) 1 12,-214 mod ref pos 11 25,-206 MN=	"
2875	"	"	α " δ " R "	L	LWR 11466 1+5	414 7 P/0	-.3 .08 12.2	L	O	20:44:48	025:00	2	4	2	FES=389.473 (20:40 hr) FES=390.0 (21:12 hr) MN=	"
2876	"	"	α " δ " R "	L	SWP 14895 1+6	390 (checked) F/0	-.4 .08 9.5	L' L"	O O	21:14:41 21:47:43 22:01:16	030:00 010:00 040:00 030:00	1 1	2 1	0 0	FES=391.04 (22:00 hr) 1' +12,-214 (MOD. REFPOS) 1" -25,-206 MN=	"
2877	"	"	α " δ " R "	L	LWR 11467 1+7	392 1 F.0	-.16 .08 13.2	L	O	22/26/04	24/0	2	5	3	MN=532	"
2878	"	"	α " δ " R "	L	SWP 14896 1+8	391 2 F.0	-.27 .08 11.2	L	O	22/54/46	53/0	2	3	1	MN=	"

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(ESA) / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VC 548	K559 19	09 14.8	α 21, 27, 33.6 δ 11, 58, 27.8 R 48, 44, 20	L	SWP 14897 1+1	BO	-2.9 .08 8.8	L	O	17:31:50	90:00	4	0	0	GUIDE X: -1017 Y = 238 cts 2273 FO MN=	CALO1 PP
〃	〃	〃	α 〃 δ 〃 R 〃	L	LWR 11472 1+2	BO	-2.5 .08 13.8	L	O	19:23:01	80:00	4	0	3	GUIDE X= 1216 Y = 377 cts 2248 FO MN= 283	〃
〃	K996 19	B3 14.2	α 21, 27, 42.5 δ 11, 57, 52.3 R 48, 57, 44.4	L	SWP 14898 1+3	BO	-2.1 .08 8.2	L	O	20:56:53	85:00	3	0	1	GUIDE X= -1047 Y= +282 cts 2715 FO MN=	〃
〃	〃	〃	α 〃 δ 〃 R 〃	L	LWR 11473 1+4	BO	-.9 .08 12.8	L	O	22:31:36	77:00	3	0	3	GUIDE X= -1246 Y= -143 cts 2847 FO MN= 569	〃
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG DATE 5 SEP 81 RAW TAPE 5 SEP

ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 401 2879	HD77581 59	X-Ray 6.9	α 9, 0, 13.2 δ -40, 21, 25 R 323, 45, 17.8	L	SWP 14911 1+1	5185 61 FO	-2.3 0.24 7.5	L	O	16:47:31	09:25	3	0	1	TRAILED 2 ITERATIONS (NOT IN PHASE) MN=	COE PP
〃 2880	〃	〃	α 〃 δ 〃 R 〃	L	SWP 14912 1+2	5167 61 FO	-2.1 0.08 7.5	L	O	17:43:10	09:25	5	0	0	TRAILED 2 ITERATIONS MN=	〃
〃 2881	HD102567 59	X-Ray 9.0	α 11, 45, 33.6 δ -61, 55, 44 R 13, 8, 8.5	L	SWP 14913 1+3	893 15 FO	-1.3 0.08 7.8	L	O	19:12:29	14:36	8	0	1	TRAILED 3 ITERATIONS MN=	〃
〃 2882	〃	〃	α 〃 δ 〃 R 〃	L	SWP 14914 1+4	918 15 FO	-1.3 0.08 8.2	L	O	20:35:58	04:51	4	0	0	TRAILED 1 ITERATION MN=	〃
〃 2883	1145-614 59	X-Ray 13.0	α 11, 45, 2.3 δ -61, 40, 33 R 12, 53, 58.5	L	SWP 14915 1+5	BO	-0.7 .08 8.2	L	O	21:56:02	45:00	0	0	0	X = 1123 Y = 1285 cts 214 FO MN= } Guide NO SPECTRUM	〃
〃 2884	1223-62 59	X-Ray 10.8	α 12, 23, 48.7 δ -62, 29, 37 R 22, 53, 42.2	L	SWP 14916 1+6	193 3 FO	-0.7 .08 8.2	L	O	23:26:15	21:00	0	0	1	NO SPECTRUM MN=	〃
			α δ R		1+										MN=	
			α δ R		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	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
MG 605	NGC 6572 70	Rl.wb 9.	α 18.09.41 δ 6.49.36 R 81.8.12.9	L	SWP 14917 1+1	1100 3 FO	-1.8 .52 8.8	O	L S	16:56:22 16:31:00	06:00 12:00	3 3	7 5	1 1	MN=	GREWING PP
			α , , δ , , R , ,	H	LWR 11481 1+2	1071 3 FO	-2.1 .20 14.8	O	L	17:06:27	145:00	3	3	5	MN=	
			α , , δ , , R , ,	L	SWP 14918 1+3	1137 723 FO	-.6 .08 8.2	C	S	19:44:30	20:00	2	4	1	LOCKED AT -6,-208 CENTRAL STAR OFFSETY = +2.67" MN=	
			α , , δ , , R , ,	L	LWR 11482 1+4	1170 861 FO	-.6 .08 14.8	C	S	20:25:37	40:00	3	3	3	MN=	
			α , , δ , , R , ,	H	SWP 14918 1+5	1207 4 FO	-0.2 .08 8.2	O	L	21:45:59	21:00	3	7	1	REF. POINT -24, -208 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 407 2885	SAO 36733 44	F5 7.1	α 22.00.6.8 δ 82.37.47 R 15.36.33.3	L	SWP 14921 1+1	B/O	-2.0 .08 7.8	L	O	16:56:33	107:00	6	0	1	GDE(-569,94 110 SO) ~20 px Saturated MN=	VILHU EP
2886	HD209943 44	F5 7.4	α 22.00.13.3 δ 82.37.52 R 15.36.33.3	L	LWR 11485 1+2	B/O	-1.0 .08 13.2	L	O	18:55:43	7:00	7	0	1	GDE(-721,208 129 SO) Last data below 4348 Spectrum OK MN=	U
2887	ER VUL 44	G0 7.5	α 21.00.16.43 δ 27.36.33.4 R 46.11.3.2	L	SWP 14922 1+3	3672 6. FD	-1.0 .08 7.8	L	O	20:50:21	177:00	5	3	2	GDE(1416,-216, 286 FO) MN=	U
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MG604	HD109867 23	B1 I 6.3	α 12,35,53 δ -66,55,6 R 23,7,15.7	H	LWR 11489 1+1	9525 40 FO	-2.0 .12 12.5	L	O	16:43:41	12:00	7	0	2	GDE(-540,-692 163 FO) MN=523	GREWING ee.
"	"	"	α , , δ , , R , ,	H	SWP 14928 1+2	9804 34 FO	-1.3 .08 8.2	L	O	17:20:01	10:00	5	0	1	GDE(-341,-834 118 FO) MN=	"
"	HD 110879 21	B3 V 3.0	α 12,43,11.4 δ -67,50,06 R 24,49,6.7	H	LWR 11490 1+3	1635 690 FU	-1.2 .08 12.8	S	O	18:31:51	00:25	3	0	1	MN=358	"
"	"	"	α , , δ , , R , ,	H	SWP 14929 1+4	1790 680 FU	-1.2 .08 8.5	S	O	18:35:51	00:25	3	0	1	MN=	"
"	HD111822 23	B1 III 7.7	α 12,49,37.7 δ -52,23,46 R 29,12,55.7	H	LWR 11491 1+5	2608 4 FO	-.7 .08 13.2	L	O	19:32:59	25:00	5	0	2	GDE(665,-106 1121 FO) MN=286	"
"	"	"	α , , δ , , R , ,	H	SWP 14930 1+6	2641 11 FO	-.2 .08 8.5	L	O	20:05:41	30:00	5	0	1	GDE(865,-246 1169 FO) MN=	"
"	HD111123 23	B1 III 1.27	α 12,44,47.0 δ -59,24,57 R 26,19,28.8	H	LWR 11492 1+8	8771 1480 FU	-.5 .08 13.5	L	O	21:20:09	00:02.5	6	0	2	MN=510	"
"	"	"	α , , δ , , R , ,	H	SWP 14931 1+7	8657 1410 FU	-.5 .08 8.8	L	O	21:24:32	00:02	5	0	1	MN=	"

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MG604	HD114441 2.0	B1 IV 8.02	α 13,08,26.8 δ -55,5,29 R 33,24,12.5	H	SWP 14932 1+9	2192 16 FO	-1.3 .08 8.8	L	O	22:16:32	45:00	4	0	1	GDE(-628,-1084 219 SO) MN=	GREWING ee.
"	"	"	α , , δ , , R , ,	H	LWR 11493 1+10	2205 10 FO	-1.6 .08 13.5	L	O	23:05:39	42:00	5	0	2	GDE(-835,-1113 193 SO) MN=479	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 431 2888	HD 45166 10	WC 10.0	α 6 , 23 , 30 δ 8 , 01 , 00 R 272, 56, 48.3	H	LWR 11497 1+1	394 0 FO	-1.5 .08 12.8	L	0	17:20:02	80:00	4	3	3	GDE(-27, 488 262 SO) MN=	STICKLAND cc.
2889	11	11	α , , δ , , R , ,	H	SWP 14943 1+2	413 6 FO	-1.3 .08 8.5	L	0	18:46:18	70:00	3	4	1	GDE(171, 346 306 SO) MN=	11
2890	HD 88366 51	M 7.5	α 10 , 4 , 46.2 δ -61 , 18 , 14 R 343, 2, 1.9	L	LWR 11498 1+3	9623 51 FO	-1.0 .08 13.8	L S	0	20:41:58 21:45:20	60:00 10:00	5 2	7 3	2	GDE(781, 1052 284 SO) MN=	11
2891	HD 82901 51	M 7	α 9 , 30 , 59 δ -62, 34, 1 R 333, 27, 39.1	L	LWR 11499 1+4	6097 38 FO	-2.2 .08 14.5	L S		22:38:12 23:32:39	50:00 15:00	4 2	7 6	2	GDE(142, -651 123 SO) MN=	4
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
LA 565	NGC 5904 83	F6	α 15 , 16 , 00 δ 02, 16 , 00 R 85, 35, 33	L	SWP 14950 1+1	296 176 F.O.	-1.8 .18 9.2	L	0	17/11/02	195/0	3	0	1	MN=	Dolcetta WW.
11	11		α , , δ Serendipity R , ,	L	LWR 11506 1+2		-1.8 .08 13.5	L	0	17/15/56	377/0	3	0	8	MN= 327	Dolcetta WW
4	11	11	α , , δ , , R , ,	L	SWP 14951 1+3		-1.1 .08 10.2	L	0	20/50/40	177/0	3	0	1	MN=	Dolcetta WW
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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DATE 11 Sep 81 RAW TAPE 11 Sep

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
2892 UK417	RU Lupi 58	TTau 11	α 15,53,24.0 δ -37,40,40 R 73,10,063	H	LWR 11515 1+1	110 2 F.O.	-1.1 .08 135	L	0	17/08/46	180/φ	3	7	5	MN=409	Penston/Lago WW.
〃 2893	〃	〃	α 〃 δ 〃 R 〃	H	LWR 11516 1+2	〃	-.9 .08 148		0	20/31/57	60/φ	1	4	3	MN=466	〃
2894	V1121 Oph 58	TTau 11.5	α 16,46,26.0 δ -14,18,24 R 82,38,19.2	L	SWP 14958 1+3	344 8 S.O.	-1.3 .08 8.5		0	22/01/32	85/0	2	2	1	MN=	〃
2895	〃	〃	α 〃 δ 〃 R 〃	L	LWR 11517 1+4	353 5 S.O	-.6 .08 14.2	L	0	23/30/59	15/0	2	3	2	MN=499	〃
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

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(ESA) / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	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.	FN. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GH 596	HD 5394 26 -	Be 2.8 -	α 0,53,40 δ +60,26,47 R 334,45,35	H	SWP 14968 1+2	3768 796 F/U	-2.1 0.24 8.8	Ø F D	0	16:20:35	000:08	5	0	1	MN=	BIANCHI BLADES
UKCAL 2896	NULL	—	α — δ — R —		LWP 1352 1+1	—	—	— /	—	—	—	0	0	2	SAFETY READ MN=	〃
UKCAL 2897	0215+015 87	— N14.5 —	α 02,15,14.1 δ 01,31,[illegible] R 277,39,35	L	LWP 1353 1+3	— B/O	-.7 .08 7.8	Ø L	0	18:47:21	233:00	3	0	1	BLIND OFFSET USING STAR C. 1 BAD SCAN D MN=	〃
2898	NULL	—	α δ R		LWR 11525 1+4	—	—	—	—	—	—			1	SAFETY READ. MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 13 SEP 81 RAW TAPE 13 SEP

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 wdow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 417 2899	RU LUPI 58	TTauri 11.5	α 15,53,24 δ −37,40,40 R 72,33,40,5	H	SWP 14980 1+1	147 1 F.O	−1.2 .08 6.5	L	O	17:15:57	361:00	2	3	3	MN=	PENSTON-LAG LB
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG DATE 14 SEP 81 RAW TAPE 14 SEP

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 wdow/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GH506	GAMMA CAS 26	Be 2.8	α 0,53,40 δ 60,26,47 R 336,30,11.5	H	SWP 14988 1+1	3857 650 F.U.	−2.0 .08 7.2	L	O	16:27:46	00:08	5	0	1	MN=	L. BIANCHI LB
"	"	"	α δ " , " , " R	H	SWP 14989 1+2	3640 550 F.U.	−1.0 .08 7.2	L	O	17:00:58	00:08	5	0	1	MN=	"
PHCAL	~~BD+28 4211~~ NULL	—	α δ — , — , — R	L	SWP 14990 1+3	—	—	—	—	—	—	0	0	0	Normal READ of a NULL image. B=19 MN=	"
"	BD+28 4211 16	sdO 10.53	α 21,48,56 δ +28,37,35 R 40,43,49	L	SWP 14991 1+4	261 4/60 F.O.	−2.3 .08 7.5	L	O	18:04:21	0:26	5	0	0	Partial READ + SPREP	"
								S	O	18:07:23	1:18	6	0	0	B=16 MN=	
"	"	"	α δ " , " , " R	L	SWP 14992 1+6	251 2/22 F.O.	−1.2 .08 7.5	L	O	19:21:36	0:18	6	0	0	Partial READ + SPREP	"
								S	O	19:25:03	0:54	5	0	0	B=15 MN=	
"	"	"	α δ " , " , " R	L	SWP 14993 1+7	270 1/21 F.O.	−3.8 −3.1 .08 7.5	L	O	19:53:20	0:10	3	0	0	Partial READ + SPREP	"
								S	O	19:56:09	0:30	4	0	0	B=14 MN=	
"	NULL	—	α δ — , — , — R	L	SWP 14995 1+8	—	—	—	—	—	—	0	0	0	Normal READ of NULL image B=17 MN=	"
"	BD+28 4211 16	"	α δ " , " , " R	L	SWP 14992 1+5	263 3/41 F.O.	−3.3 −1.9 .08 7.5	L	O	18:34:22	0:36	6	0	0	Partial READ + SPREP	"
								S	O	18:39:17	1:48	7	0	0	B=14 MN=	

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DATE D 14 M SEP Y 81 RAW TAPE D 14 M SEP

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	NULL —	—	α — , — , — δ — , — , — R , ,	-	LWR 11546 1+9	—	—	/	/	—	—	0	0	1	NULL READ + SPREP MN=	L. BIANCHI LB
"	BD+28 4211 16	sd O 10.53	α 21, 48, 56 δ 28, 37, 35 R 40, 43, 49	L	LWR 11547 1+10	273 3/30 F.O.	-1.1 .08 12.5	L / S	O O	21:24:43 21:28:00	1:0 3:0	5 5	0 0	1 1	PARTIAL READ + SPREP MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 11548 1+11	262 0/15 F.O.	-1.1 .08 13.2	L S	O O	21:57:55 22:01:40	1:30 4:30	6 6	0 0	1 1	Partial Read + Sprep B=27 MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 11549 1+12	260 0/15 F.O.	-1.2 .08 13.5	L S	O O	22:33:56 22:36:56	0:42 2:6	5 5	0 0	1 1	Partial Read + SPREP B=27 MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 11550 1+13	260 1/31 F.O.	-1.2 .08 13.8	L S	O O	23:05:51 23:09:33	0:23 1:9	4 4	0 0	1 1	Partial Read only B=27 MN=	"
"	NULL —	—	α , , δ , , R , ,		LWR 11551 1+14	—	—	—	—	—	—	0	0	0	normal Read of NULL but no previous prep MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 15 SEP 81 RAW TAPE 15 SEP

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 437 2900	HD34085 25	B8Ia 0.15 -0.02	α 5, 12, 8 δ -8, 15, 28 R 272, 20, 44.9	H	SWP 15001 1+1	17792 3500 F.U.	-2.6 .08 7.5	L	O	16:13:41	0:7	7	0	1	MN=	DUFTON-LENNON LB
" 2901	HD152003 23	BOI 7.0 0.5	α 16, 49, 16.5 δ -41, 42, 11 R 80, 37, 28.9	H	SWP 15002 1+2	4954 30 F.O.	-.82 .08 7.2	L	O	17:17:36	90:00	5	0	1	MN=	"
" 2902	"	"	α , , δ " , " , " R , ,	H	LWR 11559 1+3	4861 18 F.O.	-1.4 .08 12.2	L	O	18:52:04	30:00	5	0	2	MN=	"
" 2903	"	"	α , , δ " , " , " R , ,	H	SWP 15003 1+4	4887 12 F.O.	-1.4 .08 7.8	L	O	19:26:13	140:00	7	0	1	MN=	"
" 2904	HD201345 23	BOI 7.7	α 21, 5, 52 δ 33, 11, 40 R 51, 3, 3.1	H	SWP 15004 1+5	2983 4 F.O.	-1.8 .08 8.2	L	O	22:35:15	20:00	5	0	1	MN=	"
" 2905	"	"	α , , δ " , " , " R , ,	H	LWR 11560 1+6	2812 5 F.O.	-1.8 .08 11.8	L	O	22:59:26	13:00	5	0	2	MN= 6185	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 16 M SEP Y 81 RAW TAPE D 16 M SEP

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VD 538	HD149757 12	09.5V 0.8	α 16,34,24 δ -10,28,3 R 84,27,21.8	H	SWP 15009 1+1	2641 368 FU	-1 .08 5.8	L	O	1638:46	00:23	5	0	1	MN=	DOAZAN PP
〃	HD164284 20	B2V 4.8	α 17,57,47.1 δ 4,22,11 R 86,54,26	H	SWP 15010 1+2	436 67 FU	-1.2 .08 6.1	L	O	1728:34	02:10	5	0	1	MN=	〃
〃	HD138749 21	B5V 4.2	α 15,30,54.7 δ 31,31,36 R 105,6,20.7	H	SWP 15011 1+3	646 103 FU	-1.2 .08 6.1	L	O	18:23:35	01:40	5	0	1	MN=	〃
〃	HD162732 22	B8V 6.4	α 17,48,44.7 δ 48,24,25 R 85,48,2.4	H	SWP 15012 1+4	5798 14 FO	-.7 .08 6.1	L	O	19:21:36	25:00	5	0	1	MN=	〃
〃	HD200120 20	B1.5V 4.7	α 20,58,7.4 δ 47,19,30 R 46,40,53.7	H	SWP 15013 1+5	25191 514 FO	-1.2 .08 6.5	L	O	20:33:29	01:10	5	0	1	MN=	〃
〃	〃	〃	α , , δ , , R , ,	H	LWR 11566 1+6	25288 100 FO	-1.3 .08 11.2	L	O	21:04:38	01:20	5	0	2	MN= 514	〃
〃	〃	〃	α , , δ , , R , ,	L	SWP 15014 1+7	26156 475 FO	-1.3 .08 6.8	L O S		21:35:43 / 21:38:48	00:01 / 00:02	5	0	1	MN=	〃
〃	〃	〃	α , , δ , , R , ,	L	LWR 11567 1+8	25606 117 FO	-1.7 .08 11.2	L O S		21:42:50 / 21:46:53	00:01 / 00:02	5	0	2	MN= 359	〃

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DATE 16 SEP 81 RAW TAPE 16 SEP

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VD 538	γ CAS 20	B0IV 2.6	α 0,53,49.3 δ 60,26,47 R 338,31,21.3	H	SWP 15015 1+9	3925 896 FU	-1.9 .08 6.5	L	O	23:06:33	00:07	5	0	1	MN=	DOAZAN PP
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 17 M SEP Y 81 RAW TAPE D 17 M SEP

UK / 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	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
2906 UK 437	HD 152424 13	09 I 7.2	α 16, 51, 31.7 δ -42, 0, 38 R 80, 19, 28.8	H	SWP 15021 1+1	9658 38	-.7 0.08 6.5	L	O	17:06:43	60:00	5	5	1	MN=	DUFTON / I.B.
2907	〃	〃	α ' , ' , " δ ' , ' , " R ' , ' , "	H	LWR 11574 1+2	9662 21	-1.6 0.08 11.5	L	O	18:11:57	15:00	4	0	2	MN=	〃
2908	HD 96622 12	09 IV 8.9	α 11, 4, 53 δ -59, 43, 50 R 350, 17, 4.8	H	SWP 15022 1+3	1013 4	-.6 0.08 6.8	L	O	19:10:21	30:00	4	0	1	MN=	〃
2909	〃	〃	α ' , ' , " δ ' , ' , " R ' , ' , "	H	LWR 11575 1+4	999 5	-.7 0.08 11.8	L	O	20:14:47	25:00	3	0	2	MN=	〃
2910	〃	〃	α ' , ' , " δ ' , ' , " R ' , ' , "	H	SWP 15023 1+5	992 3	-.3 0.08 7.5	L	O	20:56:42	141:00	5	0	1	MN=	〃
			α ' , ' , " δ ' , ' , " R ' , ' , "		1+										MN=	
			α ' , ' , " δ ' , ' , " R ' , ' , "		1+										MN=	
			α ' , ' , " δ ' , ' , " R ' , ' , "		1+										MN=	

DATE 18 SEP 81 RAW TAPE 18 SEP

UK / 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	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
GH506	GAMMA CAS 26	B0e IV 2.8	α 0, 53, 40.3 δ 60, 26, 47 R 340, 6, 51	H	SWP 15034 1+1	3683 480 F.U.	-1.2 .08 6.8	L	O	16:51:55	0:08	5	0	1	MN=	L. BIANCHI / BB
PHCAL	HD 60753 21	B3 IV 6.69	α 7, 32, 8.14 δ -50, 28, 29 R 282, 56, 21	L	LWR 11580 1+2	4615 13/16	-.7 0.08 11.2	L / S	O	18:15:55 / 18:19:50	0:21	5 / 6	0	1	MN=	P. Benvenuti / P.B.
〃	〃	〃	α ' , ' , " δ ' , ' , " R ' , ' , "	L	SWP 15035 1+3	〃	-.7 0.08 6.5	L / S	O	18:24:35 / 18:27:35	0:10 / 0:30	5 / 6	0	1	MN=	〃
PHCAL	NULL		α ' , ' , " δ ' , ' , " R ' , ' , "		LWP 1356 1+4										MN=	〃
〃	HD 60753	B3 IV 6.69	α 7, 32, 8.14 δ -50, 28, 29 R 282, 56, 21	L	LWP 1355 1+5	7600 20	-1.7 0.08 5.1	L / S	O	20:07:00 / 20:11:16	0:06 / 0:18	5 / 6	0	1	MN=	〃
〃	BD+75°325		α 8, 4, 43 δ 75, 6, 48 R 135, 53, 54	L	LWP 1356 1+6	664 1	-.8 0.08 6.5	L / S	O	21:09:24 / 21:16:41	0:20 / 0:60	5 / 6	0	1	MN=	
〃	〃	〃	α ' , ' , " δ ' , ' , " R ' , ' , "	L	LWR 11581 1+7	664 1	-.8 0.08 9.2	L / S	O	21:54:07 / 21:57:50	0:24 / 1:12	5 / 6	0	1	MN=	
〃	〃	〃	α ' , ' , " δ ' , ' , " R ' , ' , "	L	SWP 15036 1+8	664 1	-.4 0.08 6.0	L / S	O	22:27:00 / 22:29:00	0:14 / 0:42	5 / 6	0	1	MN=	

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(ESA) / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCM	M UMA 21	B3V 1.84	α 13, 45, 34 δ 49, 33, 44 R 141, 19, 48.2	H	GWR 11582 1+	511 10 f.u.	-.4 0.08 11.2	L	O	23:08:23	00:06	5	0	1	MN=	P. Benvenuti / P.B.
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+									1	MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 480 2911	HD 53534 26	B0.5V 4.6	α 0h, 53m, 19.8s δ 60°, 26', 47" R 341°, 0', 0.3	H	SWP 15043 1+1	3408 775 f.u.	-1.1 .08 6.8	L	O	16:38:28	0:08	5	0	1	MN=	I. Howarth A.H.
2912	LSI 61 303 59	(B) 10	α 2h, 56m, 41.5s δ 61°, 0', 53" R 314°, 5', 17"	L	SWP 15044 1+2	169 2 f.u.	-0.7 .08 6.8	L	O	17:21:28	90:00	3	3	1	MN=	"
2913	HD 93357.6 10	WR 8	α 20h, 17m, 48.8s δ 38°, 24', 0" R 65°, 0', 20".2	L	SWP 15045 1+3	1967 8 f.u.	-1.3 .08 7.2	L	O	19:26:51	3:00	3	4	1	MN=	"
2914	HD 168206 10	WC+O 9.4	α 18h, 16m, 20.8s δ -11°, 39', 0" R 90°, 4', 12".5	L	SWP 15046 1+4	770 1 f.u.	-1.3 .08 7.2	L	O	20:07:48	20:00	5	5	1	MN=	"
2915	" "	" "	α ' " δ ' " R ' "	L	LWR 11589 1+6	730 2 f.u.	-1.3 .08 11.5	L	O	20:31:31	25:00	7	6	3	HTR warm-up = 4 min MN= 895	"
2916	HD 149757 9A	O9.5Ve 2.6	α 16h, 34m, 24.5s δ -10°, 28', 3" R 85°, 7', 131".5	H	SWP 15047 1+5	2563 377 f.u.	-1.0 .08 7.2	L	O	21:15:47	0:22	5	0	1	MN=	"
2917	HD 177230 10	WR 11.5	α 19h, 1m, 20.5s δ -4°, 23', 31" R 89°, 58', 35".4	L	SWP 15048 1+7	135 3 f.u.	-1.0 .08 6.8	L	O	22:15:31	60:00	4	4	1	MN=	"
			α ' " δ ' " R ' "		1+										MN=	

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DATE D 20 M SEP Y 81 RAW TAPE D 20 M SEP

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	IPES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 402 2918	HD 150484 44	GO 2.4	α 16h 38m 48s δ 00° 35' 09" R 39° 0' 12".0	L	SWP 15060 1+1	1200 1 f.o.	-0.6 .08 6.5	L	0	16:20:44	180:00	3	3	2	MN=	J. PRINGLE B. HASSALL A.H.
4 2919	RU PEG 5.4	~10.5	α 22h 11m 36.5 δ 12° 22' 12". R 61° 46' 5".3	L	LWR 11593 1+2	129 2 f.o.	-1.3 .08 10.8	L 1	0	20:07:33	10:00	6	0	2	5.20fx. sat. MN= 352	
2920	"	"	α ' " h δ ' " R ' "	L	SWP 15061 1+3	125 1 f.o.	-1.4 .08 7.2	L	0	20:22:10	14:00	6	6	1	5.40.fx sat. MN=	
2921	"	"	α ' " h δ ' " R ' "	L	LWR 11594 1+4	123 0 f.o.	-1.1 .08 10.2	L	0	20:52:24	7:00	6	0	2	2fx sat. MN= 503	
2922	"	"	α ' " h δ ' " R ' "	L	SWP 15062 1+5	123 12 f.o.	-1.3 .08 7.2	L	0	21:14:10	10:00	5	5	0	MN=	
GH 506 2923	HD 53 9Y .26	B0e 2.6	α 00h 52m 40s δ 60° 26' 47" R 62° 46' 5".3	H	SWP 15063 1+6	3978 872 f.o.	-0.8 .08 6.5	L	0	22:47:50	0:08	5	0	1	MN=	
" 2924	"	"	α ' " h δ ' " R ' "	H	SWP 15064 1+7	3975 821 f.o.	-0.9 .08 6.5	L	0	23:13:24	0:08	5	0	1	MN=	
			α ' " h δ ' " R ' "		1+										MN=	

OBSERVATORY LOG DATE 21 SEP 81 RAW TAPE 21 SEP

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	IPES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SEQT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HR 579	HR HER 59	A7 1.4	α 16, 56, 1.6 δ 35, 25, 5.03 R 97, 50, 38.3	L	SWP 15070 1+1	B-0	-1.3 .08 5.1	L	0	17:45:57	31:00	1	1	1	MN=	RITTER UB
"	"	"	α ' " h δ " ' " R ' "	L	LWR 11599 1+2	25 B.0 f.o.	-.56 .08 9.8	L	0	18:23:02	176:00	3	0	5	MN=	"
"	"	"	α ' " h δ " ' " R ' "	L	SWP 15071 1+3	B-0	-.8 .08 5.1	L S	0 0	21:22:26 22:38:06	18:00 40:00	3 3	0 0	1	MN=	"
			α ' " h δ ' " R ' "		1+										MN=	
			α ' " h δ ' " R ' "		1+										MN=	
			α ' " h δ ' " R ' "		1+										MN=	
			α ' " h δ ' " R ' "		1+										MN=	
			α ' " h δ ' " R ' "		1+										MN=	

OBSERVATORY LOG

DATE D 22 M SEP Y 81 RAW TAPE D 22 M SEP

ESR / UK NO. / PROPOSAL	OBJECT / TYPE / PHASE	SP.TYPE / m_v / B(B-V)	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	PES CTS / ref. p. / slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
AH 550	V 348 SGR	—	α 18h 37m 18.2	L	SWP	145	-2.0	L	O	16:35:04	40:00	3	0	1		A. HECK
52		12.6	δ -22° 57' 19.4		15077	6	.08									A.H.
			R 93° 39' 39.9		1+1	5.0	7.2								MN=	
"	"	"	α / /	L	LWR	171	-1.2	L	O	17:18:54	40:00	4	0	3		"
			δ " "		11604	6	.08									
			R		1+2	5.0	11.8								MN= 205	
VK 402	UZ SER	—	α 18h 08m 35.4	L	SWP	136	-1.2	L	O	18:41:43	40:00	5	5	1		J. PRINGLE
2925	54	12.8	δ -14° 56' 17"		15078	2	.08									B. HASSALL
			R 90° 25' 56.7		1+3	5.0	22								MN=	A.H.
"	"	"	α / /	L	LWR	144	-1.6	L	O	19:22:38	35:00	5	?	3		"
2926			δ " "		11605	4	.08									
			R		1+4	5.0	12.2						!		MN= 451	
"	RV PEG	—	α 22h 11m 36.1	L	SWP	299	-1.6	L	O	20:43:22	15:00	4	5	1		"
2927	54	11.8	δ 12° 27' 12"		15079	23	.08									
			R 66° 1' 46.5		1+5	5.0	7.2								MN=	
"	"	"	α / /	L	LWR	278	-1.5	L	O	21:01:29	10:00	4	5	2		"
2928			δ " "		11606	1	.08									
			R		1+6	5.0	12.5								MN= 453	
"	HD 155917	—	α 17h 11m 43.2	L	LWR	1454	-0.8	L	O	22:01:04	40:00	7	6	4		"
2929	41	8.5	δ 16° 24' 28"		11607	3/155	.08	S	O	22:45:50	20:00	5	5			
			R 93° 1' 18.4		1+7	5.0	12.5								MN= 279	
			α / /													
			δ / /													
			R / /		1+										MN=	

OBSERVATORY LOG

DATE D M Y RAW TAPE D M

PROPOSAL	OBJECT / TYPE / PHASE	SP.TYPE / m_v / B(B-V)	RIGHT ASCENSION / DECLINATION / ROLL ANGLE	RESOL.	CAMERA / IMAGE NO. / RAW T. FILE	PES CTS / ref. p. / slot / undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
	September		α / /		1+23		to				27				Inclusive	
			δ / /													
			R / /		1+										MN=	
	no observing		α / /				because								of	
			δ / /													
			R / /		1+										MN=	
			α / /													
			δ / /		1+										MN=	
			R / /													
			α / /													
			δ / /		1+										MN=	
			R / /													
			α / /													
			δ / /		1+										MN=	
			R / /													
			α / /													
			δ / /		1+										MN=	
			R / /													

OBSERVATORY LOG

DATE D 28 M SEP Y 81 RAW TAPE D 28 M SEP

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B-V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 473 2930	LSI+61303 27	B pec 10.8	α 2,36,41 δ 61,0,53 R 321,5,57	L	SWP 15118 1+1	155 2 OF	-1.9 0.08 8.2	L	O	16:50:14	90:0	3	3	2	C IV 94 B=25 C=115 MN=0	HOWARTH A. CASSATELLA
2931	"	"	α , , δ , , R , ,	L	LWR 11635 1+2	152 1 OF	-1.00 0.08 12.8	L	O	18:24:02	45:0	6	0	2	C=255 (Hpinsdot) B= MN= 4 much warmer ipf 0	
2932	HD 5394 26	Be 2.6	α 0,53,40 δ 60,26,47 R 349,48,30	H	SWP 15119 1+3	3619 661 UF	-1.0 0.08 8.2	L	O	19:27:24	0:8	5	0	2	C=208 B=23 MN= 0	
2933	HZ Her 59	Xray 13.5	α 16,56,2 δ 35,25,5 R 104,2,47	L	LWR 11636 1+4	39 0	-0.9 0.08 13.5	L	O	20:44:31	30:0	3	0	2	C=81 B=30 MN= 767	
2934	"	Xray/Sn 13.5	α , , δ , , R , ,	L	SWP 15120 1+5	"	-0.9 0.08 8.2	L	O	21:21:42	45:0	2	0	2	C(λ>1800) 44 DN B=24 MN=	
			α , , δ , , R , ,												MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 29 M SEP Y 81 RAW TAPE D 29 M SEP

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B-V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
SL 542	NGC2403-VS44 80	HII reg. —	α 7,32,20.1 δ 65,43,17.1 R 252,53,24	L	SWP 15126 1+1	b.o.	-1.25 0.08 7.8	L	O	17:03:06	165:0	3	5	2	C=67 (λ<1650) C=64 (λ>1650) C IV 1909 : 200 DN B=41 MN= V EXTENDED	DEHARVENG JOUBERT A. C.
"	N6822-HV 80	HII reg —	α 19,42,2.5 δ -15,50,28 R 97,46,11.8	L	SWP 15127 1+2	b.o.	-1.4 0.08 7.8	L	O	21:03:15	134:0	2	0	2	C=48 ; B=33 MN= 0	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 30 SEP 81 RAW TAPE 30 SEP

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK473 2935	HD168206 59	Xray 9.4	α 18,16,20 δ -11,39,0 R 92,14,34.5	L	SWP 15136 1+1	764 2 OF	-1.36 0.08 7.2	L	O	16:36:19	20:0	5	5	1	C = 177 E = 201 B = 18 MN= 0	HOWARTH AC
2936	" "	"	α " " δ " " R " "	L	LWR 11645 1+2	/	-1.3 0.08 11.8	L	O	17:00:14	12:0	7	0	1	61 pix out MN= 455	
2937	HD149757 26	09.5V	α 16,34,24 δ -10,38,3 R 87,36,15.4	H	SWP 15137 1+3	2539 545 UF	-1.0 0.08 7.2	L	O	17:46:35	0:23	5	0	1	C = 213 B = 24 MN= 0	
2938	HD197406 26	WR 10.5	α 20,39,54 δ 52,25,0 R 63,56,16	L	SWP 15138 1+4	248 1 OF	-1.3 0.08 7.5	L	O	18:26:02	40:0	4	4	1	C = 124 HeII: 167 B = 24 MN= 0	
2939	HF5394 14	Be 2.6	α 5,53,40 δ 60,26,47 R 351 51,42	H	SWP 15139 1+5	2660 567 UF	-0.6 0.08 7.5	L	O	19:55:12	0:8	5	0	1	C = 213 B = 22 MN= 0	
2940	LSI+61303 59	Xray 10.8	α 2,36,41 δ 61,0,53 R 322,53,38	L	LWR 11646 1+6	156 5 OF	-0.6 0.08 12	L	O	20:16:26	40:0	5	0	1	4 min warm up 1 pix sat MN= 0	
2941	" "	"	α " " δ " " R " "	L	SWP 15140 1+7	159 5 OF	0.52 0.08 10.2	L	O	21:02:41	94:0	3	3	2	C = 111 E = 96 B = 26 MN= 0	
			α " " δ " " R " "		1+										MN=	

OBSERVATORY LOG

DATE 1 OCT 81 RAW TAPE 1 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK487 2942	HD 224085 47 -	K2IVe 7.4	α 23,52,26 δ +28,22,45 R 20,37,3.5	H	LWR 11652 1+1	2716 11 F/O	-3.6 0.63 12.8	L	O	15:17:14	25:0	2	3	2	4-MIN HTR-WM-UP MN= 858	D. ANDREWS JCB
" 2943	HD 224085 "	"	α " δ " R "	L	SWP 15147 1+2	/ 9 F/O	-3.1 .08 7.2	L	O	15:46:15	100:0	2	6	1	CIV saturated. MN=	"
" 2944	HD 214479 48	M3e 11.5	α 22,36,01 δ -20,52,48 R 127,34,30	L L	SWP 15148 1+3	115.4 13 F/O	-.8 .08 9.2	L' L"	O O	18:39:27 19:15:59	30:0 30:0	1	1	0	FESPNT 115.4 F/O ° MOD REF POSN. L': -40, -202 L": +8, -24 MN=	"
" 2945	"	"	α " δ " R "	L	LWR 11653 1+4	116 / F/O	-1.7 .08 12.2	L	O	19:56:37	20:06	1	3	2	FESPNT 116 F/O MgII emission only detected at ~60 DN above bkgd. 4 MIN HTR WM UP MN=	"
" 2946	"	"	α " δ " R "	L	SWP 15149 1+5	105 4 F/O	-1.8 .08 10.8	L	O	20:31:58	46:00	1	1	0	FESPNT 105 : F/O MN=	"
			α " δ " R "		1+										MN=	
			α " δ " R "		1+										MN=	
			α " δ " R "		1+										MN=	

OBSERVATORY LOG

DATE D 2 M OCT Y 81 RAW TAPE D 2 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.#	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
MR 531	HD 210334 46	95+KoIV 6.1	α 22, 06, 39.4 δ +45, 29, 46 R 48, 14, 40.9	H	LWR 11662 1+1	9195 13 FO	-2.4 .82 12.8	L	O	14:36:31	30:00	3	3	3	HTR-WARM-UP: 4m MN=	ANDREWS PP
〃	〃	〃	α 〃 δ 〃 R 〃	L	SWP 15155 1+2	9071 32 FO	-2.2 .6 17.5	L	O	15:10:13	100:00	4	4	1	MN=	〃
〃	HD 234677 46	K6 IIe 8.2	α 18, 32, 45.0 δ 51, 41, 00 R 92, 14, 41	L	LWR 11663 1+3	1524 6 FO	-1.5 .08 12.5	L	O	17:16:11	5:00	3	4	2	HTR WARM-UP: 4m MN=	〃
〃	〃	〃	α 〃 δ 〃 R 〃	L	SWP 15156 1+4	1660 3 FO	-1.1 .08 8.2	L	O	17:37:41	60:00	1	5	1	MN=	〃
〃	〃	〃	α 〃 δ 〃 R 〃	L	LWR 11664 1+5	1659 2 FO	-1.1 .08 12.5	L	O	18:40:42	5:00	3	4	3	HTR WARM-UP: 4m MN=	〃
〃	〃	〃	α 〃 δ 〃 R 〃	L	SWP 15157 1+6	1649 4 FO	-1.1 .08 8.2	L	O	18:07:13	60:00	2	2	1	MN=	〃
〃	HD 22468 44	G5 6.0	α 3, 34, 13.1 δ 0, 25, 28 R 265, 20, 24.6	H	LWR 11665 1+7	12192 100 FO	-1.1 .08 12.2	L	O	21:26:14	45:00	3	5	3	HTR WARM-UP: 4m MN=	〃
〃	〃	〃	α 〃 δ 〃 R 〃	L	SWP 15158 1+	11945 301 FO	-1.5 .08 8.2	L	O	21:38:42	45:00	3	6	0	READ AT GSFC MN=	〃

OBSERVATORY LOG

DATE D 3 M OCT Y 81 RAW TAPE D 3 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.#	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 487 2947	HD 210334 46	95+KoIV 6.1	α 22, 6, 39.4 δ 45, 29, 46 R 49, 28, 46.6	H	LWR 11672 1+1	9627 15 FO	-2. .2 11.8	L	O	15:12:59	60:00	3	5	4	HTR WARM-UP: 4m MN= 807	ANDREWS PP
〃 2948	〃	〃	α 〃 δ 〃 R 〃	L	SWP 15165 1+2	9669 20 FO	-1.1 .08 6.5	L	O	16:17:43	60:00	4	4	0	MN=	〃
〃 2649	HD 224085 46	K2e 7.4	α 23, 52, 26 δ 28, 22, 45 R 25, 19, 25.9	H	LWR 11673 1+3	3289 5 FO	-1.1 .08 12.2	L	O	18:03:21	35:00	3	3	3	HTR WARM-UP: 4m MN=	〃
〃 2650	〃	〃	α 〃 δ 〃 R 〃	L	SWP 15166 1+4	3254 10 FO	-1.5 .08 8.8	L	O	18:44:33	100:00	2	5	1	MN=	〃
〃 2651	HD 22468 44	G5+K1 6.0	α 3, 34, 13 δ 0, 25, 28 R 264, 42, 43.8	H	LWR 11674 1+5	11430 69 FO	-2.2 .08 13.2	L	O	21:27:04	15:00	2	5	3	HTR WARM-UP: 4m MN= 711	〃
〃	〃	〃	α 〃 δ 〃 R 〃	L	SWP 15167 1+	11632 194 FO	-2.2 .08 10.8	L	O	21:45:15	25:00	3	5	0	READ AT GSFC MN=	〃
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 4 OCT 81 RAW TAPE 4 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	IUE CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 487 2652	HD 22468 44	G5+K1 6.0	α 3,34,13 δ 0,25,28 R 264,16,3.6	L	SWP 15173 1+1	11978 386 FO	-2.3 .88 8.8	L	O	11:14:10	35:00	3	5	0	MN=	ANDRELOS PP
2653			α , , δ , , R , ,	H	LWR 11683 1+2	12277 60 FO	-2.6 .22 13.2	L	O	14:53:04	15:00	3	5	3	HTR WARM-UP: 4 min MN=	
2654	HD224085 46	K2e 7.4	α 23,52,26 δ 28,22,45 R 27,18,33.4	L	SWP 15174 1+3	3150 19 FO	-2.0 .08 8.2	L	O	16:21:04	80:00	3	3	1	MN=	
2655			α , , δ , , R , ,	H	LWR 11684 1+4	3041 2 FO	-3. .08 13.5	L	O	17:44:07	35:00	3	4	3	HTR WARM-UP = 6 min ARCHIVED TWICE MN=	
2656	GL735 48	M3e 10.1	α 18,53,03 δ 8,20,18 R 93,51,26.4	L	SWP 15175 1+7	372/379 1/4 FO	-2.0 .08 8.2	L	O	19:05:37 19:46:15	30:00 30:00	0	0	1	2 exposures: 1. ref.p. = -40, -202 2. " " = 8, -214 ARCHIVED TWICE MN=	NO SPECTRUM
2657			α , , δ , , R , ,	L	LWR 11685 1+8	384 2 FO	-1.3 .08 13.5	L	O	20:19:48	20:00	3	4	3	HTR WARM-UP = 4 min MN=	
2658			α , , δ , , R , ,	L	SWP 15176 1+9	330 4 FO	-1.7 .08 8.8	L	O	20:57:51	49:00	0	0	1	NO SPECTRUM MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 5 OCT 81 RAW TAPE 5 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	IUE CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 473 2659	LSI+61 303 59	Bp 10.8	α 2,36,41 δ 61,0,53 R 337,0,17.3	L	SWP 15184 1+1	175 29 OF	-0.97 0.9 9.5	L	O	14:47:48	90:0	3	3	2	C = 129 E = 105 (CIV) B = 31 MN= 6	HOWARTH AC
2660			α , , δ , , R , ,	L	LWR 11692 1+2	164 3 OF	-0.97 0.08 13.5	L	O	16:21:00	40:0	6	5	1	4 min warm up C = 255 (1pix mot) E = 234 B = 30 MN= ∅	
2661	HD 5394 26	Be 1.6	α 0,53,40 δ 60,26,47 R 357,3,5.3	H	SWP 15185 1+3	3464 400 UF	-0.97 0.08 9.2	L	O	17:22:31	0:8	5	0	1	C = 332 B = 24 MN= ∅	
2662	H 2252-035 59	X ray 13.2	α 22,52,43 δ -3,28,40 R 106,12,34.4	L	SWP 15186 1+4	66 4 OS	-1.4 0.08 10.2	L	O	18:46:04	29:0	3	3	1	GOE (792, -1328) C(λ>1700) = 77 E = 110 B = 16 MN= ∅	
2263			α , , δ , , R , ,	L	LWR 11693 1+5	72 4 OS	-1.9 0.08 14.2	L	O	19:26:09	20:0	4	0	1	GOE 589 - 1189) C = 150 B = 28 MN= ∅	4 min warm up
2264			α , , δ , , R , ,	L	SWP 15187 1+6	68 5 OS	-2.0 0.08 11.5	L	O	19:56:03	24:0	3	3	1	C = 69 E = 80 B = 20 MN= ∅	
2265			α , , δ , , R , ,	L	LWR 11694 1+7	56 2 OS	-2.1 0.08 14.8	L	O	20:28:17	20:0	4	0	1	C = 129 B = 30 MN= ∅	4 min. warm up
2266			α , , δ , , R , ,	L	SWP 15188 1+8	58 1 OS	-2.2 0.08 12.5	L	O	20:59:21	26:0	3	3	1	C = 70 B = 17 MN= 6	

OBSERVATORY LOG

DATE D 5 M OCT Y 81 RAW TAPE D 5 M OCT

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 473 2267	42252-035 59	X ray 13.2	α 22,52,43 δ −3,28,40 R 106,12,34.4	L	LWR 11695 1+9	67 3 05	-1.8 0.08 155	L		0:21:30:27	16:0	3	0	1	C=123 B=18 MN=6	Howarth AC
			α δ R		1+			/							MN=	
			α δ R		1+										MN=	
			α δ R		1+								!		MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FS 592	HD221170 47	K0III 7.7	α 23,27,0.5 δ +30,9,28 R 40,52,39	L	LWR 11702 1+1	2718 7 0F	-2.0 0.60 13.5	L	O	15:10:50	30:0	S	0	1	C=248 B=29 MN=195	SPITE PERRIN AC
"	HD165195 47	K0 7.3	α 18,2,10.8 δ 3,46,34 R 95,54,51.4	L	LWR 11703 1+2	3731 5 0F	-0.7 0.10 13.8	L /	O	16:21:54	50:0	5	0	1	C=185 (Nucleophelia on Mg II) B=29 MN=511	
"	HD187111 47	K 7.7	α 19,45,53 δ −12,14,49 R	L	LWR 11704 1+3	2557 5 0F	-1.4 0.08 14.5	L	O	17:55:04	50:0	S	0	2	C=214 B=30 MN=0	
"	HD85773 47	K 9.41	α 9,51,20.4 δ −22,35,55 R 285,29,40	L	LWR 11705 1+4	552 1 0F	-1.8 0.08 14.5	L	O	19:40:14	129:0	4	0	2	C=177 B=42 MN=0	
			α δ R		1+								!		MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

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DATE D 7 M OCT Y 81 RAW TAPE D 7 M OCT

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK410 2268	HD 73882 12	08V 7.19 0.72	α 8,37,19.5 δ -40,14,32 R , ,	L	SWP 15199 1+1	4174 284/13 OF	-1.5 0.1 8.8	L S	O	15:02:09 15 06 51	1:30 2:00	5 5	0 0	1	C = 202 B = 13 C = 166 MN= 0	SOMERVILLE A.C.
2269			α , , δ , , R , ,	H	LWR 11718 1+2	4233 14 OF	-1.1 .08 14.2	L	O	15 12 17	34:0	5	0	2	C = 218 B = 41 MN= 0	
2270			α , , δ , , R , ,	L	LWR 11719 1+3	4230 284/14 OF	-1.1 0.08 14.5	L S	O	16:18:00 16:23:12	1:30 1:0	6 5	0	1	MN= yes	
2271	HD 92964 2.3	B2.5Ia 5.42 0.4	α 10,40,44.2 δ -58,57,12 R 321,17,48.7	H	LWR 11720 1+4	18163 214 OF	-1.0 0.08 14.5	L	O	17:06:46	4:40	4	0	1	C = 164 B = 25 MN= 275	
2272	HD 50064 25	B6Ia 8.21 0.8	α 6,49,0 δ 0,21,27 R 264,30,56	L	LWR 11721 1+5	1905 16/14 OF	-0.9 0.08 14.5	L L	O	18 06 15 19 11 20	60:0 7:30	8 6	0 0	2	RP(-40,-202) two exposure in the LAP RP(8,-214) MN=	
2273			α , , δ , , R , ,	L	SWP 15200 1+6	1818 4 OF	-1.2 0.08 8.8	L	O	19 22 32	50:00	5	0	1	C = 254 B = 18 MN=	
2274			α , , δ , , R , ,	L	LWR 11722 1+7	1735 4 OF	-1.2 0.08 14.8	L	O	20 22 54	4.0	5	0	1	C = 243 B = 24 MN= 59.9	
2275	HD85871 20	B1V 6.48	α 9,51,17.4 δ -55,8,13 R , ,	H	LWR 11723 1+8	8875 24 OF	-1.3 0.08 14.8	L	O	21:19:48	4:50	5	0	2	C = 216 B = 35 MN= 455	

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ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK410 2276	HD85871 20	B1V 6.48	α 9,51,17.4 δ -55,8,13 R 306,27,47.2	H	SWP 15201 1+9	8781 25 OF	-1.6 0.08 9.5	L	O	21 37 38	8:30	√	0	1	C = 203 B = 25 MN= 0	SOMERVILLE A.C.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
GH506	HD 5394 26 (χ Cas)	Be -2.6	α 0,53,41 δ 60,26,47 R 0,11,47.7	H	SWP 15206 1+1	3655 426 UF	-2.4 0.2 8-5	L	O	14:32:48	0:8	5	0	1	C=203 B=24 MN=6	HAMMERSCHLAG AC
"	HD 149757 12 (ζ Oph)	O9.5V 2.6	α 16,34,24 δ -10,28,03 R 89,43,44.6	H	SWP 15207 1+2	2553 370 UF	-1.0 0.08 8.8	L	O	15:23:08	0:23	5	0	1	MN= 0	
"	"	"	α δ R	H	LWR 11728 1+4			L	O	15:38:03	0.14	5	0	1	MN= 221	
"	HD164794 17	O4V 5.97	α 18,0,48 δ -24,21,49 R 89,50,17.5	H	SWP 15208 1+7	13261 51 OF	-0.4 0.08 8.8	L	O	16:17:34	4:30	5	0	1	line missing at Y=600 MN=	
AH 550	V 348 Sgr 52	12.3	α 18,37,18.2 δ -22,57,19.4 R 93,43,8.4	L	SWP 15209 1+3	192 6 05	-0.7 0.08 8.8	L	O	17:21:53	110:0	4	0	1	GDE(1230,297) 158 CTS OF C=134 B=32 MN=	HECK AC
PHCAL	RR Tel 57	Symb 10.5	α 20,00,20.1 δ -55,52,4 R , ,	H	SWP 15210 1+5	477 24 05	-1.1 0.08 9.8	S	O	20:21:03	87:0	1	7	1	GDE(686-901)(72 FC MN= 0	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	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.	FL. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK410 2277	HD180968 20	B1 IV 5.42 0.28	α 19,15,36.5 δ 22,56,03 R 94,1,34.7	H	LWR 11732 1+1	18852 65 OF	0.3 0.08 11.8	L	O	14:24:43	3:0	4	0	1	C=170 B=33 MN=577	SOMERVILLE AC
2278	"	"	α δ R	H	SWP 15214 1+2	4	0.3 0.08 6-8	L	O	14:32:11	7:30	5	0	1	C=214 B=24 MN=0	
22+9	"	"	α δ R	L	LWR 11733 1+3	19005 109/57 OF	-2.2 0.08 11.8	L S	O	15:12:42 15:18:15	0:6 0:6	7 5	0 0	1	170pix sat B=26 C=240 MN=379	
2280	"	"	α δ R	L	SWP 15215 1+4	4	-1.2 0.08 6.8	L	O	15:58:15	0:4.5	5	0	0 1	C=212 B=15 MN=0	
2281	HD211924	B5 IV 5.36 0.16	α 22,17,56.6 δ 5,32,14 R 93,5,60	L	SWP 15216 1+5	20590 180/60 OF	-1.3 0.08 6.8	L S	O	16:52:55 16 5749	0:7 0:9	5 4	0 0	0	C=194 B=15 C=146 MN=0	
2282	"	"	α δ R	L	LWR 11734 1+6	20153 170/60 OF	-0.9 0.08 11.8	L S	O	17:23:27 17:26:42	0:8 0:8	7 5	0 0	1	78 pix sat C=187 below 2600A B=24 C=242 MN= yes	
2283	"	"	α δ R	H	SWP 15217 1+7	20962 113 OF	-0.5 0.08 7.2	L	O	17:30:23	11:0	5	0	1	C=235 B=23 MN=0	
2284	BD+2°3771 20	B0 IV 9.21 0.93	α 19,1,39.3 δ 3,1,18 R 96,13,15.3	L	LWR 11735 1+8	685 10 OF	-1.8 0.08 12.5	L	O	18:40:10	6:30	5	0	1	C=251 B=25 MN=525	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.d	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK410 2285	BD+2 3771 20	B0IV 9.21 0.93	α 19, 1, 39.3 δ 3, 1, 18 R 96, 13, 15.3	L	SWP 15218 1+01	682 5 OF	-1.8 0.08 8.8	L	O	18 51 31	35:0	S	0	1	C=200 B=22 MN= 0	SOMERVILLE CASSATELLA
2286	HD 152408 13	O8Iaf 5.77	α 16, 51, 29 δ -41, 4, 15 R 72, 45, 12	H	LWR 11736 1+10	14646 27 OF	-1.4 0.08 12.5	L	O	20:19:31	5:0	S	0	1	C=160 B=35 MN= 599	"
2287			α , , δ , , R , ,	H	SWP 15219 1+11	14262 39 OF	-1.4 0.08 8.5	L	O	202919	15:0	7	0	1	C=229 (λ<1500) B=24 MN=	"
2988	"		α , , δ , , R , ,	L	LWR 11737 1+12		-1.4 0.08 12.8	L S	O	21:30:29 21:34:00	0:11 0:9	7	0	1	C=230 (λ<2400) MN=393	"
2989			α , , δ , , R , ,	L	SWP 15220 1+13	14557 20 OF	-1.4 0.08 8.5	L	O	21:3948	0:8	S	0	1	C=224 B=29 MN= 0	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	TES CTS ref. p. slot undov/f.d	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
4H506	HD24534 14	O9.5e 6.1	α 3, 52, 15 δ 30, 54, 1 R 292, 22, 42.4	H	SWP 15226 1+1	7429 24 OF	-0.8 0.4 11.2	L	O	14 54 19	20:0	S	0	1	C=192 B=24 MN= 0	HAKKERSCHLAG CASSATELLA
"	HD 53974 20	B0.5IIe 2.6	α 0, 53, 41 δ 60, 26, 47 R 2, 32, 20	H	SWP 15227 1+2	3664 740 UF	-2.0 0.08 11.2	L	O	16 06 29	0:8	S	0	1	C=213 B=23 MN= 0	"
"	HD149757 12	O9.5Ve 2.6	α 16, 34, 24 δ -10, 28, 3 R 90, 21, 5.2	H	SWP 15228 1+3	2609 593 UF	-2.0 0.08 10.5	L	O	16 49 13	0:23	S	0	1	C=213 B=23 MN= 0	"
PHCAL	RR TEL 57	Pec 10.5	α 20, 0, 20.1 δ -55, 52, 4 R , ,	H	LWR 11744 1+4	474 34 OF	-1.4 0.08 14.8	S	O	173332	120:0		7	1	GDE(43,59) 1930F warm up 4 min GDE(501-739) 2120 overlap MN=	CASSATELLA
"			α , , δ , , R , ,	H	SWP 15229 1+5	462 2 OF	-0.84 0.08 9.2	L	O	19 36 50	44:0		7	1	MN= 0	"
"			α , , δ , , R , ,	H	LWR 11745 1+6	460 0 OF	-0.86 0.08 15.2	L	O	202412	60:0		7	1	MN= yes	"
"	WAVCAL	/	α , , δ , , R , ,	H	SWP 15230 1+7	/	/	S	C	213000	0:15	0	7	1	FLOOD=5 CALWL=15 MN= 0	"
			α , , δ , , R , ,		1+										MN=	

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ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	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
UK CAL 2990	τ Sco .20 —	Bov 2·84	α 16, 32, 46 δ -28, 06, 51 R 76, 51, 54	H	SWP 15237 1+2	2414 234 F/U	-.6 ·14 9·8	L	O	14:50:33	000:06	5	ϕ	1	MN=	Blades JCB
2991	"	"	α , , δ " R , ,	H	LWR 11753 1+1	2304 ·430 F/U	-.6 ·08 4·8	L	O	14:54:53	000:06	5	ϕ	2	microphonics have no impact on image MN= 177	Blades JCB
2992	NULL	/	α , , δ " R , ,	/	LWP 1357 1+3	/	/	/	/	/	/	ϕ	ϕ	ϕ	NULL MN=	"
2993	τ Sco .20 —	"	α , , δ " R , ,	H	LWP 1358 1+4	292 F/U	-1.5 ·08 8.8	L	O	16:16:09	000:06	5	ϕ	2 1	MN=	"
2994	BD+33 2642 .20 —	B2 IV 10.83 —	α 15, 58, 01 δ +33, 05, 28 R 128, 4, 27	L	LWP 1359 1+5	200 1 in large 10 in small P/O	-1.9 ·08 9.8	L S	O	17:25:43 17:33:58	003:10 009:30	6 8	ϕ ϕ	2 2	MN=	"
2995	"	"	α , , δ " R , ,	L	LWP 1360 1+6	184 ϕ in large 9 in small P/O	-1.8 ·1 10.5	L S	O	18:17:40 18:21:51	001:00 004:00	4 5	ϕ ϕ	1 1	MN=	"
2996	WAV CAL	—	α , , δ " R , ,	L	LWP 1361 1+7	/	-1.3 ·08 10.8	L	O	18:55:54	000:01	ϕ	8	3	25 sec T FLOOD + 1 sec T CAL. MN=	"
2997	BD+33 2642 .20 —	B2 IV 10.83 —	α , , δ " R , ,	L	SWP 15238 1+8	180 2 in large 12 in small F/O	-1.3 ·08 10.2	L S	O	19:04:15 19:11:39	004:00 012:00	5 5	ϕ ϕ	1 1	MN=	"

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	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
UK CAL 2998	BD +33 2642 .20 —	B2 IV 10.83	α , , δ " R , ,	L	LWR 11754 1+9	193 3 in large F/O	-.9 ·08 12.8	L S	O	20:15:12 20:21:43	003:10 009:30	5 5	ϕ ϕ	2 2	MN=	Blades JCB
UK CAL 2999	+75 325 16	sd O 9.5	α 08, 04, 43 δ +75, 06, 48 R 259, 08, 28	L	LWR 11755 1+11	240 1 F/O	-1.2 ·08 14.5	L S	O	21:30:46 21:34:13	000:24 001:12	5 5	ϕ ϕ	2 2	microphonics no impact on image MN= 412	"
UK CAL 3000	"	"	α " δ " R , ,	L	SWP 15239 1+10	- 1 F/O	-1.2 ·08 10.5	L S	O	21:37:09 21:40:54	000:14 000:42	3 4	ϕ ϕ	ϕ ϕ	MN=	"
			α , , δ " R , ,		1+										MN=	
			α , , δ " R , ,		1+										MN=	
			α , , δ " R , ,		1+										MN=	
			α , , δ " R , ,		1+										MN=	
			α , , δ " R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	IDS CTS ref. p. slot undev/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
GLOBC	NGC 1466 83	GLCL 11.59	α 3, 44, 36 δ -71, 45, 00 R 218, 50, 9.5	L	SWP 15243 1+	99 28 S/O	-2.1 .72 7.5	L	O	14:40:19	400:00	1	1	X	High bkg due to FPM very high MN=	L. BIANCHI / LB
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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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	IDS CTS ref. p. slot undev/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
UK475 3001	H 22 52-035 59	B? 13.2	α 22, 52, 43.1 δ -3, 26, 40 R 107, 48, 40.1	L	SWP 15250 1+1	101 39 S.O.	-3.7 .84 8.5	L	O	15:15:16	17:00	3	0	1	MN=	P. BARR / LB
" 3002	"	"	α , , δ " , " , " R , ,	L	LWR 11769 1+2	104 28 S.O.	-3.8 .74 13.2	L	O	15:35:45	17:00	3	0	3	READ WITH 4 MIN WARM-UP MN= 745	"
" 3003	HZ HER 59	A+F 13.0	α 16, 56, 2.0 δ 35, 25, 5 R 117, 52, 25.4	L	SWP 15251 1+4	70 18 S.O.	-1.2 .76 8.5	L	O	16:56:44	40:00	3	0	1	MN=	"
" 3004	HD 138749 59	B5e 4.2	α 15, 30, 54.7 δ 31, 31, 36 R 134, 7, 47.8	H	SWP 15252 1+5	608 130 F.O.	-1.8 .84 9.2	L	O	18:17:33	2:00	5	0	1	MN=	"
" 3005	HD 200120 59	B1e 4.7	α 20, 58, 7.4 δ 47, 19, 30 R 75, 32, 3.7	H	SWP 15253 1+6	24970 159 F.O.	-1.3 .64 9.2	L	O	18:58:13	1:10	5	0	1	MN=	"
" 3006	"	"	α , , δ " , " , " R , ,	L	LWR 11770 1+7	24000 111 F.O.	-1.4 .64 15.2	L	O	19:01:54	0:1	5	0	2	READ WITH 4 MIN WARM-UP MN=	"
" 3007	HD 5394 59	B0e 2.6	α 00, 53, 40.3 δ 60, 26, 47 R 6, 12, 21.7	H	SWP 15257 1+8	3763 500 F.O.	-.61 .72 9.2	L	O	19:51:16	0:8	5	0	1	MN=	"
" 3008	HD 41335 59	B1e 5.2	α 6, 1, 47.6 δ -6, 42, 19 R 259, 44, 40.6	H	SWP 15255 1+9	253 55 F.O.	-1.5 .82 9.2	L	O	20:42:49	1:50	4	0	1	MN=	"

OBSERVATORY LOG

DATE 13 OCT 81 -2 RAW TAPE 13 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 475 3009	ESO 141-G55 84	SEYFERT 13.6	α 19, 16, 57 δ -58, 45, 52 R 94, 44, 13.5	L	SWP 15256 1+10	78 19 B.O	-1.4 .92 9.2	L	O	21:39:46	8:0	2	3		MN=	P. BARR VB
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 14 OCT 81 RAW TAPE 14 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mmm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 484 3010	HD 82901 51 0.43	Me 7 -	α 09, 30, 59.2 δ -62, 34, 01 R 297, 5, 54.5	L	LWR 11778 1+1	3413 16 F/O	-1.9 Φ.22 9.8	L S	O	14:32:27 15:36:19	060:00 008:00	4 2	3 3	3 3	HGII em saturated 4-MIN-HTR-WARM UP MN= Φ	KELLY JCBlades
3011	—"—	—"—	α δ R	L	SWP 15265 1+3	9 F/O	-1.6 Φ.5 14.8	L L	O O	15:47:38 16:56:56	30:00 30:00	1	1	0	spectra deliberately superimposed. TOTAL TIME = 60 min MN=	—"—
3012	—"—	—"—	α δ R	H	LWR 11779 1+2	3500 12 F/O	-1.4 Φ.42 9.5	L	O	16:23:24	30:00	1	3	3	4-MIN-HTR-WM-UP. MN= Φ	—"—
3013	HD 88366 51 0.52	Me 8 -	α 10, 07, 46.2 δ -61, 18, 14 R 305, 35, 7.8	L	LWR 11780 1+4	3800 10 F/O	-1.5 Φ.4 9.8	L S	O	17:54:33 17:23:50	Φ90:00 Φ15:00	3 1	3 3	4 4	HGII em Sat. 4-MIN-HTR-WM-UP MN= Φ	—"—
3014	—"—	—"—	α δ R	H	LWR 11781 1+5	8 F/O	-1.6 Φ.Φ8 15.9	L	O	20:18:Φ8	Φ 85:00	1	2	4	4 MIN HTR WM UP MN= Φ	—"—
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

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

(ESA) / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B-V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
RK 52 C	NGC 1360 70	11.3	α 3h 31m 12s δ -26° 1' 0" R 247° 6' 50.4	H	LWR 11784 1+1	12.6 1/6 F.O.	-2.0/3 .08 14.5	L	O	14:31:11 15:08:08	30:00 + 30:00	3	6	3	4 min warming MN=	HAHANN A.H.
RK 511	BD-5°2317.9 16 (Tange 110)	11.8	α 23h 17m 23.5 δ -5° 26' 22" R 114° 11' 57.0	H	SWP 15270 1+2	335 5 F.O.	-1.1 .08 9.0	L	O	16:46:56	888:00	5	0	2	MN=	"
"	"	"	α δ R	L	LWR 11785 1+3	308 1 F.O	-0.9 .08 13.5	L	O	21:08:00	3:40	4	0	2	4 min warming MN=	"
			α δ R		1+								1		MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 16 M OCT Y 81 RAW TAPE D 16 M OCT

(ESA) / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B-V	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
RK 511	BD+39 3266 28	SdO 9.4	α 17, 44, 52 δ 39, 20, 12 R 113, 00, 21.5	H	LWR 11789 1+1	348 0 FO	-1.4 .30 11.8	L	O	14:31:40	84:00	5	0	4	GDE(-1268, -838 7473 FO) MN= 258	HAHANN cc.
"	"	"	α δ R	H	SWP 15275 1+2	359 0 FO	-.2 .08 6.5	L	O	15:59:37	60:00	5	0	1	GDE(-1069, -978 7229 FO) MN=	"
RK 523	HD 12993 12	O8 N 8.6	α 2, 05, 32.7 δ 57, 41, 44.6 R 346, 34, 20.0	L	SWP 15276 1+3	900 2 FO	-.9 .08 7.8	L	O	17:37:31	1:20	3	0	1	MN=	"
"	"	"	α δ R	H	LWR 11790 1+4	895 3 FO	-1.0 .08 12.5	L	O	17:42:25	30:00	3	0	2	GDE(-902, -376, 1385 FO) 4 min heater MN=	"
"	"	"	α δ R	H	SWP 15277 1+5	880 1 FO	-1.7 .08 7.8	L	O	18:16:46	105:00	4	0	1	GDE(-706, -519 1413 FO) MN=	"
GB 594	LSI 61 303 26	Be V 10.8	α 2, 36, 40.6 δ 61, 00, 54 R 337, 49, 58.5	L	LWR 11791 1+6	B/O	0.5 .08 12.5	L	O	20:28:31	40:00	5	0	3	GDE(-535, -640 2687 FO) MN=	CARAVEO cc.
GH 506	HD 5394 59	B0.5 IVe 2.6	α 00, 53, 40.3 δ 60, 26, 47 R 9, 51, 57.4	H	SWP 15278 1+7	3756 701 F.O	-.4 .08 9.5	L	O	21:28:23	00:08	5	0	1	MN=	BIANCHI cc.
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 17 M OCT Y 81 RAW TAPE D 17 M OCT

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. alot undov/f.s	FOCUS BKG THDA	APERTURE	NP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 482	HD 218356	4.8	α 23, 04, 40.3 δ 25, 11, 53 R 70, 44, 38.3	H	SWP 15283 1+		20 .08 8.8	L	0	9:25:12 13:29:23 20:50:47	110:00 440:00 440:00	2	3	9	Both HO (from and to GSFC) exposing S.III, C.III MN= . S.III saturated	BROWN cc.
			α , , δ , , R , ,		NB: TOTAL TIME 1040 MIN 1+										MN=	
		6x	Posture, started and ended at GSFC α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 18 M Oct Y 81 RAW TAPE D 18 M Oct

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. alot undov/f.s	FOCUS BKG THDA	APERTURE	NP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
RK 31	BD -3°2179 16	sdO 10.2	α 7, 59, 45 δ -3, 49, 51 R 260, 51, 22	H	LWR 11804 1+1	328 16 OV/F	-1.5 .08 12.2	L	0	14/49/24	105:0	5	0	5	MN=230	HAMANN W.W.
RK 522	NGC 3242 70	0 12.0 ~~7.0~~	α 10, 22, 24 δ -18, 23, 00 R 274, 8, 25	H	SWP 15289 1+2	506 128 OV.F	-1.3 .08 6.8	L	0	18/13/51	192:0	5	9		MN=	HAMMANN W.W.
RK 523	HD 48279 7.8 24	B	α 6, 40, 48 δ 1, 45, 58 R 260, 29, 47	H	LWR 11805 1+3	2372 6 OV.F	-3.3 .08 12.5	L	0	20/53/00	42:0	5	0	3	MN=196	HAMANN W.W.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 19 M OCT Y 81 RAW TAPE D 19 M Oct

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK482	HD 15981 47	2·8	α 17, 29, 18·1 δ 52, 20, 15·0 R 121, 1, 13·5	H	SWP 15293 1+		9·2			7/55/42	495:0				Slewed at GSFC. MN=	BROWN W.W.
"	"		α , , δ , , R , ,		SWP 1+		-1·0 ·08 10·5	/		15/21/41 TOTAL EXP 1273 min	440:0	2	3	9	Some emission lines saturated MN=	BROWN W.W.
			α , , δ , , R , ,		IMAGE 1+					READ					AT MN=	
			α , , δ , , R , ,		1+					GSFC		C			MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 20 OCT 81 RAW TAPE 20 OCT

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
RS564	HD 36861 13	O8 II 3.39 0.12	α 5, 32, 22.9 δ 9, 54, 08 R 264, 4, 3.5	H	SWP 15295 1+1	1385 287 FU	-1.9 .44 8.5	L	O	14:18:20	00:30	7	0	1	MN=	H. FRANCO ee
"	HD 66811 13	O4 If 2.25 0.04	α 8, 1, 49.6 δ -39, 51, 41 R 265, 39, 50.9	H	SWP 15296 1+2	4010 798 FU	-1.1 .20 8.5	L	O	14:55:00	00:04	5	0	1	MN=	"
"	HD 105056 13	ON 9.5 V 7.55 0.31	α 12, 3, 12.7 δ -69, 17, 41 R 332, 48, 9.0	H	SWP 15297 1+3	4002 15 FO	-1.0 .08 8.5	L	O	15:36:59	28:00	5	0	1	GDEC -237, 1031 232 FO) MN=	"
"	HD 164794 12	O4 V 5.97 0.35	α 18, 00, 48.4 δ -24, 21, 49 R 89, 37, 7.7	H	SWP 15298 1+4	12979 67 FO	-1.5 .08 8.8	L	O	16:47:24	04:30	5	0	1	MN=	"
"	HD 5394 59	B0.5 III e 2.6 0.18	α 0, 53, 40.4 δ 60, 26, 47 R 14, 33, 11.7	H	SWP 15299 1+1	4029 800 FU	-1.5 .08 8.8	L	O	18:07:10	00:08	5	0	1	New Raw Tape MN=	"
QBS94	LSI 61.303 26 0.8	Be V 10.8 0.81	α 2, 36, 40.6 δ 61, 00, 54.1 R 342, 01, 9.9	L	LWR 11811 1+2	B/O	-1.4 .08 12.8	L	O	18:34:15	45:00	5	0	2	GDEC -581, -607 2700 FO) MN=	T. CHARVEO ee
"	"	"	α , , δ , , R , ,	L	SWP 15300 1+3	B/O	-.7 .08 8.5	L	O	19:29:25	138:00	4	0	1	GDEC -382, 747 2786 FO) MN=	"
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 21 M OCT Y 81 RAW TAPE D 21 M OCT

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 463 3015	HD 165052 12	07 6.9 0.3	α 18,02,06 δ -24,24,10 R 89,42,52.7	H	SWP 15306 1+1	6099 14 FO	-.7 .08 8.2	L	O	14:38:41	16:00	5	0	1	GDE(-1186,-1107 975 Fo) MN=	WELSH cc.
3016	〃	〃	α , , δ 〃 , R , ,	H	LWR 11817 1+10	5970 16 FO	-1.4 .08 13.2	L	O	14:59:43	12:35	5	0	2	GDE(-1383,-966 461 Fo) 4 min heater MN=715	back of the 4 image
3017	HD 164794 12	05 5.9 0.31	α 18,00,48 δ -24,21,48 R 89,35,55.7	H	SWP 15307 1+3	12704 48 FO	-2.0 .08 8.5	L	O	16:08:07	04:30	5	0	1	GDE(-364,427 4453 Fo) MN=	〃
3018	〃	〃	α , , δ 〃 , R , ,	H	LWR 11818 1+4	12703 48 FO	-2.0 .08 13.8	L	O	16:15:49	04:00	5	0	2	GDE(-561,566,4497 Fo) 4' Heater MN=	4
3019	HD 164816 13	09.5 III 7.1 0.28	α 18,00,53 δ -24,18,56 R 89,37,52.7	H	SWP 15308 1+5	4983 21 FO	-1.9 .08 8.8	L	O	16:52:44	14:00	5	0	1	GDE(557,-610 13750 Fo) MN=	4
3020	〃	〃	α , , δ 〃 , R , ,	H	LWR 11819 1+6	4999 26 FO	-1.8 .08 13.8	L	O	17:23:19	11:30	5	0	2	GDE(357,-470 13795 Fo) 4 min heater MN=	4
3021	HD 164906 20	B0.5 IV 7.5 0.48	α 18,01,32 δ -24,23,22 R 89,38,28.9	H	SWP 15309 1+7	2617 24 FO	-1.3 .08 9.2	L	O	17:58:55	15:00	3	0	1	GDE(130,165,1698 Fo) MN=	4
3022	〃	〃	α , , δ 〃 , R , ,	H	LWR 11820 1+8	3614 20 FO	-.8 .08 9.5	L	O	18:40:34	30:00	5	0	3	(-329,307,1298 Fo) 4 min Heater MN=	4

OBSERVATORY LOG

DATE D 21 M OCT Y 81 RAW TAPE D 21 M OCT

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 463 3023	HD 31502 20	B2 IV 8.6 0.30	α 18,01,32 δ -24,20,05 R 89,41,12	H	SWP 15310 1+9	1353 23 FO	-1.2 .08 9.2	L	O	19:25:04	130:00	6	0	2	GDE(491,-916 4074 Fo) MN=	WELSH cc.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 22 M Oct Y 81 RAW TAPE D 22 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	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VC549	NGC2808 83	F7 6.4	α 9,10,54.7 δ -64,38,48 R 284 33 .04	L	SWP 15313 1+	540 256 OV/F	-1.5 .08 7.2	L	O	14:45:48	410:00	3	0	2	MN=	CALOI/ Castellani W.W.
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 23 M OCT Y 81 RAW TAPE D 23 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	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK474 3024	Q0414-06 85	QSO 15	α 04,14,49.2 δ -06,01,03 R 244,13,54.2	L	LWR 11827 1+1	B/O	2.1 .08 12.5	L	O	14:54:05	109:00	3	4	8	GDEC-15-138 121 50) 4 min warm up MN=703	WILSON ee.
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 24 M OCT Y 81 RAW TAPE D 24 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
Vc 549	NGC 2808 83	F7 6.4 0.30	α 9, 10, 54.7 δ -64, 38, 48 R 282, 27, 38.2	L	LWR 11830 1+1	542 157 FO	-1.0 .08 12.8	L	0	14:43:22	300:00	6	0	6	qDE(5,-1262 214 SO) 4 min heater MN=	CALOI-CASTELLA M. Ce.
11	ROB 162 16	09 13.00 0.20	α 17, 36, 48 δ -53, 39, 00 R 67, 58, 46.3	L	LWR 11831 1+2	125 20 SO	-.6 .08 13.5	L	0	20:38:10	20:00	4	0	2	qDE(928, 1288 176 SO) 4 min heater MN=	11
N	N	V	α , , δ , , R , ,	L	SWP 15322 1+3	120 22 SO	-1.3 .08 6.8	L	0	21:01:20	25:00	5	0	1	qDE(1128, 1145 211 SO) MN=	4
11	11	11	α , , δ , , R , ,	L	LWR 11832 1+4	125 20 SO	-1.3 .08 13.8	L	0	21:36:40	14:00	4	0 1	2	qDE(931, 1287 139 SO) MN=254	4
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 25 M Oct Y 81 RAW TAPE D 25 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3025 ENG.	NULL		α , , δ , , R , ,		LWP 1363 1+1				0	15/41/00		0	0	0		Wilson / Hartquist W.W.
3026 ENG	gs cutoff		α , , δ , , R , ,		LWP 1364 1+2			/	0	20/13/00		0	0	0	MN=	Wilson / Hartquist W.W.
3027 ENG.	Test Read		α , , δ , , R , ,	L	LWP 1365 1+3		-1.2 -.08 8.8		0	16/13/35	240/0	0	0	0	MN=	Wilson / Hartquist W.W.
3028 4K474	Q0414-06 85	15	α 4, 14, 49 δ -6, 1, 3 R 241, 57, 56	L	SWP 15329 1+4	B/0	-2.8 -.08 8.8	L	0	15/15/32	361/0	3	3 1	2	interrupted for 30 min after 248 min. MN=	Wilson / Hartquist W.W.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 26 Oct 81 RAW TAPE 26 Oct

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
AB588	GK PER 55	K2 III+B 13.0 0.1	α 03,27,47.5 δ 43,44:06.6 R 322, 52, 24.5	L	LWR LWR 11869 1+1	98 9 5 0	-2.1 -.2 14.5	L	0	14:45:45	75:00	2	3	4	MN=471	SABBADIN SSA
AB588	GK PER 55	K2 III+B 13.0 0.1	α 03,27,47.5 δ 43,44:06.6 R 322, 52, 24.5	L	SWP SWP 15331 1+2	93 5 5 0	-2.0 .08 8.2	L	0	16:06:28	243:00	2	3	0	INCOMPLETE SPREP MN=	SABBADIN SSA
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 27 OCT 81 RAW TAPE 27 OCT

ESA (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3029 UK 419	N12754 84	SEYFERT 13	α 3,16,31 δ 41, 19, 50 R 326, 31, 48.5	L	SWP 15335 1+1	B/0	-1.5 .08 6.8	L	0	15:32:01	375	2	2	2	MN=	NIELSEN SSA
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 28 M OCT Y 81 RAW TAPE D 28 M OCT

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CB515	NULL		α δ R	L	LWR 11858 1+1									1	READPREP DURING MANEUVER MN= 550	BERTOUT AR SSA
	Z CHA 27	Bp 9.5	α 7,01,22.6 δ -11,28,36 R 253, 22.03.0	H	LWR 11859 1+2	617 3 F0	-1.1 .08 17.5	L	0	11:45:12	410:072	2	9		MgII = 139 BKG = 85 MN= 199	4 4
			α δ R		1+										MN=	
			α δ R		1+									1	MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 29 M OCT Y 81 RAW TAPE D 29 M OCT

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 419 3030	N1275 84	SEYFERT 13.0	α 3,16,29.6 δ 41,13,52 R 329, 15, 689	L	SWP 15363 1+1	B/0	-2.9 0.08 9.2	L	0	15:20:36	377:00	3	5	2	TARGET AT FES X=113, Y=-94 MN=	NULSEN SSA
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+									1	MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 30 | 09 | 81 RAW TAPE 30 | 09

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK619 3031	N1275 84	SEYFERT 13.0	α 3,16,23.6 δ 41,19,52 R329,15,48.9	L	SWP 15346 1+1	B/O	-1.6 .08 8.2	L	O	14.54.20	410:00	2	5	2	NUCLEUS AT 143-96 correction of 3" was performed at 16:11 MN=	P NULSEN UB
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 31 | 10 | 81 RAW TAPE 31 | 10

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 3032 435	M16 72	— —	α 18,16,05.2 δ -13,53,04 R97,53,58	L	LWR 11870 1+1	B.O.	-1.6 -0.08 11.5	L	O	14.25.07	240.0	3	0	7	4 MIN WARM UP MN= 769	J. MEABURN A. HARRIS
UK 3033 435	M16 72	— —	α 18,16,05.2 δ -13,53,04 R97,53,58	L	SWP 15352 1+2	B.O.	-0.9 -0.08 6.5	L	O	18.30.29	157.0	3	0	1	MN=	J. MEABURN A. HARRIS
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 1 M 11 Y 81 RAW TAPE D 1 M 11

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
ESA	HDE 245770	09	α 5, 35, 48		LWR	844	-1·8									VAN DESSEL.
	12	9.1	δ 26, 17, 18	L	11880	1	0·74	L	O	13:02:58	2:40	4	5	2	4 MIN. HTR WARM-UP.	
CD596		0·8	R 275, 15, 35·1		1+1	0, 0	12·8								MN= 819	AWH / CC
ESA	HDE 245770	09	α 5, 35, 48		SWP	839	-1·8								GUIDE:	VAN DESSEL
	12	9.1	δ 26, 17, 18	H	15358	4	0·68	L	O	13:08:48	385:0	4	4	3	X=329, Y=-173	
CD596		0·8	R 275, 15, 35·1		1+2	0, 0	8·8								CTS. 407 FAST/OVER MN=	AWH/CC.
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 2 M NOV Y 81 RAW TAPE D 2 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FG 561	HDE 245770	09.7 Ia	α 5, 35, 48		SWP	831	2.0			12:34:01	16:00					GIOVANNELLI /
	26	9.0	δ 26, 17, 18	L	15364	1	.64	L	O			5	0	1	GDE (101, -1227	BARTOLINI
		0.8	R 275, 21, 35.6		1+1	Fo	9.5								193 Fo) MN=	cc
			α , ,		LWR	805	1.9			12:55:30	31:20				GDE (200, -1085	
"	"	"	δ , ,	L	11890	6	.52	L	O			5	0	2	217 Fo) 4 min.	"
			R , ,		1+2	Fo	15.2								warm up MN= 789	
			α , ,		SWP	808	1.9			13:20:55	375:00				GDE (101, -1226	
"	"	"	δ , " ,	H	15365	3	.22	L	O			4	0	3	213 Fo)	"
			R , ,		1+3	Fo	9.8								MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	
			α , ,													
			δ , ,													
			R , ,		1+										MN=	

OBSERVATORY LOG — DATE 3 NOV 81 — RAW TAPE 3 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3034 UKCAL	NULL		α δ R		SWP 15371 1+1										NULL IMAGE MN=	A.W.H.
3035	CALUV, 60%		α δ R		SWP 15372 1+2			/		12:51:31	1:49				UVITF MN=	"
3036	CALUV, 20%		α δ R		SWP 15373 1+3					13:17:59	:36				UVITF MN=	"
3037	CALUV 120%		α δ R		SWP 15374 1+4					13:43:32	3:38				UVITF MN=	"
3038	CALUV 60%		α δ R		SWP 15375 1+5					14:10:23	1:49				UVITF MN=	"
3039	TFLOOD 100%		α δ R		SWP 15376 1+6					14:37:17	:16				MN=	"
3040	CALUV, 160%		α δ R		SWP 15377 1+7					15:03:26	4:51				MN=	"
3041	READ ONLY		α δ R		SWP 15378 1+8										2ND READ OF CALUV, 160% MN=	

OBSERVATORY LOG — DATE 3 NOV 81 — RAW TAPE 3 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3042 UKCAL	NULL		α δ R		SWP 15379 1+9										NULL IMAGE MN=	A.W.H.
3043	NULL		α δ R		LWR 11899 1+10			/							NULL IMAGE MN=	"
3044	CALUV, 60%		α δ R		LWR 11900 1+11					16:34:39	1:53				UVITF MN= 435	"
3045	CALUV 20%		α δ R		LWR 11901 1+12					17:03:11	:38				UVITF MN= 385	"
3046	CALUV, 120%		α δ R		LWR 11902 1+13					17:30:58	3:45				UVITF MN= 423	"
3047	CALUV, 60%		α δ R		LWR 11903 1+15					18:01:06	1:53				UVITF MN=	"
3048	TFLOOD 100%		α δ R		LWR 11904 1+16					18:31:24	:22				MN=	"
3049	CALUV, 160%		α δ R		LWR 11905 1+17					18:59:58	5:01				MN=	"

OBSERVATORY LOG

DATE D 3 M NOV Y 81 RAW TAPE D 3 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 THDA	APERTURE	AP. SEUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3050 UKEAL	READONLY		α , , δ , , R , ,		LWR 11906 1+18										2ND READ OF CALUV, 160% MN=	A.W.H.
3051 UKCAL	NULL		α , , δ , , R , ,		LWR 11907 1+19			/							NULL IMAGE MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 4 M NOV Y 81 RAW TAPE D 4 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 THDA	APERTURE	AP. SEUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JK575	K9 III 63	13.00	α 7 , 28 , 58 δ -10 , 15 , 0 R 251 , 27 , 52.8	L	SWP 15384 1+1	108 6 slow	-.66 30 9.8	L	0	11:46:10	50:00	5	0	1	MN=	KRAUTTER P.B.
	9	5	α , , δ , , R , ,	L	LWR 11915 1+2	105 6 slow	-.6 .20 14.2	L	0	13:35:24	30:00	5	0 1	1	MN=	
	RZ GRU 63	12.5	α 22 , 44 , 18 δ -43 , 00 , 38 R 123 , 24 , 31.2	L	SWP 15385 1+3	176 3 slow	-.15 .08 9.8	L	0	15:41:24	30:00	5	0	1	MN=	
	6	L	α , , δ , , R , ,	L	LWR 11916 1+4	L	-1.6 0.08 14.7	L	0	16:45:25 6:15:30 CORR. TO	20:00	5	0 1	1	MN=	
	TZ Per 63	13.5	α 2 , 10 , 19 δ 58 , 08 , 55 R 9 , 31 , 49.1	L	SWP 15386 1+5	68 slow	+.6 0.08 10.8	L	0	17:59:47	60.00	3	3	1	MN=	
	4		α , , δ , , R , ,	L	LWR 11917 1+6	60 1 slow	-.4 0.08 14.5	L	0	19:04:51	41:00	3	0	1	MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 5 M NOV Y 81 RAW TAPE D 5 M 11

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	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3052 UK470	NGC6790 70	10	α 19,20,24.5 δ +1,25,02 R 107,01,23.6	L	LWR 11922 1+1	444 7 S/O	-2.5 0.3 15.2	L	O	12:37:43	60:00	3	3	4	4M. HTR. WARM UP MN= 797	R. CLEGG A. HARRIS
3053 UK 470	" "	"	α , , δ , , R , ,	L	SWP 15411 1+2	439 7 S/O	-1.9 .08 10.8	L	O	13:41:44	90:00	3	6	1	MN=	" "
3054 "	NGC 40 71	10.7	α 0,10,17.0 δ +72,14,36 R 42,28,43.6	L	LWR 11923 1+3	B/O	-0.6 0.08 15.5	L	O	16:00:35	20:00	3	1	2	GDE X = -740 Y = 691 CTS = 728 F/O OFFSET 13" N 4M HTR WU MN=	" "
3055 "	" " "	"	α , , δ , , R , ,	L	SWP 15412 1+4	"	+0.7 0.1 11.2	L	O	16:31:53	70:00	2	3 1	1	GDE X = -542 Y = 541 CTS = 716 OFFSET 13"N MN=	"
3056 "	" " "	"	α , , δ , , R , ,	L	LWR 11924 1+5	"	-0.4 0.08 15.9	L	O	17:47:27	120:00	3	3	3	GDE X = -739 Y = 679 CTS = 770 F/O OFFSET 13"N 4M HTR WU MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 6 M NOV Y 81 RAW TAPE D 6 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	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HR 579	HZ HER 55	A-B 14.5	α 16,56,1.62 δ 35,25,5.03 R 142,58,43.9	L	SWP 15419 1+1	B-0	-.9 .24 11.2	L	O	13:21:07	60:00	2	3	1	MN=	W.T.THOMAS UB
"	" "	"	α , , δ " , " R , ,	L	SWP 15420 1+2	28 — S.O.	-1.1 .08 11.0	L	O	16:53:06	47:00	2	2	1	MN=	"
"	" "	"	α , , δ " , " R , ,	L	LWR 11930 1+3	B-0	-1.1 .08 15.5	L	O	16:05:31	165:00	3	0	4	MN= 372	"
"	" "	"	α , , δ " , " R , ,	L	SWP 15421 1+4	B-0	-1.1 .08 11.2	L	O	18:54:59	52:0	2	1	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE D 7 M NOV Y 81 — RAW TAPE D 7 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 470 3057	NGC 40 71	PN 10.8	α 0, 10, 17.3 δ 72, 14, 38.4 R 44, 36, 37.5	L	SWP 15445 1+1	B-O.	-1.4 .10 11.2	L	O	12:34:07	180:00	3	4	2	MN=	CLEGG
" 3058	NGC 7008 70	PN	α 20, 59, 5.09 δ 54, 20, 47.6 R 97, 40, 15.2	L	LWR 11934 1+2	B-O	-1.6 .08 14.5	L	O	16:17:33	90:00	5	Ø	4	4-MIN WARM UP (mic. on the spectro) MN= 594	"
" 3059	NGC 6790 70	PN 10	α 19, 20, 24.5 δ 1, 25, 2 R 108, 1, 58.4	L	SWP 15446 1+3	108 Ø F.O.	-.38 .08 10.5	L	O	18:35:01	35:00	1	5	1	MN=	"
" 3060	"	"	α , , δ " , " , " R , ,	L	LWR 11935 1+	420 1 S.O.	.14 .08 15.9	L	O	19:17:27	26:00	2	0	2	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE D 8 M NOV Y 81 — RAW TAPE D 8 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JK 575	ζ CAH 54	Dw.N. 11.77	α 8, 19, 43 δ 73, 16, 35 R 272, 56, 26.9	L	SWP 15453 1+4	335 2 S.O.	-1.4 .10 12.2	L	O	12:38:40	18:00	5	0	1	MN=	J. KRAUTTER
"	"	"	α , , δ " , " , " R , ,	L	LWR 11941 1+2	295 1 F.O.	-1.0 .08 16.5	L	O	13:03:46	10:00	5	0	2	MN=	"
"	RX AND 54	Dw.N. 11.8	α 1, 1, 45.0 δ 41, 1, 57 R 52, 27, 58.0	L	SWP 15454 1+3	335 5 S.O	-2.0 .08 12.2	L	O	14:06:58	20:00	5	5	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 11942 1+4	318 5 S.O.	-2.1 .08 16.9	L	O	14:33:17	15:00	6	0	2	MN= 174	"
"	AR AND 54	Dw.N. 13.1	α 1, 42, 4.5 δ 37, 41, 46 R 41, 11, 22.8	L	SWP 15455 1+5	94 9 S.O	-1.3 .08 11.8	L	O	15:22:05	35:00	5	0	1	MN=	"
KF 516	HD 2151 44	92 2.8	α 0, 23, 9 δ -77, 32, 0 R 144, 3, 8.3	H	LWR 11943 1+6	1711 330 F.U.	-1.1 .08 16.2	L	O	17:00:41	15:00	7	0	2	MN=	D. DRAVINS
"	"	"	α , , δ " , " , " R , ,	H	LWR 11944 1+7	1604 280 F.U.	-2.7 .08 16.2	L	O	17:43:00	15:00	7	0	2	MN= 305	"
"	"	"	α , , δ " , " , " R , ,	H	LWR 11945 1+8	1607 260 F.U.	-1.8 .08 16.5	L	O	18:22:10	15:00	7	0	2	MN= 350	"

OBSERVATORY LOG

DATE D 8 M NOV Y 81 RAW TAPE D 8 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	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
KF516	HD 2151 44	G2 2.8	α 0, 23, 9 δ -77, 32, 0 R 144, 3, 8.3	H	LWR 11946 1+8	1634 272 F.W.	-1.4 .08 16.9	L	0	19:02:29	15:00	7	0	2	MN= 356	D. DRAVINS
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 9 M NOV Y 81 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	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
UK 481 3061	HD 18749 26	B5e 4.2	α 15h, 30m, 54.7s δ +31°, 31', 36" R 169°, 1', 56"	H	SWP 15464 1+1	612 117 FU	-1.5 8.00 9.8	L	0	12:30:43	02:00	5	5	1	MN=	P. BARR A.H.
3062	HD 200120 26	B1e 4.2	α 20h, 58m, 7.4s δ 47°, 1', 20" R 101°, 16', 42.5	L	LWR 11951 1+4	304 68 f.u.	-1.4 .08 18.8	L	0	13:08:51	0:01	5	5	2	4 min warming up MN=	"
3063	"	"	α , , δ , , R , ,	H	SWP 15465 1+2	342 57 f.u.	-1.4 .08 9.8	L	0	13:12:30	1:10	5	5	1	MN=	"
3064	HD 5394 26	B0e 2.6	α 0h, 53m, 40s.3 δ 60°, 26', 47" R 40°, 30', 2".3	H	SWP 15466 1+3	3680 475 f.u.	-1.9 .08 9.8	L	0	13:59:20	0:06	5	5 1	1	MN=	"
3065	LSI +61 303 26	B 10.8	α 2h, 36m, 41s δ 61°, 0', 58" R 6°, 58', 13".7	L	SWP 15467 1+5	164 0 f.o.	-1.1 .08 10.2	L	0	14:38:39	30:00	2	0	0	MN=	"
3066	GSO 141-G55 84	13.5	α 19h, 16m, 57.0s δ -57°, 45', 52" R 77°, 17', 17".6	L	SWP 15468 1+6	66 5 f.o.	-1.1 .08 10.2	L	0	16:04:39	60:00	3	5	1	MN=	"
3067	"	"	α , , δ , , R , ,	L	LWR 11952 1+7	58 6 f.o.	-1.7 .08 14.2	L	0	17:07:27	60:00	5	5	3	4 min warming up MN=	"
3068	NGC 3783 84	11.2	α 11h, 36m, 38s.0 δ -37°, 27', 41" R 298°, 58', 17.7"	L	SWP 15469 1+8	87 10 f.o.	-1.3 .07 10.2	L	0	19:01:07	45:00	3	4	1	MN=	"

OBSERVATORY LOG

DATE D 10 M NOV Y 81 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
WG525	HH 46		α 8h, 24m, 43.5s δ -50, 50, 34 R 252, 13, 14.3	L	SWP 15472 1 + 1		-0.3 .08 10.5	L	O	15:29:53	172:00	2	0	3	MN=	EICHENDORF -REIPURTH 4-H
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	
			α δ R		1 +										MN=	

OBSERVATORY LOG

DATE D 11 M NOV Y 81 RAW TAPE D 11 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 482			α δ (No image read - Satellite R 1 +								received				while MN=	A. BROWN A.H
			α exposing on position indicated - Exposure extended δ R 1 +					/							MN=	
			α ab Virgo δ R 1 +												MN=	
	HD28.44.19 5.2	10.4	α 4h, 19m, 6s δ 19°, 25', 15".0 R 270°, 58', 42".5	H	SWP 15475 1 +			L	O	11:03:27 18:04:19 TOTAL →	480:00 420:00 900:00	0	10	9	(started OSFC) (started Virgo) MN=	
			α δ R 1 +												MN=	
			α δ R 1 +												MN=	
			α δ R 1 +												MN=	
			α δ R 1 +												MN=	

OBSERVATORY LOG

DATE D 12 M NOV Y 81 RAW TAPE D 12 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	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
WE 519	HD 106111 53	F5-G0 v 6.7	α 12h 10m 45.2 δ -69° 52' 25.5" R 308° 32' 11.7"	L	SWP 15484 1+1	9216 21 f.o.	-2.1 .03 10.5	L	0	12:31:41	10:00	8	0	1	MN=	EICHENDORF - REIPURTH - RUSSO A.H.
"	"	"	α ' " δ ' " R ' "	L	LWR 11965 1+2	9244 22/537 f.o.	-24/+1 .08 15.2	L	0	12:59:49	20:00	8	0	3	4 min warm-up MN= 826	"
"	"	"	α ' " δ ' " R ' "	L	SWP 15485 1+3	9218 32/524 f.o.	-1.6 .08 10.5	L	0	13:24:42	3:00	5	0	1	MN=	"
"	"	"	α ' " δ ' " R ' "	L	LWR 11966 1+4	9200 25/543 f.o.	+1.0 .08 15.2	L	0	14:05:50	8:07	7	0	3	4 min warm-up MN=	"
"	HD 95109 53	F5-G0 -6.4	α 10h 55m 45.6 δ -58° 22' 50.8" R 294° 8' 36.9	L	SWP 15486 1+5	12253 55 f.o.	-1.0 .08 10.2	L	0	15:18:26	10:00	2	0	0	MN=	"
"	"	"	α ' " δ ' " R ' "	L	LWR 11967 1+7	12511 58 f.o.	-1.0 .08 15.2	L	0	15:40:11	20:00	7	0	3	4 min warm-up MN= 669	"
"	"	"	α ' " δ ' " R ' "	L	SWP 15487 1+8	12592 61 f.o.	-0.5 .08 10.5	L	0	16:02:19	10:00	2	0	0	MN=	"
"	HD 91039 53	F5-G0 8.5	α 10h 27m 16s δ -57° 21' 18" R 276° 35' 23.4"	L	LWR 11968 1+9	11109 7 f.o.	-1.2 .08 15.5	L	0	16:59:59	30:00	6	0	2	1st sat. 4 min warm-up MN=	"

OBSERVATORY LOG

DATE D 12 M NOV Y 81 RAW TAPE D 12 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	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
WE 519	HD 91039 53	F5-G0 8.2	α 10h 27m 16s δ -57° 21' 18" R 276° 35' 23.4"	L	SWP 15489 1+10	10779 3 f.o.	-1.6 .08 10.8	L	0	17:22:20	40:00	1	1	0	MN=	EICHENDORF - REIPURTH - RUSSO A.H.
"	HD 95109 53	F5-G0 6.4	α 10h 55m 45.6 δ -58° 22' 50.8" R 283° 59' 4.6	L	LWR 11969 1+11	12430 66/269 f.o.	-1.9 .08 15.5	L	0	17:58:00	8:00	7	0	3	4 min warming MN=	"
"	HD 90772 53	F5-G0 4.9	α 10h 25m 22.4 δ -57° 23' 00" R 276° 7' 4.4	L	SWP 15489 1+12	330 56 f.u.	-1.5 .08 11.2	L	0	19:22:50	20:00	2	0	0	MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	
			α ' " δ ' " R ' "		1+										MN=	

OBSERVATORY LOG

DATE D 13 M NOV Y 81 RAW TAPE D 13 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B-V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 482	HD150788 47	K3II 1.9	α 16,43,21.0 δ -68,56,20 R 27,35,19.5	H	SWP 15494 1+			L	O	08:26:03	1135:00	0	7	3	START AT GSFC READ AT GSFC MN=	BROWN PP
			α δ R		1+			/							MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 14 M NOV Y 81 RAW TAPE D 14 M NOV

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B-V	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FIL LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
HS 599	HD190073 30	AOV 7.8	α 20,0,34.4 δ 5,35,49.6 R 110,45,38.1	L	LWR 11976 1+1	2435 5 FO	-1.2 .10 15.9	L	O	13:10:29	1:30	4	5	2	MN= 367	STAUDE AP
〃	〃	〃	α 〃 δ 〃 R 〃	L	SWP 15498 1+2	2440 8 FO	-1.6 .48 12.2	L	O	13:15:55	6:00	4	5	1	MN=	〃
〃	〃	〃	α 〃 δ 〃 R 〃	H	LWR 11977 1+3	2538 5 FO	-1.6 .08 15.9	L	O	13:51:32	90:00	3	6	5	HTR WARM-UP: 4 min MN=	〃
〃	〃	〃	α 〃 δ 〃 R 〃	H	SWP 15499 1+4	2502 3 FO	-.6 .08 10.8	L	O	15:25:41	262:00	3	5	2	MN=	〃
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

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

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESCL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 482	HD 31398 47	K3 II 2.7	α 4,53,44 δ 33,5,20 R 299,25,53.2	H	SWP 15503 1+	1938 310 FU	-2. .08 10.2	L	O	12:54:14	887 ∞	0	3	9	READ AT GSFC MN=	BROWN PP
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 16 M NOV Y 81 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	RESCL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 474 3069	Safety		α read δ read R		LWP 1369 1+1										Safety read MN=	WILSON PP
3072	Q 2326-48 85	QSO 16	α 23,26,33.7 δ -47,46,52 R 124,53,28.7	L	LWP 1371 1+4	50	-1.6 .08 8.2	L	O	13:14:00	371:32	3	4	4	guide x=45 dx=122 FO y=255 MN=	4 4
3071	NULL		α δ R		LWR 11984 1+2										NULL IMAGE MN=	4 4
3070	NULL		α δ R		LWP 1370 1+3										READ G1 MN=	4 4
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 17 M NOV Y 81 RAW TAPE D 17 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.e	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FB 584	NGC6166 81	gal 12	α 16,26,54 δ 39,39,36 R 164,15,1.3	L	LWP 1372 1+	BO	-1.1 .08 P.5	L	O	13:26:27 Total→ 14:00:24	30:00 792:00	2	0	9	X = -1323 Y = 144 dx -338 SO READ ATGS ERR	BERTOLA RP
Safety	record		α / / δ / / R / /		SWR 1169 1+1				/						Safety record TPOT 15.8 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=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE D 18 M NOV Y 81 RAW TAPE D 18 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.e	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 474 3073	NULL		α / / δ / / R / /		LWR 11992 1+1										NULL MN=	WILSON AP
3074	REAG1		α / / δ / / R / /		LWP 1373 1+2			/							G.1 cutoff MN=	" "
3075	Q1317+28 85	QSO 15.3	α 13,17,34.2 δ 27,43,51.2 R 218,49,48.1	L	LWP 1374 1+3	BO	-.7 .08 8.8	L	O	13:15:32	358:00	4	4	5	X = 623 Y = 1031 dx 203 SO MN=	" "
			α / / δ / / R / /		1+									!	MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE D 19 H Nov Y 81 RAW TAPE D 19 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
FB584	Ngc 6166 81	12	α 16, 26, 54 δ +39, 39, 36 R 164, 15, 11	L	SWP 15520 1+	8/0	-.6 -.08 10.5	L	O	13/02/07 13/45/08	816/0	2	0	6	MN=	Bertola WW
FB584	Background		α δ R	L	LWP 1375 1+	/	-.1 -.08 11.2	L /	O	13/47/[illegible]	766/0	0	0	9	MN=	Bertola WW.
			α δ R		1+										MN=	
			α Continue @ δ R		1+		both exposures g SFC.						1		MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 20 H Nov Y 81 RAW TAPE D 20 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3076 UK425	HD 34085 25	B8Ia 0.2	α 5, 12, 8 δ -8, 15, 28 R 218, 25, 54	H	LWR 12002 1+1	16924 2611 U.F	-1.6 .12 14.2	S	O	12/07/48	00/07	6	0	2	MN= 593	Gianetta/ Halliwell W.W.
3077 UK425	11	11	α δ R	H	SWP 15530 1+2	20514 8323 U.F	-1.4 .08 9.8	S /	O	13/00/21	00/15	7	0	1	MN=	Gianetta/ Halliwell W.W.
3079	HD 36861 13	O8 IIIf 3.6	α 5, 32, 23 δ 9, 54, 08 R 246, 45, 28	H	LWR 12003 1+4	1508 249 UN.F.	-1.4 .08 14.2	L	O	13/40/43	00/55	7	0	2	MN=	Gianetta/ Halliwell WW
3078	11	11	α δ R	H	SWP 15531 1+3	1412 319 UN.F	-1.4 .08 9.8	L	O	13/44/33	01/10	9	0	1	MN=	g + H WW
3080	HD 34656 13	O7 If 6.8	α 5, 17, 19 δ 37, 23, 21 R 303, 51, 11	H	SWP 15532 1+5	6986 32 OV.F	-.8 .08 9.8	L	O	14/58/46	19/0	6	0	1	MN=	g + H WW.
3081	11	11	α δ R	H	LWR 12004 1+6	6800 5 OV.F	-1.0 .08 13.8	L	O	15/46/49	8/30	4	0	3	MN=	g + H WW
3082	HD 212593 25	B9 I	α 22, 22, 29 δ 49, 13, 21 R 95, 51, 42	H	SWP 15533 1+7	373 85 UN.F.	-1.2 .08 9.2	L	O	16/41/55	30/0	7	0	1	MN=	g + H WW
3083	4	11	α δ R	H	LWR 12005 1+8	376 48 UN.F	-1.2 .08 13.8	L	O	17/18/13	5/00	5	0	2	MN=	g + H WW.

OBSERVATORY LOG

DATE D 20 M Nov Y 81 RAW TAPE D 20 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 425 3085	HD213558 32	A0 3.8	α 22,29,13. δ 50, 1, 29 R 94, 21, 56	H	SWP 15534 1+10	768 98 UN.F	-2.1 .08 8.8	L	O	17/55/32	18/00	8	0	0	MN=	Giarretta / Halliwell W.W.
3084 UK425	"	4	α , , δ " , " , " R , ,	H	LWR 12006 1+9	870 106 UN.F	-1.7 .08 13.8	L	O	18/25/17	04/00	6	0	3	MN=	g+H W.W.
3086 UK 425	HD212666 25	B8.5 8.5	α 22, 22, 54 δ 51, 52, 43 R 94, 51, 54	H	LWR 12007 1+11	1456 1 OV.F	+.03 .08 13.8	L	O	19/11/16	36/00	3	0	3	MN= 586	g+H W.W.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 21 M Nov Y 81 RAW TAPE D 21 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PB608	HD30739 30	A1V 4.4	α 4, 47, 53 δ 8, 49, 00 R 231, 55, 44	H H	LWR 12017 1+1	426 99 77 U.F	-1.9 .08 14.8	L L	O O	13/21/25 13/30/29	04/20 04/20	6	0	3	@ -95, 46 @ -115, 54 MN=	Laurent / Bruston W.W.
PB608	"	4	α , , δ 4, 4, 4 R , ,	H	SWP 15539 1+2	429 93 U.F	-1.3 .08 11.2	L	O	14/06/39	6/00	4	0	0	@ 84, -85 MN=	Laurent / Bruston W.W.
"	"	"	α , , δ " , 4 , " R , ,	H	LWR 12018 1+3	462 90 U.F	-1.0 .08 14.8	L	O	14/27/0	4/20	5	0	3	-95, 46 4 min. warm up cell. MN= 783	L+B WW
"	"	"	α , , δ 4 , 4 , 4 R , ,	H	SWP 15540 1+4	481 98 U.F.	-.7 .08 11.8	L	O	15/06/10	10/00	5	0	0	99, -99 MN=	L+B W.W.
"	"	"	α , , δ 4 , 4 , 4 R , ,	H	LWR 12019 1+5	460 102 U.F	-1.3 .08 15.2			15/42/59	6/00	5	0	0	-115, 54 MN=	L+B W.W.
PB608	HD47105 30	A0IV 1.9	α 6, 34, 49 δ 16, 27, 00 R 258, 26, 52	H	SWP 15541 1+6	3987 550 U.F.	-.2 .08 12.5	L	O	16/25/05	00/45	4	0	0	84, -85 MN=	L+B WW.
"	"	"	α , , δ , , R , ,	H	LWR 12020 1+7	4120 904 U.F	-.2 .08 15.5	L	O	16/55/51	00/30	4	0	2	-95, 46 MN=	L+B WW.
"	"	"	α , , δ 4, 4, " R , ,	H	SWP 15542 1+8	4406 722 U.F.	-1.3 .08 12.5	L	O	17/45/27	01/15	6	0	0	MN=	L+B W.W.

OBSERVATORY LOG — DATE D 21 M NOV Y 81 — RAW TAPE D 21 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	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
PB 608	HD 47105 30	A0 IV 1·9	α 6, 34, 49 δ 16, 27, 00 R 258, 26, 52	H	LWR 12021 1+ 9	4408 714 4·F.	-1·6 ·08 15·5	L	0	17/49/49	00/40	5	0	2	-115, 54 MN=	Laurent / Bruston W.W.
PB 608	HD 60179 30	A IV 1·6	α 7, 31, 25 δ 32, 00, 00 R , ,	H	SWP 15513 1+ 10	5418 874 4.F.	-1·4 ·08 11·5	L	0	18/58/34	01/00	6	0	0	-84, -85 MN=	L+B WW.
PB 608	〃	〃	α , , δ 4, 4, 4 R , ,	H	LWR 12022 1+ 11	5418 1239 4.F	-1·5 ·08 15·5	L	0	19/02/47	00/40	6	0	3	-95, 46 MN=	L+B WW.
PB 608	〃	〃	α , , δ 4, 4, 4 R , ,	H	SWP 15544 1+ 12	5609 845 4.F	-1·4 ·08 11·2	L	0	19/26/57	00/55	6	0	0 1	99, -93 MN=	L+B W.W
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG — DATE D 22 M NOV Y 81 — RAW TAPE D 22 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	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
3087 UK425	HD 36861 15	O8.5 III 3.55	α 5, 32, 22.9 δ 9, 54, 8 R 244, 37, 42	H	LWR 12030 1+1	1432 679 UF	-0.47 0.08 12.5	S	0	12:45:16	0:55	6	0	1	4 min warm up MN=	Giacobbe Halliwell A.C.
3088	〃	〃	α , , δ , , R , ,	H	SWP 15549 1+ 2	1484 641 UF	-0805 0.08 18.8	S	0	124924	1:10	7	0	1	MN=	
3089	HD 34085 25	B8Ia 0.2	α 5, 12, 8.0 δ -8, 15, 28 R 215, 13, 12	H	LWR 12031 1+3	20990 7260 UF	-1.30 0.08 12.5	S	0	13 5825	0:7	6	0	1	4 min warm up MN=	
3090	〃	〃	α , , δ , , R , ,	H	SWP 15550 1+ 4	20865 8064 UF	-1.3 0.08 8.8	S	0	140058	0:15	7	0	1	MN=	
3091	HD 19.0066 20	B8 6.5	α 20, 0, 12 δ 22, 0, 50 R 129, 49.7	H	LWR 12032 1+5	8073 8 OF	-1.4 0.08 12.5	L	0	152346	10:0	5	0	1	4 min warm up C = 180 D = 26 MN=	
3092	〃	〃	α , , δ , , R , ,	H	SWP 15551 1+6	8066 15 OF	-1.3 0.08 7.5	L	0	153723	60.0	6	0	1	sat. long λ MN=	
3093	HD 199478 25	B9Ia 5.7	α 20, 54, 8.4 δ 47, 13, 31 R 113, 49, 20.3	H	LWR 12033 1+7	14745 61 OF	-1.5 0.08 12.5	L	0	165853	20:0	5	0	1	C = 200 B = 33 MN=	
3094	〃	〃	α , , δ , , R , ,	H	SWP 15552 1+8	14862 70 OF	-1.0 0.08 7.8	L	0	173200	135:0	6	0	1	MN=	

OBSERVATORY LOG

DATE D 23 M NOV Y 81 RAW TAPE D 23 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	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CL 609	HD92809	WC6	α 10, 39, 41.9	H	LWR	869	-0.56	L	O	12 37 12	120:0	4	5	5	C = 164	LAURENT
	10	9.08	δ -58, 30, 35		12043	5	0.08								G = 150	
			R 260, 33, 51.1		1 + 1	OF	14.2								B = 54 MN= 767	A · C
			α , ,	H	SWP	848	-1.56	L	O	144424	302:0	6	6	6	B = 72	
			δ , ,		15558	4	0.08								C = 239	
			R , ,		1 + 2	OF	8.8								F = 255 MN=	
			α , ,													
			δ , ,													
			R , ,		1 +										MN=	
			α , ,													
			δ , ,													
			R , ,		1 +										MN=	
			α , ,													
			δ , ,													
			R , ,		1 +										MN=	
			α , ,													
			δ , ,													
			R , ,		1 +										MN=	
			α , ,													
			δ , ,													
			R , ,		1 +										MN=	
			α , ,													
			δ , ,													
			R , ,		1 +										MN=	
			α , ,													
			δ , ,													
			R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 24 M NOV Y 81 RAW TAPE D 24 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	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 464	CPD-74 1569	09.5V	α 16, 44, 27.4	H	SWP	/	-1.10	L	O	13) 20:12	145:0	5	0	4	RP(-40, -202)	PETTINI
	12	10.2	δ -74, 27, 8		15562	10	0.08								C = 243	LAURENT
3095			R 13, 17, 52		1 + *	OS	8.8								B = 58 MN=	AC
			α , ,	H	LWR	363	-1.10	L	O	15:52:17	110:0	5	0	4	RP(-40, -202)	
			δ , ,		12050	3	0.08								C = 215 B = 59	
3096			R , ,		1 + 1	OF	13.8								MN=	
	CPD-75 1197	B1Vn	α 15, 28, 52.6	H	SWP	619	-0.64	L	O	180236	104:0	4	0	1	RP(-40, 202)	
	20	10.2	δ -75, 30, 1		15563	1	0.08								C = 178	
3097			R 351, 17, 59.5		1 + 2	OF	9.8								B = 40 MN=	
			α , ,		* SWP	15562	is	on	File 1	+1 of	Row				24NOV81-2	
			δ , ,		(playback	on	Nov 25	,1981)								
			R , ,		1 +										MN=	
			α , ,													
			δ , ,													
			R , ,		1 +										MN=	
			α , ,													
			δ , ,													
			R , ,		1 +										MN=	
			α , ,													
			δ , ,													
			R , ,		1 +										MN=	
			α , ,													
			δ , ,													
			R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 25 M NOV Y 81 RAW TAPE D 25 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	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
CL 571	M 15 83	Glob. Clust 6:3	α 21, 27, 54 δ 11, 57 0 R 112, 4, 5	H	LWP 1381 1+	607 226 OF	-1.87 0.08 10.2	L	0	12 10 11 19:31:10	440:0 440:0	4	0	9	DE(-564,1523) 1990 FACT WERE THAT = 830 MIN MN=	LAURENT PETTINI AC
"	"	"	α / / δ / / R / /	H	SWP 1557 0 1+	✓ ✓ ✓	-1.86 0.08 11.2	L /	0	12 32 34 19:53:31	440:0 440:0	3	0	9	MN=	"
			α / / δ / / R / /		1+										These images were read at Goddard MN=	
			α / / δ / / R / /		1+									1	MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE D 26 M 11 Y 81 RAW TAPE D 26 M 11

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 464 3098	HD 204862 25 -	B9 6.0 -	α 21, 28, 44 δ 11, 55, 01 R 112, 25, 19.9	H	LWP 1387 1+1	-	-1.6 .5	L	OP	12.02.41	13:20	4	0	2	TRAILED EXPOSURE Rate = 0.05" per sec 2 TRAILS MN=	LAURENT (PETTINI) JCB
3099	M 15 NGC 7078. 83	- $\nu 6$ -	α 21, 27, 36 δ 11, 57, 0 R 112, 32, 44.6	H	LWP 1388 1+	610 F/0	-.7 $\phi 8$ $1\phi.5$	L /	OP	13:32:04	440	3	0	9	TOTAL TIME 800 MIN MN=	—
3100	— " —	— " —	α / / δ — " — R / /	L	SWP 15571 1+	— —	— —	L	OP	13:34:03	440	3	0	8	TOTAL TIME 745 MIN MN=	— " —
			α / / δ / / R / /		1+									1	MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE 27 NOV 81 RAW TAPE 27 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 464 3101	NGC 362 83	– 7	α 01, 00, 36 δ −71, 07, R 135, 56, 15.9	H	LWP 1391 1+	608 refp. Fe	−2.3 ·08 11.8	L	0	12:09:11 19:30:10	440 00 440 00	3	0	9	TOTAL TIME =850 mins MN=	LAURENT PETTINI JCTadhunter
3102	–"–	–"–	α / / δ –"– / R / /	H	SWP 15572 1+	–"–	–"–	L /	0	12:41:34 19:35:38	440 00 440 00	1 1	0	9	TOTAL TIME =825 mins MN=	–"–
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE 28 NOV 81 RAW TAPE 28 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
CL571	NGC 362 83	– 7	α 01, 00, 35 δ −71, 07, 0 R 134, 59, 0	H	LWP 1394 1+	629 200	−1.4 0.08 11.5	L	0	12:48:06		3	0	9	Read at GSFC T=775 MN=	LAURENT P.B.
	"	"	α / / δ / / R / /	L	SWP 15581 1+		−1.8 0.08 12.2	L	0	13:21:20		1	0	9	SERENDIPITY. Read at GSFC T=740 MN=	" "
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	
			α / / δ / / R / /		1+										MN=	

OBSERVATORY LOG

DATE D 29 M NOV Y 81 RAW TAPE D 29 M 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	PES CTS / ref. p. / slot undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
M#587	HD 182917 / 39	M1III+8 / 7	α 19, 23, 13 / δ 50, 8, 0 / R 137, 34, 52.2	H	LWR / 12057 / 1+1	18996 / 469 / f	-1.3 / 0.08 / 16.2	L	O	18:08:05	12:00	4	6	1	MN=	SELVELLI / P.B.
"	"	"	α " / δ " / R "	L	SWP / 15590 / 1+2	19124 / 491 / f	-1.3 / 0.08 / 12.8	L / S	O / O	12 41 36 / 12 52 50	6:00 / 3:00	7 / 6	7 / 6	1 / 1	MN=	
"	"	"	α " / δ " / R "	H	LWR / 12058 / 1+4	19731 / 468 / f	-1.3 / 0.08 / 16.5	L	O	13:28:08	45:00	6	7	2	MN=	
"	"	"	α " / δ " / R "	L	SWP / 15591 / 1+3	20225 / 462	-.9 / 0.08 / 12.6	L	O	14:15:41	00:30	4	4	1	MN=	
"	BD+30°2431 / 21	B3 / ~10	α 13, 36, 06 / δ +29, 37, 15 / R 222, 32, 24.5	H	SWP / 15592 / 1+5	366 / ~10 / f	-.87 / 0.08 / 12.5	L	O	14:54:58	293:00	5	0	3	MN=	
"	"	"	α " / δ " / R "		/ / 1+										MN=	
"	"	"	α " / δ " / R "		/ / 1+										MN=	
"	"	"	α " / δ " / R "		/ / 1+										MN=	

OBSERVATORY LOG

DATE D 30 M NOV Y 81 RAW TAPE D 30 M 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	PES CTS / ref. p. / slot undov/f.s	FOCUS / BKG / THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VILS E	HD 34816		α 5, 17, 16 / δ -13, 13, 57 / R 200, 45, 22.9	L	LWR / 12060 / 1+1	589 / TRAIL	-1.9 / 0.08 / 15.5	L	O	13:11:49	0.84	5	0	0	TRAILED RATE = 23.08 ITGR = 1 MN=	Benvenuti / P.B.
"	" / 20	B1 IV / 6.29	α " / δ " / R "	H	SWP / 15604 / 1+4	630 / 105 / f, und.	-19 / 0,08 / 11.8	L	O	13:17:46	00:22	5	0	0	MN=	
"	"	"	α 7, 6, 4 / δ " / R "	L	LWP / 1396 / 1+2	4 / TRAIL	-1.2 / 1.08 / 9.8	L	O	14:29:41	00:00.74	5	0	0	TRAILED RATE = 27.15 ITGR = 1 MN=	
"	"	"	α " / δ " / R "	H	LWP / 1397 / 1+3	4 / 4	-0.4 / 0.08 / 10.8	L	O	15:02:09	00:22	5	0 / 1	0	MN=	
"	"	"	α 4, 7, 7 / δ " / R "	H	SWP / 15605 / 1+5	735 / 276 / Earth scattered	-.5 / 0.08 / 11.5	S	O	15:56:50	00:50	5	0	0	MN=	
"	HD 93521 / 12	O9 Vp / 7.04	α 10, 45, 34 / δ 37, 50, 4 / R "	H	LWP / 1398 / 1+6	6025 / 15 / o/f	-1.1 / 0.08 / 11.2	L	O	16:49:10	03:50	5	6	0	MN=	
"	"	4 / 1	α 4, 4, 4 / δ 1, 1, 1 / R "	L	LWP / 1399 / 1+7	4 / 4 / -	-1.6 / 0.08 / 11.2	L / S	O / O	17:23:24 / 17:27:35	00:02 / 00:06	5 / 5	0 / 6	0 / 0	MN=	
"	"	"	α " / δ " / R "	L	LWR / 12061 / 1+8	4 / 4	-1.2 / 0.03 / 12.2	L / S	O / O	17:58:37 / 18:02:10	00:03 / 00:06	5 / 5	0 / 0	0 / 0	MN=	

OBSERVATORY LOG

DATE 30 NOV 81 RAW TAPE 30 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VICS E	AD 9352 12	09 V 7.04	α 10, 45, 34 δ 37, 50, 4 R , ,	L	LWR 12062 1+9	L L ,	-1.2 0.08 13.8	L S	0 0	18:33:34 18:56:25	00:03 00:06	5 4	0 0	0 0	MN=	Benn. P.R
			α , , δ , , R , ,	H L	SWP 15606 1+		-1.2 0.08 10.5	L L S	0 0 0	18:55:31 18:57:59 19:01:23	00:01 00:03 00:06	4 5	4 5	0 0	High Dispersion Use a mirror MN=	L /4
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+								1		MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS , ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3103 UK477	HD237844 21	B3 9.4	α 9, 48, 31 δ +55, 57, 38 R 265, 15, 27.2	L	LWP 1403 1+1	341 1 0F	-1.95 0.30 10.5	L	0	10:48:46	1:30	5	0	3	c = 219 B = 28 MN= 0	WILSON AC
3104	Q 957+561 85	Quasar	α 9, 57, 57.3 δ 56, 8, 18 R 263, 28, 10.9	L	LWP 1404 1+	b.o.	-1.80 0.08 8.5	L	0	11:41:41 14:58:13	357:0 440:0	3	4	9	READ AT GODDARD TOTAL = 577 MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+								1		MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 491 3105	0754+395 SEYFERT GALAXY 84	— 16 —	α 7, 54, 38.3 δ +39, 28, 36 R 118, 37, 31.5	L	SWP 15620 1+1	B/O	11.6 .16 -.9	L	O	10:53:38	180:00	3	5	1	L/x MEX DWN 20% N/B C III DN ~ 150 M/B MN=	WARD + MORRIS Jeßladen
3106	— 84	—	α , , δ , , R , ,	L	LWP 1408 1+2	B/O	10.2 .08 -.5	L	O	13:57:52	90:00	0	4	1	2 BAD SCANS IMAGE OK. MN=	— " —
3107	2302-089 SEYFERT 84	— 14	α 23, 02, 07 δ -08, 57, 19 R 112, 49, 22	L	SWP 15621 1+	B/O	10.2 .08 -1.1	L	O	17:23:20 17:51:03	25:00 35:00	3	4	1	IMAGE READ DOWN AT GSFC MN=	— " —
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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DATE 3 DEC 81 RAW TAPE 3 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PS 576	RR PIC 55	~0 12.0	α 6, 35, 10 δ -62, 35, 54 R 207, 19, 40.8	L	LWR 12071 1+1	175 3 OS	-0.86 0.55 13.8	L	O	10:20:39	14:0	5	0	1	MN at λ≈ 2848 Å C=205 B=26 MN= 501	SELVELLI AC
"	"		α , , δ , , R , ,	L	SWP 15632 1+2	155 3 OS	-1.25 0.40 10.2	L	O	10:46:47	16:0	5	5	0	NV: 217 C 178(1300) B=23 C 155(1800) MN=	
"	"	"	α , , δ , , R , ,	L	LWR 12072 1+3	187 1 OS	-0.90 0.40 14.5	L	O	11:13:02	18:0	5	0	1	C=242 B=27 MN at λ≈ 2866 MN= 499	
"	"	"	α , , δ , , R , ,	L	SWP 15633 1+4	163 7 OS	-0.91 0.08 10.2	L	O	11:43:02	18:0	5	5	1	NV=212 B=15 C(1300)=205 HeII 189 C(1800)= MN=	
"	"	"	α , , δ , , R , ,	L	LWR 12073 1+5	190 3 OS	-1.3 0.08 14.8	L	O	12:12:28	18:0	5	0	2	C=246 B=27 MN= 395	
"	"	"	α , , δ , , R , ,	L	SWP 15634 1+6	178 7 OS	-1.8 0.08 10.5	L	O	12 33 34	18:0	5	5	1	NV 241 B=14 C(1300)=168 CIV(167) HeII :200 MN=	
"	"	"	α , , δ , , R , ,	L	LWR 12 074 1+7	174 11 OS	-1.2 0.08 15.2	L	O	13 07 08	18:00	5	0	3	C=246 B=28 MN= 407	
"	"	"	α , , δ , , R , ,	L	SWP 15635 1+8	200 7 OS	-1.2 0.08 10.5	L	O	13:33:36	18:00	5	6	1	NV 2 pixels Sat. B=14 C(1300)=220 HeII: 225 CIV(200) MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T: FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PS 576	RR Pic 55	~0 12.0	α 06, 35, 10 δ -62, 35, 54 R 207, 19, 40.8	L	LWR 12075 1+9	178 6 OS	-2.0 0.08 15.5	L	O	14 01 03	18:00	5	0	2	C = 237 B = 28 MN at λ 3034 MN= 461	SELVELLI AC
"	"	"	α / / , , , δ - , - , - R / , ,	L	SWP 15636 1+10	192 9	-1.5 0.08 10.5	L	O	14 40 08	18:00	5	5	1	NV = 229 B = 14 C(1300) = 209 MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 12076 1+11	190 14	-1.1 0.08 15.5	L	O	15 09 17	18:00	5	0	2	C = 248 B = 29 MN= 365	"
"	"	"	α , , δ , , R , ,	L	SWP 15637 1+12	178 11	-1.1 0.08 10.8	L	O	15 37 25	18:00	5	5	1	NII 216 : B = 15 C(1300) = 205 C(1800) = 158 MN=	"
PS 615	HD 182917 39	M3III+B 6.0	α 19, 23, 13 δ 50, 08, 00 R 141, 39, 21.8	H	SWP 15638 1+13	16701 49 o/f	-1.4 0.08 10.8	L	O	16 48 14	60:00	4	6	2	λ 1641 quasar C(1800) = 174 B = 42 MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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DATE D 4 M DEC Y 81 RAW TAPE 4 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3108 UK491	NULL	/	α 2, 36, 40.8 δ -52, 24, 27 R 150, 47, 473	/	LWP 1409 1+1	/	/	/	/						READG 1 MN= /	WARD MORRIS AC
3109	234-525 84	Seyf.	α 2, 36, 40.8 δ -52, 24, 27 R 150, 47, 473	H	LWP 1410 1+2	6.0	-1.18 0.08 9.8	L	O	13:39:40	80:0	0	0	0	MN= /	
3110	"	"	α , , . δ " , " , " R , ,	L	SWP 15648 1+3	6.0	-1.22 0.08 9.5	L	O	15:10:24 16:19:10	65:0 88:0 153:0	3	3	1	Lyα : 108 BLK = 22 CIV : 82 C(1900) = 56 MN= /	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	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
DK 360	1136-135 85	Q50 16.1	α 11, 36, 38.5 δ -13, 34, 5.7 R 250, 23, 27.1	L	SWP 15657 1+1	12 0 05	-0.90 0.4-0.08 11.2	L	O	11:18:43	388:0	3	6	3	C(1800-1900) B=7.1 Lyα 3 pix oak C(1960)=143 MN=	BERGERON AC
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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DATE D 6 M DEC Y 81 RAW TAPE D 6 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DK 602	1136-135 85	Q50 16.17	α 11, 36, 38.5 δ -13, 34, 5.7 R , ,	L	LWP 1414 1+3	6.0	-0.7 0.08 12.5	L	O	11:26:24 16:48:14	319:0 24:0 34:3:0 ←	4	5	5	E=205 C=159 B=62 TOTAL MN=	BERGERON AC
	NULL		α , , δ , , R , ,		LWR 12090 1+1				/						MN=	
	NULL G-1 CUTOFF		α , , δ , , R , ,		LWP 1418 1+2										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JB513	2135-148 85	QSO 15.5	α 21, 35, 1.2 δ -14, 46, 28 R 108, 33, 1.8	L	SWP 15673 1+1	B/0	-1.5 .08 9.8	L	O	11/01/26	406:00	3	4	3	Bg 44 CIV 180 cont. 100 MN=	Bergeron/ Barret W.W.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JB526	PKS 0743-67 85	16.4	α 7, 43, 22.2 δ -67, 19, 08 R 217, 37, 00	L	LWP 1414 1+3	B/0	-1.8 .08 10.4	4 L	O	11/05/45	364/0	2	4	3	Lyα 150 Bg 49 MN=	Bergeron/ Barret W.W.
	NULL		α , , δ , , R , ,		LWR 12105 1+1										MN=	"
	NULL		α , , δ , , R , ,		LWP 1413 1+2										MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
JB526	MR 2251-178 84	14.4	α 22, 51, 25.9 δ −17, 50, 54 R 111, 3, 47	L	SWP 15690 1+1	B/o	−2.9 .08 9.8	L	O	11/22/36	40/0	2	5	0	Lyα 1D Lyα 190 MN=	Bergeron/ [redacted] W.W.
	MR2251-178 84	"	α , , δ , , R , ,	L	LWR 12106 1+2	B/o	−.2 .08 13.8	L	O	12/05/33	80/0	3	4	3	MN= 188	"
	MR 2251-178 84	"	α , , δ , , R , ,	L	SWP 15691 1+3	B/o	−1.4 .08 9.8	L	O	13/33/44	255/0	4	7	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 475 3111	HD 200120 26.	Be 4.7	α 20, 58, 7 δ +47, 19, 30 R 128, 43, 543	HI	SWP 15698 1+1	30 — F/U	−2.7 −.1 8.5	L	O	10:34:51	1:10	5	0	1	MN=	HOWARTH JCB
3112	H2 HER 59	B 13	α 16, 56, 02 δ +35, 25, 5 R 183, 1, 58.2	L	SWP 15699 1+2	62 16 S/O	−1.7 .08 9.2	L	O	11:31:17	40:00	2	2	0	MN=	"
3113	"	"	α , , δ , , R 183, 01, 58.2	L	LWR 12113/4 1+4	—	−1.3 .08 14.2	L	O	12:16:09	20:00	2	0	2	4-MIN-HTR-WHT-UP MN=	"
3114	HD 138749 26	Be 4.2	α 15, 30, 65 δ +31, 31, 36 R 206, 3, 52.9	H	SWP 15700 1+3	600 80 F/U	−.7 .08 9.8	L	O	13:08:53	2:00	6	0	1	MN=	"
3115	NGC 5548 84	Seyfert 1.5	α 14, 15, 44 δ +25, 22, 00 R 224, 26, 57.9	L	SWP 15701 1+5	65 — S/O	−1.5 .08 9.8	L	O	14:20:59	60:00	3	4	1	MN=	"
3116	HD 5394 26	Be 2.6	α 00, 53, 40 δ +60, 26, 47 R 78, 44, 15.4	H	SWP 15702 1+6	3400 — F/U	−1.8 .08 10.5	L	O	15 59 46	0:08	5	0	1	v. weak microphonics MN= 451	"
3117	FQ 84	Seyfert N12Y	α 01, 51, 51 δ −59, 03, 59 R 129, 31, 2.8	L	SWP 15703 1+7	60 S/O	−1.5 .08 10.2			17:36:53	12:00	2	4	0	MN=	"
			α , , δ , , R , ,		1+										MN=	

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DP 552	AG DRA 57	Symb 8.75	α 16, 1, 24 δ 66, 56, 30 R 196, 4, 41.8	L	SWP 15709 1+1	1037 3 OF	-0.74 0.08 11.5	L S	O	10:07:34 10:26:18	15:0 5:0	7 4	7 6	1	GDE(-1010,1335)(553) B=20 C IV=173 He II 110pix sat C=138 MN=	CASSATELLA C=160 a 1900 Å sat
"	"	"	α , , δ , , R , ,	H	LWR 12124 1+2	994 3 OF	-1.6 0.08 15.2	L	O	10:34:59	40:0	3	5	1	GDE(-1134,-660)1275 GAIN switch UP MgII: 225 C=34,532=105 2710+147 MN=	
"	"	"	α , , δ , , R , ,	H	SWP 15710 1+3	/ 4 OF	-2.1 0.08 11.2	L	O	11:22:08	120:0	4	7	2	N II: 192/175 C IV B pos sat/249 C(1900)=155 B= MN=	
"	"	"	α , , δ , , R , ,	L	LWR 12125 1+4	1032 6 OF	-1.0 0.08 15.2	L	O	13:26:37	5:0	7	7	1	uncorrected from λ = 2300 6000 3000 B = MN=	
"	"	"	α , , δ , , R , ,	L	SWP 15711 1+5	1007 1 OF	-1.5 0.08 11.5	L S	O	14:04:53 14:11:15	3:00 2:00	5 3	7 5	1	C=173 (λ<1500); NV:173 C=173 (λ>1800) C IV: 229; He II sat He II: 172 MN=	B=16
"	"	"	α , , δ , , R , ,	H	SWP 15712 1+6	1021 5 OF	-2.4 0.08 11.5	L	O	14:41:01	20:0	1	5	1	He II: 200 B=21 C IV: 100/78 MN=	
"	NOVA-VUL 63	Pec 8.7	α 20, 19, 1 δ 21, 24, 43 R 131, 35, 49.5	L	LWR 12126 1+7	1222 7 OF	-1.0 0.08 15.5	L	O	15:14:18	8:0	5	0	1	C=198 B=29 MN=	
"	CI Cyg 57	Symb	α 19, 48, 21 δ 35, 33, 30 R 141, 46, 11.7	L	SWP 15713 1+8	264 2 OF	-1.4 0.08 11.2	L	O	16:35:22	50:0	2	5	2	B= C= N V=142; Si IV=177 C IV=sat; He II 12sat MN=	O III] = 243 N III] = 178 C III] = 3pix sat Si III] = 195

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ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DP552	CI CYG 57	Symb 10.5	α 19, 48, 21 δ 35, 33, 30 R 141, 46, 11.7	L	LWR 12127 1+9	261 0 OF	-1.2 0.08 15.9	L	O	17:29:51	17:0	3	5	1	MgII 241, OIII 3032 97 DN; C=162 B=29 MN=	CASSATELLA
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 12 M DEC Y 81 RAW TAPE D 12 M DEC

ESA / UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DK 518	L 745-46A 43	DC 13.0	α 7 , 38 , 0 δ −17 , 17 , 0 R 221 , 52 , 40.7	L	LWR 12132 1 + 1	225 7 slow/ov	−1.5 0.08 15.5	L	0	11:13:41	30:00	2	2	0	Double glass Identification uncertain MN=	KOESTER / P.B.
"	L97-3 43	DC 13.9	α 8 , 6 , 27.6 δ −66 , 09 , 48 R 218 , 39 , 5.8	L	LWR 12133 1 + 2	51 4 slow/ov	−1.5 0.08 15.5	L	0	12:37:31	130:00	VS	8		MN=	
"	G 33-49 43	DC 13.8	α 1 , 25 , 13.1 δ 15 , 54 , 29 R 107 , 30 , .7	L	LWR 12134 1 + 3	58 16 slow/ov	−1.4 0.08 16.9	L	0	15:29:10	195:00	5	8	1	MN=	
"	Q 35-29 43	DA 13.22	α 1 , 05 , 55.5 δ 25 , 00 , 05 R 97 , 51 , 46	L	SWP 15718 1 + 4	80 7 slow/ov	−1.1 0.08 10.5	L	0	17:29:23	18:00	4	8	1	MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE 13 DEC 81 RAW TAPE 13 DEC

ESA / UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v B(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	HD G0753 21	B3 IV 6.69	α 7 , 32 , 08 δ −50 , 28 , 29 R 210 , 37 , 23.4	L	SWP 15734 1 + 1	7500 — f/ov	−1.1 0.08 8.8	L S	0 0	10:35:50 10:42:47	00:10 00:30	5 5	0 0	0 0	MN=	BENVENUTI / P.B.
			α , , δ , , R , ,	L	LWR 12139 1 + 2	, , 14.5	−1.6 0.08 8.8	L S	0 0	10:46:10 10:52:10	00:07 00:21	5 5	0 0	1 1	MN=	
			α , , δ , , R , ,	L	SWP 15735 1 + 3	4 , 8.8	−2.5 0.08	L	0	11:45:26	00:41	5	0	0	TRAILED MN=	
			α , , δ , , R , ,	L	LWR 12140 1 + 4	, , 14.2	−2.5 0.08	L	0	11:50:25	00:31	5	0	1	TRAILED MN=	
	BD +28° 4211 16	SIO 10.53	α 21 , 48 , 56 δ 28 , 37 , 35 R 121 , 23 , 14	L	SWP 15736 1 + 5	313 — 8.5	−1.3 0.08	S L	0 0	13:13:18 13:16:28	00:60 00:56	5 5	0 0	1	MN=	
			α , , , δ , , , R , , ,		LWR 12141 1 + 6	, , 14.2	−1.3 0.08	S L	0 0	13:18:30 13:24:45	03:00 01:00	5 1	0 0	0 0	MN=	
VILS STAN2	HD 200 901 41	F3 IV 4.12	α 21 , 42 , 22.7 δ 25 , 24 , 52 R 121 , 52 , 44.6	L	LWR 12142 1 + 7	656 80 f/wd.	−1.5 0.08 13.8	L S	0 0	14:21:30 14:31:58	00:12 00:17	6 4	0 0	1 1	MN=	
			α , , , δ , , , R , , ,	L	SWP 15737 1 + 8	4 , 8.5	−1.5 .03	L S	0 0	14:35:10 14:40:11	02:00 02:10	5 3	0 0	0	MN=	

OBSERVATORY LOG

DATE 13 Dec 81 RAW TAPE 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	PES CTS ref. p. slot undov/f.s	FOCUS DNG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
VILS STAN2	HD 206901 41	F2 IV 4.12	α 21, 42, 22.7 δ 25, 24, 52 R 121, 52, 46.6	H	LWR 12143 1+9	656 "	-1.8 0.08 14.2	L	O	15:16:14	13:30	6	0	1	MN=	BENVENUTI P.B
" "	HD 202444 40	F2 IV 3.74	α 21, 12, 47.6 δ 37, 49, 51 R 128, 6, 41	L	LWR 12144 1+11	730 "	-1.6 0.08 14.2	L S	O O	16:30:17 16:33:08	00:10 00:11	6 5	0 0	4	MN=	
		F2 IV	α , , δ , , R , ,	L	SWP 15738 1+10	"	-1.6 0.08 8.5	L S	O O	16:35:46 16:38:55	01:00 01:31	5 5	0 0	0 0	MN=	
			α , , δ , , R , ,	L	SWP 15739 1+12	"	-1.1 0.08 8.8	L	O	17:06:17	36:15 [illegible]	7	3 1	1	Saturated below 1700 Å MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 14 Dec 81 RAW TAPE 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	PES CTS ref. p. slot undov/f.s	FOCUS DNG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
DK518	L745-46A 37	DF 13.0	α 7, 38, 00 δ -17, 17, 00 R 219, 53, 7	L	SWP 15747 1+1	226 8 S.O.	-.9 -.08 8.5	L	O	11/02/54	260/0	3	0	2	MN=	KOESTER V.W
DK518	L791-40 37	DB 13.8	α 23, 17, 6 δ -17, 22, 0 R 111, 43, 1	L	LWR 12151 1+2	53 22 S.O	-1.4 -.08 13.2	L	O	16/24/15	79/0	4	0	3	4 min HTR V.V. MN=	KOESTER W.W.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 15 M Dec Y 81 RAW TAPE D 15 M 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
BF329	NGC 3393 84	13.0	α 10, 46, 00 δ −24, 53, 48 R 244, 30, 209	L	LWR 12153 1+1	69 13 S.0	−1.1 ·16 13.5	L	O	10/23/10 —	40/0 —	1	1	2	MN=	WAMSTEKER W.W.
BF329	" "	"	α , , δ " , " , " R , ,	L	SWP 15761 1+2	52 S.0	−1.1 ·08 9.2	L	O	11/08/09 —	16/08 —	1	2	0	Lyα @ 35 lg 18 MN=	WAMSTEKER W.W.
BF329	TCrB 52	10	α 15, 57, 24 δ 26, 3, 39 R 206, 17, 56	L $	LWR 12154 1+3	473 1/38 F.0	−.9 ·08 14.2	L S	O O	12/05/08 13/06/01	55/0 20/00	6 3	7 3	4 4	MN=	WAMSTEKER
BF329	"	"	α , , δ " , " , " R , ,	L	SWP 15762 1+4	479 1 F.0	−.9 ·08 8.5	L	O	13/23/37 —	60/00 —	3	5 1	0	CIII 220 cont 90 lg 20 MN=	WAMSTEKER W.W.
"	NGC 1569 82	11.9	α 4, 26, 03 δ 64, 44, 31 R 21, 51, 53	L	SWP 15763 1+5	101 19 S.0.	−1.0 ·08 9.2	L	O	15/17/15 —	150/0 —	3	1	1	MN=	WAMSTEKER WW.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 16 M Dec Y 81 RAW TAPE D 16 M 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	EM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 427	Q0736+017 85	16.5	α 7, 36, 42.6 δ 1, 43, 59 R 231, 39, 8.7	L	SWP 15773 1+	B/0	−1.7 ·08 8.5	L	O	10/55/14 17/36/33	400/0 440 (883)	3	3	9	TOTAL 883 min READ AT GSFC MN=	CARSWELL W.W.
			α , , δ , HANDED to R , ,		1+	GSFC	after	exposing							MN=	
			α , for 400/0 min δ , and R , ,		1+					continuing	tracked	@			17/36/33 MN=	
			α , , δ , , R , ,		1+								1		MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 17 M Dec Y 81 RAW TAPE D 17 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 427	Q1146-037 85	16.5	α 11,46,22.4 δ −3,47,29 R 246,47,56	L	LWR 12158 1+	B/O	−.8 .08 11.8	L	O	11/33/18	440/ (645)	3	3	5	READ AT GSFC TOTAL = 645 min. MN=	Cornwell W.W.
			α δ H/O : F.O R		GSFC 1+	exposing.									MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 18 M Dec Y 81 RAW TAPE D 18 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3113 UK 475	NGC5548 84	12.5	α 14,15,44 δ 25,22,00 R 230,4,48	L	SWP 15792 1+1	65 5 OV.S.	−1.5 .08 9.8	L	O	10/36/32	60/0	3	4	0	Lyα 140, CIV 110 cont 50 by 20 MN=	Howarth W.W.
3114	NGC5548 84	12.5	α δ 11,4,4 R	L	LWR 12164 1+2	59 5 OV.S.	−1.2 .08 14.8	L	O	11/41/38	60/0	3	4	3	MN=	Howarth W.W.
3115	A0538-66 59	12.5	α 5,35,43 δ −66,53,40 R 178,20,51	L	SWP 15793 1+3	128 OV.S	−1.0 .08 9.8	L	O	13/34/16	40/0	3	4	0	MN=	Howarth W.W.
3116	A0538-66		α δ R	L	LWR 12165 1+4	186 OV.S	−.5 .08 15.2	L	O	14/16/38	30/0	3	3	3	MN=	Howarth W.W.
3117	F-9 84	13	α 1,21,51.2 δ −59,03,59 R 122,31,45	L	SWP 15794 1+5	63 9 OV.S	−.8 .08 10.2	L	O	15/24/56	45/0	3	7	0	cont 60 Lyα just sat. CIV 140 by 13 MN=	Howarth W.W.
3118	F-9 84		α δ R	L	LWR 12166 1+6	59 10 OV.S	−1.1 .08 15.2	L	O	16/13/12	40/0	4	3	3	MgII 160 MN=	Howarth W.W.
3119	F-9 84	11	α δ R	L	SWP 15795 1+7	56 8 OV.S	−1.0 .08 10.5	L	O	16/57/18	20/0	2	5	0	Lyα 170 by 18 MN=	Howarth W.W.
3120	F-9 84	4	α δ R	L	LWR 12167 1+8	57 6 OV.S	−1.4 .08 15.9	L	O	17/29/12	17/0	2	3	3	MgII 100. MN=291	Howarth W.W.

OBSERVATORY LOG

DATE 19 DEC 81

ESA / (UK) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	PES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3121 4K427	Q 742+318 85	16	α 7, 42, 31 δ 31, 50, 16 R 281, 1, 9	L	LWR 12177 1+	B/O	-1.8 .08 12.8	L	O	10/40/56	440:0 (500)	4	4	3	TOTAL TIME 500 MN=	Carswell W.W.
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+	B/O: Exposing to GSFC									MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 20 DEC 81 RAW TAPE 20 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 427 3122	2141+175 85	QSO 16.0	α 21, 41, 138 δ +17, 30, 02 R 124, 15, 3.3	L	SWP 15818 1+	B/O acquired by GSFC		O	O	09:18:46 16:42:3	440 440	3	7	9	EXP STARTED AT GSFC HANDOVER EXPOSING IMAGE RECEIVED GSFC	CARSWELL WW
			α , , δ , , R , ,		1+										920 min total MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 21 M DEC Y 81 RAW TAPE 21 DEC

ESA / (OR) UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_v E(B-V)	RIGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 427 3123	0736+017 65? (85)	QSO 16.5	α 7,36,42.6 δ 1,43,59 R 226,23,13.6	L	SWP 15822 1+1	BO	-.5 .08 9.5	L	O	10:40:27	427:00	3	3	3	GUIDE X=-472 y:-427 dT_S=177 FO MN=	CARSWELL PP
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 22 DEC 81 RAW TAPE 22 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
OV 598	HD 86590 46	KOV 7.9	α 9,57,13.2 δ 24,47,36 R 258,12,56.1	L	SWP 15832 1+1	1959 4 FO	-1.3 .08 10.2	L	O	10:40:14	150:00	3	3	1	MN=	RUCINSKI PP
"	"	"	α , , δ , , R , ,	L	LWR 12181 1+2	2065 9 FO	-1. .08 14.8	L	O	13:23:27	5:00	3	4	3	HTR WARM-UP-4 min MN= 624	"
"	HD 166181 44	G5V 7.7	α 18,06,18.9 δ 29,40,57 R 178,25,27.8	L	SWP 15833 1+3	2842 5 FO	-.6 .08 10.5	L	O	14:17:14	150:00	3	3	1	MN=	"
"	"	"	α , , δ , , R , ,	L	LWR 12182 1+4	3071 64 FO	-1. 0.08 14.5	L	O	16:50:33	5:00	5	0	3	HTR WARM-UP: 4 min MN=	"
"	HD 144284 41	F8 IV 4.0	α 16,00,56.8 δ 58,41,53 R 207,30,2.4	L	SWP 15834 1+5	573 76 FU	-.8 .08 11.2	L	O	17:30:42	10:00	5	2	0	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 23 DEC 81 RAW TAPE 23 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 465 3124	NGC 5548 84	Sept 13.5	α 14, 15, 44 δ 25, 22, 0 R 223, 28, 18.9	L	SWP 15855 1+1	58 8 SO	-1.1 .08 12.5	L	O	10:46:16	40:00	3	5	1	Guide x = 1569 y = -469 245 FO MN=	SNIJDERS PP
3125			α , , δ , , R , ,	L	LWR 12193 1+2	60 4 SO	-1.2 .08 15.5	L	O	12:21:25	80:00	3	5	3	x = 1362 y = -327 257 FO MN=	
3126	NGC 1068 84	Sept. 11	α 2, 40, 7.8 δ -0, 13, 2.5 R 119, 9, 51.6	L	SWP 15856 1+3	120 87 FO	-1.5 .08 11.5	L	O	15:20:42	147:00	3	3	1	OFFSET ΔS = +6" Δα = + 10.4 arcsec from the center of the galaxy MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 24 DEC 81 RAW TAPE 24 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PHCAL	HD 60753 21	B3IV 6.7	α 17, 32, 8.1 δ -50, 28, 29 R 189, 34, 41.7	L	LWR 12208 1+9	7914 13 FO	-1.6 .08 12.8	L S	O	10:49:08 10:52:08	0:07 0:21	5 5	0	2	MN=	PATRIARCHI PP
			α , , δ , , R , ,	L	SWP 15871 1+10	7937 23 FO	-1.3 .08 7.5	L S	O	10:55:27 10:59:12	0:10 0:30	5 5	0	1	MN=	
	HD 93521 12	O9Vp 6.9	α 10, 45, 33.6 δ 37, 50, 4.5 R 262, 30, 16.2	L	LWR 12209 1+11	5973 7 FO	-1.1 .08 12.8	L S	O	12:23:08 12:28:03	0:03 0:09	5 5	0	2	MN=	
			α , , δ , , R , ,	L	SWP 15872 1+2	6021 12 FO	-1.1 .08 7.2	L S	O	12:31:22 12:34:32	0:03 0:09	4 5	0	0	MN=	
	BD +28 4211 16	Op 10.5	α 21, 48, 56 δ 28, 37, 34 R 128, 45, 36.8	L	LWR 12210 1+3	271 0 FO	-1.7 .08 12.5	L	O	14:13:39	1:00	4	0	2	MN=	
			α , , δ , , R , ,	L	SWP 15873 1+5	274 1 FO	-1.3 .08 7.2	L	O	14:17:41	0:26	5	0	0	MN=	
			α , , δ , , R , ,		LWP 1415 1+4										RD PREP after DEGAS IS SAFETY MN=	
			α , , δ , , R , ,	L	LWP 1416 1+6	265 0 FO	-1.3 .08 6.8	L	O	15:38:17	0:50	5	0	2	MN=	

OBSERVATORY LOG

DATE D 24 M DEC Y 81 RAW TAPE D 24 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
PH CAL	ZETA CAS 20	B2 IV 3.7	α 0 , 34 , 10 δ 53 , 37 , 19 R 99.51 , 44.2	H	LWR 12211 1+7	926 126 FU	-1. .08 11.5	L	O	17:23:58	0:21	5	0	2	HD 3360 MN=	PATRIARCHI PP
〃	〃 〃	〃 〃	α 〃 δ 〃 R 〃	H	SWP 15874 1+8	1004 133 FU	-1.1 .08 7.5	L	O	17:26:52	0:24	5	0	1	〃 MN=	〃
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE D 25 M DEC Y 81 RAW TAPE D 25 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 465 312.7	IC 4329A 84	Sey I 14.4v	α 13 , 46 , 27.8 δ -30 , 3 , 40 R 259,6 , 11	L	SWP 15883 1+1	55 B-O S.O.	-.9 .08 7.2	L	O	10:41:09	420:00	2	0	4	MN=	T. SNIJDERS UB
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	
			α δ R		1+										MN=	

OBSERVATORY LOG

DATE 26 DEC 81 RAW TAPE 26 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	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
VILSE GLOBC	NGC 416 83	GL.CL. 11.42	α 1,6,36 δ -72,37,00 R 108,40,8.3	L	LWR 12222 1+1	98 23 S.O.	-.93 .08 14.2	L	O	10:51:57	415:00	3	0	8	MN=	L. BIANCHI
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE 27 DEC 81 RAW TAPE 27 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	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
VILSE SGYF6	AKN 120 84	SEYF.I ~14	α 5,13,37.9 δ -0,12,15.6 R 145,64,8.3	L	SWP 15888 1+1	75 2 S.O.	-1.6 .08 10.5	L	O	11:20:22	60:00	3	4	1	MN=	L. BIANCHI
"	"	"	α , , δ " , " , " R , ,	L	LWR 12225 1+2	70 5 S.O.	-1.4 .08 14.5	L	O	12:27:19	40:00	4	0	2	MN= 388	"
"	~~E113-IG45~~ GSC 08480.00576 84 64	~~Seyf.I~~ ~13.5 13.9	α 1, ~~21~~ 22, ~~51.6~~ 51.59 δ -59, ~~5~~, ~~59~~ 22.79 R 114,27,15.1	L	SWP 15889 1+3	72 5 S.O.	-.7 .08 10.2	L	O	13:45:15	25:00	0	0	1	WRONG TARGET MN=	"
"	E113-IG45	Seyf. I ~13.5	α 1,21,51.2 δ -59,9,59 R 114,29,15.1	L	LWR 12226 1+4	61 5 S.O.	-.6 .08 14.8	L	O	14:24:42	40:00	4	0	2	MN= 451	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 15890 1+5	B-O	-1.3 .08 9.8	L	O	15:08:15	25:00	5	3	1	MN=	"
"	NGC 3783 84	Seyf. I ~13	α 11,36,30 δ -37,28,00 R 244,32,56.7	L	LWR 12227 1+6	115 15 S.O.	-1.6 .08 14.8	L	O	16:21:16	30:00	4	5	3	4-MIN WARMUP MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 15891 1+7	112 14 S.O.	-1.6 .08 9.8	L	O	16:54:54	50:00	3	5	1	MN=	"
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 28 M DEC Y 81 RAW TAPE D 28 M 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
RW508	PW-1 70	PNSdO 15.3 0.0	α 6,15,23.1 δ 55,38,1 R 4,57,25.7	L	LWR 12231 1+1	B-O	-1.1 .08 16.2	L	O	10:55:10	150:00	5	0	5	4 MIN. WARM UP MN≈.45	R. WEINBERGER LB
"	"	"	α , , δ " , " , " R , ,	L	SWP 15894 1+2	B-O	-1.1 .08 8.8	L	O	13:27:43	45:00	4	0	1	MN=	"
"	"	"	α , , δ " , " , " R , ,	L	LWR 12232 1+3	B-O	-1.6 .08 15.9	L	O	14:14:26	150:00	5	0	5	4 MIN. WARM UP MN=	"
"	"	"	α , , δ " , " , " R , ,	L	SWP 15895 1+4	B-O	-1.1 .08 8.5	L	O	16:47:02	55:00	5	0	1	MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 29 M DEC Y 81 RAW TAPE D 29 M 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 THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FR. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
UK 433 3128	NGC 4449 82	Galaxy	α 12,25,43.4 δ 44,21,53 R 253,50,0.6	L	LWR 12233 1+1	B-O	-.49 .08 10.8	L	O	10:55:54	210:00	5	0	4	READ W. 4 MIN. WARM UP MN=	P. GONDHALEKAR LB
" 3129	"	"	α , , δ " , " , " R , ,	L	SWP 15902 1+	B-O	-.5 .08 8.2	L	O	10:57:48	210:00	3	0	2	Coordinates in LWLA MN=	"
" 3130	"	"	α 12,25,46.9 δ 44,22,16 R 253,57,26.9	L	LWR 12234 1+	"	-1.7 .08 14.2	L	O	15:09:17	140:00	3	0	4	READ WITH 4 MIN. WARMUP MN=	"
" 3131	"	"	α , , δ " , , R , ,	L	SWP 15903 1+	"	-.8 .08 8.8	L	O	15:32:31	135:00	2	0	1	Coordinates in LWLA MN=	"
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	

OBSERVATORY LOG

DATE D 30 M DEC Y 81 RAW TAPE D 30 M DE

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONO
UK433 3133	NGC 1313 80	Scd ~12	α 3 , 17 , 39 δ −66 , 40 , 42 R 135 , 10 , 0.9	L	SWP 15907 1 + 2	B-O	-1.7 .08 9.2	L	O	11:01:56	406:0	3	0	3	MN=	P. GONDHAL LB
" 3132	"	"	α , , , δ , , , , , , R , ,	L	LWR 12236 1 + 1	B-O	-1.3 .08 13.5	L	O	11:04:05	385:0	2	0	6	Coordinates in SWLA. MN= 282	"
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	
			α , , δ , , R , ,		1 +										MN=	

OBSERVATORY LOG

DATE D 31 M 12 Y 81 RAW TAPE D 31 M 12

OBSERVATORY LOG

DATE D 31 M 12 Y 81 RAW TAPE 31

ESA / UK UK NO. PROPOSAL	OBJECT TYPE PHASE	SP.TYPE m_V E(B-V)	RGHT ASCENSION DECLINATION ROLL ANGLE	RESOL.	CAMERA IMAGE NO. RAW T. FILE	FES CTS ref. p. slot undov/f.s	FOCUS BKG THDA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRON
UK CAL 47 3134	S 108 13 —	0 12·4	α 01 , 01 , 48·3 δ -72 , 22 , 50 R 102 , 25 , 35·8	H	SWP 15408 1 + 17	195 new ·05	-1·3 ·08 10·5	L	O	10:48:41	322	4	0	2	MN=	BLADES JCB
3133	NULL.	/	α , , δ , , R , ,		LWP 1417 1 + 1	—	-1·7 ·08 10·8	/		—	—	0	0	1	MN=	A
3134	NULL	/	α , , δ , , R , ,		LWP 1418 1 + 2	—	-1·7 ·08 10·5			—	—	0	0	3	HI READ MN=	H
3135	60 % CALUV	—	α , , δ , , R , ,		LWP 1419 1 + 3	—	-2·3 ·08 11·2			~~12:12:13~~ 12:21:26	2:04	0	0	8	[redacted] [redacted] FINAL UVTEMP=39 MN=	H
3136	2.0 % CALUV	—	α , , δ , , R , ,		LWP 1420 1 + 4	—	-2·3 ·08 11·8			12·57·35	0:41				[redacted] FINAL UVTEMP=36 MN=	H
3137	60 % CALUV	—	α , , δ , , R , ,		LWP 1421 1 + 5	—	-2·3 ·08 12·2			13:30:27	2:04				FINAL UVTEMP=38 MN=	H
3138	20 % CALUV	—	α , , δ , , R , ,		LWP 1422 1 + 6	—	-2·2 ·08 12·5			14:15:53	0:41				FINAL UVTEMP=37 MN=	H
3139	120 % CALUV	/	α , , δ , , R , ,		LWP 1423 1 + 7	/	-1·7 ·08 12·8			14:47:45	4:08				FINAL UVTEMP=42 MN=	H

OBSERVATORY LOG

DATE D 31 M 12 Y 81 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	TES CTS ref. p. slot undov/f.s	FOCUS BKG THOA	APERTURE	AP. SHUT.	G.M.T. hh:mm:ss	DURATION mm:ss	CONTIN.	FM. LINES	BACKG.	COMMENTS	OBSERVER / RESIDENT ASTRONOMER
3140	160 % CALIB	—	α , , δ , , R , ,		LWP 1424 1+8	—	-1.6 08 12.8			15:37:36	5:31				FINAL UVTEMP=39 MN=	BLADES JUB
3141	NULL	—	α , , δ , , R , ,		LWP 1425 1+9		-1.6 .08 13.0	/							LO READ MN=	
3142	NULL	—	α , , δ , , R , ,		LWP 1426 1+10		— .08 13.2								HI READ MN=	"
3143	NULL	—	α , , δ , , R , ,		LWR 12240 1+11	—	.08 13.5						1		MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	
			α , , δ , , R , ,		1+										MN=	