

TO CAM 9/24

Intensified Reticon

Spectrograph ECHELLE Log Sheet RAWRET 13

Grating 300 Observer GS

Telescope 61" WYETH Date SEPT 24-25 1986 Disk ORD 1200

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90°	6563A. 80μ SLIT
	LAM AND		23:35:06	46:11:14		6 MIN	3.9/ (.3ND FILT) H ALPHA
		3			↑	90°	
		4			↓	90°	
	ALPHA ORI		05:52:28	07:23:58		6 MIN	08/ (2.0 ND FILT)
		6			↑	90°	
		7			↓	90°	
	OMGA ORI		05:36:33	04:05:41		12 MIN	4.5/ (1.0 ND FILT)
		9			↑	90°	
		10			↓	90°	
	BETA ORI		05:12:16	-08:16:00		12 MIN	0.1/ (2.0 ND FILT)
		12			↑	90°	
		13			↓	90°	
	LAM ORI		05:06:45	-08:49:00		4 MIN	4.3/
		15			↑	90°	
		16			↓	90°	5187A 80μ SLIT
	RX AVR		04:57:55	39:53:17		2 MIN	9.2/50 CEPHEIDS
		18			↑	90°	
		19			↓	90	
	SV MON		06:18:45	06:29:41		5 MIN	8.9/50
		21			↑	90°	
		22			↓	90°	
	T MON		06:22:31	07:06:53		2 1/2 MIN	6.6/50
		24			↑	90°	
		25			↓	90°	
	GLS 154		03:43:19	26:03:42		8 MIN	9.6/40 H STARS
		27			↑	90°	
	S076206		03:45:07	24:50:08		2 MIN	6.8/100
		29			↑	90°	
		30					
		31					
		32					

9/25

TO CAM

Spectrograph ECHELLE Intensified Reticon
 Log Sheet RAW RET 13
 Grating 3000 Observer GS
 Telescope 6" WYETH Date SEPT 24-25 1986 Disk ORO 1201

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	TH-AR		↓	90 ^s	5187A. 80 μ slit
	96-20	05:01:59	10:11:24			4 ^{MIN}	9.6/30 VIACOS
		3	TH-AR		↑	90 ^s	
		4	TH-AR		↓	90 ^s	
	G101-31	06:13:11	14:43:42			2 ^{MIN}	9.1/15
		6	TH-AR		↑	90 ^s	
		7	TH-AR		↓	90 ^s	
	G103-44	06:33:22	37:53:48			2 1/2 ^{MIN}	9.5/15
		9	TH-AR		↑	90 ^s	
		10	TH-AR		↓	90 ^s	
	G88-14	07:10:51	25:06:00			2 ^{MIN}	8.4/15
		12	TH-AR		↑	90 ^s	
		13	TH-AR		↓	90 ^s	
	G88-8	07:06:14	15:30:18			2 ^{MIN}	8.0/15
		15	TH-AR		↑	90 ^s	
		16	TH-AR		↓	90 ^s	
	G89-13	07:19:43	09:00:06			2 1/2 ^{MIN}	7.4/15 DAWN CREEPING IN!
		18	TH-AR		↑	90 ^s	
		19	TH-AR		↓	90 ^s	
	SKY DWN	4HR HA	0° DEC			2 1/2 ^{MIN}	
		21	TH-AR		↑	90 ^s	
		22	TH-AR		↓	90 ^s	
	SKY DWN	0HR HA	0° DEC			3 ^{MIN}	
		24	TH-AR		↑	90 ^s	
		25	INCANDS			120 ^{MIN}	
		26	"			120 ^{MIN}	
		27	INCANDS			45 ^{MIN}	
		28					
		29					
		30					
		31					
		32					

Spectrograph ECHELLE

Intensified Reticon

TO CAM 9/25

Grating 300L

Log Sheet

RAW/RET 13

Telescope SMDate 9/25-26/86Observer DMDisk ORO 1202

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
	1	TH-AR			↓	90 ^s	5187 ^Å 700
	2	SKYZEVEN				2 ^m	0 ^h 42 ^o
	3	TH-AR			↑	90 ^s	
	4	TH-AR			↓	90 ^s	
	5	SKYZEVEN				2 ^m	5 ^h 42 ^o
	6	TH-AR			↑	90 ^s	
	7	TH-AR			↓	90 ^s	
	8	H146051	16 11 43	-03 34		2 ^m	ND = 1.0 FILTER
	9	TH-AR			↑	90 ^s	
	10	TH-AR			↓	90 ^s	
	11	H182572	19 22 35	11 50		2 ^m	ND = 0.3 FILTER
	12	TH-AR			↑	90 ^s	
	13	TH-AR			↓	90 ^s	
	14	S011983	01 44 10	63 36		2 ^m	
	15	TH-AR			↑	90 ^s	
	16	G1569	01 40 10	63 34		4 ^m	
	17	TH-AR			↑	90 ^s	
	18	TH-AR			↓	90 ^s	
	19	H144515	16 03 32	10 49		3 ^m	
	20	TH-AR			↑	90 ^s	
	21	TH-AR			↓	90 ^s	
	22	G15644A	16 52 46	-08 15		14 ^m	CLASS
	23	TH-AR			↑	90 ^s	
	24	TH-AR			↓	90 ^s	
	25	7 LAC	22 38 53	56 34		3 ^m 3 ^h	
	26	TH-AR			↑	90 ^s	
	27	TH-AR			↓	90 ^s	
	28	SV VUL	19 49 28	27 20		2 ^m	
	29	TH-AR			↑	90 ^s	
	30	TH-AR			↓	90 ^s	
	31	X CYG	20 41 27	35 24		2 ^m	
	32	TH-AR			↑	90 ^s	

Spectrograph ECHELLE

Intensified Reticon

TO CAM 9/25

Grating 700

Log Sheet

RAW/RET 13

Telescope SMDate 9/25-6/86Observer DMDisk OR 0 1203

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments	
		1	TH-AR	18 20		↓	90 ^s	5187A ^h 80 ^h
		2	V433HER	18 20 03	23 26		16 ^m	
		3	TH-AR			↑	90 ^s	
		4	TH-AR			↓	90 ^s	
		5	Z AND	23 31 15	48 32		10 ^m	
		6	TH-AR			↑	90 ^s	
		7	TH-AR			↑	90 ^s	
		8	AR PER	01 33 06	54 00		20 ^m	
		9	TH-AR			↑	90 ^s	
		10	TH-AR			↑	90 ^s	
		11	VX PER	02 04 18	58 12		7 ^m	
		12	TH-AR			↑	90 ^s	
		13	TH-AR			↓	90 ^s	
		14	S7 CAS	02 23 33	59 14		12 ^m	
		15	TH-AR			↑	90 ^s	
		16	VY PER	02 23 56	58 42		20 ^m	
		17	TH-AR			↑	90 ^s	
		18	TH-AR			↓	90 ^s	
		19	S164894	22 07 00	-13 51		4 ^m	
		20	TH-AR			↑	90 ^s	
		21	TH-AR			↓	90 ^s	
		22	G156-65	22 53 12	-8 05		2 ^m	
		23	TH-AR			↑	90 ^s	
		24	TH-AR			↓	90 ^s	
		25	G157-8	23 01 21	-05 04		2 ^m	
		26	TH-AR			↑	90 ^s	
		27	TH-AR			↓	90 ^s	
		28	G29-50	23:33:16	00:10:16		6 ^m	10.2/15 (halos?) HALOS
		29	TH-AR			↑	90 ^s	
		30						
		31						
		32						

Spectrograph ECHELLE

Intensified Reticon

TO CAM 9/25

Grating 300

Log Sheet

RAW/RET 13

Telescope 6"

WVETH

Date SEPT 25-26 1986

Observer GS

Disk ORD 1204

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	TH-AR		↓	90°	5187A 80μ SLIT
	G 27-29	2	22:25:20	-05:32:06		18 MIN	11.2/15 HALOS
		3	TH-AR		↑	90°	
		4	TH-AR		↓	90°	
	G 270-62	5	00:43:35	-05:54:59		3 MIN	9.1/15
		6	TH-AR		↑	90°	
		7	TH-AR		↓	90°	
	-11145	8	00:45:53	-10:57:30		12 MIN	10.8/20
		9	TH-AR		↑	90°	
		10	TH-AR		↓	90°	
	-20170	11	00:54:42	-20:06:18		8 MIN	10.3/20
		12	TH-AR		↑	90°	
		13	TH-AR		↓	90°	
	(4)	14	00:59:12	-06:41:03		2 MIN	7.2/ ASTEROID
		15	TH-AR		↑	90°	
		16	TH-AR		↓	90°	
	H 8779	17	01:23:53	-00:39:29		2 MIN	6.4/ IAU STD
		18	TH-AR		↑	90°	
		19	TH-AR		↓	90°	
	G 81-33	20	04:41:15	43:06:42		6 MIN	8.7/15 HALOS
		21	TH-AR		↑	90°	
		22	TH-AR		↓	90°	
	G 96-16	23	04:58:22	44:58:12		4 MIN	9.8/15
		24	TH-AR		↑	90°	
		25	TH-AR		↓	90°	
	G 96-17	26	04:58:35	42:22:18		5 MIN	10.2/15
		27	TH-AR		↑	90°	
		28	TH-AR		↓	90°	
	G 96-19	29	05:01:27	43:14:48		2 1/2 MIN	9.5/15
		30	TH-AR		↑	90°	
		31					
		32					

TO CAM 8/25

Intensified Reticon

Spectrograph ECHELLE Log Sheet RAWRET 13

Grating 3000 Observer GS

Telescope 61 WYETH Date SEPT 25-26 1986 Disk ORO 1205

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90 ^s	5.87A 80H SLIT
	G96-35		05:19:01	47:52:06		2 MIN	9.2/15 HALOS
		3			↑	90 ^s	
		4			↓	90 ^s	
	G191-55		05:53:04	58:40:24		15 MIN	10.5/40
		6			↑	90 ^s	
		7			↓	90 ^s	
	RX AUR		04:57:55	39:53:17		4 MIN	9.2/50 CEM.
		9			↑	90 ^s	
		10			↓	90 ^s	
	SV MON		06:18:45	06:29:41		7 MIN	8.9/50
		12			↑	90 ^s	
	T MON		06:22:31	07:06:53		2 MIN	6.6/50
		14			↑	90 ^s	
		15			↓	90 ^s	
	S95160		06:00:15	19:22:17		4 MIN	9.3/30 HALOS
		17			↑	90 ^s	
		18			↓	90 ^s	
	S58912		06:12:35	37:44:38		3 MIN	8.9/30 (NO CHART)
		20			↑	90 ^s	
		21			↓	90 ^s	
	G88-5		07:03:12	18:42:54		8 MIN	10.2/20
		23			↑	90 ^s	
		24		30:45:40	↓	90 ^s	
	G90-25		07:50:22	28:55:22		3 MIN	8.3/50
		26			↑	90 ^s	
		27			↓	90 ^s	
	G98-42		06:02:49	26:33:48		3 MIN	9.4/15
		29			↑	90 ^s	
		30			↓	90 ^s	
	H51754		06:56:06	-00:24:00		2 1/2 MIN	9.0/20 (NO CHART)
		32			↑	90 ^s	

9/24

Intensified Reticon

TO CAM1

Spectrograph ECHELLE

Log Sheet

RAWRET 13

Grating 3000

Observer GS

Telescope 6" WYETH

Date SEPT 25-26 1982

Disk ORD 1206

Change....	File	ID	1950.0 RA	Dec	L/R +/-	Exposure	Comments
		1			↓	90 ^s	5187A 80μ slit
		2	G112-54	07:52:02 -01:16:51		2 MIN	7.4/30
		3			↑	90 ^s	0530 OVERCAST FOG
		4			↓	90 ^s	
		5	SKYDOWNC	4 1/2 HRE HA +20°		2 1/2 MIN	OVERCAST
		6			↑	90 ^s	
		7			↓	90 ^s	
		8	SKYDOWNM	0HR HA +20°		2 MIN	
		9			↑	90 ^s	
		10				120 MIN	
		11				120 ^h	
		12				45 ^h	
SEPT 26/27		13			↓	90 ^s	5187A 80μ slit
		14	SKYEVLM	0HR HA +20°		2 1/2 MIN	OVERCAST
		15			↑	90 ^s	
	TH-AR	16	SKYDOWNW	4 HRE HA +20°	↓	90 ^s	(LITTLE LATE)
		17	SKYEVLM	4 HRE HA +20°		5 MIN	
		18			↑	90 ^s	
		19			↓	90 ^s	
		20	SV VUL	19 49 28 27 20		2 1/2 ^h	
		21			↑	90 ^s	
		22			↓	90 ^s	
		23	X CYG	20 42 51 25 32		2 ^h	
		24			↑	90 ^s	
		25			↓	90 ^s	
		26	VX PER	02:04:18 58:12:22		8 ^h	
		27			↑	90 ^s	
		28	SZ CAS	02 23 32 59 14		9 ^h	
		29			↑	90 ^s	
		30					
		31					
		32					

Spectrograph ECHELLE

Intensified Reticon

TO CAM 9/27

Grating 3002

Log Sheet

RAW RET 13

Telescope 61" Wyeth

Date ²⁶⁻²⁷ 9/26/1986

Observer RPS

Disk ORO 1208

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90s	
		2	SKYDOWN	CP HOURS		1m	δ = +25°
		3			↑	90s	
		4	INCAND			120 MIN	
		5	INCAND			120 MIN	
SEPT 27/28		6	TH-AR		↓	90s	5187A 80μSLIT
		7	SKYVLM	OHRA HA	+35°	2 MIN	
		8	TH-AR		↑	90s	
		9	TH-AR		↓	90s	
		10	SKYVLM	4HRWHA	+35	2 MIN	
		11	TH-AR		↑	90s	
		12	TH-AR		↓	90s	
		13	H136202	15:16:45.4	01:57:12	2m	IAU Rad Vel Std.
		14	TH-AR		↑	90s	
		15	TH-AR		↓	90s	
		16	X Cyc	20:41:27	35:24:24	2m	Cepheid
		17	TH-AR		↑	90s	
		18	TH-AR		↓	90s	
		19	SV VUL	19:49:28	27:19:53	2m	
		20	TH-AR		↑	90s	
		21	TH-AR		↓	90s	
		22	Z Lac	22:38:53	56:34:05	3 1/2 m	
		23	TH-AR		↑	90s	
		24	TH-AR		↓	90s	
		25	G15644A	16:52:46	-8:15:17	15m	M stars
		26	TH-AR		↑	90s	
		27	TH-AR		↓	90s	
		28	H144515	16:03:32	10:49:11	12m	Only 40 counts - clouds in W.
		29	TH-AR		↑	90s	
		30	TH-AR		↓	90s	
		31	H144284	16:00:57	58:41:59	2m	
		32	TH-AR		↑	90s	

Intensified Reticon

TO CAM 9/28

Spectrograph ECHELLE

Log Sheet

RAW/RET 13

Grating 300 line

Observer RJD

Telescope 61" wyeth

Date 9/27-28/86

Disk ORO 1209

Change....	File	ID	1950.0 RA	Dec	L/R +/-	Exposure	Comments
		1			↓	90 ^s	
		2	H182572	19:22:35.1	11:50:09		2 ^m IAU Rad Vel Standard
		3			↑	90 ^s	
		4			↓	90 ^s	
		5	G126-62	22:09:26	17:51:12		16 ^m Halo Binaries
		6			↑	90 ^s	
		7			↓	90 ^s	
		8	G219-20	01:42:24	57:35:34		3 ^m
		9			↑	90 ^s	
		10	G173-25	01:47:26	55:40:18		4 ^m
		11			↑	90 ^s	
		12			↓	90 ^s	
		13	G244-59	02:12:58	64:43:30		2 ^m
		14			↑	90 ^s	
		15			↓	90 ^s	
		16	VX Per	02:04:18	58:12:22		9 ^m Cepheids
		17			↑	90 ^s	
		18			↓	90 ^s	long wait for clouds
H213014		19	S2 G22:25:33	17:14:43		9 ^m	22:25:45.8, +17:00:28
		20			↑	90 ^s	IAU Rad Vel St.
		21			↓	90 ^s	
		22	(4)	00:57:26.2	-6:54:06		5 ^m Asteroid
		23			↑	90 ^s	
		24			↓	90 ^s	5-sec Power interruption
		25	U496	22:45:17.8	44:16:57		15 ^m Uppgren
		26			↑	90 ^s	Clouds interfering
		27			↓	90 ^s	
		28	U492	22:44:18	44:02:00		9 ^m
		29			↑	90 ^s	
		30	U493	22:44:43	44:04:48		14 ^m
		31			↑	90 ^s	
		32					

Intensified Reticon

TO CAM ~~12~~ 9/28Spectrograph ECHELLE

Log Sheet

RAW/RET 13

Grating 3002Observer RVDTelescope 61" WyethDate 9/27-28/86Disk ORO 1210

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

Change....	File	ID	1950.0	RA	Dec	L/R	Exposure	Comments
						↑/↓		
		1	U494	22:44:43	14:04:48		20 ^m	Uppgren
		2	THAr			↓	90 ^s	
		3	U491	22:58:00	12:45:00		10 ^m	
		4	THAr			↑	90 ^s	
		5	THAr			↓	90 ^s	
		6	Rx Aur	04:57:55	9:53:17		2 1/2 ^m	Cepheid
		7	THAr			↑	90 ^s	
		8	THAr			↓	90 ^s	
		9	G250-23	06:45:49	10:59:18		2 ^m	Halo Binaries
		10	THAr			↑	90 ^s	
		11	THAr			↓	90 ^s	
		12	S14359	07:50:03	62:16:06		2 ^m	
		13	THAr			↓	90 ^s	
		14	G234-7	07:37:34	10:41:06		4 ^m	
		15	THAr			↑	90 ^s	
		16	THAr			↓	90 ^s	
		17	G217-24	23:53:39	59:29:12		2 ^m	
		18	THAr			↑	90 ^s	
		19	THAr			↓	90 ^s	
		20	G241-58	23:30:34	62:52:42		2 ^m	
		21	THAr			↑	90 ^s	
		22	THAr			↓	90 ^s	
		23	G160-13	03:39:25	06:06:06		3 ^m	
		24	THAr			↑	90 ^s	
		25	THAr			↓	90 ^s	
		26	T Mon	06:22:31	07:06:53		2 1/4 ^m	Cepheids
		27	THAr			↓	90 ^s	
		28	SV MON	06:18:45	06:29:41		3 ^m	
		29	THAr			↑	90 ^s	
		30	THAr			↓	90 ^s	
		31	G82-47	04:44:05	4:41:42		4 1/2 ^m	Halo Binaries
		32	THAr			↑	90 ^s	

TO CAM 9/28

RAW/RET 13

Observer RJD

Disk OKO 1211

Intensified Reticon

Spectrograph ECHELLE Log Sheet

Grating 3002

Telescope 61" Wyeth Date 9/27-28/86

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90 ^s	
		2	984-37	05:07:06	05:29:42	3 1/2 ^m	Halo Binaries
		3			↑	90 ^s	
		4			↓	90 ^s	
		5	999-40	05:50:25	-3:30:00	2 ^m	
		6			↑	90 ^s	
		7			↓	90 ^s	
		8	H26162	04:06:14.9	19:28:43	2 ^m	IAU Rad Vel Std
		9			↑	90 ^s	
		10			↓	90 ^s	
		11	SKYDOWN			4 ^m	4 ^h E, +10°
		12			↑	90 ^s	
		13			↓	90 ^s	
		14	SKYDOWN			3 ^m	Meridian, +30°
		15			↑	90 ^s	
		16	INCANDS			90 19-0 ^m	
9/28-29/86		17	TH-AR		↓	90 ^s	LAM
		18	SKYEVE	Meridian	δ=30°	2 ^m	5187 - Henry Stratus
		19			↑	90 ^s	
		20			↓	90 ^s	
		21	SKYEVE			2 ^m	5187 - Low CLOUDS
		22	TA-AR	4 ^h W	δ=30°	90 ^s	clearing 10PM
		23			↓	90 ^s	
		24	R13014	22 25 45.8	17:00 28	2 ^m	IAU Standards
		25			↓	90 ^s	
		26	R13013	22 25 46	17:00 21	2 ^m	"
		27			↑	90 ^s	
THAR →		28	THAR	20 41 25	35 24 24	90 ^s	Cepheids - Clouding Up
X Cyg →		29	THAR	20 41 26	35 24 24	3 ^m	
		30			↑	90 ^s	
		31					
		32					

TO CAM 9/30

RAW RET 13

Spectrograph ECHELLE Intensified Reticon

Grating 300 L Log Sheet

Telescope 61" Wyeth Date 9-28-29 Observer LATH

Disk ORO 1012

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90 ^s	6563 (Clouds)
		2	23 03 30	-00 33 19		15 ^m	SALLY B. HA Profile
		3			↑	90 ^s	
		4			↓	90 ^s	
		5	21 30 45	-05 38 16		3 ^m	HA Profile
		6			↑	90 ^s	
		7			↑	90 ^s	
		8	20 12 16	37 59 88		4 ^m	HA
		9			↑	90 ^s	
		10			↓	90 ^s	
		11	23 35 06	3 4 6 11 40		10 ^m	HA
		12			↑	90 ^s	11:30 EST TOO CLOUDY FOR V22
		13				120 ^m	
BEGUN 0:15 EST		14				120 ^m	
		15				120 ^m	
		16				59 ^m	
9/29-30/26		17			↓	90 ^s	
		18				2 ^m	HA 120 DEC
		19			↑	90 ^s	
		20			↓	90 ^s	
		21				2 ^m	HA "
		22			↑	90 ^s	
		23			↓	90 ^s	6563A 80 μsec
		24	05:52:28	07:23:55		14 MIN	0.8 (HANDFILT) HA ALPH
		25			↑	90 ^s	FOVERCAST
		26			↓	90 ^s	
		27	05:36:33	04:05:41		10 MIN	4.5/ HA CLDS (OVERCAST)
		28			↑	90 ^s	
		29				120 MIN	
		30				45 ^m	
		31					
		32					