

6/1

TO CAM

RAW/RET 12

Intensified Reticon

Spectrograph ECHELLE

Log Sheet

Grating 3000

Observer _____

Telescope 61"

Date JUNE 1-2 1986

Disk ORO 1038

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
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1/2 JUNE

1		TR-Ar			↓	90s	5187A 80μ slit
2		SKY-EVE	18:17:01	19:43:30		5m	
3		TR-Ar			↑	90s	
4		TR-Ar			↓	90s	- haze -
5		H89449	18:17:01	19:43:31		4m	IAU Standard
6		TR-Ar			↑	90s	* HOLD FOR LING - clouds -
7		INCLAND				120 MIN	
8		INCLAND				27 MIN	
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
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32							

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Spectrograph ECHELLE Intensified Reticon TO CAM
 Grating 300L Log Sheet RAW/RET 12
 Telescope 61" WYETH Date JUN 10-11 1986 Observer _____
 Disk ORO 1039

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	TH-AR		↓	90 ^s	5187A 80 μSLI.
		2	SKY-EVE			5 ^m	
		3	TH-AR		↑	90 ^s	
		4	H146051	16 11 43 -03 34 01		3 ^m	ND-1 FILTER
		5	TH-AR		↑	90 ^s	
		6	TH-AR		↓	90 ^s	
		7	W11450	13 08 51 31 05 32		12 ^m	5-10% SKY CATS
		8	TH-AR		↑	90 ^s	
		9	W11449	13 08 51	31 05 34	↓	90 ^s
		10	W11449	13 08 51 31 05 34		4 ^m 11 ^s	CLOSED BY CLDS
		11	TH-AR		↑	90 ^s	
		12	W13784	13 11 20 30 04 58		3 ^m	
		13	TH-AR		↑	90 ^s	
		14	W13777	13 11 19 30 02 42		3 ^m	
		15	TH-AR		↑	90 ^s	
		16	W13233	13 09 53 30 14 29		4 ^m	
		17	TH-AR		↑	90 ^s	
		18	W32067	13 01 28 31 01 30		8 ^m	
		19	TH-AR		↑	90 ^s	
		20	W33078	12 59 58 30 37 32		18 ^m	
		21	TH-AR		↑	90 ^s	
		22	W33111	13 00 15 30 32 59		2 ^m	
		23	TH-AR		↑	90 ^s	
		24	TH-AR		↓	90 ^s	
		25	W22389	13 07 07 30 42 04		9 ^m	
		26	TH-AR		↑	90 ^s	
		27	W21939	13 04 52 31 03 24		9 ^m	CLOSED BY CLDS
		28	TH-AR		↑	90 ^s	
		29	W173927	17 39 27 04 23 34	↓	90 ^s	
		30	TH-AR	17 39 27 04 23 34		3 ^m	
		31	TH-AR		↑	90 ^s	
		32					

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Spectrograph ECHELLE Intensified Reticon TO CAM
 Grating 3002 Log Sheet RAWRET 12
 Telescope 61" WYETH Date JUNE 10-11 1986 Observer GS
 Disk ORO 1040

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90 ^s	5187A 80 μ SLIT
	GL 509A	2	13:21:13	29:29:52		5 ^{MIN}	8.9 BROWN DWARFS
		3			↑	90 ^s	
		4			↓	90 ^s	
	GL 638	5	16:43:14	33:35:51		4 ^{MIN}	8.1/50
		6			↓	90 ^s	
	506575	7	16:48:50	32:38:14		2 ^{MIN}	603/100
		8			↑	90 ^s	
		9			↓	90 ^s	
	G208-29	10	19:30:32	48:28:54		18 ^{MIN}	8.5/200 INCREASED HALO BINARIES
		11			↑	90 ^s	
	INCANDS	12				120 ^{MIN}	
	INCANDS	13				120 ^{MIN}	
	INCANDS	14				120 ^{MIN}	
	INCANDS	15				120 ^{MIN}	
JUNE 13/14		16			↓	90 ^s	5187A 80 μ SLIT
	SKY-CVC	17				5 ^{MIN}	(OVERCAST)
		18			↑	90 ^s	
		19			↓	90s	
	H13620Z	20	15:16:45	φ1:57:12		4m	IAU standard (clouds)
		21			↑	90s	
		22			↓	90s	
	H146051	23	16:11:43	-φ3:34:01		2 1/2 m	IAU standard
		24			↑	90s	
		25			↓	90s	
	S122652	26	17:39:27	φ4:23:24		4m	7.0/20 HALOS
		27			↑	90s	
		28			↓	90s	
	G169-13	29	16:27:49	30:48:06		22m	10.2/15
		30			↑	90s	
	/	31					
	/	32					

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Spectrograph ECHELLE

Intensified Reticon

TO CAM
RAW/RET 12

Grating 3002

Log Sheet

Observer RPS

Telescope 61" Wyeth

Date 13-14 June 1986

Disk ORO 1041

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		Th-Ar			↓	90s	haze + clouds
	G142-2		18:59:36	15:59:36		21m	10.4/15
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
	G210-46		20:58:41	40:43:42		11m	6.6/300
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
	G212-7		20:53:27	42:46:48		12m	10.3/30 clearing
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
	G144-33		20:41:59	21:43:24		4m	10.1/15
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
	G187-40		21:19:46	27:14:18		8m	10.5/30
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
	G188-30		21:53:43	32:24:24		11m	11.1/30
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
	G126-62		22:49:46	17:51:12		9m	9.5/100
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
	G130-32		23:57:31	33:54:42		2m	8.5/20 dawn sky coming up 10%
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
	H182572		19:22:35	11:54:14		3m	IAU standard ND#1
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
	SKY-DWN		stow			5.5m	
		Th-Ar			↑	90s	
	/						
	/						

6/14

Spectrograph ECHELLE Intensified Reticon TO CAM
 Grating 300L Log Sheet RAW RET 12
 Telescope 61" Wyeth Date JUNE 13-14 1986 Observer APS
 Disk ORO 1φ42

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	INCAND			120" N	5187 A 80μ SLIT
		2	INCAND			120" N	
		3	INCAND			52" N	
JUNE 14/15		4	Th-Ar		↓	90s	- clear -
		5	SKY-EVE	slow		5m	
		6	Th-Ar		↑	90s	
		7	Th-Ar		↓	90s	
		8	H114762	13:09:55	17:45:55	4m	7.3 IAU standard
		9	Th-Ar		↑	90s	
		10	Th-Ar		↓	90s	
		11	S138815	12:27:10	-03:02:57	3m	9.0/15 HALOS
		12	Th-Ar		↑	90s	
		13	Th-Ar		↓	90s	
		14	(6)	12:47:19	12:16:40	8m	11.4 Asteroid - Seems too bright, but come up & only thing around! Spectrum not solar?
		15	Th-Ar		↑	90s	
		16	Th-Ar		↓	90s	
		17	G59-5	12:10:56	23:32:30	2 1/2 m	9.4/15 HALOS
		18	Th-Ar		↑	90s	
		19	Th-Ar		↓	90s	
		20	S63020	12:26:38	31:40:00	2m	7.9/50
		21	Th-Ar		↑	90s	
		22	Th-Ar		↓	90s	
		23	G60-47	12:52:44	08:06:12	5 1/2	9.9/20
		24	Th-Ar		↑	90s	
		25	Th-Ar		↓	90s	
		26	H182757	13:34:07	18:24:24	4m	9.8/20 No chart
		27	Th-Ar		↑	90s	
		28	Th-Ar		↓	90s	
		29	G178-56	14:53:12	43:13:42	16m	11.9/15
		30	Th-Ar		↑	90s	
		31	/				
		32	/				

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Spectrograph ECHELLE Intensified Reticon TO CAM
 Grating 3002 Log Sheet RAW RET 12
 Telescope 61" Wyeth Date 14-15 June 1986 Observer RPS
 Disk ORO 1043

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90s	
	G135-16	2	14:41:42	22:46:44		4m	10.2/15 HALOS
	Th-Ar	3			↑	90s	
	Th-Ar	4			↓	90s	
	+182890	5	14:29:53	17:38:12		6m	9.8/30
	Th-Ar	6			↑	90s	
	Th-Ar	7			↓	90s	
	(3)	8	16:25:15	-03:18:52		6m	11.0 Asteroid (?) <i>Many objects in field</i> Mag 11.0
	Th-Ar	9			↑	90s	(too bright?)
	Th-Ar	10			↓	90s	
	H146051	11	16:11:43	-03:34:41		3m	IAU standard ND filter 1.5
	Th-Ar	12			↑	90s	[forgot to take out filter (on Th-Ar)]
	Th-Ar	13			↓	90s	
	G230-45	14	20:38:54	54:42:18		15m	11.4/20 HALOS
	Th-Ar	15			↑	90s	
	Th-Ar	16			↓	90s	
	G169-44	17	17:43:46	28:46:18		14 1/2 m	11.8/15
	Th-Ar	18			↑	90s	
	Th-Ar	19			↓	90s	
	S66454	20	17:24:49	31:46:44		4 1/2 m	11.5/15 Magnitude must be wrong!
	Th-Ar	21			↑	90s	
	S66451	22	17:24:51	31:47:43		2m	8.5/30
	Th-Ar	23			↑	90s	
	Th-Ar	24			↓	90s	
	G140-53	25	18:15:25	45:25:54		8m	10.9/15
	Th-Ar	26			↑	90s	
	Th-Ar	27			↓	90s	
	11-926	28	18:48:26	-46:20:42		21m	≈ 11.2 M11
	Th-Ar	29			↑	90s	
	11-1223	30	18:48:19	-46:18:30		19m	≈ 11.4
	Th-Ar	31			↑	90s	
	/	32					

Intensified Reticon

TO CAM

Spectrograph ECHELLE Log Sheet

Grating 3002 Observer RPS

Telescope 61" Wyeth Date 14-15 June 1986 Disk ORO 1444

Change.... File ID 1950.0 RA Dec L/R Exposure Comments **6/16 on Tape**

Change....	File	ID	1950.0	RA	Dec	L/R	Exposure	Comments	
		1				↓	90s		
		2		11-916	18:48:17	-06:21:01		16m	M11
		3		Th-Ar			90s		
		4		Th-Ar			90s	HADDS	
		5		G24-25	20:37:42	04:22:42		15m	10.6/50
		6		Th-Ar			90s		
		7		Th-Ar			90s		
		8		G24-17	20:27:40	04:24:24		14m	11.4/20
		9		Th-Ar			90s		
		10		Th-Ar			90s		
		11		G143-43	20:14:45	17:06:36		7m	10.8/20
		12		Th-Ar			90s		
		13		Th-Ar			90s		
		14		S125806	20:23:47	09:17:35		3m	8.4/50 sky coming up
		15		Th-Ar			90s		
		16		Th-Ar			90s		
		17		H182572	19:22:35	11:50:10		3m	IAU standard NDI
		18		Th-Ar			90s		
		19		Th-Ar			90s		
		20		SKY-DWN	stars		5m		
		21		Th-Ar			90s		
		22		INLAND			120"IN		
		23		INLAND			64"IN		
JUNE 15/16		24		Th-Ar			90s	51871 80μ slit	
		25		SKY-EVE			5"IN		
		26		Th-Ar			90s		
		27		Th-Ar			90s	Very cloudy	
		28		W44117	13:09:32	28:07:52		4"IN	4.2/150 SWS7
		29		Th-Ar					
		30							
		31							
		32							

Intensified Reticon

Spectrograph ECHELLE Log Sheet TO CAM

Grating _____ Observer M. DZEH

Telescope _____ Date 15/16 June 81 Disk 1045

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	Th-Ar			↓	
		2	W52626	13:05:30	27:48:21	3 ^M	62/40 SAS7
		3	Th-Ar			↑	
		4	Th-Ar			↓	
		5	W52099	13:04:46	27:55:33	2 ^M	48/200 SAS7
		6	Th-Ar			↑	
		7	Th-Ar			↓	
Append		8	LAM VR	14:16:24	-13:08:31	6 ^M	4.1/10 TRIPLES
		9	Th-Ar			↑↓	very heavy clouds
		10	LAM VR	14:16:24	-13:08:31	13 ^M	
Separate		11	Th-Ar			↑	
		12	LAM VR	14:16:21	-13:08:31	14 ^M	4.1/300
Separate		13	Th-Ar			↑↓	
		14	LAM VR	14:16:24	-13:08:31	5 ^M	4.1/200
		15	Th-Ar			↑	
		16	Th-Ar			↓	
		17	H102018	11:28:07	41:33:50	7 ^M	7.0/50
		18	Th-Ar			↑	
		19	Th-Ar			↓	Is that the right star?
		20	G/S 503	13:17:36	48:02:04	8 ^M	9.0/40 MSTAR
		21	Th-Ar			↑	
		22	Th-Ar			↓	
		23	S087451	13:03:57	22:13:00	2 ^M	59/50
		24	Th-Ar			↑↓	
		25	G/S 499	13:03:49	20:59:42	12 ^M	9.4/5
		26	Th-Ar			↑	
		27	Th-Ar			↓	
		28	S065595	16:48:50	32:35	2 ^M	6.3/110
		29	Th-Ar			↑↓	
		30	G/S 638	16:43:14	33:35	6 ^M	8.1/50
		31	Th-Ar			↑	
		32					

6/16 on Tape

Spectrograph ECHELLE Intensified Reticon TO CAM
 Grating 3000 Log Sheet RAW/RET 12
 Telescope 61" WYETH Date 15/16 June 1986 Observer MAZEF
 Disk 1046

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓		
		2	H 134616	15:06:33	03: 8: 27	5 MIN	6.1/90 Triples
		3	Th-Ar		↑		
		4	Th-Ar		↓		
		5	H 141784	16:00:57	+58: 41	2 MIN	1.1/500
		6	Th-Ar		↑		
		7	Th-Ar		↓		
		8	G 171-7	23: 35: 30	+45: 55: 29	3 MIN	6.6/60 HALO
		9	Th-Ar		↑		
		10	Th-Ar		↓		
		11	S 032250	00:15: 41	+44:16:52	9 MIN	7.6/50 M STARS
		12	Th-Ar		↑		varying clouds
		13	G 15A	00:15: 40	+43: 44	6 MIN	3.1/30 M STARS
		14	Th-Ar		↑		
		15	Th-Ar		↓		cev too dim
		16	G 34B	00:46: 08	+57: 33	4 MIN	7.5/35 I made it stronger
		17	Th-Ar		↑		
		18	Th-Ar		↓		
		19	S 021788	00:46: 19	+56: 48	5 MIN	7.1/95 M STARS
		20	Th-Ar		↑		
		21	Th-Ar		↓		I G N O R E
		22	Th-Ar		↓		
		23	Sk-M5V			10 MIN	200
		24	Th-Ar		↑		
		25	INCAND			120 MIN	
		26	INCAND			120 MIN	
		27	INCAND			120 MIN	
		28					
		29					
		30					
		31					
		32					

6/16 on Tape

Intensified Reticon TO CAM 6/17

Spectrograph ECHELLE Log Sheet RAW/RET 12

Grating 3000 Observer GS

Telescope 61" WYETH Date JUNE 16-17 1986 Disk ORO 1047

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90 ^s	5187A 80μ SLIT
		2				5 ^{MIN}	HY CIRR AT TIMES
		3			↑	90 ^s	
		4			↓	90 ^s	
		5	H136202	15:16:45	01:57:12	3 ^{MIN}	5.1 / IAU STANDARD
		6			↑	90 ^s	
		7			↓	90 ^s	
		8	G122-51	11:50:06	38:04:39	2 1/2 ^{MIN}	6.4/20 HALO BINARIES
		9			↑	90 ^s	
		10			↓	90 ^s	
		11	(1)	11:13:25	16:02:59	7 ^{MIN}	8.7 / ASTEROID
		12			↑	90 ^s	
		13			↓	90 ^s	
		14	H106516	12:12:36	-10:01:14	4 1/2 ^{MIN}	6.1/20 HALO
		15			↑	90 ^s	
		16			↓	90 ^s	
		17	G14-54	13:25:44	-00:34:20	3 ^{MIN}	7.4/20
		18			↑	90 ^s	
		19			↓	90 ^s	
		20	G62-44	13:29:07	-02:03:54	6 ^{MIN}	7.3/20 INCREAS. CLDS
		21			↑	90 ^s	HOLD FOR LTNG ETC
		22				120 ^{MIN}	JUNE 17-1000 START
		23				22 ^{MIN}	
JUNE 17/18		24			↓	90 ^s	5187A 80μ SLIT
		25				5 ^{MIN}	CLEAR
		26			↑	90 ^s	
		27			↓	90 ^s	
		28	H89449	10:17:01	19:43:31	2 ^{MIN}	4.8 / IAU STAND.
		29			↑	90 ^s	
		30	(1) TH-A	11:14:29		90 ^s	
		31	(1)	11:14:29	15:52:34	5 ^{MIN}	8.8 / ASTEROID
		32			↑	90 ^s	

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Spectrograph ECHELLE Intensified Reticon TO CAMI
 Grating 300 Log Sheet RAW/RET 12
 Telescope 61" WYETH Date JUNE 17/18 1986 Observer GS
 Disk ORO 1048

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	TH-AR		↓	90°	5187A 80μSCT
	043285	10:16:21	48:38.52		↓	2 MIN	6.1/100 H STARS
		3	TH-AR		↓	90°	
	5L380	10:08:13	49:42:09		↓	2 MIN	6.6/100
		5	TH-AR		↓	90°	
		6	TH-AR		↓	90°	
	5043396	10:32:32	45:54.46		↓	3 MIN	7.5/100
		8	TH-AR		↓	90°	
	GLs 397	10:28:25	45:47.1		↓	5 1/2 MIN	8.0/40
		10	TH-AR		↑	90°	
		11	TH-AR		↓	90°	
	5043627	11:06:51	43:28:49		↓	2 MIN	6.0/100
		13	TH-AR		↓	90°	
	GLs 412A	11:02:45	43:47.37		↑	6 MIN	8.8/40 500 STAR ON T.V. (FEW CLDS)
		15	TH-AR		↑	90°	
		16	TH-AR		↓	90°	
	5015472	11:16:06	62:27.22		↓	3 MIN	7.0/100 CLDS. INCREASES.
		18	TH-AR		↓	90°	
	GLs 430	11:28:22	63:26.00		↓	20 MIN	9.0/40
		20	TH-AR		↑	90°	
		21	TH-AR		↓	90°	
	661-24	12:55:07	18:57.48		↓	6 MIN	8.9/50 HALOS
		23	TH-AR		↑	90°	
		24	TH-AR		↓	90°	
	+102495	12:56:49	09:30:42		↓	7 MIN	7.7/30
		26	TH-AR		↑	90°	
		27	TH-AR		↓	90°	
	5101380	15:05:06	17:38:30		↓	5 MIN	9.2/20
		29	TH-AR		↑	90°	
		30	TH-AR		↓	90°	
	H135148	15:10:55	12:38:36		↓	3 MIN	9.5/15
		32	TH-AR		↑	90°	

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TO CAM ~~1049~~

Spectrograph ECHELLE Intensified Reticon
Log Sheet

Grating 3000

Observer GS

Telescope 61" WYETH

Date JUNE 17/18 1986

Disk ORD 1049

RAWRET 12

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90°	5187A 80μ SLIT
	+13070		15:20:08	01:26:30		18 MIN	9.5/40 HALOS PTV CLDY
		3			↑	90°	
		4			↓	90°	
	G170-47		17:30:38	23:46:18		8 MIN	8.9/100
		6			↑	90°	
		7			↓	90°	
	G170-56		17:36:05	18:35:15		6 MIN	9.8/30
		9			↑	90°	
		10			↓	90°	
	G183-11		17:52:35	20:16:54		9 MIN	9.7/50 CLEARINGS
		12			↑	90°	
		13			↓	90°	
	G92-19		19:36:38	-2:47:30		7 MIN	10.3/20
		15			↑	90°	
		16			↓	90°	
	M11-1223		18:48:19	-6:18:30		16 MIN	M11
		18			↑	90°	
	M11-926		18:48:26	06:20:02		15 MIN	
		20			↑	90°	
	M11-916		18:48:17	-6:21:01		15 MIN	STD (8 ARC SEC SEE.)
		22			↑	90°	
		23			↓	90°	6563A 80μ SLIT
	P CYG		20:15:57	37:52:36		5 MIN	4.8/ ND 1.0 FILTER H ALPHA
		25			↑	90°	
		26			↓	90°	
	BETA AQR		21:28:56	-05:47:22		6 MIN	2.9/ ND 1.0 FILT.
		28			↑	90°	
		29			↓	90°	
	ALPHA AQR		22:03:13	-00:33:13		6 MIN	2.9/ ND 1.0 FILT.
		31			↑	90°	
		32					

Spectrograph ECHELLE Intensified Reticon TO CAM 6/18
 Grating 3000 Log Sheet RAWRET 12
 Telescope 61" WYETH Date JUNE 17-18 1986 Observer GS
 Disk ORO 1050

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90 ^s	6563 A 80μ SLIT
	LAM AND	2	23:35:06	46:11:14		10 ^{MIN}	3.9 (HALPHA) ND 1.0 FILTER
		3			↑	90 ^s	
		4			↓	90 ^s	5187A 80μ SLIT
	G130-32	5	23:57:31	33:54:42		3 ^{MIN}	8.5/20 HALDS
		6			↑	90 ^s	
		7			↓	90 ^s	
	G129-42	8	23:52:30	20:06:24		2 ^{MIN}	8.9/20
		9			↑	90 ^s	
		10			↓	90 ^s	
	G210-46	11	20:58:01	40:03:42		5 ^{MIN}	6.5/300
		12			↑	90 ^s	
		13			↓	90 ^s	
	214-18B	14	22:13:08	39:31:36		2 ^{MIN}	7.6/15
		15			↑	90 ^s	
		16			↓	90 ^s	
	H213014	17	22:25:45	17:00:28		2 1/2 ^{MIN}	7.7/ IAU STANDARD
		18			↑	90 ^s	
		19			↓	90 ^s	
	SKY DAW	20				6 ^{MIN}	
		21			↑	90 ^s	
	INCANDS	22				120 ^{MIN}	
	INCANDS	23				120 ^{MIN}	
	INCANDS	24				120 ^{MIN}	
	INCANDS	25				53	
JUNE 18/19		26			↓	90 ^s	5187A 80μ SLIT
	SKY EVE	27				5 ^{MIN}	
		28			↑	90 ^s	
		29			↓	90 ^s	
	H89449	30	10:17:01	19:43:37		3 ^{MIN}	4.8/ (1.0 ND FILTER) IAU STANDARD
		31			↑	90 ^s	
		32					