

6/3/88

TO CAM

Spectrograph ECHELLE Intensified Reticon
 Log Sheet
 Grating 3002 Observer JMZ
 Telescope 61" Wyeth Date 6/1-2/88 Disk ORO 2157

Change.... File ID 1950.0 RA Dec L/R Exposure Comments

Change....	File	ID	1950.0 RA	Dec	L/R	Exposure	Comments
		1			↓	60s	2 S187A DRIZZLE
		2		-15°		2M	16 sky
		3			↑	60s	
		4			↓	60s	
		5		-15°		2M	16 sky
		6			↑	60s	
		7			↓	60s	2 S187A
		8		+20°		2M	16 sky
		9			↑	60s	
		10			↓	60s	
		11		+20°		2M	16 sky
		12			↑	60s	
		13			↓	60s	
		14	H114762	13 04 54	17 46 55	5M	17 THY STD 7.3
		15			↓	60s	
		16	H114762	"	"	4M	" " "
		17			↑	60s	
		18	H114762	"	"	5M	" " "
		19			↓	60s	
		20	H114762	"	"	5M	" " "
		21			↑	60s	
		22			↓	60s	STOPPED BY CLIPS 2030 EST
		23	SKYVIEW	13 04 54	17 46 55	3M	16 sky
		24			↑	60s	
		25			↓	60s	
		26	SKYVIEW	0 hrs	+200	3M	16 sky
		27			↑	60s	
		28	INCAUS			120M	
		29	INCAUS			120M	
		30					
		31					
		32					

6-2/3-1988
 clear

6/4/88

Spectrograph ECHELLE Intensified Reticon TO CAM
 Log Sheet RAW RET
 Grating 3002 Observer JRC
 Telescope 61" Wynth Date JUNE 3/4 1988 Disk 020 2158

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		TAR			↓	60s	VAR CLDY 5/578
	W13777	13 11 18	30 02 42			7"	SAS7 8.59
	TAR				↑	60s	
	TAR				↓	60s	
	W20942	13 04 37	31 22 22			15.5"	SAS7 9.68
	TAR				↑	60s	
	TAR				↓	60s	
	I20702	13 48 03	42 48 14			20"	40 FSTARS 6.89/400
	TAR				↑	60s	
	TAR				↓	60s	
	H14651	16 11 43	-3 34 01			2"	17 IAN STD 2.7
	TAR				↑	60s	clouded out completely
6/4/88	TAR				↓	60s	
	SKY EVEN	0 hrs	+30°			2"	16 SKY
	TAR				↑	60s	
	TAR				↓	60s	
	SKY EVEN	4 hrs West	T 300			2"	16 SKY
	TAR				↑	60s	
	TAR				↓	60s	
	H114762	13 09 55	17 46 55			3"	17 IAN STD 7.3
	TAR				↑	60s	
	H114762	" " "	" " "			4"	" " " LATER BY CLOS "
	TAR				↓	60s	
	H114762	" "	" "			3"	" " "
	TAR				↑	60s	
	H114762	" "	" "			3"	" " "
	TAR				↓	60s	
	I1247	12:47:03	-05:48:22			12ms	9.0/25 Marschall (clouds)
	TAR				↑	60s	
	/						
	/						

6/5/88

Intensified Reticon TO CAM

Spectrograph ECHELLE Log Sheet RAW RET

Grating 300 L Observer RPS

Telescope 61" Wyeth Date 4-5 June 1988 Disk ORO 2159

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		Th-Ar			↓	60s	5167A ^o -cloudy-
	W13777	13:11:19	30:02:42			7 ³ / ₄ m	8.6 SAST (stops go)
		Th-Ar			↑	60s	
		Th-Ar			↓	60s	
	W20942	13:04:37	31:22:22			10m	9.7 SAST
		Th-Ar			↑	60s	
		Th-Ar			↓	60s	6563A ^o
	VCVn	13:17:17	45:47:22			18m	6.5 H-d profile Balmers (stopped by clouds)
		Th-Ar			↑	60s	
		Th-Ar			↓	60s	5187A
	G165-22	13:35:51	39:26:00			2.5m	8.9/15 HALOS
		Th-Ar			↑	60s	
		Th-Ar			↓	60s	
	G17-22	16 30 22	3 21 12			3m	15 HALOS 8.84/15
		Th-Ar			↕	60s	
	G17-19	16 26 06	3 22 06			4m	15 Halos 8.82/15
		Th-Ar			↑	60s	
		Th-Ar			↓	60s	
	G169-42	17 02 19	27 00 06			13.5m	15 Halos 10.03/20
		Th-Ar			↑	60s	
		Th-Ar			↓	60s	
	G169-37	16 55 35	26 58 48			5m	15 Halos 9.62/15
		Th-Ar			↑	60s	
		Th-Ar			↓	60s	
	G19-27	17 28 49	-2 30 06			4m	15 Halos INTER AN CLOS OFTEN 8.14/20 NO GOOD
		Th-Ar			↑	60s	
		Th-Ar			↓	60s	
	U SGR	18:28:57	-19:09:42			3m	7.1 Cepheids $\phi = 0.90$
		Th-Ar			↑	60s	
		Th-Ar			↓	60s	
	W Ser	18:06:50	-15:33:36			8m	9.0 Fstars (clouds - could not confirm field)
		Th-Ar			↑	60s	

615788

Spectrograph ECHELLE Intensified Reticon TO CAM
 Log Sheet RAW RET
 Grating 300L Observer RPS
 Telescope 61" Wyeth Date 4-5 JUNE 1988 Disk ORD 2160

Change....	File	ID	1950.0 RA	Dec	L/R +/-	Exposure	Comments
		1	Th-Ar		↓	60s	
		2	SU VUL	19:49:28	27:19:53	3m	7.8 Capheids $\phi=0.05$
		3	Th-Ar		↑	60s	
		4	Th-Ar		↓	60s	
		5	H182572	19:22:35	11:50:09	2.5m	5.2 IAU standard (?)
		6	Th-Ar		↑	60s	in clouds; watch for sky
		7	Th-Ar		↓	60s	
		8	SKY-DWN	4hrs. E	+30°	2.2m	
		9	Th-Ar		↑	60s	
		10	Th-Ar		↓	60s	
		11	SKY-DWN	ϕ hrs.	+30°	2m	
		12	Th-Ar		↑	60s	
		13	INCAUDS			120m	
		14	INCAUDS			120m	
		15	INCAUDS			120m	
		16	INCAUDS			120m	
5-6 JUNE 1988		17	Th-Ar		↓	60s	5187Å - scattered clouds -
		18	SKY-EVE	ϕ hrs.	+30°	2m	(adjusted CEX/SKY gear)
		19	Th-Ar		↑	60s	
		20	Th-Ar		↓	60s	
		21	SKY-EVE	4 1/2 hrs. W	+30°	2m	
		22	Th-Ar		↑	60s	
		23	Th-Ar		↓	60s	
		24	H192588	10:38:52	-01:28:42	2m	6.3 IAU standard
		25	Th-Ar		↑	60s	
		26	Th-Ar		↓	60s	
	27	G111-33	07:45:13	46:44:12	5.5m	10.0/15 Halo (15% sky)	
	28	Th-Ar		↑	60s	(stopped by clouds)	
	29	Th-Ar		↓	60s		
	30	W13777	13:11:19	30:02:42	3m	8.6/20 SAST	
	31	Th-Ar		↑	60s	(30-50mph winds)	
	32						

6/5/88

TO CAM

Spectrograph ECHELLE Intensified Reticon
 Log Sheet
 Grating 300L Observer RPS
 Telescope 61" Wyeth Date 5-6 June 1988 Disk ORO 2161

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	60s	
		2	W20942	13:04:37	31:22:22	7.5m	9.7/15 SAA
		3			↑	60s	
		4			↓	60s	
		5	G169-13	16:27:49	30:48:06	5m	10.2/15 HALOS
		6			↑	60s	
		7			↓	60s	
		8	G183-11	17:52:35	20:16:54	13m	9.8/50 "
		9			↑	60s	
		10			↓	60s	
		11	G155-11	18:17:19	-09:37:00	2m	8.7/15 "
		12			↑	60s	
		13			↓	60s	
		14	G21-20	18:35:15	-06:50:30	2.5m	10.1/15 "
		15			↑	60s	
		16			↓	60s	
		17	G22-6	18:51:45	-04:39:48	4m	9.0/15 "
		18			↑	60s	
		19			↓	60s	
		20	W Ser	18:06:50	-15:33:36	7.5m	9.0 Andersen / Eclipsing / F stars
		21			↑	60s	
		22			↓	60s	
		23	IE1848	18:48:10	33:05:30	20m	10.3 LARRY
		24			↑	60s	
		25			↓	60s	
		26	IE1848+	18:48:30	33:25:43	8m	10.3 " (stopped by clouds)
		27			↑	60s	
		28			↓	60s	
		29	189558	19:58:15	-12:23:22	5m	7.7 Mathew / Murray - Group
		30			↑	60s	
		31					
		32					

6/6/88

Spectrograph ECHELLE Intensified Reticon TO CAM
 Grating 300L Log Sheet RAW RET
 Telescope 61" Wyeth Date 5-6 June 1988 Observer RPS
 Disk ORO 2162

Change.... File ID 1950.0 RA Dec L/R Exposure Comments

Change....	File	ID	1950.0 RA	Dec	L/R	Exposure	Comments
		1			↓	60s	
		2	19:29:33	-28:07:02		6.5m	7.2 Mathieu/Murray Group (in trees!)
		3			↑	60s	(stopped by clouds)
		4			↓	60s	
		5	19:27:44	20:13:14	37:32:31	4m	7.5/100 Fstars
		6			↑	60s	
		7			↓	60s	
		8	H182572	19:22:35	11:50:09	2m	5.2 IAU standard
		9			↑	60s	
		10			↓	60s	
		11	SKY-DWN	4 hrs. E	+20°	2m	
		12			↑	60s	
		13			↓	60s	
		14	SKY-DWN	φ hrs.	+20°	2m	
		15			↑	60s	
		16	INCANDS			120	
		17	"			120	
		18	"			120	
		19	"			75	
6/6-7/88		20			↓	60s	25187A PTLY CLDY
JM Z		21	SKYEVIEW	φ hrs.	+30°	2m	16 SKY
		22			↑	60s	
		23			↓	60s	
		24	SKYEVIEW	4 hrs W	+30°	2M	16 SKY
		25			↑	60s	
		26			↓	60s	
		27	H89449	10:17:01	19:43:31	2M	17 IAU STANDARDS
		28			↑	60s	
		29			↓	60s	
		30	H114762	13:09:55	17:46:55	3M	17 IAU STANDARDS
		31			↑	60s	
		32	/			/	

6/6/88

Spectrograph ECHELLE Intensified Reticon TO CAM
 Log Sheet RAW/RET
 Grating 300l Observer JMZ
 Telescope 61" WYETH Date JUNE 6-7 1988 Disk 020 2163

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	60s	25187A PTLY CLDY
		2	H114762	13:09:55	17:46:55	↓	3M 17 IAU STANDARDS
		3			↑	60s	
		4			↓	60s	
		5	GL725a	18:42:12	59:33:18	↓	7M 8.9 MSTARS & NEARBY (27)
		6			↑	60s	
		7	GL725b	18:42:12	59:33:18	↓	7M 9.69 MSTARS & NEARBY (28)
		8			↑	60s	
		9			↓	60s	
		10	(14)	11:53:21	11:38:32	↓	11M 11.1 ASTEROIDS (14)
		11			↑	60s	
		12			↓	60s	
		13	IE1247	124703	-54822	↓	12 M 9.0/25 LARRY (1)
		14			↑	60s	
		15			↓	60s	
		16	DM VIR	14:05:12	70:54:54	↓	13M 8.7/- FSTARS (68)
		17			↑	60s	↑ STOPPED BY clouds
		18			↓	60s	
		19	W13777	13:11:19	70:02:42	↓	6M 8.59/20 SAS7 (25)
		20			↑	60s	
		21			↓	60s	
		22	W20942	13:04:37	31:22:22	↓	7M 9.68/10 SAS7 (43)
		23			↑	60s	
		24			↓	60s	
		25	S082651	13:03:56	22:53:00	↓	2M 5.9/100 MSTARS (40)
		26			↑	60s	
		27			↓	60s	
		28	GLs 499	13:03:49	20:59:40	↓	10M 9.4/20 MSTARS (41)
		29			↑	60s	
		30			↓	60s	
		31	GLs 508	13:17:36	48:02:24	↓	6M 9.0/50 MSTARS (42)
		32			↓	60s	

6/7/88

Spectrograph ECHELLE Intensified Reticon TO CAM
 Log Sheet RAWRET
 Grating 300d Observer JMZ
 Telescope 61" WYETH Date JUNE 6-7 88 Disk ORC 2164

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	60s	25187A MOSTLY CLEAR
		2	61s 572	14:59:10	45:32:21	8M	9.11/30 METARS (54)
		3			↑	60s	
		4			↓	60s	
		5	+093223	16:31:13	9:12:42	8M	9.27/30 HALOS (1090)
		6			↑	60s	
		7			↓	60s	
		8	H156014	17:12:22	14:26:46	2M	3.175 IAU STANDARDS
		9			↑	60s	through clouds
		10			↓	60s	-STOPPED BY clouds-
		11	SKYDUNE	4h East	+30°	3M	16 sky
		12			↑	60s	
		13			↓	60s	
		14	SKYDUNE	Meridian	+30°	2M	16 sky
		15			↑	60s	
		16	INCANDS			120m	
		17	INCANDS			120m	
		18	INCANDS			106m	
JUNE 7-8 88		19			↓	60s	25187A CLEAR
JMZ		20	SKYEYEW	Meridian	+30°	2M	16 sky
		21			↑	60s	FUSE BLOWN R.A. slow
		22			↓	60s	
		23	SKYEYEW	4h West	+30°	3.5M	16 sky
		24			↑	60s	
		25			↓	60s	
		26	H136202	15:16:45	1:57:12	2M	5.1 IAU STANDARD (9)
		27			↑	60s	
		28			↓	60s	
		29	69-42	8:57:54	21:39:12	3M	8.8/15 HALOS (609)
		30			↑	60s	
		31	/			/	
		32	/			/	

6/7/88

Spectrograph ECHELLE Intensified Reticon TO CAM
 Log Sheet RAW RET
 Grating 3000 Observer JMZ
 Telescope 61" WYETH Date JUNE 7-8 88 Disk 020 2165

Change....	File	ID	1950.0 RA	Dec	L/R +/-	Exposure	Comments
		1			↓	60s	251.87A PARTLY cloudy
		2	H085217	9:47:54	4:34:47		SM 6.2/200 M STARS (28)
		3			↑	60s	↑ > 4h West
		4			↓	60s	
		5	G58-23	10:47:12	20:45:30		SM 9.96/15 HALOS (710)
		6			↑	60s	
		7			↓	60s	
		8	H100018	11:28:07	41:33:50		3M 7.0/200 M STARS (37)
		9			↑	60s	
		10			↓	60s	
		11	IE1247	12:47:03	5:48:22		8M 9.0/25 LARRY (1)
		12			↑	60s	
		13			↓	60s	
		14	103459	11:52:18	7:10:08		2M 7.6 MOV-G12P (11)
		15			↑	60s	
		16			↓	60s	
		17	+222411	11:48:59	22:23:36		10M 9.3/30 HALOS (787)
		18			↑	60s	
		19			↓	60s	
		20	G61-24	12:55:04	18:57:48		4M 8.97/- HALOS (869)
		21			↑	60s	
		22			↓	60s	
		23	H114762	13:09:55	17:46:55		3M 7.3 IAU STANDARD (8)
		24			↑↓	60s	
		25	H114762	"	"		" "
		26			↑↓	60s	
		27	H114762	"	"		" "
		28			↑	60s	
		29			↓	60s	
		30	W20942	13:04:37	31:22:22		5M 9.68/10 SAS7 (43)
		31			↑	60s	
		32	/			/	

6/7/88

Spectrograph ECHELLE Intensified Reticon TO CAM
 Log Sheet RAWRET
 Grating 300F Observer JMZ
 Telescope 61" WYETH Date JUNE 7-8 88 Disk 0120 2166

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	60s	2.5187A PARTLY cloudy
	W13777	2	13:11:19	30:02:42		2M	8.59/20 HA 57 (25)
		3			↑	60s	
		4			↓	60s	
	G15430	5	11:28:22	63:26:00		18M	9.0/40 M STARS (36)
		6			↑	60s	
		7			↓	60s	
	G62-52	8	13:33:29	01:27:40		20M	10.89/30 HA 105 (923)
		9			↑	60s	
		10			↓	60s	
	DM V112	11	14:05:12	70:54:50		10M	8.7 F STARS (690)
		12			↑	60s	
		13			↓	60s	
	LAM V112	14	14:16:24	73:08:31		2M	4.6/700 M STARS (47)
		15			↑	60s	
		16			↓	60s	
	S122332	17	17:20:30	00:53:12		2.5M	7.75/20 HA 105 (1124)
		18			↑	60s	
		19			↓	60s	
	G141-9	20	18:23:59	0:35:24		2M	9.0/15 HA 105 (1197)
		21			↑	60s	
		22			↓	60s	
	W FER	23	18:06:50	75:33:36		5M	9.0 F STARS (689)
		24			↑	60s	
		25			↓	60s	
	1E1848	26	18:48:10	33:05:32		15M	10.3 LARRY (4)
		27			↑	60s	
		28			↓	60s	
	1E1848+	29	18:48:30	33:25:43		20M	10.3 LARRY (5)
		30			↑		
		31					
		32					

6/8/88

Spectrograph ECHELLE Intensified Reticon TO CAM
 Log Sheet RAWRET
 Grating 300 Observer JMZ
 Telescope 61" WYFFM Date JUNE 7-8 88 Disk 01202167

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	60s	25187A CLEAR
	H182572	2	19:22:35	11:50:10		2M	5.2 IAU STANDARDS
		3			↑	60s	
		4			↓	60s	
	(2)	5	20:46:01	17:16:33		10M	10.34 ASTEROIDS (2)
		6			↑	60s	
		7			↓	60s	
	IE1919	8	19:19:19	4:27:49		20M	10.3 LARRY (6)
		9			↑	60s	
		10			↓	60s	
	G92-15	11	19:33:47	4:39:18		2.5M	9.20/15 HALOS (1253)
		12			↑	60s	
		13			↓	60s	
	IE1037	14	19:37:05	30:27:38		7M	9.5 LARRY (7) ?
		15			↑	60s	
		16			↓	60s	
	H21301A	17	22:25:46	17:00:28		2M	7.7 IAU STANDARD (12)
		18			↑↓	60s	
	Z13014B	19	22:25:46	17:00:28		5M	9.0 IAU STANDARDS (13)
		20			↑	60s	
		21			↓	60s	
	SKYDUNK	22	4h East	+30°		3M	16 SKY
		23			↑	60s	
		24			↓	60s	
	SKYDUNK	25	φ h.s.	+30°		3M	16 SKY
		26			↑	60s	
	INCANDS	27				120M	
	INCANDS	28				120M	
	INCANDS	29				65M	
		30					
		31					
		32					

6/9/88

TO CAM

Intensified Reticon

Spectrograph ECHELLE

Log Sheet

RAW RET

Grating 200x

Observer RDS

Telescope 61" Wyeth

Date 8-9 June 1988

Disk ORO 2168

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	60s	
		2				2m	cts = 825 No filter
		3			↑	60s	
		4			↓	60s	cts = 3 with 8.0ND
		5		-13°		2m	{ 1/2 West Merid cut off by Dome
		6			↑	60s	L/R = 1600/650 1600/900 1.
		7		-130		2m	{ 1/2 East Merid cut-off by dome
		8			↑	60s	L/R = 1050/1550 1.0ND
		9			↓	60s	
		10		-4.5°		2m	{ 1/2 North Merid cut off by Dome
		11			↑	60s	L/R = 850/800 1.0ND
		12			↓	60s	
		13		-13°		2m	{ Merid Completely Uncovered.
		14			↑	60s	L/R = 1250/1100
		15			↓	60s	5187A -cloudy-
		16		+20°		2m	
		17			↑	60s	
		18			↓	60s	
		19		+20°		2m	
		20			↑	60s	
		21					
		22					
		23					
		24					
		25					
		26					
		27					
		28					
		29					
		30					
		31					
		32					

DO NOT USE FOR TSHIFTS

8-9 JUNE

END OF
MAY-JUNE
ECHELLE RUN

19 June 88

Spectrograph ECHELLE Intensified Reticon TO CAMI
 Log Sheet RAW/RET
 Grating 300R Observer RPS
 Telescope 61" Wyeth Date 19-20 JUNE 1988 Disk ORO2169

Fiber Testing
Start June-July Echelle

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
	1	LH0.875					
	2	RH0.875					L-R = -6.3 Note: Could not focus;
	3	LH0.880					had to add spacers
	4	RH0.880					L-R = -6.9 between fiber holder
	5	LH0.850					and spectrograph body;
	6	RH0.850					L-R = -4.0 about 1/16 in.
	7	LH0.825					
	8	RH0.825					L-R = -2.0
	9	LH0.800					
	10	RH0.800					L-R = 0.2 Adjusted Balance, T52
	11	LH0.800					
	12	RH0.800					L-R = +0.6 sigma = 5.0
	13	RH0.802					
	14	RH0.802					L-R = +0.4
	15	RH0.805					
	16	RH0.805					L-R = +0.8
	17	LH0.800					
	18	RH0.800					L-R = 0.4 sigma = 2.0
	19	Th-Ar			↓	60s	No guide in either
	20	H182572	19:22:35	11:50:09		4m	5.2 IAU RA or Dec.
	21	Th-Ar			↕	60s	
	22	H182572	"	"		2m	
	23	Th-Ar			↕	60s	
	24	H182572	"	"		5m	
	25	Th-Ar			↑	60s	
	26	LR0.800					Hartman Test in closed
	27	RH0.800					Oven @ 23°C L-R = 0.5
	28	Th-Ar			↓	60s	
	29	SKY-DWN	φ hrs	+20°		4m	
	30	Th-Ar			↑	60s	
	31						
	32						

20 June 88

Spectrograph ECHELLE Intensified Reticon TO CAM
 Grating 300L Log Sheet RAW/RET
 Telescope 61" Wyeth Date 19-20 June 1988 Observer RPS
 Disk OR02170

Change....	File	ID	1950.0 RA	Dec	L/R +/-	Exposure	Comments	FIBER TESTING
		1	Th-Ar			↓	60s	
		2	SKY-DWN	φ hrs	+20°		2m	
		3	Th-Ar			↑↓	60s	
		4	SKY-DWN	"	"		2m	
		5	Th-Ar			↑	60s	
		6	Th-Ar			↓	60s	
		7	SKY-DWN	φ hrs	+30°		2m	
		8	Th-Ar			↑↓	60s	
		9	SKY-DWN	"	"		2m	
		10	Th-Ar			↑	60s	
		11	INCANDS				120u	
		12	INCANDS				120m	
		13	Th-Ar			↓	60s	
20-21 JUNE 1988		14	SKY-EVE	φ hrs	+30°		2m	- No Graphics Video; fuse blows on expansion ch.
		15	Th-Ar			↑	60s	- Blew fuse RA board (5amp)
		16	Th-Ar			↓	60s	
		17	H114762	13:09:55	17:46:55		15m	7.3 IAU standard
		18	Th-Ar			↑↓	60s	
		19	H114762	"	"		15m	"
		20	Th-Ar			↑	60s	
		21	Th-Ar			↓	60s	
		22	H114762	"	"		15m	" Increasing huge clouds
		23	Th-Ar			↑	60s	
		24	Th-Ar			↓	60s	
		25	H115521	13:15:04	05:43:58		6m	4.8 "
		26	Th-Ar			↑↓	60s	
		27	H115521	"	"		8m	
		28	Th-Ar			↑	60s	
		29	Th-Ar			↓	60s	
		30	H136202	15:16:45	01:57:12		5m	5.1 IAU standard
		31	Th-Ar			↑	60s	
		32	/					

Intensified Reticon TO CAM 6/23/68

Spectrograph ECHELLE Log Sheet RAWRET

Grating 300d Observer JMZ

Telescope 61" WYETH Date 21-27 JUNE 68 Disk ORO 2173

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments	
		1			↓	60s	λ 5187Å High clouds	
		2	H182572	19:22:35	11:50:10	3m	S.2 IAU STANDARDS	
		3			↑	60s	<div style="background-color: #FFDAB9; padding: 2px;">NEW RETICON PACKAGE</div> SETTINGS: { GEN 2 = 4.1 } { MCP = 4 } { Doser = 2.5 }	
		4			↓	60s		
		5	H182572	"	"	3m		
		6			↑	60s		
		7			↓	60s		
		8	SKYDOWN	φ hrs	+200	4m	16 SKY (CNTS = 50)	
		9			↑↓	60s	SKY EVEN	
		10	SKYDOWN	"	"	4m		16 SKY
		11			↑↓	60s		
		12	SKYDOWN	"	"	4m		" "
		13			↑↓	60s		
		14	SKYDOWN	"	"	2m		" "
		15			↑↓	60s		
		16	SKYDOWN	"	"	2m		" "
		17			↑↓	60s		
		18	SKYDOWN	"	"	2m		" "
		19			↑↓	60s		
		20	SKYDOWN	"	"	2m	" " (CNTS = 4,000)	
		21			↑	60s		
		22	INCAUDS			120m		
		23	INCAUDS			120m		
		24	INCAUDS			120m	Note: λ-region not set	
		25			↓	60s	λ 5187Å (old Reticon Back on)	
		26	SKYEVEN	meridian	+35°	2m	16 SKY (LATE)	
		27			↑	60s		
		28	SKYEVEN		+35°	3m	16 SKY	
		29			↑	60s		
		30	LHO.978				Focus Test	
		31	RHO.978				L-R = -0.5	
		32						

Spectrograph ECHELLE Intensified Reticon TO CAM 6/24/88
 Grating 300 L Log Sheet RAW RET
 Telescope 61" Wyeth Date JUNE 24/25 1988 Observer JRC
 Disk DR0 2176

Change....	File	ID	1950.0 RA	Dec	L/R +/-	Exposure	Comments
		1			↓	60s	mostly cloudy λ5187A
	SKYEVEW	2	0hrs	+20°		2 ^m	16 SKY
		3			↑	60s	
		4			↓	60s	
	SKYEVEW	5	4hrs West	+20°		2 ^m	16 SKY
		6			↑	60s	cloud out till 12 am
		7			↓	60s	
	5101758	8	15 47 12	12 42 35		2 ^m	34 M STARS 6.7
		9			↑	60s	(blown fuse SA-RA set)
		10			↓	60s	
	H146051	11	16 11 43	-03 34 01		2 ^m	17 IAN STDS FILTER 1.0 ND 2.7
		12			↑	60s	
		13			↓	60s	
	G21-20	14	8 35 15	-06 50 30		4 ^m	15 HALOS 6.0/15
		15			↑	60s	
		16			↓	60s	
	W SER	17	18 06 50	-15 33 36		5 ^m	40 F STARS 9.0/28
		18			↑	60s	
		19			↓	60s	
	G154-21	20	17 45 01	-09 35 12		7 ^m	15 HALOS 9.7/15
		21			↑	60s	
		22			↓	60s	
	G154-32	23	7 50 16	-07 54 24		2.5 ^m	15 HALOS 7.6/15
		24			↑	60s	
		25			↓	60s	
	G155-11	26	18 17 19	-09 37 00		2 ^m	15 HALOS 6.9/15
		27			↑	60s	
		28			↓	60s	
	G142-2	29	8 59 36	15 59 36		5.5 ^m	15 HALOS 10.38/15
		30			↑	60s	
		31					
		32					

6/25/88

Spectrograph ECHELLE Intensified Reticon TO CAMI
 Grating 300x Log Sheet RAW/RET
 Telescope 61" Wgeth Date JUNE 24/25 1988 Observer JRC
 Disk 020 2177 ~~1277~~

Change....	File	ID	RA	Dec	L/R +/-	Exposure	Comments
		1			↓	60s	λ 5187 Å
	1E1848	18 49 10	33 05 30			6.5 ^m	LARRY (CLOED ^{4m} OUT) 140 10.3
		3			↑	60s	
		4			↓	60s	
	SKYDWE	4hrs East	+20°			3 ^m	16 SKY (cldy)
		6			↑	60s	
		7			↓	60s	
	SKYDWNM	0hrs	+20°			2 ^m	16 SKY
		9			↑	60s	
25-26 JUNE 1988	Th-Ar				↓	60s	λ 5187 Å - partly cldy-
	SKY-EVE	φ hrs.	+20°			2m	
	Th-Ar				↑	60s	
	Th-Ar				↓	60s	
	SKY-EVE	4hrs W	+20°			2m	
	Th-Ar				↑	60s	
	Th-Ar				↓	60s	
	H89449	10:17:01	19:43:31			2.5m	48 IAU standard
	Th-Ar				↑	60s	
	Th-Ar				↓	60s	
H114762	13:09:55	17:46:55			3m	7.3 IAU Standard LMC	
Th-Ar				↑	60s	"	
H114762	"	"			3.5m		
Th-Ar				↑	60s		
Th-Ar				↓	60s	clouds	
G25412A	11:06:51	43:28:44			3.5m	6.0/20 Mstars (stop: go)	
Th-Ar	11:02:43	43:47:39		↑↓	60s		
G25412A					4m	"	
Th-Ar				↑	60s		
Th-Ar				↓	60s		
Sφ43627	11:06:51	43:28:44			2m	6.0/20 Mstars	
Th-Ar				↑	60s		
	/						



6/26/88

Spectrograph ECHELLE Intensified Reticon TO CAMI
 Grating 3002 Log Sheet RAW/RET
 Telescope 61" Wyeth Date 25-26 June 1988 Observer RPS
 Disk OR02178

Change....	File	ID	RA	1950.0 Dec	L/R +/-	Exposure	Comments
		1	Th-Ar		↓	60s	
		2	GRS 499	13:03:49	20:59:42	10m	9.4/20 Mstars
		3	Th-Ar		↑	60s	
		4	Th-Ar		↓	60s	
		5	SP82651	13:03:56	22:53:00	2.5m	5.9/20 "
		6	Th-Ar		↑	60s	
		7	Th-Ar		↓	60s	
		8	GRS 600	15:49:45	11:01:26	10m	9.4/20 " (marginal - clouds; poor seeing)
		9	Th-Ar		↑	60s	
26-27 June 1988		10	Th-Ar		↓	60s	cloudy <u>storm approaching</u>
		11	SKY-EYE	14:04hrs	29:30 ⁰	3m	late: ? high dark counts 77cts
		12	Th-Ar		↑	60s	static charge? John suggests
		13	INCAND			70m	high count Incand. Counts
		14	Th-Ar		↓	60s	better but still high \approx 3 ave.
		15	122693	14:00:34	24:48:12	4m	8.1 Moving-Group
		16	Th-Ar		↑	60s	
		17	Th-Ar		↓	60s	
		18	126660	14:23:30	52:04:52	2m	4.1 "
		19	Th-Ar		↑	60s	
	20	Th-Ar		↓	60s		
	21	129357	14:39:13	29:16:27	2.5m	7.8 "	
	22	Th-Ar		↑	60s		
	23	Th-Ar		↓	60s		
	24	139007	15:32:40	25:09:59	2.5m	8.3 "	
	25	Th-Ar		↑	60s		
	26	Th-Ar		↓	60s		
	27	H146051	16:11:43	-63:34:01	2m	2.7 IAU standard	
	28	Th-Ar		↑	60s		
	29	Th-Ar		↓	60s		
	30	S101758	15:47:12	12:42:35	2m	6.7/20 Mstars	
	31	Th-Ar		↑	60s		
	32	/					

6/26/88

Spectrograph ECHELLE Intensified Reticon TO CAMI
 Grating 3002 Log Sheet RAW/RET
 Telescope 61" Wyeth Date 26-27 June 1988 Observer RPS
 Disk OR02179

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		Th-Ar			↓	60s	
	Sφ45246	14:50:17	46:40:54			2m	7.1/20 Mstars
	Th-Ar				↑	60s	
	Th-Ar				↓	60s	
	H1144515	16:03:32	10:49:12			3.5m	8.5/20 "
	Th-Ar				↑	60s	
	Th-Ar				↓	60s	
	H154185	17:00:53	25:42:37			2m	8.7 MOVING Group
	Th-Ar				↑	60s	
	Th-Ar				↓	60s	
	156563	17:15:18	25:04:37			3m	9.0 " 
	Th-Ar				↑	60s	
	Th-Ar				↓	60s	
	161797A	17:44:30	27:44:55			2m	3.4 " NO 1.0
	Th-Ar				↑	60s	
	Th-Ar				↓	60s	
	151669	16:44:36	55:24:11			10m	7.0/400 Fstars
	Th-Ar				↑	60s	
	Th-Ar				↓	60s	
	142124	15:48:24	63:17:32			10m	8.0 Fstars
	Th-Ar				↑	60s	
	Th-Ar				↓	60s	
	194595	20:23:31	26:32:23			20m	8.2/400 " 
	Th-Ar				↑↓	60s	
	194595	"	"			5m	
	Th-Ar				↑	60s	
	Th-Ar				↓	60s	
	H182592	19:22:35	11:50:09			2m	5.2 IAU standard
	Th-Ar				↑	60s	
	/						
	/						
	/						

6/27/98

Spectrograph ECHELLE Intensified Reticon TO CAM1
 Grating 3002 Log Sheet RAW/RET
 Telescope 61" Wyeth Date 26-27 JUNE 1988 Observer RPS / JMZ
 Disk ORO 2180

Change....	File	ID	RA	1950.0 Dec	L/R +/-	Exposure	Comments
		1	Th-Ar		↓	60s	
		2	GLS 820A	21:04:54	38:32:06	2m	5.2/20 Mstars s' Nearby
		3	Th-Ar		↑↓	60s	
		4	GLS 820B	21:04:55	38:32:06	2m	6.0/20 "
		5	Th-Ar		↑	60s	- stopped by cloud -
		6	Th-Ar		↓	60s	
		7	SKY-DWN	4hrs. E	+20°	3m	
		8	Th-Ar		↑↓	60s	
		9	SKY-DWN	"	"	2m	
		10	Th-Ar		↑	60s	
		11	Th-Ar		↓	60s	
		12	SKY-DWN	φ hrs.	+20°	2m	
		13	Th-Ar		↑↓	60s	
		14	SKY-DWN	"	"	2m	
		15	Th-Ar		↑	60s	
		16	INCANDS			120m	
		17	INCANDS			120m	
		18	INCANDS			120m	Dark Cnts still ≈ 2-3
27-28 JUNE		19	DARK 3.0	-	-	13m	DARK CNT desc = 3.0
JMZ		20	DARK 3.5	-	-	13m	" " " = 3.5
		21	Th-Ar		↓	60s	λ = 5187 Å mostly clear
		22	SKYEVEN	φ hrs.	+25°	2m	16 sky
		23	Th-Ar		↑	60s	
		24	Th-Ar		↓	60s	
		25	SKYEVEN	4h Wolf	+25°	2m	16 sky
		26	Th-Ar		↑	60s	
		27	Th-Ar		↓	60s	
		28	H115521	13:15:04	5:43:58	2m	4.8 JAV STANDARDS
		29	Th-Ar		↑	60s	
		30	Th-Ar		↓	60s	
		31	H114762	13:09:55	17:46:55	3m	7.3 JAV STANDARD
		32	Th-Ar		↑	60s	

6/27/88

Spectrograph ECHELLE Intensified Reticon TO CAM
 Log Sheet RAW/RET
 Grating 300A Observer JM?
 Telescope 61" WYETH Date 6/27-28/88 Disk 070 2181

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		ThA.			↓	60s	2 5187A mostly clear
	H114762		13:09:55	17:46:55		3M	7.3 TAL STANDARDS
		ThA.			↑	60s	
		ThA.			↓	60s	
	DM V12		14:05:12	10:54:54		9.5M	8.7 F STARS (690)
		ThA.			↑	60s	↑ through clouds
		ThA.			↓	60s	{ cut short by clouds }
	S101758		15:47:12	12:42:35		2.5M	6.7 M STARS (#50)
		ThA.			↑	60s	
		ThA.			↓	60s	
	30-2493		14:10:44	30:20:38		3M	8.8 ANGP (1126)
		ThA.			↑	60s	
		ThA.			↓	60s	
	30-2498		14:13:04	30:24:04		15M	9.7 ANGP (1135)
		ThA.			↑	60s	↑ v. weak lines
	30-2498		14:09:05	30:27:33		5M	9.6 ANGP (1117)
		ThA.			↑	60s	
	31-2592		14:09:33	31:32:23		4M	9.7 ANGP (1119)
		ThA.			↑	60s	
		ThA.			↓	60s	
	30-2485		14:05:32	30:15:15		4M	9.8 ANGP (1095)
		ThA.			↑	60s	
	29-2498		14:06:12	29:23:54		7M	9.4 ANGP (1103)
		ThA.			↑	60s	
	30-2483		14:04:22	30:30:39		3.5M	9.3 ANGP (1090)
		ThA.			↑	60s	
	31575		13:59:11	30:42:27		9M	10.3 ANGP (1075)
		ThA.			↑	60s	
		ThA.			↓	60s	
	20-2920		14:04:24	20:20:39		5.5M	9.7 ANGP (1091)
		ThA.			↑	60s	
		/				/	

6/28/88

Spectrograph ECHELLE Intensified Reticon TO CAM
 Log Sheet RAW/RET
 Grating 300l Observer JMZ
 Telescope 61" WYETH Date 6/27-28/88 Disk ORO 2122

Change....	File	ID	1950.0 RA	Dec	L/R +/-	Exposure	Comments
		1			↓	60s	2.5187A PRTLY cldy
		2	21610	14:05:36	20:40:21	5m	8.3 ANGP (1097)
		3			↑	60s	* Telescope down ~1"
		4			↓	60s	Blown out R.A. logic chip
		5	1E1848	18:48:10	33:05:30	7m	10.3/25 LARRY (#4)
		6			↑	60s	*clouded out during
		7			↓	60s	repairs above
		8	1E1037	19:37:05	30:27:58	4m	9.5 LARRY (#7)
		9			↑	60s	
		10			↓	60s	
		11	H182572	19:22:35	11:50:10	2m	5.2 IAU STANDARDS
		12			↑	60s	
		13			↓	60s	
		14	SKYDWARF	4h East	+25°	3m	16 SKY
		15			↑	60s	
		16			↓	60s	
		17	SKYDWARF	φ hrs.	+25°	2m	16 SKY
		18			↑	60s	
		19	INCANDS			120m	
		20	INCANDS			120m	
6/28-29/88 JMZ		21			↓	60s	Dark cnt ~2-3; warming
		22	H136202	15:16:45	11:57:12	2m	Reticon package to +25°
		23			↑	60s	5.1 IAU STANDARD
		24			↓	60s	
		25	S101758	15:47:12	12:42:35	2m	6.7 M STARS (58)
		26			↑	60s	
		27			↓	60s	
		28	27357	14:14:57	27:30:51	10m	9.2 ANGP (1146)
		29			↑	60s	↳ through clouds
		30					
		31					
		32					

cleared
~ 4 A.M.

TO CAM 6/29/88

Spectrograph ECHELLE Intensified Reticon
 Grating 3000 Log Sheet

Observer SPC, MORSEY

Telescope WYETH 61" Date 6/29-30/88

Disk ORO 2184

Change....	File	ID	RA	Dec	1950.0 L/R ↑/↓	Exposure	Comments
							BRIGHT MOON
		1			↓	60s	
		2	H1124138	12:53:40.5	38:35:19	3m	5.6 star B LINDROOS BINARIES
		3			↑	60s	
		4			↓	60s	
		5	H127304	14:47:41	32:00:46	15m	~11.5 (15 COUNTS) STAR B
		6			↑	60s	
		7			↓	60s	
		8	H174585	18:47:54	32:45:14	12m	~10.5-11 star C
		9			↑	60s	
		10			↓	60s	
		11	1E1848	18:49:38	33:20:52	12m	10.3 LARRY
		12			↑	60s	
		13			↓	60s	
		14	1E1037	19:37:05	30:27:58	15m	9.5 DL SB?
		15			↑	60s	
		16			↓	60s	
		17	B52533	17 11 17	34 37 20	6m	43 ANGP
		18			↑	60s	
		19			↓	60s	
		20	G22-20	19 10 48	-00 40 36	4m	15 HALOS ↓ DARK CT 1-3 / 90428/50 9.22/15
		21			↑	60s	
		22			↓	60s	
		23	G141-8	18 23 47	08 45 06	2m	15 HALOS 7.79/15
		24			↓	60s	
		25	G141-9	18 23 59	08 35 24	2m	15 HALOS 9.25/15
		26			↑	60s	
		27			↓	60s	
		28	G22-7	18 53 13	-05 48 24	2m	15 HALOS 7.46/15
		29			↑	60s	
		30			↓	60s	
		31	GLs 735	18 53 03	08 20 19	9m	34 M STARS 10.1
		32			↑	60s	

TO CAM 6/30/88

Spectrograph ECHELLE Intensified Reticon
 Log Sheet
 Grating 3004 Observer JRC
 Telescope 61" Wrayth Date JUNE 29/30 1988 Disk ORO 2186

Change....	File	ID	1950.0 RA	Dec	L/R +/-	Exposure	Comments
		TWR			↓	60s	SKY/CCX MIRR PROB. λ 5187 Å
	H213014	22 25 46	17 00 28			2 ^M	17 IAM STDS 7.7
		TWR			↑	60s	
		TWR			↓	60s	
	SKYDWN E	4hrs East	+20°			3 ^M	16 SKY
		TWR			↑	60s	
		TWR			↓	60s	
	SKYDWN M	0hrs	+200			2 ^M	16 SKY
		TWR			↑	60s	
	INCLANS					120m	started 1600-1400 BALANCED
	INCLANDS					120m	AT 1100
JUNE 30/JULY 1-1988	DARK350					13 ^M	
	DARK305					13 ^M	
	DARK305					13 ^M	
	TWR				↓	60s	57°F λ 5187 Å
	SKYEVEN	0hrs	+200			2 ^M	16 SKY
		TWR			↑	60s	
		TWR			↓	60s	
	SKYEVEN	4hrs West	+200			2 ^M	16 SKY
		TWR			↑	60s	
		TWR			↓	60s	
	H114762	13 09 54	17 46 55			2 ^M	17 IAM STDS w/PLANETS 7.3
		TWR			↑	60s	
	H114762	"	"			2 ^M	" " " 7.3
		TWR			↑	60s	
		TWR			↓	60s	
	G62-52	13 33 29	01 27 42			15 ^M	15 HALOS 10.89/30
		TWR			↑	60s	
		TWR			↓	60s	
	DM VIR	14 05 12	-10 54 54			5 ^M	FSTARS 690 8.7
		TWR			↑	60s	
		TWR					

TO CAM 6/20/88

Intensified Reticon

Spectrograph ECHELLE

Log Sheet

RAW RET

Grating 300L

Observer JRC

Telescope 61" Wyeth

Date JUNE 30 / JULY 1 1988

Disk 020 2187

Change.... File ID 1950.0 RA Dec L/R Exposure Comments

Change....	File	ID	1950.0 RA	Dec	L/R	Exposure	Comments
		TAR			↓	60S	2.5187R
	G65-43		14 15 47	12 59 30		8M	15 HALOS 10.57/15
		TAR			↑	60S	
		TAR			↓	60S	
	S10758		15 47 12	12 42 35		2M	34 M STARS 6.7
		TAR			↑	60S	
		TAR			↓	60S	
	G17-25		16 32 04	-04 07 06		4M	15 HALOS 9.62/15
		TAR			↑	60S	
		TAR			↓	60S	
	154962		17 06 16	-03 49 03		2M	48 MOV-GRP 6.4
		TAR			↑	60S	
		TAR			↓	60S	
	W SER		18 06 50	-15 33 26		8M	40 F STARS 9.10
		TAR			↑	60S	
		TAR			↓	60S	
	IE 1848		18 48 10	33 05 30		7M	LARRY WVM _a (42) 10.3
		TAR			↑	60S	
		TAR			↓	60S	
	H156014		17 12 22	14 26 46		2M	17 IAM STDS 1.0WB ^{ALGR} 3.1
		TAR			↑	60S	
		TAR			↓	60S	
	G17-16		16 25 14	-00 57 30		4M	15 HALOS 9.6/15
		TAR			↑	60S	(was 1400) TURNED LAMP DOWN TO 1100
		TAR			↓	60S	←
	G169-13		16 27 49	30 48 06		4M	15 HALOS 10.24/15
		TAR			↑	60S	
		TAR			↓	60S	
	G183-11		17 52 35	20 16 54		M	15 HALOS 9.76/50
		TAR			↑	60S	
		/					
		/					

