

Intensified Reticon TO CAM1

Spectrograph ECHELLE Log Sheet RAW/RET 8

Grating 300L Observer RPS

Telescope SH Date 8/29-30/85 Disk 726

Change....	File	ID	RA	1950.0 Dec	L/R ↑/↓	Exposure	Comments	
		1	Th-Ar	stow	position	↓	90s	5187A halo
		2	SKY-EVEN				5m	clouds - heavy
		3	Th-Ar			↑	90s	
		4	Th-Ar			↓	90s	
		5	H182572	19 22 35	11 50 09		2m	IAU standard
		6	Th-Ar			↑	90s	
		7	Th-Ar			↓	90s	
		8	G182-7	17 23 01	38 04 54		10m	In clouds - could not confirm field
		9	Th-Ar			↑	90s	came up in slit. Stops go! DLSP?
		10	INCLAND				120 min	rain 8:30 EST
		11	INCLAND				5 min	LATE START ON INCLANDS LTNG IN AREA
9/1-2/85		12	Th-Ar			↓	90s	5187A partly cloudy
		13	SKY-EVEN	stow	position		5min	
		14	Th-Ar			↑	90s	
		15	Th-Ar			↓	90s	
		16	H182572	19 22 35	+11 50 10		2mm	IAU Velocity Standard
		17	Th-Ar			↑	90s	
		18	Th-Ar			↓	90s	
		19	11-926	18 48 26	-06 20 02		20 min	M-11 / Mathieu
		20	Th-Ar			↓	90s	
		21	11-1223	18 48 19	-06 18 30		19 min	thin clds moving in
		22	Th-Ar			↓	90s	seeing x 5-7
		23	11-916	18 48 26	-06 20 48		20 min	M11 - standard
		24	Th-Ar			↑	90s	
		25	Th-Ar			↓	90s	C-up.
		26	G125-64	20 07 20	+42 42 48		21 min	Halos
		27	Th-Ar			↑	90s	
		28	Th-Ar			↓	90s	
		29	G209-35	20 31 05	41 43 24		2m	
		30	Th-Ar			↑	90s	
		31	/					
		32	/					

Intensified Reticon TO CAM1

Spectrograph ECHELLE Log Sheet RAW/RET 8

Grating 300L Observer RPS

Telescope SH Date 9/1-2/85 Disk 727

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90s	clouding up; C-bright
		2	G210-46	2φ 58 φ1	4φ φ3 42	4m	
		3			↑	90s	
		4			↓	90s	
		5	G208-29	19 3φ 37	48 28 54	9m	
		6			↑	90s	
		7			↓	90s	
		8	S87 333	19 3φ 29	26 17 φ5	9m	
		9			↑	90s	
		10			↓	90s	lost power to dec. drive.
		11	G25-15	21 φ1 37	02 48 φφ	3m	
		12			↑	90s	
		13			↓	90s	
		14	-φ95831	21 42 51	-φ8 39 φ6	6m	clouds
		15			↑	90s	
		16			↓	90s	
		17	S127141	21 51 28	06 37 42	2m	
		18			↑	90s	
		19			↓	90s	heavy clouds - few holes
		20	214-14B	22 13 φ8	39 31 36	3m	? B* has listed V=7.6; clearly A is the 7.6* ; B much, much fainter.
		21			↑	90s	This is the bright*. Too cloudy to get faint companion.
		22	INCAND			120 min	
		23	INCAND			120 min	
		24	INCAND			45 min	clouded out φφ: 30 557
9/2-3/85		25			↓	90s	5187 Å
		26	SKY-EVEN	slow	position	5m	
		27			↑	90s	
		28			↓	90s	
		29	H182572	19 22 35	11 5φ 1φ	4m	
		30			↑	90s	
		31					
		32					

Intensified Reticon TO CAM

Spectrograph ECHELLE Log Sheet RAW/RET 8

Grating 300L Observer RPS

Telescope SH Date 9/2-3/85 Disk 728

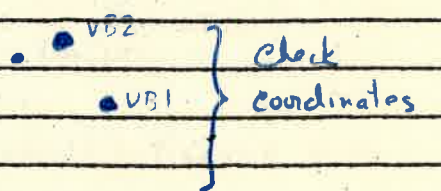
Change....	File	ID	1950.0 RA	Dec	L/R +/-	Exposure	Comments
		1			↓	90s	
		2	S122652	17 39 27	φ4 23 24	5m	clouds
		3			↑	90s	
		4			↓	90s	
		5	G207-5	18 49 42	38 34 φφ	7m	7.2/200 - why 200 counts?
		6			↑	90s	
		7			↓	90s	
		8	G205-42	18 52 44	42 55 φφ	33m	10/30 abit long!
		9			↑	90s	
		10			↓	90s	
		11	H184499	19 31 35	33 05 21	3m	6.6/30
		12			↑	90s	
		13			↓	90s	
		14	G23-6	19 32 33	11 18 48	5m	7.9/20 clearing; C up
		15			↑	90s	
		16			↓	90s	
		17	S105417	19 52 47	10 36 15	13m	8.8/30
		18			↑	90s	
		19			↓	90s	
		20	G92-23	19 40 φ2	φ8 φ2 φφ	10m	9.0/20 Binary?
		21			↑	90s	
		22			↓	90s	
		23	G187-40	21 19 46	27 14 18	20m	10.5/30 Really too faint for present conditions!
		24			↑	90s	
		25	G187-4φ	"	"	20m	
		26			↑	90s	
		27			↓	90s	
		28	G18-28	22 φ3 14	12 φ8 18	16m	9.6/30
		29			↑	90s	Overcast - heavy
		30			↓	90s	
		31	H213φ14	22 25 46	17 φφ 28	6m	7.7 IAU Velocity Standard
		32			↑	90s	

Intensified Reticon TO CAM1

Spectrograph ECHELLE Log Sheet RAW RET 8

Grating 300L Observer RPS

Telescope SH Date 9/2-3/85 Disk 729

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments	
		1			↓	90s		
	G168-31	Th-Ar	23 33 33	18 φ9 46		3m	7.7/20	
		2			↑	90s		
		3			↓	90s		
	G129-42	Th-Ar	23 52 3φ	2φ φ6 24		10m	9.0/20	
		4			↑	90s		
		5			↓	90s		
	G13φ-32	Th-Ar	23 57 31	33 54 42		9m	8.5/20 Overcast - stop! go.	
		6			↑	90s		
		7			↓	90s		
	G30-52	Th-Ar	φφ φ9 55	14 17 18		7m	8.6/20	
		8			↑	90s		
		9			↓	90s		
	G34-39	Th-Ar	φ1 34 39	24 55 φφ		2m		
		10			↑	90s		
		11			↓	90s		
	G37-26	Th-Ar	φ3 φ5 28	26 φ9 φ6		5m	Not sure of this star. Very cloudy -	
		12			↑	90s	guessed at guide star! Seems too	
		13			↓	90s	bright for 8.0.	
	VB3	Th-Ar	φ3 27 37	9 56 φ1		2m	Bright Hyades with only one obs.	
		14			↑	90s		
	Lφφ3	Th-Ar	φ3 27 37	9 56 φ1		5m	In clouds	
		15			↑	90s		
		16			↓	90s		
	VB1	Th-Ar	φ3 14 45	φ7 28 25		2m		
		17			↑	90s		
		18			↓	90s		
		19			↓	90s		
	VB2	Th-Ar	φ3 14 52	φ7 30 28		3.5m		
		20			↑	90s		
		21			↓	90s		
		22			↓	90s		
	VB11	Th-Ar	φ4 φ4 52	5 φ1 5φ		2m		
		23			↑	90s		
		24			↓	90s		
		25			↑	90s		

Spectrograph ECHELLE
 Grating 300L
 Telescope SH

Intensified Reticon
 Log Sheet
 Date 9/2-3/85

TO CAM1
RAW/RET 8
 Observer RPS
 Disk 730

Change....	File	ID	RA	Dec	1950.0 L/R ↑/↓	Exposure	Comments	
		1	VB12	04 04 52	15 01 50		4m	S. Companion to VB11 - maybe
		2	Th-Ar			↑	90s	contaminated by VB11
		3	Th-Ar			↓	90s	
		4	VB41	04 20 03	17 25 37		1m	
		5	Th-Ar			↑	90s	
		6	Th-Ar			↓	90s	clearing - too late ☉ is
		7	H493	04 27 48	15 35 05		1m	coming up!
		8	Th-Ar			↑	90s	
		9	Th-Ar			↓	90s	
		10	H388	04 23 48	16 38 08		2m	
		11	Th-Ar			↑	90s	
		12	Th-Ar			↓	90s	
		13	VB131	05 06 37	27 58 08		2m	
		14	Th-Ar			↓	90s	
		15	VB132	05 06 37	27 58 18		2m	
		16	Th-Ar			↑	90s	
		17	Th-Ar			↓	90s	
		18	H210162	04 06 15	19 28 43		2m	IAU standard
		19	Th-Ar			↑	90s	
		20	Th-Ar			↓	90s	
		21	SKY-DOWN	stow	position		5m	
		22	Th-Ar			↑	90s	
		23	INCANDOS				120 MIN	
		24	INCANDOS				37 MIN	
		25	Th-Ar	EST 0750			90 SEC	64° TEMP VS STABILITY FOR MATHIEU
		26	"	0810			"	64°
		27	"	0811			"	64°
		28	"	0845			"	64°
		29	"	0847			"	64°
		30	"	0849			"	64°
		31	"	0934			"	66°
		32	"	0936			"	66°

Intensified Reticon

TO CAM1

Spectrograph ECHELLE

Log Sheet

RAW RET 8

Grating 300L

Observer

GS/DM

Telescope SH

Date 9/3/85

Disk ORO 731

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	TH-AR	09 ⁵⁵ 38		90 ^s	66° THEN DOME OPENED
		2	"	09 55		90 ^s	66 SEE COMMENTS
		3	"	09 57		"	66
		4	"	09 58		"	66
		5	"	10 35		"	67
		6	"	10 37		"	67
		7	"	10 39		"	67
		8	"	11 03		"	68
		9	"	11 06		"	68
		10	"	11 09		"	68
		11	"	12 10		"	70
		12	"	12 12		"	70
		13	"	12 14		"	70
		14	"	12 54		"	72°
		15	"	12 56		"	72°
		16	"	12 57		"	72°
		17	"	13 35		"	72°
		18	"	13 36		"	72°
		19	"	13 38		"	72°
		20	"	14 09		"	72°
		21	"	14 11		"	72°
		22	"	14 12		"	72°
		23	"	14 57		"	72°
		24	"	14 58		"	72°
		25	"	14 59		"	72°
		26	"	15 34		"	72°
		27	"	15 36		"	72°
		28	"	15 38		"	72°
		29	"	16 30		"	72°
		30	"	16 31		"	72°
		31	"	16 33		"	72°
		32					

Intensified Reticon

TO CAM

Spectrograph ECHELLE Log Sheet

Grating 300L Observer GS/RPS

Telescope 61" SH Date Sept 3-4 1985 Disk ORD 732

9/3-4/85

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1	TH-AR	1729		90°	72° TEMP. STABILITY TESTS
		2	TH-AR	1730		"	72° 5187A 80μ SLIT
		3	"	1732		"	72°
		4	"	1832		"	70°
		5	"	1833		"	70°
		6	TH-AR	1836	↓	90°	70°
		7	SKY-EVE	stow	position	5m	Heavy cloud cover 5187A
		8	TH-AR		↑	90s	
		9	TH-AR	1937		90°	70° TEMP TEST
		10	TH-AR	1938		"	70°
		11	TH-AR	1939		"	70°
		12	Th-AR		↓	90s	
		13	H182572	19 22 35	11 50 10	3mm	IAU standard
		14	Th-AR		↑	90s	
		15	Th-AR		↓	90s	
		16	G1143-43	20 14 45	17 06 36	7m	10.8/20
		17	Th-AR		↑	90s	
		18	Th-AR		↓	90s	
		19	11-963	18 48 17.4	-06 16 27	21m	M-11/Mathieu } not ideal conditions
		20	Th-AR		↑	90s	2 hrs over-clear.
		21	Th-AR		↓	90s	thin clouds moving in.
		22	G210-33	20 43 33	40 12 30	21m	11.2/50
		23	Th-AR		↑	90s	
		24	Th-AR		↓	90s	
		25	G188-30	21 53 03	32 24 24	12m	11.1/30
		26	Th-AR		↑	90s	
		27	Th-AR		↓	90s	11.2/50
		28	G214-5	21 57 07	40 48 12	25m	11.5/50
		29	Th-AR		↑	90s	
		30	Th-AR		↓	90s	
		31	G27-29	22 25 20	-05 32 06	14m	11.2/15
		32	Th-AR		↑	90s	

Intensified Reticon TO CAM

Spectrograph ECHELLE Log Sheet RAW RET 8

Grating 300L Observer RJD

Telescope 61" Wyeth Date 9/4-5/85 Disk ORD 734

Change.... File ID RA Dec L/R Exposure Comments halo Binaries

Change....	File	ID	RA	Dec	L/R	Exposure	Comments
		1			↓	90 ^s	
	G26-38		21:56:12	00:34:18		4 ^m	Clouds mostly gone
		3			↑	90 ^s	
		4			↓	90 ^s	
	G25-5		20:46:49	01:44:24		3 1/2 ^m	
		6			↕	90 ^s	
	G24-25		20:37:42	00:22:42		12 1/2 ^m	
		8			↑	90 ^s	
		9			↓	90 ^s	
	S144547		20:30:07	-9:32:00		11 ^m	Moonrise
		11			↑	90 ^s	
		12			↓	90 ^s	
	S125806		20:23:47	9:17:35		2-1/2 ^m	
		14			↑	90 ^s	
		15			↓	90 ^s	
	S189226		20:20:39	-21:31:05		3 ^m	
		17			↑	90 ^s	
		18			↓	90s	Observer: RPS
	G186-26		20 22 37	24 53 30		22m	10.8/100
		20			↑	90s	
		21			↓	90s	
	G18-39		22 16 06	08 11 42		9m	10.4/30 clouds
		23			↑	90s	
		24			↓	90s	
	G157-21		23 06 29	-02 49 18		2 1/2 m	9.3/20
		26			↑	90s	
		27			↓	90s	
	G28-43		23 07 04	00 27 18		3 1/2 m	9.9/20
		29			↑	90s	
		30			↓	90s	
	S165532		23 07 48	-13 34 54		3m	8.4/100
		32			↑	90s	

Intensified Reticon TO CAMI

Spectrograph ECHELLE Log Sheet RAW RET 8

Grating 300L Observer RPS

Telescope 61" Wyeth Date 9/4-5/85 Disk 735

Change....	File	ID	RA	Dec	1950.0 L/R ↑/↓	Exposure	Comments
		1			↓	90s	
		2	S1656φ4	23 14 3φ	-14 φ6 28	3m	8.2/50
		3	Th-Ar		↑	90s	
		4	Th-Ar		↓	90s	
		5	G128-45	23 15 33	31 15 3φ	11m	11.7/15
		6	Th-Ar		↑	90s	
		7	Th-Ar		↓	90s	
		8	G30-24	23 48 φ7	17 φ4 54	7m	10.6/15
		9	Th-Ar		↑	90s	clouds
		10	Th-Ar	φφ φ9 55	14 17 18	90s	
		11	G30-52 G29-71	23 47 27	φ8 26 48	3m	8.6/20 * = G30-52
		12	Th-Ar		↑	90s	
		13	Th-Ar		↓	90s	
		14	G32-53	φφ 48 36	18 31 12	2m	8.8/15
		15	Th-Ar		↑	90s	
		16	Th-Ar		↓	90s	
		17	G71-33	φ1 42 38	φ3 15 48	15m	10.6/50 In clouds
		18	Th-Ar		↑	90s	
		19	Th-Ar		↓	90s	
		20	H8779	φ1 23 54	-φφ 34 2	2m	1AU Standard
		21	Th-Ar		↑	90s	
		22	Th-Ar		↓	90s	
		23	G271-69	φ1 25 23	-φ2 15 φφ	2.5m	
		24	Th-Ar		↑	90s	
		25	Th-Ar		↓	90s	
		26	G271-64	φ1 23 48	-φ4 55 54	2m	
		27	Th-Ar		↑	90s	
		28	Th-Ar		↓	90s	
		29	G29-71	23 47 27	φ8 26 48	15m	
		30	Th-Ar		↑	90s	
		31	/				
		32	/				

Intensified Reticon

TO CAMI

Spectrograph ECHELLE

Log Sheet

RAW/RET 8

Grating 300LObserver mm/RPSTelescope 61" WyethDate SEPT 4-5
1985Disk 736

Change....	File	ID	RA	Dec	1950.0	L/R ↑/↓	Exposure	Comments
		1	TH-AR			↓	90 ^s	5187A 80 μ SLIT
		2	SKY-DAWN				8 ^{MIN}	
		3	TH-AR			↑	90 ^s	
		4	INCANDS				120 ^{MIN}	
		5	INCANDS				120 ^{MIN}	
		6	INCANDS				49 ^{MIN}	
SEPT 5-6		7	TH-AR			↓	90 ^s	5187A 80 μ SLIT
		8	SKY-DUSK				5 ^{MIN}	
		9	TH-AR			↑	90 ^s	
SEPT 7-8		10	TH-AR			↓	90 ^s	5187A 80 μ SLIT
		11	SKY-DUSK				5 ^{MIN}	
		12	TH-AR			↑	90 ^s	
		13	TH-AR			↓	90 ^s	6563A 80 μ
		14	V CMV	13 17.3	45 47		5 ^{MIN}	
		15	TH-AR			↑	90 ^s	
		16	TH-AR			↓	90 ^s	
		17	FK COM	13 28.4	+24 29		14 ^{MIN}	
		18	TH-AR			↑	90 ^s	
		19	TH-AR	21 28.9	-05 48		90 ^s	6563 40 μ
		20	B AGR			↙	52 ^{MIN}	DI FILTER
		21	TH-AR			↑	90 ^s	
		22	TH-AR			↓	90 ^s	
		23	2-ALR	22 03.2	-00 34		8 ^{MIN}	DI FILTER
		24	TH-AR			↑	90 ^s	
		25	TH-AR			↓	90 ^s	
		26	LAM AND	23 35.06	46° 11:14		15 ^{MIN}	DI FILTER (CLOSE INCREASE)
		27	TH-AR			↑	90 ^s	
		28	TH-AR			↓	90 ^s	5187A 80 μ
		29	G141-47	18 50 55	10 33 48		10 ^{MIN}	
		30	TH-AR			↑	90 ^s	
		31	/					
		32	/					

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Intensified Reticon TO CAM

Spectrograph ECHELLE Log Sheet RAW/RET

Grating 300L Observer RPS

Telescope 61" Wyeth Date 9/7-8/85 Disk 737

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		Th-Ar			↓	90s	mostly clouds - short periods
		H213φ14	22 25 46	17 φφ 28		2m	IAU standard of clearing
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
		G68-29	23 32 31	25 φ7 30		6m	10.9/15
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
		G30-52	φφ φ9 55	14 17 18		13m	8.6/20
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
		G69-45	φφ 33 22	29 43 24		12m	8.0/30 stop go
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
		G69-45				14m	also stop go
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	Fog: Cannot work fainter than 6.0!
		H8779	φ1 23 54	-φφ 39 29		3m	IAU standard
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
		H26162	φ4 φ6 15	19 28 43		5m	IAU standard
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
		S56455?	φ3 23 53	34 15 18		22m	Not sure of this star - conditions
		Th-Ar			↑	90s	terrible
		Th-Ar			↓	90s	
		VB44	φ4 2φ φ3	17 25 37		4m	3.8 Hyades
		Th-Ar			↑	90s	
		Th-Ar			↓	90s	
		SKY-DAWN	stars	position		5m	
		Th-Ar			↑	90s	
		INCAND				120 MIN	
		INCAND				120 MIN	

Intensified Reticon

TO CAM

Spectrograph ECHELLE

Log Sheet

RAW RET 8

Grating 300L

Observer _____

Telescope 61" WYETH

Date SEPT 8-9 1985

Disk ORD 738

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
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1		TH-AR			↓	90°	S18? A 80 μ SLIT
2		SKY-DUSK				5 MIN	(MOSTLY CLOUD)
3		TH-AR			↑	90°	- CLOUDS - (DWL)
4							
5							
6							
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9/20

Intensified Reticon

TO CAM

Spectrograph ECHELLE

Log Sheet

RAW RET

Grating 300L

Observer D. Latham

Telescope Wyeth

Date 14-20 Sept 1985

Disk ORO 740

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90s	5187 Halo
		2	G270-162	01:07:39.0 - 04:50:18.		10m	
		3			↑	90s	11.7/15
		4			↓	90s	
		5	H8779	01:23:53.8 - 00:28:34		2m	TAV STD
		6			↑	90s	
		7			↓	90s	
		8	G34-16	01:13:55. 18:15:30		2m	8.5/20
		9			↑	90s	
		10			↓	90s	
		11	-18271	01:34:54 - 17:44:12		6m	9.8/20
		12			↑	90s	
		13			↓	90s	
		14	-22395	02:19:39.0 - 21:44:36		8m	10.5/20
		15			↑	90s	
		16			↓	90s	
		17	G71-33	01:42:38 03:15:48		10m	10.6/50
		18			↑	90s	
		19			↓	90s	
		20	G4-37	02:41:55 08:16:18		15m	11.4/50
		21			↓	90s	
		22	G4-37	" "		12m	"
		23			↑	90s	
		24			↓	90s	
		25	G37-26	03:05:28 26:09:06		4m	8.1/50
		26			↑	90s	
		27			↓	90s	
		28	H26162	04:06:14.9 19:28:43		5m	TAV STD
		29			↑	90s	
		30			↓	90s	
		31	SKY			5m	
		32			↑	90s	

9/20

Intensified Reticon

TO CAM

Spectrograph ECHELLE

Log Sheet

RAW RET 8

Grating 300L

Observer R. Davis

Telescope Wyeth

Date 19-20 SEP 85

Disk ORD 741

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1				120 m	
		2				105 MIN	
20/ →		3			↓	90 ^s	S187A 80 μ SLIT
		4				5 MIN	
		5			↑	90 ^s	
		6			↓	90 ^s	
		7	H182572	19:22:35 11:50:09		2 ^m	IAU Std Star
		8			↑	90 ^s	
		9			↓	90 ^s	
		10	S122652	17:39:27 +4:23:24		2 ^m	Halo Binaries ↓
		11			↑	90 ^s	
		12			↓	90 ^s	
		13	G170-47	17:30:38 23:46:18		5 ^m	
		14			↑	90 ^s	
		15			↓	90 ^s	
		16	G170-56	17:36:05 18:35:15		2 ^m 20 ^s	
		17			↑	90 ^s	
		18			↓	90 ^s	
		19	S141740	17:31:52 -1:07:12		19 ^m	
		20			↑↓	90 ^s	
		21	G20-8	17:37:16 2:26:30		12 ^{1/2} m	
		22			↑	90 ^s	
		23			↓	90 ^s	
		24	S160955	17:55:51 -13:05:01		3 ^m	
		25			↑	90 ^s	
		26			↓	90 ^s	
		27	G141-19	18:30:59 13:07:18		6 ^{1/2} m	
		28			↑	90 ^s	
		29			↓	90 ^s	
		30	G206-34	18:33:18 28:40:00		17 ^m	
		31			↑	90 ^s	
		32	G206-34	" "		18 ^m	

9/20

Intensified Reticon

TO CAM

Spectrograph ECHELLE

Log Sheet

RAWRET 8

Grating 300L

Observer R. Davis

Telescope 61" Wyeth

Date 9/20-21/85

Disk ORO 742

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

Change....	File	ID	RA	1950.0	Dec	L/R	+/+	Exposure	Comments
						↑		90 ^s	
						↓		90 ^s	
								11 ^m	
						↔		90 ^s	
								8 ^m	
						↑		90 ^s	
						↓		90 ^s	
								20 ^m	
						↑		90 ^s	
						↓		90 ^s	Time Out for FAF
								2 ^m	
						↑		90 ^s	
						↓		90 ^s	
								8 ^m	
						↑		90 ^s	
						↓		90 ^s	
								2 ^{1/2} ^m	
						↑		90 ^s	
						↓		90 ^s	
								2 ^m	
						↑		90 ^s	
						↓		90 ^s	
								8 ^{1/2} ^m	
						↑		90 ^s	
						↓		90 ^s	
								2 ^m	
						↑		90 ^s	
						↓		90 ^s	
								2 ^m	
						↑		90 ^s	
						↓		90 ^s	
								2 ^m 10 ^s	N.E., fainter of pair

9/20

Intensified Reticon

TO CAM

Spectrograph ECHELLE

Log Sheet

RAWRET 8

Grating 300L

Observer R. Davis

Telescope 61" Wyeth

Date 9/20-21/85

Disk ORO 743

Change.... File ID RA Dec L/R Exposure Comments Italo Biazarier

1950.0
↑/↓

1	ThAr			↑↓	90 ^s	
2	G95-57A	03:43:37	41:17:25		2 ^m	Southwest, brighter of pair
3	ThAr			↑	90 ^s	
4	ThAr			↓	90 ^s	
5	-22395	02:19:39	-21:44:36		10 ^m	
6	ThAr			↑	90 ^s	
7	ThAr			↓	90 ^s	
8	G4-37	02:41:55	08:16:18		20 ^m	
9	ThAr			↑↓	90 ^s	
10	G4-37	"	"		20 ^m	
11	ThAr			↑	90 ^s	
12	ThAr			↓	90 ^s	
13	G7-20	04:02:47	10:54:54		7 ^m 20 ^s	
14	ThAr			↑	90 ^s	
15	ThAr			↓	90 ^s	
16	G84-9	04:42:45	03:52:54		15 ^m	
17	ThAr			↑	90 ^s	
18	ThAr			↓	90 ^s	
19	G6-22	03:34:57	19:39:48		6 ^m	
20	ThAr			↑	90 ^s	
21	ThAr			↓	90 ^s	
22	G99-40	05:50:25	-3:30:00		2 ^m	
23	ThAr			↑	90 ^s	
24	ThAr			↓	90 ^s	
25	G243-63	01:06:30	61:16:48		2 ¹ / ₂ ^m	
26	ThAr			↑	90 ^s	
27	ThAr			↓	90 ^s	
28	G172-49	01:17:59	51:43:24		2 ^m	
29	ThAr			↑↓	90 ^s	
30	G172-46	01:13:37	51:35:48		9 ¹ / ₂ ^m	
31	ThAr			↑	90 ^s	
32						

9/28

Intensified Reticon

TO CAM

Spectrograph ECHELLE

Log Sheet

RAW RET

Grating 300L

Observer D. Latham & T. Mozeh

Telescope Wyeth

Date 9/28/29/85

Disk ORO 746

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

Change....	File	ID	1950.0 RA	Dec	L/R	Exposure	Comments
					↑/↓		
		1			↓	90s	
		2	S128427	23:49:24	02:39:09		3m
		3			↓	90s	
		4	S128397	23:46:37.9	02:07:37		12m
		5			↓	90s	
		6	S128427	23:49:24	02:39:09		3m
		7			↓	90s	move during this
		8	S128329	23:38:44.5	02:11:26		3m
		9			↓	90s	
		10	S128397	23:46:37.9	02:07:37		7m
		11			↓	90s	
		12	S128329	23:38:44.5	02:11:26		4m
		13			↑	90s	
		14	S036250	00:15:41.2	44:16:51		3m
		15			↓	90s	
		16			↓	90s	
		17	S036248	00:15:40.5	43:44:37		5m
		18			↓	90s	
		19	S036250	00:15:41.2	44:16:52		4m
		20			↓	90s	
		21	S036242	00:15:14.3	44:18:00		3m
		22			↓	90s	
		23	S036248	00:15:40.5	43:44:37		5m
		24			↓	90s	
		25	S036242	00:15:14.3	44:18:00		3m
		26			↓	90s	
		27	S36248B	00:15:42.5	43:44:54		12m faint comp IVE ~ 35"
		28			↓	90s	
		29	S036242	00:15:14.3	44:18:01		3m
		30			↓	90s	
		31	S36248C	00:15:46.5	43:44:25		8m approx joint
		32			↑	90s	

9/28

Intensified Reticon

TO CAM

Spectrograph ECHELLE

Log Sheet

RAW RET

Grating 300L

Observer D. Latham

Telescope Wyeth

Date 9/28-29/85

Disk ORO 747

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

1		T _h -A _v			↓	90s	
2	G210-46		20:58:01	40:03:42		3m	Halo again
3		T _h -A _v			↑	90s	
4		T _h -A _v			↓	90s	
5	G126-62		22:09:06	17:51:12		15m	
6		T _h -A _v			↑	90s	
7		T _h -A _v			↓	90s	
8	G127-33		22:25:40	24:41:00		5m	
9		T _h -A _v			↑	90s	
10		T _h -A _v			↓	90s	
11	G68-31		23:33:33	18:09:48		3m	
12		T _h -A _v			↑	90s	
13		T _h -A _v			↓	90s	
14	G30-24		23:48:07	17:04:54		5m	
15		T _h -A _v			↑	90s	
16		T _h -A _v			↓	90s	
17	G129-42		23:52:30	20:06:24		3m	
18		T _h -A _v			↑	90s	
19		T _h -A _v			↓	90s	
20	G130-32		23:57:31	33:54:42		3m	
21		T _h -A _v			↑	90s	
22		T _h -A _v			↓	90s	
23	G69-1		00:29:55	27:55:18		3m	
24		T _h -A _v			↑	90s	
25		T _h -A _v			↓	90s	
26	G30-52		00:09:55	14:17:18		3m	
27		T _h -A _v			↑	90s	
28		T _h -A _v			↓	90s	
29	H8779		01:23:53	-00:39:29		3m	IAV STD
30		T _h -A _v			↑	90s	
31							
32							

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Intensified Reticon

TO CAM

Spectrograph ECHELLE

Log Sheet

RAWRET 8

Grating 300L

Observer D. Latham

Telescope Wye M

Date 9/28-29/85

Disk OR0748

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

Change....	File	ID	1950.0 RA	Dec	L/R	Exposure	Comments
		1			↓	90s	
	G71-3		01:20:17	00:27:12		15m	Halo
		3			↑	90s	
		4			↓	90s	
	S75179		02:07:29.5	29:34:29		3m	
		6			↑	90s	
		7			↓	90s	
	G72-60		02:05:38	31:09:24		5m	
		9			↑	90s	
		10			↓	90s	
	G172-58		00:22:26	47:46:12		3m	171-58
		12			↑	90s	
		13			↓	90s	
	G172-61		01:31:18	48:29:06		8m	
		15			↑	90s	
		16			↓	90s	
	S38029		02:23:36	44:44:20		13m	
		18			↑	90s	
		19			↓	90s	Mozeh low-mass companion search
	S132259		05:31:08	-03:29:48		3m	
		21			↑↓	90s	
	S132211		05:28:57.2	-03:42:20		4m	
		23			↑↓	90s	
	S132259		05:31:08	-03:29:48		3m	
		25			↑↓	90s	
	S132170		05:26:54	-03:29:05		2m	S132170
		27			↑↓	90s	
	S132211		05:28:57.2	-03:42:20		4m	
		29			↑	90s	
	S132170		05:26:54	-03:29:05		2m	
		31			↑	90s	
		32					

7/29

TO CAM

Intensified Reticon

Spectrograph ECHELLE

Log Sheet

RAWRET 8

Grating 300L

Observer R.J. Davis

Telescope 61" Wyeth

Date 9/29-30/1985

Disk ORO 751

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

Change....	File	ID	1950.0	RA	Dec	L/R	Exposure	Comments
						↑/↓		
		1				↓	90 ^s	
		2		G186-26	20:22:37	24:53:30		17 ^m
		3		ThAr			↑	90 ^s
		4		ThAr			↓	90 ^s
		5		G125-64	20:07:20	42:42:48		7 ^m
		6		ThAr			↑	90 ^s
		7		ThAr			↓	90 ^s
		8		G210-33	20:43:33	40:12:30		10 ^m
		9		ThAr			↑	90 ^s
		10		ThAr			↓	90 ^s
		11		G208-29	19:30:32	48:28:54		4½ ^m
		12		ThAr			↑	90 ^s
		13		ThAr			↓	90 ^s
		14		G25-15	21:01:37	02:48:00		2 ^m
		15		ThAr			↑	90 ^s
		16		ThAr			↓	90 ^s
		17		S127141	21:51:28	6:37:42		2 ^m
		18		ThAr			↑	90 ^s
		19		ThAr			↓	90 ^s
		20		G26-38	21:56:12	00:34:18		2 ^m
		21		ThAr			↑	90 ^s
		22		ThAr			↓	90 ^s
		23		G18-28	22:03:14	12:08:18		2 ^m
		24		ThAr			↑	90 ^s
		25		ThAr			↓	90 ^s
		26		G18-55	22:30:20	10:09:00		2 ^m
		27		ThAr			↑	90 ^s
		28		ThAr			↓	90 ^s
		29		G67-38	22:58:49	11:55:36		2 ^m
		30		ThAr			↑	90 ^s
		31						
		32						

9/29

Intensified Reticon

TO CAM

Spectrograph ECHELLE

Log Sheet

RAWRET *J*

Grating 300L

Observer R. J. Davis

Telescope 61" Wyeth

Date 9/29-30/85

Disk ORO 752

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

Change....	File	ID	1950.0	RA	Dec	L/R	Exposure	Comments
						↑/↓		
		1				↓	90 ^s	
		2		G157-21	23:06:29	-2:49:18		2 ^m
		3		THAr		↕	90 ^s	
		4		G28-43	23:07:00	00:27:18		2 ^m
		5		THAr		↑	90 ^s	
		6		THAr		↓	90 ^s	
		7		S165532	23:07:48	-13:34:54		6 ^m
		8		THAr		↕	90 ^s	
		9		S165604	23:14:30	-14:06:28		2 ^m
		10		THAr		↑	90 ^s	
		11		THAr		↓	90 ^s	
		12		G30-52	00:09:55	14:17:18		2 ^m
		13		THAr		↑	90 ^s	
		14		THAr	00:23:18		↓	90 ^s
		15		H3008	00:30:42	-11:00:00		2 ^m
		16		THAr		↑	90 ^s	
		17		THAr		↓	90 ^s	
		18		G31-41	00:15:20	00:06:00		2 ^m
		19		THAr		↕	90 ^s	
		20		G31-46	00:20:43	-00:06:00		2 ^m
		21		THAr		↑	90 ^s	
		22		THAr		↓	90 ^s	
		23		G70-4	00:40:51	-1:10:00		2 ^m
		24		THAr		↑	90 ^s	
		25		THAr		↓	90 ^s	
		26		G270-62	00:43:35	-5:54:54		2 ^m
		27		THAr		↑	90 ^s	
		28		THAr		↓	90 ^s	
		29		G70-35	01:01:54	-2:38:00		2 ^m
		30		THAr		↑	90 ^s	
		31						
		32						

9/29

TO CAM

Intensified Reticon

Spectrograph ECHELLE

Log Sheet

RAW RET 8
R. J. DAVIS

Grating 300L

Observer R. J. DAVIS

Telescope 61" Wye th

Date 9/29-30/85

Disk ORO 753

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

Change....	File	ID	1950.0	RA	Dec	L/R	Exposure	Comments
						+/-		
						↓	90 ^s	
1		ThAr				↓	90 ^s	
2	S147600	01:02:56		-13:10:18			2 ^m	
3		ThAr				↑	90 ^s	
4		ThAr				↓	90 ^s	
5	270-148	01:05:17		-8:30:00			2-1/2 ^m	
6		ThAr				↑↓	90 ^s	
7	270-178	01:11:58		-5:18:42			2 ^m	
8		ThAr				↑↓	90 ^s	
9	270-174	01:10:46		-2:07:42			2 ^m	
10		ThAr				↑	90 ^s	
11		ThAr				↓	90 ^s	
12	G271-34	01:16:30		-9:11:54			2 ^m	
13		ThAr				↑↓	90 ^s	
14	G271-70	01:25:54		-8:39:12			2 ^m	
15		ThAr				↑	90 ^s	
16		ThAr				↓	90 ^s	
17	G71-27	01:39:22		01:39:00			2 ^m	
18		ThAr				↑	90 ^s	
19		ThAr				↓	90 ^s	
20	G34-36	01:30:13		23:26:30			2 1/2 ^m	
21		ThAr				↑	90 ^s	
22		ThAr				↓	90 ^s	
23	G132-73	01:18:12		37:46:18			2 ^m	
24		ThAr				↑	90 ^s	
25		ThAr				↓	90 ^s	
26	271-154	01:45:08		-3:29:18			2 ^m	
27		ThAr				↑↓	90 ^s	
28	271-161	01:47:57		-6:01:54			2 ^m	
29		ThAr				↑	90 ^s	
30		ThAr				↓	90 ^s	
31	271-161	01:50:34		-1:34:12			2 ^m	
32		ThAr				↑	90 ^s	

9/29

TO CAM

Intensified Reticon

Spectrograph ECHELLE

Log Sheet

RAW RET 8

Grating 300L

Observer R.J. Davis

Telescope 61" Wyeth

Date 9/29-30/85

Disk ORO 754

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

↑/↓

Change....	File	ID	1950.0 RA	Dec	L/R ↑/↓	Exposure	Comments
		1			↓	90 ^s	
		2	G4-10	02:14:17	21:20:12		2 ^m
		3	ThAr		↑↓	90 ^s	
		4	G4-17	02:19:54	18:10:54		2 ^m
		5	ThAr		↑↓	90 ^s	
		6	G73-50	02:20:33	15:11:18		2 ^m
		7	ThAr		↑↓	90 ^s	
		8	G73-51	02:20:35	15:11:18		2 ^m
		9	ThAr		↑↓	90 ^s	
		10	H15061	02:23:16	17:45:48		2 ^m
		11	ThAr		↑↓	90 ^s	
		12	G94-71	02:25:55	17:35:06		2 ^m
		13	ThAr		↑	90 ^s	
		14	ThAr		↓	90 ^s	
		15	G4-23	02:22:52	11:44:54		2 ^m
		16	ThAr		↑	90 ^s	
		17	ThAr		↓	90 ^s	
		18	G73-67	02:31:58	05:14:06		2 ^m
		19	ThAr		↑	90 ^s	
		20	ThAr		↓	90 ^s	
		21	H193904	03:04:49	15:18:42		2 ^m
		22	ThAr		↑↓	90 ^s	
		23	G5-17	03:07:13	15:11:24		2 ^m
		24	ThAr		↑	90 ^s	
		25	ThAr		↓	90 ^s	
		26	S58912	06:12:36	37:44:38		2 ^m
		27	ThAr		↑	90 ^s	
		28	ThAr		↓	90 ^s	
		29	S133165	06:19:35	-5:25:48		4 ^m
		30	ThAr		↑	90 ^s	
		31					
		32					

Intensified Reticon

TO CAM

Spectrograph ECHELLE

Log Sheet

RAWRET

Grating 300L

Observer R.J. Davis

Telescope 61" Wyeth

Date 9/29-30/85

Disk ORO 755

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

Change....	File	ID	1950.0	RA	Dec	L/R	+/+	Exposure	Comments
		ThAr				↓		90 ^s	
	538029	02:23:36	44:44:20					9 ¹ / ₂ " ^m	
		ThAr				↑		90 ^s	
		ThAr				↓		90 ^s	
	G90-25	07:50:22	30:45:40					2" ^m	
		ThAr				↑		90 ^s	
		ThAr				↓		90 ^s	IAU std star
	H26162	04:06:15	19:28:43					2" ^m	
		ThAr				↑		90 ^s	
		Incm ds						120" ^m	
		INCAND						71" ^m	
OCT 5/6		Th-Ar				↓		90 ^s	5187A SPLIT
	H213014	22 25 46	17 06 28					5m	cloudy IAU standard
		Th-Ar				↑		90s	8" seeing
		Th-Ar				↓		90s	
	G188-22	21 41 43	27 19 42					16m	10.1/30 Th-Ar persistence on the Right
		Th-Ar				↑		90s	
		Th-Ar				↓		90s	
	G68-29	23 32 31	25 07 30					7m	10.9/15
		Th-Ar				↑		90s	
		Th-Ar				↓		90s	
	G128-43	23 14 41	31 27 18					8m	11.3/15
		Th-Ar				↑		90s	
		Th-Ar				↓		90s	
	G28-48	23 10 27	01 31 54			↑		8m	11.1/15
		Th-Ar				↑		90s	
		Th-Ar				↓		90s	
	G171-7	23 35 30	45 55 24					2m	6.5/15
		Th-Ar				↑		90s	
	Th-Ar					↓		90s	(Left/Right) = 1/10 on sky
	CRAP	-dark sky						10m	Emission (noise?) on right
									- Mac says hardware problem.