



VnK and Kiss setup

The ONLY Echelle work in This Book

Oct 9 To Oct 16 1997

300 ln /mm X grating

Echelle Tilt 19.45

Xg tilt = 15835

for 6300Å center.

noted June 2000 T_n

Spectr. Temp. Dome Temp./Hum. Transparency Conditions

Focus

Spectr. Temp. Dome Temp./Hum.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality

DAVID DUNLAP OBSERVATORY
 74" LOGBOOK
 VOL. 88
 PLATE Nos CC 48489 - CC 50685
 SEPT 1997 - DEC 1997

FR #1

5

Date 1997 Sept 12/13

Observers Vnk/Ksz/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CL4848/90	Inboard/outboard							EAR ND#3	4/7
91	BIAS(4)			23 40					
92	comp							"	4
93	13D+39 4379	20 57 21	40 10 39	23 49 35					1800
94	comp							"	4
95	comp							"	4
96	HD 187921	19 47 24	27 12 00	00 25 25					600
97	comp							"	4
98	comp							"	4
99	HD 2223 68	23 34 48	05 05 03	00 42 49					154
CL48500	comp							"	4
01	BIAS(4)			00 51					
02/08	flats							Tung ND#5	4

CCD
Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Nr. Se

514 4

2350

540

7 PG #1

Sun/Mon

Date 1997 Sept 14/15

Observers Vnk/Ksz/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48509/10	Inboard/outboard							4/2 FeAr ND #2?	
11	BIAS(4)			19 37					
12	comp							FeAr ND #3	4
13	HD 171232	18:28:30	25:25:00	19 45 55					405
14	comp							"	4
15	comp	21 25 50	66 22 22					"	4
16	HD 204770	21 25 50	66 22 22	20 07 30					354
17	comp							"	4
18	BIAS(4)			20 37					
19	comp							"	4
20	HD 197433	20 38 56	75 14 00	20 40 42					600
21	"	"	"	20 51 09					600
22	"	"	"	21 01 35					600
23	comp							"	4
24	HD 197433	"	"	21 14 23					600
25	"	"	"	21 24 26					670

CCD
Spectr. Temp
Focus.....
Spectr. Temp

Exp. Mtr. S

2060 1.

10K

2412 2

2885

2330

2970

2800

CCD Spectr. Temp. -100.6°C

Dome Temp./Hum. $18.7^{\circ}\text{C}/62.2\%$

Transparency Conditions ... fine with some clouds in low sky

Focus 6.72

Spectr. Temp.

Dome Temp./Hum.

400 0 50 1024 4 1 CCD/FMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
FAV	ND#3					CASS CCD	1800 $\frac{1}{\text{mm}}$ 56,35	306 μ	6600	3/4			
										1			
	4									6			
	405	2060	1"-2"	7.7	G8					7	Vel std		
	4									8			
	4									8			
	354	10K		5.4	B7					9	\uparrow		
	4									10	Telluric std		
										11			
	4									11			
	600	2412	2"	7.5	K0					12	Vnk CB		
	600	2285								13			
	600	2330								14			
	4									15			
	601	2530								16			
	670	2800								17			

9 PG # 2

Date 1997 Sept 14/15

Observers Vnk/Ksz/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.	Exp. Mtr.	Se
CC48526	HD197433	20 38 36	75 14 00	21 36 26					600	2900	
27	comp							FeAr ND#3	4		
28	BIAS(4)			21 47 43					0		
29	HD197433	"	"	21 49 08					600	3240	
30	"	"	"	21 59 31					600	3510	
31	"	"	"	22 09 59					600	3500	
32	comp							"	4		
33	HD197433	"	"	22 21 46					600	3515	
34	"	"	"	22 32 09					600	3820	
35	"	"	"	22 42 36					600	3600	
36	comp			22 53				"	4		
37	BIAS(4)			22 53					0		
38	HD197433	"	"	22 55 05					600	3800	
39	"	"	"	23 05 44					600	3850	
40	"	"	"	23 16 22					600	3900	
41	comp							"	4		

CCD

Spectr. Temp.

Focus.....

Spectr. Temp.

CCD
 Spectr. Temp. -100.6°C Dome Temp./Hum. $17.6^{\circ}\text{C}/69.5\%$ Transparency Conditions *slightly haze* 10
 Focus 6.72
 Spectr. Temp. Dome Temp./Hum.

Companion Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
600		2900	1"	7.5	KO	CASS CCD	1800/1mm 56.35	3064	6600	18	Vnk CB		
4										19			
0										1			
600		3240		"	"					20			
600		3510		"	"					21			
600		3500		"	"					22			
4										23			
600		3515		"	"					24			
600		3820		"	"					25			
600		3600		"	"					26			
4										27			
0										1			
600		3800		"	"					28			
600		3850		"	"					29			
600		3900		"	"					30			
4										6			

Pg 3

Sun/Mon

11
Date 1997 Sept 14/15

Observers

Vnk/Ksz/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC48542	HD 197433	20 38 36	75 14 00	23 28 08					600
43	"	"	"	23 38 33					600
44	"	"	"	23 48 58					600
45	comp							FeAr ND#3	
46	BIAS(4)			00 00					0
47	HD 197433	"	"	00 01 24					600
48	"	"	"	00 12 01					608
49	"	"	"	00 22 42					600
50	comp	"	"					FeAr ND#3	4s
51	HD 197433	"	"	00 34 59					600
52	"	"	"	00 45 28					600
53	"	"	"	00 56 04					600
54	comp							"	4
55	BIAS(4)			01 07					0
56	HD 197433	"	"	01 09 32					600
57	"			01 20 02					600

CCD

Spectr. Temp

Focus.....

Spectr. Temp

Exp. Mir.

S

3050

2780

2480

2490

2480

2450

2600

1525

2630

2200

2140

CCD Spectr. Temp. -100.6°C Dome Temp./Hum. $17.2^{\circ}\text{C}/71.8\%$ Transparency Conditions *fine* 12
 Focus 6.72
 Spectr. Temp. Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
600		3056		7.5	K0	CASS CCD	1800/mm 56.35	306 μ	6600	7	Vnk CB		
600		2780		"	"					8			
600		2480		"	"					9			
0										10			
0										1			
600		2490		"	"					11			
608		2480		"	"					12			
600		2450		"	"					13			
4s										14			
600		2600		"	"					15			
600		2525		"	"					16			
600		2630		"	"					17			
4										18			
0										1			
600		2200		"	"					19			
600		2140								20			

PG #4

13

Date 1997 Sept 14/15

Observers

Vnk/Ks3/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48558	HD197433	20 38 36	75 14 00	01 30 35					600
59	comp							F20R NO #3	4s
60	HD197433	"	"	01 42 13					600
61	"	"	"	01 52 35					600
62	"	"	"	02 03 01					600
63	comp							"	4
64	BIAS(4)			02 14					
65	HD197433	"	"	02 15 49					600
66	"	"	"	02 26 11					600
67	"	"	"	02 36 33					600
68	comp							"	4
69	HD197433	"	"	02 48 26					600
70	"	"	"	02 58 49					600
71	"	"	"	03 14 34					600
72	comp							"	4
73	BIAS(4)			03 25					0

CCD
Spectr. Temp
Focus.....
Spectr. Temp

Exp. Nr.

2140

2500

2460

2265

2170

2180

2200

2029

2010

1760

CCD
Spectr. Temp. -100.6°C

Dome Temp./Hum. $15.5^{\circ}\text{C}/78.8\%$

Transparency Conditions \dots fine \dots 14

Focus \dots 6.72

Spectr. Temp. \dots

Dome Temp./Hum. \dots

\rightarrow getting +99%

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
600		2140	3"	7.5	K0	CASS CCD	1800/mm 56,35	306 μ	6600	21	Vik CB		
3	4s									22			
600		2500		"	"					23			
600		2460		"	"					24			
600		2265		"	"					25			
4										26			
										1			
600		2120		"	"					27			
600		2180		"	"					28			
600		2200		"	"					29			
4										30			
600		2020		"	"					7			
600		2010		"	"					8			
600		1760		"	"					9			
4										10			
0										1			

PG #5

15 Date 1997 Sept 14/15

Observers Vnk/Ksz/Lu

Emulsion Batches:

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CCO
 Spectr. Temp
 Focus.....
 Spectr. Temp

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48574	HD 197433	20 38 36	75 14 00	03 26 56					600
75	comp							F2Ar ND#3	4
76	comp							"	4
77	HD 214975	22 36 54	56 19 00	03 48 01					1200
78	comp							"	4
79	HD comp							"	4
80	HD 236429	00 24 24	59 40 00	04 15 05					1800
81	comp								
	BIAS(4)								
	flats	problem with cup temp. did not do flats						Tung ND#5	4
	flats	after topping up							
82/88	flats							Tung ND#5	4
89	BIAS(4)								

Exp. Mtr.

1530

1645

1800

Slit

^{CCD}
 Spectr. Temp. ~~7.5~~ ⁶ °C / 40 Dome Temp./Hum. 14.9 °C / 79.6% Transparency Conditions *Increasing haze* 16
 Focus 6.72
 Spectr. Temp. Dome Temp./Hum.

Comparison Filter Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
600	1530				CAS CCD	1800/mm 56.35	306 μ	6600	11	Vnk CB		
3									12			
4									12			
1200	1645		8	F6					13	Vnk Cep		
4									14			
4			10						14			
1800	1800		10	F7					15	Vnk Cep	clouds passed	
									16		something strange	
4									4			
4									5			
4									5			
									1			

Slit reinstalled, temperature reset to -100.6°C

17 pg#1

Mon/Tues

Emulsion Batches:

Date ... 1997 Sept 15/16 Observers [Rm]/Tn/... 44....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC485991	Inboard / outboard							FeAr ND4	4/6
92	BINS(4)			19 32					
93	Comp							FeAr ND4	45
94	HD 187691	19 4614	+10 0955	19 4030					149
95	Comp							"	45
96	Comp							"	45
97	HD 203156	21 1523	+27 4856	19 5037					1133
98	comp							"	4
99	comp							"	4
CC48600	HD 180583	19 11 59	27 44 59	20 16 31					340
01	comp							"	4
02	Comp							"	4
03	HD 173297	18 32 24	-20 45 00	20 26 38					1025
04	Comp							"	4
05	BINS(A)			20 45					

CCD
Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.

1200

110 f/11.2

2400

6000

3500

880

CCD Spectr. Temp. -99.7 °C Dome Temp./Hum. +20.4°C 65.1% H Transparency Conditions PART CLEAR 18

Focus 6:70

Spectr. Temp. Dome Temp./Hum. +19.7°C 58.3% H

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4/6		1000 V no filter				CAS CCD By Hand	1800h 55.0°	306	6396A	1/4	focus test		
									± 2 Å At Row 512	1			
45										5			9K
149		24000	3"	5.11	F8V					6	std vel		4K
45										7			
45										8			
1133		6000		5.8 -5.9	F2					9	Rm pgm	HR 8157 cloudy	63K
4										10			
4										10			
340		3500		6.19	F6I-II ₆					11	Rm pgm		
4										12			
4										12			
1075		880	4"	7.48	G0I ₆					13	Rm pgm	part cloudy	
A										14			
										1			

19 Pg#2 Mon/Tues

Date 1997 Sept 15/16... Observers [R.m.]/Tr./L.u.....

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48606	Comp							FEAR ND4	4
07	HD 222368	23 3448	+05 05 03	20 50 44					628
08	Comp							n	4
09/17	FLATS x 9							TUNG ND5	5
18	Comp							Fedr ND4	4
19	HD 177724	19 00 49	+13 42 53	21 15 49					336
20	Comp							n	4
21	BHS(4)			21 23					0
22	Comp							n	4
23	HD 30282	09 41 06	+36 32 00	22 23 55		06 22 E			2219
24	Comp							n	4
25	Comp							n	4
26	HD 331970	20 08 27	+32 34 16	23 28 39					2400
27	Comp							n	4
28	BHS(4)			00 10					0

Spectr. Temp.
 Focus
 Spectr. Temp.
 Exp. Mtr.
 Seein.
 23K 4
 64K
 31K 6
 1744

Spectr. Temp. -99.9°C Dome Temp./Hum. $+19.4^{\circ}\text{C}$ 58% RH Transparency Conditions *cloudy* 20

Focus 6.70

Spectr. Temp. Dome Temp./Hum. 22 400 0 50 102441 CCD *FaintMAX*

Comparison Filter Exp.	Exp. Mtr.	Seeing	Pg Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4					CASS CCD	1800/n 55.0°	306u	6396A	14			in MAX HDU
638	23K	4"	4.13	F7V					15	std dev/	Dist. ~15° away	1.4K
4									16			
5									2			
4									16			
326	60K		2.99	H0.5n					17	Telluric Std	in cloud	6.3K
15									18			
0									1			
4									18			
219	31K	6"	^B 7.9-8.8	F8-G1					19	HWP Per for Rm	Lower Finder in the trees at star	3.5K
4									20			8K
4									20			
2400	1744		^V 9.1-9.8	F8-G2 Ib					22	Rm/Sugars' pgm	MW Cyg	
4									23			
0									1			

2/PG #3

Date 1997 Sept 15/16

Observers [Rm]/Tn/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp
cc48629	comp							F ₂ A _r ND #3	4
30	HD 214975	22 36 54	56 19 00	00 16 53					1200
31	comp							"	4
32	Comp							"	↑
33	HD 215159	22 38 15	+53 23 06	00 39 43					241
3A	Comp							"	4
cc48635	Comp							F ₂ A _r ND 3	4 1250
36	CV Cyg	²⁰⁰⁰ 19 54 22	+38 02 30	00 51 12					1200
37	Comp							"	4
38	B/H/S (A)			01 15					0
39	Comp							"	4
40	HD 236429	¹⁹⁰⁰ 00 24 24	59 40 00	01 23 22					1872
41	Comp							"	4
42	Comp							"	4
43	HD 209833	¹⁹⁰⁰ 22 01 03	+28 28 41	02 01 17					1877
44	Comp							"	4

CCD

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr. Se

:580

39K 4

315

23K 3

2K

CCD Spectr. Temp. -99.9°C Dome Temp./Hum. $17.2^{\circ}\text{C}/58.3\%$ Transparency Conditions *clearing partly 22*

Focus

Spectr. Temp. Dome Temp./Hum. 400 0 50 1024 41 CO/FW/T 1 MAX/ADU

Comparison Filter	Exp	Exp. Mtr.	Seeing	Plg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Ar #3	4					CASS CCD	1800/mm 55.0	306 μ	6396	23			
	1200	2580		8.4	G0I _b					24	Rm prog	ZLGC	
	4									25			
	4									25			
	4	3.9K	4"	6.9	K2					26	Rm std for	Z Lec	
	4												
Ar #3	4					Tgrating	1800ln 56.35	306 μ	6600	27			
	1200	315		~11	F8					28	Vnk pgm	cloudy	
	4									29			
	0									1			
	4									5			
	4	2.3K	3"	10?	F7					6	Vnk pgm		26K
	4				Brighter					7			
	4									7			
	4	8K		5.63	B9I _n					8	telluric std		5.2K
	4									9			

23 Pg#4 Mon/Tues

Date (1997) Sept. 15/16 Observers [Vnk] / Lu. / In...: C. [Rm]

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48645	comp							FeAr ND#3	4
46	HD222368	23 34 48	05 05 03	02 15 04					89
47	Comp							"	4
48	BIAS(4)			02 18					0
49/55	FLATS x 7							TUNG ND#5	4
CC48656	Comp							FeAr ND3	45
57	HD 44990	06 19 49	+07 08 25	02 44 21					480
58	Comp							"	45
59	Comp							"	45
60	HD 203156	21 15 23	+37 48 55	02 59 31					970
61	Comp							"	4
62	BIAS(4)			03 17					0
63	comp							"	4
64	HD 25361	03 56 42	58 23 00	03 23 48					496
65	Comp							"	4
66/70	FLATS x 5							TUNG ND5	55

Spectr. Temp

Focus... 6i

Spectr. Temp

Exp. Nr. S

65K

49K 46

53K 5

330

Spectr. Temp. -99.9°CDome Temp./Hum. $+15.8^{\circ}\text{C}$ 64.8%RHTransparency Conditions *Clearing*.....*2K*Focus 6.70Dome Temp./Hum. $+15.5^{\circ}\text{C}$ 69.7%RH*Then really cloudy*

Spectr. Temp.

Exp. Mtr.	Seeing	Pl. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				C45 CCD	1800ln 5635	306	6600A	10			
6.5K		4.13	F7V					11	stdvel		
								12			
								1			
								5			12K
4.9K	4.6"	6.5-8.0	F7Iab-k1Iab	Tgrating	1800ln 54.89	306	6396	14		Back to 6396A ⁸ close to previous setup	
								15	Tmon Run High priority		
								16			
5.3K	5"	5.8-5.9	F2					16	Rmpgr	HR 8157 Repeat	
								17	"	"	
								18			
								1			
230		7.30-8.07	F6I _b -42I _b					19			
								20			
								21			
								2			14K

vs. pg#1

Tues/Wed

Emulsion Batches:

Date ... 1997 sept 16/17 Observers L.Y./T.N.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC4867/72	Inboard / Outboard		HARTMANN					FEAR ND 3	A/7
73	BIAS(4)			19 15					0
74	Comp							"	4
75	HD 172187	18 33 42	+43 08 12	19 17 24					274
76	Comp							"	4
77	Comp							"	4
78	HD 187691	19 46 14	+10 09 55	19 28 06					134
79	Comp							"	4
80	Comp							"	4
81	RZ Dra	18 23 06	+58 54 18	19 38 49					1201
82	"	"	"	19 59 17					1200
83	comp							"	4
84	BIAS(4)			20 21					0
85	RZ Dra	"	"	22 22 13					1200
86	"	"	"	22 42 46					1201
87	Comp							"	4

CCD
Spectr. Temp.

Focus ... 6.3

Spectr. Temp.

Exp. Mtr.

No. Filter

32K 3

344

394

427

476 2-

485

CCD Spectr. Temp. -101.0°C * Temperature adjustment not too stable. Dome Temp./Hum. $+18.0^{\circ}\text{C}$ 63.8% H Transparency Conditions Fine 26

Focus 6.70

Spectr. Temp. Dome Temp./Hum. $+17.0^{\circ}\text{C}$ 71.9% H

400 050 1024 41 CCD/FMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Pr. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emission	P.H.	Program	Remarks	Quality
3	A7	1000V no filter				CASS CCD Tgrating	1800m 47.06	306m	5184A	3/4	focus test		2 MAX 400
0										7			
4										5			
7A		3.2K	3"	B 5.26	F0V					6	Blu pgn	also encoder motion star.	26K 34K
A										7			
A										7			
19A		3.4K		5.11	F8V					8	std vel		2K
A										9			
A										9			
120		394		10	A5					10	CB		
1200		427		"	"					11			
4										12			
0										1			
1200		436	2"-3"	"	"					13			
1200		465	"	"	"					14			
A										15			

27 p9 #2

Tuos/wal

Emulsion Batches:

Date 1997. Sept. 16/17... Observers .. Lu./Tu.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48688	RZ Dra	18 23 06	58 54 18	21 09 47					1200
89	"	"	"	21 25 22					1200
90	Comp						FeAr ND3	45	
91	BIAS(4)			21 47				0	
92	RZ Dra	"	"	21 48 16					1211
93	"	"	"	22 08 49					1282
94	comp						"	4	
95	RZ Dra	"	"	22 32 00					735
96	Comp						"	4	
97	Comp						"	4	
98	HD 214946	22 36 42	44 29 00	22 51 42					800
99	comp						"	4	
CG8115/18	HD 214946	"	"					4x	67m
19/22	DARKS							4x	67m
23/24	"							2x	133
25/26	HD 214946						"	"	"

CCD
Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.

485

471

431

446

270

931

29 193

Emulsion Batches:

Date ... 1997. Sept. 16/17. ... Observers ... L.J. ...

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48700	Comp							KeAr ND3	4
01	HD 272 368	23 3448	+05 05 03	23 18 44					291
02	comp							"	43
03	BIAS(4)			23 25					0
04/10	flats							Tung ND #4	4
11	comp							FeAr ND 3	4
12	SV Equ	20 57 19	²⁰⁰⁰ 05 48 52	00 35 02					1421
13	Comp							"	f
14	BIAS(4)			01 00					0
15	Comp							"	4
16	CN And	00 20 30	²⁰⁰⁰ +10 13 36	01 10 40					1200
17	"	"	"	01 31 23					1201
18	comp							"	4
19	CN And	"	"	01 53 16					687
20	comp							"	4
21	BIAS(4)			02 06					0

CCO
Spectr. Temp
Focus ... 6
Spectr. Temp

Exp. Mtr. S

900 3

648 3

610

360

CCD Spectr. Temp. -101.0°C

Dome Temp./Hum. $+16.3^{\circ}\text{C}$ 81.2%RH

Transparency Conditions \dots cloudy \rightarrow thin cloud.

Focus \dots 6.70

Spectr. Temp. \dots

Dome Temp./Hum. $+15.2^{\circ}\text{C}$ 83%RH

30

Comparison filter Exp.	Exp. Mtr.	Seeing	Prv Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4					CASS	18006	306	518A	25			
291	2K		4.13	F7V					26	Std vel	in cloud near Full moon	
43									27			
0									1			
4									2			
4									5			
120	900	3.5	9.0	A0					6			
f									7			
0									1			
4									7			
120	648	3.5	10.	F5					8			
120	610		"	"					9			
4									10			
120	360		"	"					11		cloudy.	
A									12			
0									1			

31 page 1

Wed / Thurs

Date 1997.. Sept. 17/18... Observers ... L. U. / T. n.....

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC4872/23	Inboard / out BOARD							FeA ND3	4/7
24	Comp							"	4s
25	HD 172187	18 3342	A3 0812	19 1543					344
26	Comp							"	4s
27	BIAS (4)			19 23					0
28	Comp							"	4s
29	HIP 87541	²⁰⁰⁰ 17 53 04	+77 23 02	19 3336					1226
30	Comp							"	4
31	Comp							"	4
32	HD 191804	¹⁹⁰⁰ 20 06 42	+70 21 00	19 5859					480
33	Comp	For next star only						"	4s
34	HD 191301	20 04 06	-25 55 00	20 16 40					783
35	comp							"	4
36	BIAS (4)			20 31					0
37	Comp							"	4s

CCO
Spectr. Temp
Focus.....
Spectr. Temp

Exp. Mtr. S

820 4

1140

1500

CCO Dial (New Dial) set at 5.1
 Spectr. Temp. -101.5°C^* Dome Temp./Hum. $+18.0^{\circ}\text{C}$ 7487A Transparency Conditions clearing nicely 32
 Focus 6.70
 Spectr. Temp. Dome Temp./Hum. ca 400 0 50 1024 4 1 CCD FMT

Comparison Filter Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4/7					CMS CCD	1800ln 4706	306u	5184A	3/4	Focus Test	unchanged from last night	
4/5									5			
3/4	43K	4.5	^B 626	F0V					6	B _{1/2} SB		
4/5									7			
0									1			
4/5									8			
12/6	820	4.6	^V 94	F2					9		sharp lined	
4									10			
4									10			
480	1190		7.8	F0					11	HIP 99037	broad lined.	
4/5									12			
783	1500		7.2	A9 III					13	HIP 99365	broad lined,	
4									14			
0									1			
4/5									15			

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Wed / Thurs

Emulsion Batches:

Date . 1997. Sep. 1. 7/18 Observers L. u. / T. n.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48738	HIP 92699	1900 18 53 17	2000 +21 13 32	20 37 28					960
39	comp							2A ND3	4
40	comp							"	4
41	SV Equ	2000 20 57 19	+05 48 52	20 59 26					1200
42	Comp							"	4
43	Comp							"	4
44	HD 187438	2000 19 44 48	1900 -08 52 00	21 24 46					900
45	Comp							"	4
46	BIAS(4)			21 41					0
47	comp							"	4
48	HD 197100	20 36 24	60 33 00	21 47 52					800
49	comp							"	4
50	comp							"	4
51	HD 210431	22 05 18	71 53 00	22 08 13					360
52	comp							"	4

CC9

Spectr. Temp

Focus.....

Spectr. Temp

Exp. Mtr.

508

795

900

1500

2760

CCD Spectr. Temp. -101.0°C Dome Temp./Hum. $+16.7^{\circ}\text{C}$ 76.7% H Transparency Conditions *Fine* 34

Focus 6.70

Spectr. Temp. Dome Temp./Hum.

400 0 50 1024 41 CCDFMT

Comparison Iter	Exp.	Exp. Mtr.	Seeing	P _v Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
960		508	4"	9.8	A7	CASSCO	1800lm	306 μ	5184Å	16		moderately broadened,	
1/2										17			
1/2										17			
1200		775	3.4'	9.0	A0					18			
1/2										19			
4										19			
900		900		8.1	A2					20	HIP 97600		
4										21			
0										1			
4										21			
800		1500	4"	8.5	F8					22	HIP 101862	slightly broadened	
4										23			
4										23			
360		2760		7.0	A0					24	HIP 109191	broadened,	
4										25			

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pg #3

Emulsion Batches:

Date 1997 Sept 17/18... Observers Lu/Tn.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48 753	Comp							FEAR NO 3	45
54	EL Agr	23 47 19	-08 05 04	22 23 17					1200
55	"	"	"	22 43 33					1200
56	comp							"	4
57	BIAS(4)			23 05					0
58	EL Agr	"	"	23 07 03					1200
59	comp							"	4
60	comp							"	4
61	HD 222368	23 34 48	05 05 03	23 32 17					70
62	comp							"	4
63	comp							"	4
64	CN And	00 20 30	40 13 36	23 42 05					1000
65	"	"	"	23 59 37					1000
66	comp							"	4
67	BIAS(4)			00 18					0

Spectr. Temp. ...
Focus ... 6.70
Spectr. Temp.

Exp. Mtr. Seeing

400 48

182

358

5K

575

622

Spectr. Temp. Dome Temp./Hum. $+15.5^{\circ}\text{C}$ $82.0\% \text{RH}$ Transparency Conditions ... *Fine* 36.

Focus ... *6.70*

Spectr. Temp. Dome Temp./Hum.

Comparison Filter Exp.	Exp. Mtr.	Seeing	Mag. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4					CAS CCD	1800ln/m 47.06	306 μ	5184A	25			
200	400	4.6	10.35	F					26			
1200	382	"	"	"					27			
4									28			
0									29			
1200	358	"	"	"					29			
4									30			
4									5			
70	5K		4.13	F7V					6	std vel		
4									7			
4									7			
1000	575		10.0	F5					8			
1000	622		"	"					9			
4									10			
0									1			

31

pg#4

Wed/Thurs

Emulsion Batches:

Date 1997 Sept 17/18... Observers Lu/Tn.....

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.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48768	comp							HoAr ND#3	4
69	SV Equ		²⁰⁰⁰ 05 48 52	00 22 14					1200
70	comp							"	4
71	Comp							"	4
72	HD 3765		¹⁹⁰⁰ 39 40 00	00 58 02					363
73	Comp							"	4
74	Comp							"	4
75	HD 693		¹⁹⁰⁰ -16 01 01	01 09 44					204
76	Comp							"	4
77/83	FLATS x7						-16°	TUNG ND4	4
84	Comp							FeAr ND3	4
85	HD 22984		00 05 04	01 25 32					117
86	Comp							"	4
87	Comp							"	4
88	HD 14252		02 13 09	01 32 47					184
89	Comp							"	4

Spectr. Temp.

Focus ... 6.7

Spectr. Temp.

Exp. Nr. See

1806 5

5K

5.5K

6K

Spectr. Temp. -101.3°C Dome Temp./Hum. $+14.7^{\circ}\text{C}$ 81.2% H Transparency Conditions Fine 38..

Focus 6.70

Spectr. Temp. -101.0°C Dome Temp./Hum. $+14.2^{\circ}\text{C}$ 82.0% H

Companson /Filter Exp	Exp. Mtr.	Seeing	P.G. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4r #3 4					CHSS	1800 m 47.06	306	57849	10			
1200 4	687		9.0	A0					11			
4									12			
4									12			
368 4	1800	5"	7.36	dk5					13	std vel	OH, Tared again to get TV guidee for Seary Tests no go.	1.5K
4									14			2K
4									14			
204 4	5K		4.89	FGV					15	std vel		4K
4									16			
4									2			11K
4									17			
117 4	5.5K		4.28	F9 IV-V					18	std vel		4K
4									19			
4									19			
184 4	6K			A2					20	std vel		4.9K
4									21			

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Emulsion Batches:

Date ...1997...Sept. 17/18 Observers ...Lu/Tn.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48790	Comp							FAr NR3	4
91	AA Cet	2000 01 59 00	-22 55 12	01 41 27					915
92	"			01 58 33					600
93	comp							"	4
94	BIAS(4)			02 11					0
95	AA Cet	"	"	02 12 48					760
96	comp							"	4
97	comp							"	4
98	UX Eri	03 09 52	-06 53 24	02 30 31					1050
99	"	"	"	02 49 23					1000
CC48800	comp							"	4
01	Comp							"	4
02	BV Eri	03 51 53	-10 31 53	03 11 15					840
03	"	"	"	03 25 58					840
04	Comp							"	4
05	BIAS(4)			03 44					0

Spectr. Temp.

Focus...6

Spectr. Temp.

Exp. Mtr.

Se

2000

1428

1500

251

6

259

1160

6

170

Spectr. Temp. -100.2°C Dome Temp./Hum. $7.14.3^{\circ}\text{C}$ $80.4\% \text{H}$ Transparency Conditions *Fine* 40

Focus 6.70

Spectr. Temp. -101.4°C 03EST Dome Temp./Hum.

Comp. Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	3	48						306	51849	21			
		2000		6.7	A7 or 8					22		SE and Brighter (slightly)	
		1428			F-G					23		NW	
	4									24			
	0									1			
	760	1500		6.7	A7/A8					25		SE	
	4									26			
	4									26			
	1050	251		5-8"	10.6	F8				27			
	1000	259		"	"					27			
	4									28			
	4									28			
	840	1160		6"	8.6	F2				29			
	840	1170								6			
	4									7			
	0									1			

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Emulsion Batches: : - -

Date 1997 Sept 17/18... Observers L.H. / T.G.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48806	Comp							Red M03	45
07	HD48843	06 40 17	+12 47 52	03 47 12					730
08	Comp							"	45
09	Comp							"	45
10	BV Eri	03 51 53	-10 31 43	04 20 28					900
11	"	"	"	04 35 57					900
12	Comp							"	45
13	BV Eri	"	"	04 52 25					900
14	"	"	"	05 08 16					730
15	Comp							"	4
16	B/H S (4)			05 21					0
17	Comp							Red M03	45
	HD48843								
	Comp								

 CCD
 Spectr. Temp.
 Focus...
 Spectr. Temp.

Exp. Mtr. Se

1470

1440

1430

1556

Spectr. Temp. -101.4°C Dome Temp./Hum. $+13.7^{\circ}\text{C}$ 79.6% H Transparency Conditions *Fine* 42

Focus ... 6.70

Spectr. Temp. Dome Temp./Hum. $+13.5^{\circ}\text{C}$ 79.0% H

Companion Filter	Exp.	Exp. Mtr.	Seeing	PA Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	3					C45500D	1800/n	306 μ	518A	7			
	730	5K	6"	646	<u>A9W</u>					8	std vel use	<u>Fekel Std</u>	
	B									8			
	A									9			
	900	1470		8.6	F2					10			
	90	1440		"	"					11			
	B									12			
	900	1430		"	"					13			
	720	1556		"	"					14			
	4									15			
	0									1			
										1			

43

Thurs / Fri

Special Sequist Tour
Looked @ Ring Nebula

Emulsion Batches:

Date .1997. Sept. 18/19. Observers ... M.K. / J.M.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC488 ^{17/18}	Inbourn / outBOARD							REF ND3	4/7
19	Comp							"	4
20	BD+59 289	²⁰⁰⁰ 01 37 34	+60 36 15	01 48 54					1252
21	Comp								4s
22	BIAS (A)			02 17 04					
23/27	FLATS x 5							JUNG ND4	4s
28	Comp							REF ND3	4s
29	HD 22484	¹⁹⁰⁰ 03 31 16 03 31 16	+00 05 04	02 55 17					10/10 10/10
30	Comp							"	4s
31	HD 22484	"	"	03 14 15					453
32	Comp							"	4s
33	BIAS (A)			03 23					0
34	Comp							"	4s
35	HD 48843	06 40 17	+12 47 52	03 30 08					762
36	Comp							"	4s
37	BIAS (A)								

CCO
Spectr. Temp

Focus ... 6

Spectr. Temp

Exp. Mtr. S

409

107K

215K

1930

CCD Spectr. Temp. -107.0°C ... Dome Temp./Hum. $+17.7^{\circ}\text{C}$ $67.0\% \text{H}$ Transparency Conditions ... *PART Cloudy* ... *OK*

Focus ... *6.70*

Spectr. Temp. Dome Temp./Hum. $+16.5^{\circ}\text{C}$ $71.6\% \text{H}$

400 0 50 1024 41 CCD UNIT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4/7					CAS CCD Tgrating →	1800 ln 4706	306 μ	518AA	3/4	focus test		2 MAX A09
	4									5		j note NW in Encoder File	
	152	409	2"	MAX is 10x1	Am					6		NE of pair sept 1'	
	4									7		$\Delta\alpha$ 100 00 07 $\Delta\delta$ 00 00 15	
	4									8			
	4									2			113K
	4									9			
	10/10 5/10	107K	2"		F9 IV-V					10	std vel	very cloudy with bright moon lit sky	
	4									11			
	152	215K	2"	"	"					12	std vel	in semi clear now	
	4									13			
	0									1			
	4									1			
	7/7	1930	3"		G49 A9 III					16	std vel	use from literature	
	4									17			
										1			

Pg #1

Tues/wed

Date ... 1997 Sept 23/24 Observers [KK]/Tn/Ly.....

Emulsion Batches:

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.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CF 01763	BIAS(4)			19 13					
64/65	Comp Inb/out							ND 2	25
66	Comp			19 55 51				FENE ND 52	25
67	HD 222368	23 34 48	+05 05 03	19 58 06					771
68	Comp							"	25
69	HD 222368	"	✓	20 26 20					1704
70	BIAS(4)			20 58					0
71	Comp			21 05				FENE NO 2	25
72	HD 3712	00 34 50	55 59 20	21 07 49					900
73	"	"	"	21 24 12					1451
74	Comp							"	25
75	HD 3712	"	"	21 52 05					1800
76	comp							"	25
77	BIAS(4)			22 25					0
78	HD 3712	"	"	22 31 22					1965
79	Comp							"	25

Exp. Mtr. S
Cen Spectr. Temp
Focus.....
Spectr. Temp

Exp. Mtr. S

Apparent

10 K

26 K

131 K 5

207 K

295 K

241 K

CCD Spectr. Temp. -101.3°E Dome Temp./Hum. $+11.0^{\circ}\text{C } 64\% \text{H}$ Transparency Conditions \dots Part Cloudy 46
 Focus $\dots 238 \text{ still}$ note we feel we are only getting 2/3 of July's system throughput.
 Spectr. Temp. \dots Dome Temp./Hum. \dots $0 \ 0 \ 512 \ 1024 \ 2 \ 1 \ \text{CCDFMT}$

Exp. Mtr.	Seeing	Pr. Mag.	Sp.	Inst. Eff. / 18:00 tilt	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				Fiber Fed edelle	1800/0300 x.5795	Fiber Hole	6300	1			
25								2/3			
25				Apparent in Board	looked weak and Broad. ??			2	focus Test Attempt.		11.2K
791				10K	413	F7V		3	stalled	only 4A04 above background.	
25								2			
124				26K	8"				Reboot in 2	> 10 ADM above background	
0								1			
25								1			11.3K
900				131K	5"	2,23	K0 III _a	2	stalled (SOAT OF)	~ 70 ADM above	
145				207K				3			
25								1			11.7K
180				235K	"	"		2			
25								1			
0								1			
165				241K	v	.1		2			
25								1			11.6

47 P#2

Tues/Wed

Date 1997 Sept 23/24

Observers [CKK]/Lu/Tn

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CF01780	HD 3712	00 34 50	55 59 20	23 08 51				CASS SOURCES	1800
81	Comp							FeNe ND2	25
82	HD 3712	"	"	23 42 59					1588
83	Comp			00 12				"	20
84	BIAS(4)			00 13					0
85	HD 8890	01 22 34	+88 46 26	00 25 30					1382
86	Comp							"	25
87	HD 8890	"	"	00 53 23					1545
88	Comp							"	2
89	BIAS(4)			01 26					0
90	FLAT							JANG ND 1	900
91	comp							FeNe ND 2	2
92	HD 3712	00 34 50	55 59 20	01 56 20					1493
93	Comp							"	2
94	FLAT Comp			00 57				"	2

Spectr. Temp

Focus.....

Spectr. Temp

Exp. Mtr.

Resolution

2000 Ang

2.4 Microns

3

220 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

210 K

Spectr. Temp. -101.3°C Dome Temp./Hum. $7.4^{\circ}\text{C}/70.3\%$ Transparency Conditions *haze* 88Focus *238**some cloud.*

Spectr. Temp.

Dome Temp./Hum.

0 0 512 1024 21 CCD FMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
25	1830	ISS exp 216Kmeter	5"	2.23	KO III	Echelle FF	18.00/300μ x 5.775	Fiber Holo	6200A	3			
2	2									1			10.5K
	1588	220K								2			
	2									1			
	0									1			
	1382	219K	5"	2	F					3		ISS 100 12 21 -00 00 03	
	2									1			
	1545	217K		"	"					3			
	2									1			
	0									1			
	1	910								1			7K
	2									1			
	1493	220K	3"	2.23	KO III a					2			
	2									1			
	2									1			

69

Pg 3

Date ... Sept. 23/24 Observers

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CF01795	BIAS (4)			02 59					
	HD 3712								

Spectr. Temp.

Focus

Spectr. Temp.

Exp. Mtr.

51

4

Date 1997 Sept 24/25 Observers [KK]/Vnk/Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Ex
CF01796	flat								
97	BIAS(4)			19 31					
98	comp							FeNz TND 4	4
99	HD222368	23 34 48	05 05 03	19 51 59					1200
CF01800	comp							"	4
01	comp							"	4
02	HD197963 A	20 42 00	15 45 49	20 30 05					1800
03	comp							"	4
04	BIAS(4)			21 05					0
05	HD197963 B ⁽⁴⁾	"	"	21 12 42					2100
06	comp							"	4
07	comp							"	4
08	HD213051 A	22 23 41	-00 31 53	22 01 09					1800
09	comp							"	4
10	BIAS(4)			22 37					0
11	HD213051 B ⁽²⁾	"	"	22 41 37					2100

Exp. Mtr. Seis
 Spectr. Temp.
 Focus.....
 Spectr. Temp.

7.7K 6

94K 4

44K

60K

46K

CLD
Spectr. Temp. -100.3°C

Dome Temp./Hum. $12.3^{\circ}\text{C}/63.7\%$

Transparency Conditions *partly cloudy* 52

Focus 2.38

Spectr. Temp.

Dome Temp./Hum.

\rightarrow haze

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				echelle FF	1800 x 0300 x.5795	Fibre hole	6300			Karl did the flat.	
								1			
								2			14K
1200	39.7K	6"	4.13	F7V				3	Vel std		40 ADU
								2			
								2			13.9K
800	94K	4"	4.5	K1 II				3	KK		160
								3			14K
								1			
2600	44K		5.5	F7V				2	KK		
								3			
								3			
1800	60K	6"	4.31	F3V				2	KK	very difficult to separate	
								3			
0								1			
2100	46K	6-8"	4.51	2				2	KK		

53

Date 1997 Sept 24/25 Observers [KK]/Lu

Emulsion Batches:

.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp
CF01812	comp							FeNe ND#4	4
13	comp							"	4
14	HD 4614 (A)	00 43 03	57 17 06	23 36 41					1250
15	comp							"	4
16	BIAS(4)			00 09					
17/19	flats							Tung ND 1	
20	Comp			08 12				FeNe ND#4	4
21	dark - no room lights								60
22	dark - full room lights			08 15					60
23	ThAr comp			08 29				ThAr	2

COP
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. Se

FK 4

CCD
Spectr. Temp. -100.3°C

Dome Temp./Hum. $10.2^{\circ}\text{C}/70.8\%$

Transparency Conditions... ^{a little} fine-haze... 5.4

Focus... 0.238

change fast.

Spectr. Temp.

Dome Temp./Hum.

Comparison Filter	Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Ne #4	4					echelle fp.	1800x0300 x 5795	Fibre hole	6300	3			15K
	4									3			
	1250	71K	4"	3.45	90V					2	KK	cloudy	
	4									3			12.8K
										1			
										2			2.5K
	4												
	60												
	60												
	2												

close down due to (1) cloudy

(2) no safety backups!
[instrument no quite right]

55 PG #1

Date 1997 Sept 25/26 Observers Krsy/Vnk/Mki/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE14546/48	Inboard/outboard flat							ThAr	3/2
								Tung	2

CCD
 Spectr. Temp
 Focus.....
 Spectr. Temp

Exp. Nr. Sc

P4 #1
 57 1997 Sept 26/27

Date Observers Kiss/Vnk/Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE14549	BIAS(4)			19 36					
50	comp							ThAr	2
51	HD187929	19 47 23	00 44 56	19 49 01					300
52	comp							"	2
53	comp							"	2
54	HD163506	17 51 23	26 03 57	20 07 28					1200
55	comp							"	
56	comp							"	2
57	HD177724	19 00 49	13 42 53	20 36 48					420
58	comp							"	2
59	BIAS(4)			20 46					7
60	comp							"	2
61	HD 187691	19 46 14	10 03 55	20 54 48					900
62	comp							"	2
63	comp							"	2

CCD
 Spectr. Temp.
 Focus.....
 Spectr. Temp.

Exp. Nr. Se

7

11

18

30

CCO Spectr. Temp. -100.5°C Dome Temp./Hum. $8.7^{\circ}\text{C}/70.7$ Transparency Conditions *Clear* 58

Focus 229

Spectr. Temp. Dome Temp./Hum.

0 0 256 1024 4 1

Companson Filter/ Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
					echelle	Note						
Ar	2				19.45	sept 29		90u = 265 6300 300u = 235	1			
									2			
	300								2			
	7		3.5	FG					2			
									2			
									2			
	11		5.5	F					3			
									2			
									2			
	18		2	A					3			
									2			
									1			
									2			
	30		5	F					3			
									2			
									2			

(MUST Be the 300ln/mm cross grating)

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Page #2

Date 1957. Sept 26/77 Observers Kim/Vnr/ku

Emulsion Batches:

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.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE14564	HD 176155	18 53 48	17 13 35	21:18:35					1180
65	comp							Th Ar	2
66	comp							"	2
67	HD 188727	19 51 29	16 22 11	21:45:33					1200
68	comp							"	2
69	BIAS(4)								
70	comp							"	2
71	HD 197572	20 39 29	35 13 38	22 13 49					1500
72	comp							"	2
73	comp							"	2
74	HD 198726	20 47 13	27 52 32	22 45 01					1200
75	comp							"	2
76	comp							"	2
77	HD 201078	21 02 18	30 47 01	23 14 36					1200
78	comp							"	2

CCP
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mir. Se

50

57

50

56

54.5

CCD
 Spectr. Temp. -100.3 Dome Temp./Hum. ... 8.1/73.1% Transparency Conditions ... clear 60
 Focus 229
 Spectr. Temp. Dome Temp./Hum.

Comparison
Filter Exp.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1180		5.5	F-G				the same as #1	3		high Voltage for PMT	
2								2		(1300V)	
2								2			
1200		5.5	F-G					3			
2								2			
2								1			
2								2			
1800		6.1	F-G					3			
2								2			
2								2			
1200		5.7	F-G					3			
2								2			
2								2			
1200		5.5	F-G					3			
2								2			

61
Page #3

Date 1997 Sept 26/27 Observers Kim/Vud/Ku

Emulsion Batches:

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.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE14579	BIAS (4)			23:36					
80	Comp							Platr	2
81	HD 203156	21 15 33	37 48 55	23 41 25					1200
82	Comp							"	2
83	Comp							"	2
84	HD 213307	22 25 24	57 53 00	00 08 25					720
85	Comp							"	2
86	Comp							"	2
87	HD 17463	02 43 03	68 28 27	00 35 11					1800 or 60
88	Comp							"	2
89	BIAS (4)								
90	Comp							"	2
91	HD 30282	04 41 06	36 32 00	01:12:21					1780 6
92	Comp							"	2
93	Comp							"	2

CCD
Spectr. Temp.
Focus.....
Spectr. Temp

Exp. Mtr. Se

CCD
Spectr. Temp. -100.3

Dome Temp./Hum. 7.4 / 75.5%

Transparency Conditions clear 62

Focus 229

Spectr. Temp.

Dome Temp./Hum.

some clouds
after 0:00 EST

Comparison
Filter Exp.

Comparison Filter Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
									1			
2									2			
200	50		5.3	F-G					3			
2									2			
2									2			
20	71		4	F-G					3			
2									2			
2									2			
200	60		60	F-G					3			
2									2			
									1			
2									2			
20	46		1.5	F-G					3			
2									2			
2									2			

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#4

Date 1997 Sept 26/77

Observers Kim/Vid/ker

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE 14594	HD 32456	04 5818	55 1300	01:5400					1800
95	Comp							Ph Ar	2
96	BIAS(4)			02:26					
97	Comp							"	2
98	HD 29260	04 3124	18 20 00	02:33:33					1500
99	Comp							"	2
CE 14600	Comp							"	2
01	HD 45412	06 2208	30 3318	03:05:58					1200
02	Comp							"	2
03	Comp							"	2
04	HD 44990	06 1949	07 08 25	03:32:16					1200
05	Comp							"	2
06	BIAS[4]			03:55					
07	Comp							"	2
08	HD 52973	06 5811	20 4302	04:01:23					500
09	Comp							"	2

(1)
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. Sc

43

44

61

02

(C) Spectr. Temp. -100.3

Dome Temp./Hum. 7.2/81.1%

Transparency Conditions little hazy 64...

Focus 229

Spectr. Temp.

Dome Temp./Hum.

Comparison
Filter Exp.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
43		7.5	F-G					3			
								2			
								1			
								2			
44		6.8	F-G					3			
								2			
								2			
61		5.4	F-G					3			
								2			
								2			
		6.5	F-G					3			
								2			
								1			
								2			
102		3.	F-G					3			
								2			

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Date 1997. Sept. 26/27

Observers Kim/VW/L

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CEM610.PTS	Comp							Pk Ar	2
11	HD 2207	00 20 54	50 43 00	04:21:12					1600
12	comp							"	2
13	BIAS(4)			05:01					
14-20	PLATS							Tung.	1

(C)

Spectr. Temp

Focus.....

Spectr. Temp

Exp. Mtr. Se

(C) Spectr. Temp. ... -100.2

Dome Temp./Hum. ... 6.9 / 82.2%

Transparency Conditions ... clear again ... 66..

Focus ... -229

Spectr. Temp.

Dome Temp./Hum.

Comparison
filter Exp.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
2				the same as #1				2			
1600		7	P-G					3		(C) temp. getting higher - 95.5	
2								2			
						1		1		after the logging up	
1						<u>H=230</u>	T ₁ od 1	2			

67

Pg#1

Wed / Thurs

Emulsion Batches:

Date 1997 Oct 1/2 Observers Gd / Tn

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp
CC48838/39	In board / out board							FeAr ND4	9/6
40	BIAS(1)			18 44					0
41	Comp							FeAr ND5	4s
42	HD 175865	18 52 18	+34 48 51	18 47 24					23
43	Comp							"	4s
44/45	FLATS x 2							TUNG ND5	4s
CC48846	Comp							FeAr ND3	4s
47	HD 201891	21 07 24	+17 21 00	19 09 04					493
48	Comp							"	4s
49	BIAS(4)			19 19					0
50	Comp							"	4s
51	HD 208906	21 54 18	+19 21 00	19 23 58					378
52	"	"	"	19 32 04					366
53	Comp							"	4s
54	Comp							"	4s

Spectr. Temp. .

Focus... 6.7

Spectr. Temp. .

Exp. Mtr.

Reflex

1000 V

4K

1473 5

072

1800

Spectr. Temp. -100.3°C Dome Temp./Hum. 17.5°C 55% RH Transparency Conditions Part Cloudy (8)

Focus 6.77

Spectr. Temp. Dome Temp./Hum.

Note - since Blue Columnator Replacement
no change made and CCD Re installed Today
CCD INT NOW 404 0 50 1024 4 1

Comparison pe/Filter Exp.	Exp. Mtr.	Seeing	Plg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
24 74 1/6	1000 V				Echelle CASS CCD	300 1st order	400 265		3/4		note Oct 97 in Above note not significant	
0					1945	1583	300	235	1		focused at 46.8°C dropping fast	
25 43					Tgrating	5435		6600A	5			
28	4K								6		Just normalization start	
35 43									7			
36 35 43									8			
47 43					Tgrating	1800 lines/mm		5184A	10			
493	1473	5"	27	F		4706			11		is dec a bit negative	
4									12		Another Star at 5 Arcmin North seen	
0									1		check field and encoder log to be sure	
43									13			
378	1672		27						14			
366	~1800								15			
43									16			
4									17			

69 19#2

wed/Thurs

Emulsion Batches:

Date 1997 Oct. 1/2 Observers Gld./Ta.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48855	HD165908	18 0314	+30 32 51	19 47 26					223
56	Comp							FeAr ND 3	45
57	Comp							"	45
58	HD 195084	20 42 52	+57 13 15	20 00 27					123
59	Comp							"	45
60	BIAS(A)			20 07					0
61	Comp							"	45
62	HD 204978	21 18 02	+28 19 31	20 14 42					370
63	Comp							"	45
64	Comp							"	45
65	HD 2454	00 23 10	+09 38 32	20 26 13					839
66	Comp							"	45
67	Comp							"	45
68	HD 32168	00 30 44	+12 39 40	20 44 15					
69	Comp							"	45
70	BIAS (A)								

 CCJ
 Spectr. Temp.
 Focus... 6.7
 Spectr. Temp.

 Exp. No.
 6K 5

6K 5

68K

68K-5

68K

Spectr. Temp. -10.11°C Dome Temp./Hum. $+5.6^{\circ}\text{C}$ $66.1\% \text{H}$ Transparency Conditions Fine 70

Focus ... 6.77

Spectr. Temp. Dome Temp./Hum. $+4.7^{\circ}\text{C}$ $70.7\% \text{H}$

404 0 50 1024 41 CCD FMT

Comparison e/Filter	Exp	Exp. Mir. 1000 V	Seeing	Pig. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulston	P.H.	Program	Remarks	Quality
773		6 K	5"	15	FV	C155 CCD grating →	1800 lines/mm 7.06	306μ	5184Å	18			4K
3	4									19			
1	4									20			
123		6K.	5"	24.6	FV					21			
1	4									22			
0										1			
4	4									23			
370		6.8K		5.5						24			3.6K
4	4									25			
4	4									26			
839		6.8K	5.7	5.2						27			3.3K
4	4									28			
4	4									28			
		6.6K		6.4						29			
4	4									30			
										1			

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Emulsion Batches:

Date 1997 Oct 1/2 Observers ... Gld./Tg.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC48870.	Fls Comp							KA ND3	45
71	HD10307	01 35 42	+420642	21 05 08					
72	Comp							"	45
73	Comp							"	45
74	HD9826	01 30 56	+405419	21:1527					
75	Comp							"	45
76	BIAS(4)			21 19					0
77	Comp							"	45
78	Vesta	1997.8 01 59 35	-001519	21 21 25					
79	Comp								45
80	Comp							"	45
81	HD177724	19 00 49	+134253	21 48 46					60s
82	Comp							"	45
83/88	FLATSx 6							TUNG ND3	45
89	BIAS(4)			21 54					0

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Nr. Se

92K

66K 8

11K

73 p₄H4

Date 1997 Oct 1/2 Observers Gld./Ta.....

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC 488 ^{90/91}	Inboard / OUTBOARD							FA ND7	4/6
92	Comp							"	45
93	HD 165 908	18 03 14	+30 32 51	22 24 15					90
94	Comp							"	45
95	BIAS (A)			22 28					0
96	Comp							"	45
97	HD 201891	21 07 24	+17 21 00	22 32 03					
98	comp							"	45
99	comp							"	45
100	HD 198084	20 42 52	57 13 15	22 50 01					755
01	comp							"	45
02	comp							"	45
03	HD 208906	21 54 18	+21 21 00	23 00 42					360
04	comp							"	45
05	comp							"	45

Spectr. Temp.

Focus.....7

Spectr. Temp.

Exp. Mir.

Se

20-14

21K

A

2K

2K

Spectr. Temp. Dome Temp./Hum.

Transparency Conditions ... *cloud coming from NW.*Focus *7.00*

74

Spectr. Temp. Dome Temp./Hum.

*55 0 50 1024 41 CCOFMT*Comparison
/Filter Exp.

Exp. Mtr.	Seeing	Pls. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
<i>100-112</i>				<i>CASS Tytrating →</i>	<i>600 l/nm 270</i>	<i>306a</i>	<i>5130</i>	<i>1/2</i>	<i>focus test</i>		
								<i>5</i>			
<i>21K</i>								<i>6</i>			<i>6K</i>
								<i>7</i>			<i>13K</i>
								<i>1</i>			
								<i>8</i>			
	<i>4" 27 F</i>		<i>F</i>					<i>9</i>			
								<i>10</i>			
								<i>10</i>			
<i>2K</i>								<i>11</i>		<i>clouding in</i>	
								<i>12</i>			
								<i>13</i>			
<i>2K</i>								<i>14</i>			
								<i>15</i>			
								<i>16</i>		<i>only light haze</i>	

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Date 1947 Oct 1/2 Observers Gld/Tn/Mki

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.	Exp. Mtr.	S
06	HD 207978	21 48 02	+28 19 31	23 11 05					1575	2.5k	
07	comp							FEAR ND 4	4s	-	
08	comp							"	4s		
09	HD 2454	00 23 10	+09 38 32	23 23 04					292	2k	
10	comp							"	4s		
11	comp							"	4s		
12	HD 3268	00 30 44	+12 39 40	23 32 20					450	2.6k	
13	Comp							"	4s		
14	BIAS (A)			23 41					0		
15	Comp							"	4s		
16	HD 10307	01 35 42	+42 06 42	23 45 21					147	2.8k	5
17	Comp								4s		
18	Comp							"	4		
19	HD 9826	01 30 56	+40 54 19	23 51 02					745	2.9k	
20	comp							"	4		
21	BIAS (A)			23 54					0		

Spectr. Temp

Focus.....

Spectr. Temp

Exp. Mtr.

S

Spectr. Temp.

Dome Temp./Hum.

Transparency Conditions

hazy 76..

Focus 7.00

Spectr. Temp.

Dome Temp./Hum. 3.5°C 75.5%RH

455 0 501024 41 CCD61

Comparison
Filter Exp.

Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	176	2.5k				Regrating	600/n 270°	306μ	5/30	17			2 MAX
Ar	4	—								18			
	43									19			
	292	2k								20			
	43									21			
	43									22			
Ar	43	2.6k								23			7K
	0									1			
	43									23			
	147	2.8k	5"							24			7K
	43									25			
	4									25			
	745	2.9k								26			
	4									27			
	4									1			

77 pg#6

Date 1997 Oct 1/2 Observers Gld/Tal/mki

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48922	Comp							FeAr ND24	4s
23	HD 3765	00 3518	+39 40 00	23 58 35					45s
24	Comp							"	4s
CG81127/30	HD 3765								
31/33	DARKS x 2								
34/35	DARKS x 2								135s
36/37	HD 3765 x 2								133
			19978						
CC48925	Comp							FeAr ND24	4s
26	Vesta	01 58 56	-00 16 15	00 23 52					50s
27	Comp							"	4s
28/33	FLATS x 6							JUNG ND5	4s
34	BIAS(4)			00 41					0

Spectr. Temp

Focus.....

Spectr. Temp

Exp. Mtr. S

1200

1.6K

Spectr. Temp.

Dome Temp./Hum.

Transparency Conditions ... *Clouding in*Focus *7.00*

78

Spectr. Temp.

Dome Temp./Hum. *7.33°C 76.6%RH*Comparison
Filter Exp.

Exp. Mtr.	Seeing	Pg Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
<i>4c</i>					<i>600ln</i>	<i>306u</i>	<i>5130A</i>	<i>5</i>			
<i>4b</i>	<i>1200.</i>	<i>7.36</i>	<i>dk5</i>					<i>6</i>	<i>stdvel</i>		
<i>4c</i>								<i>7</i>			
					<i>Above</i>	<i>306u</i>	<i>slit</i>			<i>Seeing Test + ALT 88°</i>	
										<i>Dome west</i>	
<i>133s</i>										<i>Light west wind</i>	
<i>133</i>											
<i>4c</i>					<i>600ln</i>	<i>306u</i>	<i>5130A</i>	<i>7c</i>			
<i>500</i>	<i>1.6K</i>							<i>8</i>			
<i>4c</i>								<i>9</i>			
<i>4c</i>								<i>2</i>			<i>12K</i>
<i>0</i>								<i>1</i>			

PG #1

79
Date .. 1.99.7... Oct 3/4 Observers M.Ki.t... / WXL.....

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48935 936	Fe Ar. Comp.							Fe Ar NO #3	4
937 938	Inboard/outboard	23 40:36	24 55 00	20:33:08				Fe Ar ND #3	4/7
CC48939	BIAS(4)			20 51					0
40	comp							"	4
41	HD 222994	23 40 36	24 55 00	20 58 51					1200
42	comp							"	4
43	HD 222994	"	"	21 21 54					300
44	comp							"	4
45/51	flats							Tung NO #4	6
52	BIAS(4)			21 37					0
53	comp							Fe Ar No 3	4
54	HD 222994	"	"	22 08 20					1201
55	comp							"	4
56	comp								
57	HD 222368	23 34 48	05 05 03	22 34 57					120

Spectr. Temp

Focus.....

Spectr. Temp

Exp. Mir. Se

726 4

145

729 5

5.5K

Spectr. Temp. -101.3°C Dome Temp./Hum. $13.1/81.2\%$ Transparency Conditions *Cloudy* 8.0
 Focus 6.75
 Spectr. Temp. Dome Temp./Hum. $+1.3^{\circ}$ 81.2% $400 - 50 1024 \& 1 \text{ CCD/FMT}$

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
#5	4		4"			CASS CCD	1800/mm 47.06	306 μ	5184	1		Not focussed	
			4"	9.0	FV					5			
#3	4/7									3/4		New focus	
	6									1			
	4									6			
	1200	726	4"	9.0	FV					7			
	4									8			
	300	145	"	"	"					9		cloudy	
	4									10			
#4	6									5			12.5k
	0									1			
#3	4									11			
	120	729	5"	9.0	FS					12			
	4									13			
	120	5.3K		4.3	F7V					13			
										14			

8/PG # 2 Oct.

Date 1997 3/4

Observers MK: + / Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC48958	comp							FEAR ND#3	4
59	BIAS(4)			22 39				"	4
60	comp							"	4
61	BD+12 511	03 49 28	12 54 44	22 58 07					900
62	comp							"	4
63	BD+12 511	"	"	23 23 34					900
64	comp							"	4
65	BIAS(4)			23 40					0
66	BD+12 511	"	"	23 43 15					900
67	comp							"	4
68	BIAS(4)			00 00					

Spectr. Temp

Focus.....

Spectr. Temp

Exp. Mtr. Se

407 4

398 4

370

Spectr. Temp. -100.2° Dome Temp./Hum. $12.1^{\circ}\text{C} / 86\%$ Transparency Conditions \dots *partly clear* \dots δ_2

Focus \dots 6.75 \dots

Spectr. Temp. \dots Dome Temp./Hum. $11.7^{\circ}\text{C} / 90\%$

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4					CASS CCD	1800/mm 47.06	306 μ	5785	15			
	4									1			
	900	407	4"	9.5	GO					15			
	4									16		fantr comp. 10^u SSE	
	900	398	4"	"	"					17			
	4									18			
	0									19			
	900	370		"	"					1			
	4									20			
										21			
										1			

839G #1

Date 1991 Oct 5/6

Observers

Vnk/Ksz/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp
cc 489/69	Inboard/outboard							FeAr ND#3	4/7
70	BIAS(4)			19 29					
71									
72	comp							"	4
73	HD187691	19 46 14	10 09 55	19 36 40					275
74	comp							"	4
75	comp							"	4
76	HD196504	20 32 49	26 06 50	19 47 43					411
77	comp							"	4
78	comp							"	4
	HD 209680	18 45 31	15 49 30	21 21 03					
78	comp							"	4
79	HD187921	19 47 24	27 12 00	21 33 33					645
80	comp							"	4
81	BIAS(4)			21 46					
82	comp							"	4
83	HD213307	22 25 24	57 53 00	21 54 43					106

CCD
Spectr. Temp. ...
Focus
Spectr. Temp.

Exp. Mtr. Seeing

7K 25

8.3K

825

6150

CCD
 Spectr. Temp. -101.3°C Dome Temp./Hum. $18.5^{\circ}\text{C}/46\%$ Transparency Conditions OK ~~87~~
 Focus 6.71
 Spectr. Temp. Dome Temp./Hum. 395056102441 CCD/FMT

Comparison pe/Filter Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Ar 4/8 043 1/8					CASS CCD	1800/mm 56,35	306	6600	3/4			
" 4									1			
275	7K	3"5"	5	F8V					5			
" 4									6	Vel std		
" 4									7			
" 4									7			
41	8.3K		5.6	B9					8	Telluric std	- clouds coming	
" 4									9			
" 4									10	Vnx Cep	cloudy	
" 4									9			
645	825		7.	G2					10			
" 4									11			
" 4									1			
4									11			
10	6150		4	F2					12			

PG #2

85 Date 1997 Oct 5/6

Observers

Vrk / Ksz / K33 / Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp
cc48984	comp							FeAr NO3	4
85	comp							"	4
86	HD197572	20 39 29	35 13 38	22 03 09					157
87	comp							"	4
88	comp							"	4
89	HD 203156	21 15 23	37 48 55	22 12 09					162
90	comp							"	4
91 /97	flats							Tung NO#5	6
98	BIAS(4)			22 27					0
99	BIAS(4)			23 40					0
cc49000	comp	(2000)						FeAr ND #3	4
01	BD+39 4379	20 57 21	40 10 39	23 46 23					2000
02	comp							"	4
03	comp							"	4
04	BD+17° 4572	21 19 21	17 51 00	00 27 22					1801
05	comp							"	4

CCD
Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Nr.

Se

1320

830

550 6"

810 6"

CCD
Spectr. Temp. -100.2°C

Dome Temp./Hum.

Transparency Conditions ... partly clear ... 86
- cloudy

Focus 6.71

Spectr. Temp.

Dome Temp./Hum.

395° 0 50 1024 4 1 CCD/FMT

Comparison pe/Filter Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
2Ar ND3 4					CASS CCD	1800/mm 5635	306μ	6600	13			
" 4									13			
157	1320		6.	G2					14	Vnk Cap.		
" 4									15			
" 4									15			
162	830		5.8	F2					16			
" 4									17			
419 D#3 6									5			12.5K
0									1			
0									7			
2Ar ND#3 4									17			
2000	550	6"-8"	10	F5					18			
" 4									19			
" 4									19			
1800	810	6"	9.5	F8					20			
" 4									21			

PG #3

87

Date 1997 Oct. 5/6

Observers Vnk/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC49006	BIAS(4)			01 00					0
07	comp							FeAr ND#3	
08	HD 214975	22 36 54	56 19 00	01 11 49					900
09	comp							"	4
10	comp							"	4
11	IX Cas	00 04 51	50 14 06	01 32 32					2400
12	comp							"	4
13	BIAS(4)			02 14					0
14	comp							"	4
15	HD 30282	04 41 06	36 32 00	02 29 38					600
16	comp							"	4
17	comp							"	4
18	HD 236439	00 24 24	59 40 00	03 03 19					1200
19	comp								
20	BIAS(4)			03 25					

CCD
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Nr. Se

1252

400

1700

89

CCD Spectr. Temp. -100.3°C Dome Temp./Hum. $17.7^{\circ}\text{C}/77.2\%$ Transparency Conditions haze 88

Focus 6.71

Spectr. Temp. Dome Temp./Hum. $395\ 0\ 50\ 1024\ 4\ 1\ \text{CCDFMT}$

Comparison / Filter Exp.	Exp. Mtr.	Seeing	Pig. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
6					CASS CCD	1800/mm 56.35			1			
Ar #3									21			
900	1232		8	F6					22			
4									23			
4									23			
2400	400		11.5	F7					24			
4									25			
0									1			
4									25			
600	1700		7.5	F2					26			
4									27			
4									27			
1200	831	3"-4"	9	F7					28			
									29			
									1			

89 PG#4

Date 1997 Oct 5/6

Observers Vnk/Ksz/La

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
ec49021	comp							FeAr AD #3	4
22	HD 44990	06 19 49	07 08 25	03 32 52					300
23	comp							"	4
24	comp							"	4
25	HD 52610	06 56 48	-01 00 00	03 45 02					1200
26	comp							"	4
27	comp							"	4
28	HD 56167	07 10 54	69 52 00	04 13 56					1200
29	comp							"	4
30	BIAS(4)			04 36					0
31	comp							"	4
32	HD 32456	04 58 18	55 13 00	04 42 14					600
33	comp							"	4
34	comp							"	4
35	HD 18884	02 57 03	03 41 41	04 59 43					37
36	comp							"	4

CCD
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mir. Se

2766 3"

1120

1968 2"

3K

12K

CCD Spectr. Temp. -100.3°C Dome Temp./Hum. $17.3^{\circ}\text{C} / 54.8\%$ Transparency Conditions *slightly haze* 90
 Focus $6, 71$
 Spectr. Temp. Dome Temp./Hum.

Companson /Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Kr 243	4					CASS CCD	1800/mm 56.35	306 μ	6600	7			
	300	2766	3"-4"	6	G3					8			
	4									9			
	4									9			
	1200	1120		8.5	G0					10			
	4									11			
	4									11			
	1200	1965	2'-3"	8.3	Ce+					12			
	4									13			
	0									1			
	4									13			
	600	3K		7.5	F					14			
	4									15			
	4									15			
	300	12K		4	MIII					16	std vel		
	4									17			

9/pc 5

Date 1997 Oct 5/6

Observers Vnk/Ksz/Kiss/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
cc49037	comp							FeAr NO 3	4
38	HD52973	06 58 11	20 43 02	05 06 26					69
39	comp							"	4
40	BIAS (4)			05 10					
41	comp							"	4
42	HD45412	06 22 08	30 33 18	05 13 58					246
43	comp							"	4
44	comp							"	4
45	HD22484	03 31 46	00 05 04	05 22 52					176
46	comp							"	4
47	BIAS (4)			05 27					0

CCD

Spectr. Temp

Focus.....

Spectr. Temp

Exp. Mtr. Se

10K 2

9K 2

9K 2

CCD
 Spectr. Temp. -100.5°C Dome Temp./Hum. $17^{\circ}\text{C}/78\%$ Transparency Conditions *clear* 92
 Focus 6.71
 Spectr. Temp. Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
r	3	4				CASS CCD	1800mm	306μ	6600	17			
	69	10K	2"	4	F?					18			
	4									19			
	4									1			
	4									19			
	246	9K	2"	5.6	FG					20			
	4									21			
	4									21			
	176	9K	2"	4.3	F8V					22			
	4									23			
	0									1			

93 per #1

Date 1997 Oct 7/8

Observers [Vys]/Lu/Tn

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC49048/49	Inboard/outboard							FeNe ND#5	3/2
50	BIAS(4)			20 27					
51	comp							FeNe ND#5	4s
52	BD+23 45 K	22 32 41	+23 24 52	20 39 24				FeNe ND#5	1815
53	comp							FeNe ND#5	4
54	comp							"	4
55	AC+19 10 79-115	23 11 42	+19 04 39	21 15 09					1300
56	Comp							"	4
57	comp							"	4
58	HD 216899	22 51 48	16 02 00	21 43 19					660
59	comp							"	4
60	BIAS(4)			21 56					0
61	comp							"	4s
62	AC+3 2781-116	23 03 00	02 47 05	22 00 40					1235
63	Comp							"	4s
64	Comp							"	4s

CO
Spectr. Temp.
Focus... 6"
Spectr. Temp.

Exp. Mtr. Se

301

392

858

575

Spectr. Temp. ^{CO} -100.3°C Dome Temp./Hum. +17.0°C 54.1% Transparency Conditions haze 9K

Focus 6.71

Spectr. Temp. Dome Temp./Hum. C 2

400 0 50 1024 1 CCOFNT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Pl. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
2	3/2					CASS CCD Tyrating →	1800 lines/mm 47.75	306μ	5300A	1/2			2 MAX ADX
										1			
	4									3			
	1815	301	2"	12.2	K8					4	Vys pgm	Vys 893C ~40 ADX Abae Background	GSK
	4									5			
	4									5			
	138	342	2"	11.1	MO					6	Vys 860	OK	
	4									7			
	4									7			
	660	858		8.66	M2					8	Murcy std vel		
	4									9			
	0									1			
	45									9			
	123	375	2"	10.9	MO					10	Vys 343		
	45									11			
										11			

9574 #2

Date 1997 Oct 7/8

Observers

[Vys]/Lu/Tn

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49065	AC+11 1710-70	23 48 28	11 33 07	22 26 45					1800
66	comp							FeNe ND#5	4
67	Vys 870A	23 48 28	11 33 07	22 59 08					1111
68	Comp							n	4
69	BIAS(4)			23 19					0
70/ 76	flats x7							Tung ND#4	5
77	Comp							FeNe ND#5	4s
78	HD 18884	02 57 03	+03 41 51	23 44 43					19
79	comp							"	4
80	HD 18884	"	"	23 47 59					275
81	Comp							"	4s
82	BIAS(4)			23 54					0
83	Comp							FeNe ND#5	4s
84	HD 1326	50 12 42	43 27 00	01 44 29					
85	Comp							n	4s
86	BIAS(4)								

CCD

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.

Se

299

2

270

2K

1.5K

190

3

CCD
Spectr. Temp. -100.3°C

Dome Temp./Hum. $15.6^{\circ}\text{C}/65.5\%$

Transparency Conditions *Very haze - cloudy* 96

Focus 6.71

Spectr. Temp.

Dome Temp./Hum.

Comparison
Filter Exp.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1800 299	2"	12 ²	M0		1800/1/4mm 47.75	306		12	Vys 870B	South one of pair	
1/2 #5 4		12 ²	M0					13			
1111 270		11.7:	Looks m type					14		Cloud at end North and brighter	
↑								15			
0								1			
1/4 5								2			13 ² K
1/5 5								16			
19 2K		253	M 1.5 IIIa					17	std vel	cloudy	1.3K
4								18			
27 9.5K		"	"					19	std vel		4.6K
1/3								20			
0								1			
1/5 5								20			
190	3"	8.07	M I V					21	Marcy std vel	Too cloudy	
1/3								22			

97 py#1

Wed / Thurs

Date 1997 Oct 8/9 Observers [Rm] / Th / Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
cc 49087/88	inboard low board		HARTMANN TEST					FeAr ND 4	4/6
89	BIAS(4)			18 44					0
90	Comp							"	45
91	HD187691	19 46 14	+10 09 55	18 47 04					222
92	comp							"	4
93	Comp							"	4
94	HD203156	21 15 23	37 48 55	18 57 27					900
95	comp							"	45
96	Comp							"	4
97	HD180583	19 11 59	27 44 59	19 21 15					900
98	Comp							"	4
99	BIAS(4)			19 38					0
cc 49100	Comp							"	4
01	HD222368	23 34 48	05 05 03	19 49 41					500
02	comp							"	4
03/09	flats							Tung ND#5	6

CCO
Spectr. Temp
Focus...
Spectr. Temp

Exp. Mtr. S

No. 9/1/92

3015

4756

420

8780

CCD
Spectr. Temp. — °C
Focus 6:71
Spectr. Temp.

Dome Temp./Hum. +18.0°C 7556H
Dome Temp./Hum.

Transparency Conditions ... Hazy → cloudy 98
DD074 "Corrected" used as it was last night.
400 0 50 1024 4 1 CCD FMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	P. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4/6	1000V no filter				Tegroling	1800 l/lin 54.93	30 μ	6400A	3/4	focus		
	0								+ 2 μ @ Ra512	1			
	45									5			
	222	3015	4	5.11	F812					6	std vel		
	4									7			
	4									7			
	900	4756	4	5.8	F2					8	RM		
	45									9			8.5K
	4									9			
	900	4120		6.19	F6J-116					10	Rm pym		
	4									11			
	0									1			
	4									11			
	500	8780	5"	4.13	F7V					12	std vel	cloudy	
	4									13			
	5									2			11.6K

CCD Spectr. Temp. -100.3°C Dome Temp./Hum. $15.5^{\circ}\text{C}/80\%$ Transparency Conditions $\text{OK but hazy } 150$
 Focus 6.71
 Spectr. Temp. Dome Temp./Hum.

MAXADU

Companson (pe/Filter) Exp	Exp. Mtr.	Seeing	Mag. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Ar 4					C1155CCD	1800/14mm 54.93	306u	6400A	13			84K
1800	1260		9.1 -9.8	G2Ib					14	Run pgm		
"									15			
0									1			
"									15			
1388	3K	4"	8.4	G0Ib					16	Run pgm	Ud 1000007 35 00 0036 ZLoc	A-1K
"									17			
"									17			
159	5.9K	3"	6.19	K2					18	std for	H0 214975	7.5K
"									19			
"									19			
1200	641	3-4"	9.8	G5V					20			
"									21			
0									1			
"									21			

10/ P#3

Wed/Thurs

Date 1997 Oct 8/9

Observers [Rm]/Lu/Tn

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp
CC49125	HD 30282	04 41 06	+36 32 00	22 02 55					1200
26	Comp							FEAR ND 4	4
27	Comp							"	4
28	HD 25361	03 56 42	+58 23 00	22 27 10					1025
29	Comp							"	4
30	BIAS(4)			22 50					0
31	Comp							"	4
32	HD 3765	00 35 18	39 40 00	22 52 25					535
33	Comp							"	4
CG81130/41	HD 3765 x4							4x	675
42/45	DARKS x4							4x	675
46/47	DARKS x2							2x	133
48/49	HD 3765							2x	133
CC49134	Comp							FEAR ND 4	45
35	HD 44990	06 19 49	+07 08 25	23 45 58					1534
36	Comp							"	45

CCD
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. Sec

2280 5"

2060

18K 2"

100 5-8"

CCD
 Spectr. Temp. -100.3°C Dome Temp./Hum. $14.6^{\circ}\text{C}/86.0\%$ Transparency Conditions *haze* (2)
 Focus 6.71
 Spectr. Temp. Dome Temp./Hum. $+14.2^{\circ}\text{C}$ 88.9%

Comparison Filter	Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1200		2280	5"-8"	7.9-8.8	F6-G1	CASS CCD	1800/mm 54, 93	306 μ	6400 \AA	22	Rm pgm	High priority use	
Ar D4	4									23			
"	4									23			
1025		2060		7.3-8.0	F6J6-G2J6					24	Rm pgm		
"	4									25			
0										1		Very light east wind	
"	4									25			
535		1.8K	2"	7.36	dk5					26	std vel		2K
"	4									27			
4v	675					Above		306 μ slit			Seeing Test	Light East wind	
4v	675											Pume SW	
2x	133											HLT 81r5 ⁰	
2x	133												
Ar D4	45	1700	5"-8"	6.5-8.0	F7Iab-K1Iab					27			
"	45									28	Rm	High priority	
"	45									29			

107 1944

Date . 1944. Oct. 8/9 Observers . [Vgs.]/Tn/Ly.....

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
cc49137/38	BIAS(4) Inboard (on board)							Jene NDS	3/20
139	BIAS(4)								0

Spectr. Temp
 Focus...
 Spectr. Temp
 Exp. Mtr. S

105
pg#1

Thurs/Fri

Date ..1997 Oct 9/10.... Observers ..Kis/Vok/Tn.....

Emulsion Batches:

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.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
ce146 ^{2/22}	Inboard/outboard HERTMANN							TMA ₁	15/18
23	BINS(4)								0
24	Comp							"	1
25	HD 187929	19 47 23	00 44 56	21 45 30					604
26	Comp							"	1
27	Comp							"	1
28	HD 176155	18 53 48	+17 13 35	22 00 35					1500
29	Comp							"	1
30	Comp							"	1
31	HD 188727	19 51 29	+16 22 11	22 30 25					1500
32	Comp							"	1
33	BINS(4)			22 57					0
34	Comp							"	1
35	HD 197572	20 39 29	+35 13 38	23: 02:17					1500
36	Comp							"	1

CCD
Spectr. Temp.
Focus
Spectr. Temp.

Exp. Mtr. Se

Wing 100 TSC
1320V/b
0 Fil/HR

60 3

40 3

33 4

32

CCD Spectr. Temp. -101.3°C Dome Temp./Hum. 118.7°C 88% H Transparency Conditions ... PART Clearing ... 1.56.

Focus 2.34

90c gain as usual

Spectr. Temp.

Dome Temp./Hum.

Using new "corrected" DMT encoder program

Companson /Filter Exp.	Exp. Mtr.	Seeing	Pl. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
A 15/18	Using 100T scale				19.45	300h W 90u = .265 • 5830 H = 300u)		6300A	1/2	focus test	0 0 128 1024 8 1 CCD FMT	
0	1320 Volts 110 f/1.4K					H 300u = .235			1		0 0 256 1024 4 1 CCD FMT	
x 1									3			
609	60	3"	4.0	F-G					4	cepleid pgm		~ 7K
x 1									3			
u 1									3			
1500	40	3.5"	5.8	F-G					5			
x 1									3			
1									3			
1500	33	4"	6.4	F-G					6			
1									3			
0									1			
1									3			
1500	38		5.9	G					5			
1									3			

157 Pg #2

THURS / FRI

Date 1997 Oct 9/10 Observers ... K.S. / V.A. / T.G.

Emulsion Batches:

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.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CE14637	comp							ThAr	1
38	HD 198726	2047.13	+275232	23:34:05					1395
39	comp							"	1
40	comp							"	1
41	HD201078	210218	304701	000146					1200
42	comp							"	1
43	comp							"	1
44	HD203156	211523	+374855	002637					1200
45	comp							"	1
46	BVS(4)			0049					0
47	comp							"	1
48	HD213307	222524	+575300	005528					636
49	comp							"	1
50	comp							"	1
51	HD213307 companion	222524	+5754	01.1049					1199
52	comp							"	1

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.

Se

10

4

43

57

4

280

45

Spectr. Temp. Dome Temp./Hum. $11.7.4^{\circ}\text{C} 86.0\% \text{H}$ Transparency Conditions Hazy 108

Focus 234

Spectr. Temp. Dome Temp./Hum. cd Very windy by ohrs

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1					Echelle 19.45	0300H W 5830 H	90u 300u	6300A	3			
1355		40	45	6.0	F-G					5			
	1									3			
	1									3			
1200		43		5.3	F-G					6			
	1									3			
	1									3			
1100		57	45	5.8	F2					5			
	1									3			
	0									1			
	1									3			
638		280								6			
	1									3			
	1									3			
1139		45		6.0	A					5			
	1									3			

109 P93

Emulsion Batches:

Date . 1997 Oct 9/10 Observers ... Kis/Venk. I. Top

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE14653	Comp							th Ar	1
54	HD 17463	02 43 07	68 28 27	01 35 52					1100
55	Comp							"	1
56	BIAS [4]			01 59					0
57	Comp							"	1
58	HD 32456	04 58 18	55 13 00	02 02 47					1808
59	Comp							"	1
60	Comp							"	1
61	HD 30282	04 41 06	36 32 00	02 39 44					1600
62	Comp							"	1
63	BIAS [4]			03 09					0
64	Comp							"	1
65	HD 20902	03 17 11	49 30 19	03 15 36					269
66	Comp							"	1
67	Comp							"	1

Spectr. Temp.

Focus

Spectr. Temp.

Exp. Mtr. Se

Spectr. Temp. Dome Temp./Hum. $7.16.1^{\circ}\text{C} \dots 67.2\% \text{RH}$ Transparency Conditions .. *Mostly clear* 119.

Focus *234*

Spectr. Temp. Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Secing	Mag. [✓]	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1									3			
	100	50		6.0	F-G					4			
	1									3			
	0									1			
	1									3			
	1800	47		7.5	F-G					5			
	1									3			
	1									3			
	1600	44		7.5	F-G					6			
	1									3			
	0									1			
	1									3			
	260	151		1.9	F					4			
	1									3			
	1									3			

111 P54

Emulsion Batches:

Date 1997 Oct 9/16 Observers Kis/Vak/Tra

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE14668	HD 20418	031200	1948 47	032545					1001
69	comp							thAr	1
70	Comp							"	1
71	HD 29260	043124	+182000	034804					1500
72	comp							"	1
73	comp							"	1
74	HD 22484	033146	+000504	041658					726
75	comp							"	1
76	BIAS[4]			0432					0
77	comp							"	1
78	HD 44990	061949	070825	043603					1500
79	comp							"	1
80	comp							"	1
81	HD 52973	065811	204302	050552					600
82	comp							"	1

CCD
Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr. Se

62

53 4

70

71

80 4

CCD Spectr. Temp. -101.4°C @ 03:45 Dome Temp./Hum. $+13.3^{\circ}\text{C}$ 71.6% H Transparency Conditions *Mostly clear* (12)

Focus 234

Spectr. Temp. -100.3°C @ 05:13 Dome Temp./Hum. $+12.0^{\circ}\text{C}$ 73.2% H

Comparison
Filter Exp.

Exp. Mtr.	Seeing	Mag. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
62		5.0	A	Eddle 1945	300 μ W H	90 μ 300 μ	6300H	5			
								3			
								3			
53	4.6"	6.5	F-G					6			
								3			
								3			
70		4.9	F-8					4			
								3			
								1			
								3			
71		7.0	F-G					5			
								3			
								3			
80	4"	4.0	F-G					6			
								3			

113 pg 5

Emulsion Batches:

Date 1997... Oct 9/10.... Observers ..K.S./K.K./I.Tm.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE 14683	Comp							THA	LS
84	H D 45412	06 22 08	+30 33 18	05 19 25					1208
85	Comp							"	LS
86	BIAS (4)			Redeno after topup	05 53				0
87/93	FLATS x 7							TUNG	LS

Spectr. Temp.

Focus.....6.6

Spectr. Temp.

Exp. Mir.

1320V

61

4

Spectr. Temp. -100.2°C

Dome Temp./Hum.

Transparency Conditions .OK.....

Focus 234

Spectr. Temp.

Dome Temp./Hum. $+11.3^{\circ}\text{C} \cdot 74.7\% \text{H}$

Comparison Filter	Exp.	Exp. Mir.	Seeing	P.V. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	6	1320 V				Echelle	0300u/mm	90u 300u	6300/s	3			
	12B	61	4"							4	classical cephid		
	1/5									3		<u>CCD Temp -94.0°C</u>	
	0									1		CCD Temp b 05:50 done	
	1/5									2			OK
								<u>H = 350u for flats</u>					

115 pg#1 FRI / SAT

Date 1997 Oct 10/11 Observers ... K.S. / V.K. / T.N.

Emulsion Batches:

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.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CE146 ^{94/95}	Inboard / Outboard								15/09
96	BIAS (4)								0
97/703	FLATS x 7							TUNG	155
CE14704	Comp							ThAr	1s
05	HD 187929	194723	004456	183253					600
06	Comp							"	1
07	Comp							"	1
08	HD 1763506	175123	+260357	184710					1038
09	Comp							"	1
10	Comp							"	1
11	HD 176155	185348	+171335	190812					1200
12	Comp							"	1
13	Comp							ThAr	1
14	HD 177724	19:00:49	13:42:53	19:32:34					480
15	Comp							ThAr	1
16	BIAS (7)			19:42					0

CCD
Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.
11.20V

100 TScale

99

52

66

112

CCD
Spectr. Temp. -100.2°C

Dome Temp./Hum. +13.8°C 59.6% H

Transparency Conditions Mostly clear 1.6

Focus 1.230

Spectr. Temp.

Dome Temp./Hum.

MAX ADU

Comparison / Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
		13.20V				Echelle							
15/69		100 Tscale				1945	0.300" H	90u 350u	6300A	1/2	Focus test	CCP FMT FOR FOCUS 0 0 128/248-1	
0										1		0 0 256 1024 1	
16	1/5s						H	350u = .230		2			12.5K
1	1s						H	300u = .235		3			
600		99		4.0	F-G					2			
1										3			
1										3			
1038		52	2-3"	5.5	F2					4			
1										3			
1										3			
1000		66		5.8	F-G					5			
1										3			
4Ar										3			
480		112		2	A0					6	Telluric std		
1										3			
1										1			

17. pg#2

Fri/SAT

Emulsion Batches:

Date 1997 Oct 10/11..... Observers ... Kie/Vnk./Tm.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE14717	Comp							ThAr	1
18	HD 187691	194614	+100955	194546					1006
19	Comp							"	1
20	Comp							"	1
21	HD 188727	195129	+162211	200621					1587
22	Comp							"	1
23	Comp							"	1
24	HD 187921	194724	+271200	203644					1393
25	Comp							"	1
26	BIKS[4]			21:02					0
27	Comp							"	1
28	HD 197572	203929	351338	210605					1480
29	Comp							"	1
30	Comp							"	1
31	HD 198726	204713	+275232	21 35 34					1200
32	Comp							"	1

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr. Sec

5200

004/ke

51 3

65 1

30

60

60 3

Spectr. Temp. Dome Temp./Hum. $7.11.0^{\circ}\text{C}$ $67.4\% \text{H}$ Transparency Conditions *Part Cloudy* 11.8

Focus 1230

Spectr. Temp. Dome Temp./Hum. $+9.5^{\circ}\text{C}$ $67.7\% \text{H}$ *Great Aurora seen in NE @ 20:30 EST*

Comparison / Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating / Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1	1320V 120 f. 1/4r				Echelle 1945	0300h	90u 300u	6300A	3			
	1000	51	3"	5	F8					4	std vel		
	1									3			
	1									3			
	158L	65	2"	5.8	F-G					5			
	1									3			
	1									3			
	1385	50		7.0	F-G					6			
	1									3			
	0									1			
	1									3			
	148L	60		6	F-G					4			
	1									3			
	1									3			
	148L	60	3"	6	F-G					5			
	1									3			

119 pg #3 Fri/Sat.

Date 1997 Oct. 10/11 Observers *his/Vud/Tn*

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE14733	Comp							ThAr	1
34	HD201078	210218	+304701	220017					M76
35	Comp							"	1
36	BIAS 147			22:20					0
37	Comp							"	1
38	HD203156	211523	374855	222502					1249
39	Comp							"	1
40	Comp							"	1
41	HD 213307	222524	575300	225103	<i>elitel new</i> ✓				600
42	Comp							"	1
43	Comp							"	1
44	HD 17463	024303	+682827	230852					149230
45	Comp							"	1
46	BIAS (A)			23 35					0
47	Comp							"	1

CCO
Spectr. Temp.
Focus
CCO
Spectr. Temp.

Exp. Mtr. Se

1320V

62 2-

55

22

5 3

CCD
Spectr. Temp. -100.0°C

Dome Temp./Hum. $+8.8^{\circ}\text{C}$ 69.9%RH

Transparency Conditions *Mostly clear* (20)

Focus 230

CCD
Spectr. Temp. -100.2°C

Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Pig. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Ar	1	1320V				Echelle 19.95	0300h	90u	6300A	3			
M6		62	2-3"	5.9	F-G					6			
	1									3			
	0									1			
	1									3			
649		55		5.8	F-G					4			
	1									3			
	1									3			
600		72		4	F-G					4		wrong time in fly header! corrected.	
	1									3			
	1									3			
1000		53	3"	6	F-G					5			
	1									3			
	0									1			
	1									3			
										4			

12) Pg# 4

Date ... 1997 Oct 10/11. Observers ... Kis / Vnk / J.Tn

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.	Exp. Nr.	Sec
CE14748	HD2207	00 20 54	+50 43 00	23 41 28					1800	13201	3
49	Comp							Tl Ar	1	9	
50	Comp							"	1		
51	(h) Vesta	01 51 20	-01 06 00	00 17 43					1800	57	
52	Comp							"	1		
53	BIASS(4)			00 49					0		
54	Comp							Tl Ar	1		
55	HD29260	04 31 24	+18 20 00	01 05 20					1514	19	3
56	Comp							"	1		
57	Comp							"	1		
58	HD30282	04 41 06	+36 32 00	01 36 17					1800	12	
59	Comp							"	1		
60	BIASS(4)			02:07					0		
61	Comp							"	1		
62	HD32456	04 58 18	+55 13 00	02 15 02					1812	10	4
63	Comp							"	1		

Spectr. Temp.

Dome Temp./Hum.

Transparency Conditions *Fine* 122Focus *1230*

Spectr. Temp.

Dome Temp./Hum. *+8.0°C 70.2%RH*

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1800	1320V H0	3"	7.8		<i>Eckelle</i> 19.45		<i>90u</i> 300u	6300A	6			
	1									3			
	1									3			
	1800	57		6.4	G2					4		↓ -00 00 02 @ start S -00 02 33	
	1									3			
	0									1			
	1									3		After Topup	
	1545	19	3.3"	6.4	F-G					2			
	1									3			
	1									3			
	1800	13		7.0	F-G					4			
	1									3			
	0									1			
	1									3			
	1815	10	4"	7.5	F-G					5			
	1									3			

↓ Exposure meter Finally Balanced before this exposure,

123
Pg # 5

Date 1997. Oct. 10/11. Observers Kis/VuR/Tu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE14764	Comp							thtr	1
65	HD 56167	071054	+695200	025224					2061
66	Comp							"	1
67	BIAS(4)			0329					0
68	Comp							"	1
69	HD 40457	055348	+351900	033508					1779
70	Comp							"	1
71	Comp							"	1
72	HD 44990	061949	+070825	041206					1812
73	Comp							"	1
74	BIAS(4)			0444					0
75	Comp							"	1
76	HD 52973	065811	+204302	044858					631
77	Comp							"	1

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr. Se

Spectr. Temp. Dome Temp./Hum. 18°C 70.3% H Transparency Conditions ... Five ... 124

Focus 230

Spectr. Temp. Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag. <input checked="" type="checkbox"/>	Sp.	Inst.	Grating/ X Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1						Echelle	3000/mm	90u	6300A	3			
2061		8	3"	8.5	C					6			2 450
1										3			
0										1			
1										3			
1320		9	3"	8	F-G					4			2 500
1										3			
1										3			
1802		51	3"	7	F-G					2	T man		72K
1										3			
0										1			
1										3			
631		72								2			3K
1										3			

125 pg #6

Date 1997 Oct 16/11 Observers ... Vn. K. / Kis. / Jn.

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
014778	Comp							ThAr	1
79	HD 45412	062208	+303318	050409					1774
80	Comp							"	1
81	BTHS (4)			0535					0

Spectr. Temp.
Focus.....
Spectr. Temp.....

Exp. Mtr. Se

17 3

8

33

127 p9#1

SAT/SUN

Emulsion Batches:

Date .. 1997. Oct. 11/12. Observers .. Kis./Vak./Tn.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
cel 78/83	Inh/omit							T/Ar	15/9
84	B/H5(4)			18 37					0
85	Comp							T/Ar	1
86	HD 187929	194723	+004456	18 41 56					500
87	Comp							"	1
88	Comp							"	1
89	HD 163506	175123	+260357	18 54 25					1200
90	Comp * Only for next star							"	1
91	HD 176155	18 53 48	+1713 35	19 19 47					1200
92	Comp							"	1
93	B/H5(4)			19 41					0
94	Comp							"	15
95	HD 177724	19 00 49	+13 40 53	19 44 50					302
96	Comp							"	15
97	Comp							"	15

 (C)
 Spectr. Temp.
 Focus...
 Spectr. Temp.

Exp. Nr. Se

1370V
10.5/12

6.3K

82

41

58

6.1K

99

Spectr. Temp. ^{CO₂} -100.1°C Dome Temp./Hum. +11.6°C 58%^H Transparency Conditions *mostly clear* 128

Focus ... 230

Spectr. Temp. Dome Temp./Hum.

n 174X

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1/5/9		1320V no filter				Edolle -1945	.5830 .5835	90u 300u <i>changed to right</i>		1/2		0 0 128 1024 8 1	
0							.5835	90u = 265 300u = 1235		1		0 0 256 1024 4 1	
1		6.3K								3			10K
500		82	2'	4	F-G					2			2.7K
1										3			
1										3			
1200		46	2.3'	5.5	F2					4			1.1K
1										3			85K
1200		58	2.3'	5.7	F-G					5			2.1K
1		6.1K								3			9K
0										1			
1/5										3			
302		99		2.99	A0					2	Telluric Std		2.2K
1/5										3			
1/5										3			

129 pg#2

SAT/SUN

Emulsion Batches:

Date 1997 Oct 11/12 Observers K.S./Vnk./Tn.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
ce14798	HD187691	19 4614	+10 0955	19 5342					1000
99	Comp							THA	1s
800	Comp							L	1s
01	HD 1188727	19 5129	+16 2211	20 1354					1200s
02	Comp							"	1s
03	Comp							"	1s
04	HD 203467	21 1718	+64 2652	20 3921					1000
05	Comp							"	1s
06	BIAS (4)			20 58					0
07	Comp							"	1s
08	HD 197577	20 3929	+35 1738	21 2419					1200
09	Comp							"	1s
10	Comp							"	1
11	HD 187796	19 4643	+32 3940	21:4919					500
12	Comp							"	1

Exp. Mtr. 1320V

Spectr. Temp.

Spectr. Temp.

Exp. Mtr. 1320V

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp.

Spectr. Temp. ^{CO} -101.5°C... Dome Temp./Hum. 709.2°C 6245H Transparency Conditions .. Fine..... 130..

Focus 230.....

Spectr. Temp. ^{CO} -101.3°C... Dome Temp./Hum.

Comparison Date	Exp.	Exp. Mtr.	Seeing	Mag. Mag.	Sp.	Inst.	Grating/ Tilt X	Slit	Emulsion	P.H.	Program	Remarks	Quality
		1320V				Echelle	300h						
1000		54	2"	5.11	F8	19.45	5835 W H	30u 300u	6300A	5ci	std vel		
1/5										3			
1/5										3			9.2K
1000		55		5.6	F-6					6			
1/5										3			
1/5										3			
1000		53	2.3"	5	B					4			
1/5										3			
0										1			
1/5										3			
1/5		23	2"	6	F8					24	Planetary nebulae	Top of dome, exposure	
1/5										3			
1										3			
1000		57	3"	5	M					5		H _α em	66K
1										3			

13/pg#3

SHT/SUN

Emulsion Batches:

Date 1997 Oct 11/12 Observers KIS/Tn.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE14813	Comp							T37	15
14	HD198726	20 4713	+275232	22 04 29					1508
15	Comp							"	15
16	BIAS(A)			22 31					0
17	Comp							"	15
18	HD 201078	21 0218	+304701	22 34 46					
19	Comp							"	15
20	Comp							"	15
21	HD 203156	21 15 23	+374855	23 04 45					1501
22	Comp							"	15
23	Comp							"	1
24	HD 203307	22 25 24	575300	23 31 35					600
25	Comp							"	1
26	BIAS(L)			23 47					0
27	Comp							"	1

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.

See

40 34

40 34

35

68

9k

Spectr. Temp. Dome Temp./Hum. $+7.5^{\circ}\text{C}$ $72\% \text{H}$ Transparency Conditions *Purely Cloudy* 1.32

Focus 1230

Spectr. Temp. Dome Temp./Hum. ∞

Comparison / Filter	Exp.	Exp. Mtr.	Seeing	P. Mag.	Sp.	Inst.	Grating / Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1/5					19.45	0300H	90u 300u	6300A	3			
	1/5	40	3-4"	5.8	F-G					4			1.2K
	1/5									3			
	0									1			
	1/5									3			
		40	3"	5.8	F-G					2			1.2K
	1/5									3			9.2K
	1/5									3			
	1/5	35		5.9	F-G					4			
	1/5									3			
	1									3			
	600	68		4	F-G					5			3K
	1									3			
	0									1			
	1	6.9K								3			7.9K

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SAT/SUN

Emulsion Batches:

Date 1997 Oct 11/12... Observers Kis/Vnk/Tb.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp
ce14828	HD17463	024303	+682827	23 5404					1719
29	Comp							ThA	1s
30	Comp							"	1
31	HD 2207	00 2054	+50 4300	00 2748					1815
32	Comp							"	1
33	BIAS(4)			01 0007					0
34	Comp							"	1
35	HD 30282	044106	+36 3200	01 0535					1715
36	Comp							"	1
37	Comp							"	1
38	HD 29260	043124	+18 2000	01 3755					1500
39	Comp							"	1
40	BIAS(4)			02 04					0
41	Comp							"	1
42	HD 45412	012208	+30 3318	02 1100					1600
43	Comp							"	1

CCD
Spectr. Temp.

Focus... 12

Spectr. Temp.

Exp. Mtr.

Sec

42

8 3

10 34

8 234

8 234

8 234

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8 234

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CCD Spectr. Temp. -100.2°C Dome Temp./Hum. 17.5°C 74.7% H Transparency Conditions \dots 1.34

Focus $\dots 1230 \dots$

Spectr. Temp. \dots Dome Temp./Hum. \dots

Comp. e/Filter	Exp	Exp. Mtr.	Seeing	P. Mag.	Sp.	Inst.	Grating/ x Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
		1320V											
	1/1	47	2-3"	6.2	F-G	1945	.5835	90u 300u	6300A	6e1			
	1/1									3			
	1/1									3			
	1/1	8	3" 8.0	F-G						4			~ 40
	1/1									3			
	1/1									1			
	1/1									3			
	1/1	10	3-4"	7.0	FG					2			660
	1/1									3			
	1/1									3			
	1/1	18	2-3"	6.4	F-G					4			750 650
	1/1									3			
	1/1									1			
	1/1									3			
	1/1	31		6	FG					2			122
	1/1									3			

pg # 5 135

Date 1997 Oct. 11/12 Observers Kis/Vuk/Tu

Emulsion Batches:

.....

Plate No.	Object	R. A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE 148 44	Comp							Plat 1	
45	HD 44950	06 1949	+07 0825	02 3551					
46	Comp							" 1	
47	Comp							" 1	
48	HD 32456	04 5818	+55 1300	03 1041					1648
49	Comp							" 1	
50	BIAS (4)			03 40					0
51	Comp							" 1	
52	HD 52973	06 5811	+20 4302	03 4622					480
53	Comp							" 1	
54/60	FLATS x 7							TUNG	135
61	BIAS (4)			04 06					

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.

Se

14 3

19 2

Spectr. Temp. Dome Temp./Hum. $+6.4^{\circ}\text{C}$ $21\%H$ Transparency Conditions *cloudy to clear*.....
 Focus *230*
 Spectr. Temp. Dome Temp./Hum.

136

Comparison Filter/Exp.	Exp. Mtr.	Seeing	Mag. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
					<i>Echelle 19.45</i>			<i>6300F</i>	<i>3</i>			
		<i>3"</i>	<i>6.5</i>	<i>F-6</i>					<i>4</i>			
<i>1</i>	<i>1</i>								<i>3</i>			
									<i>3</i>			
<i>16/8</i>	<i>14</i>	<i>3"</i>	<i>7.5</i>	<i>F-6</i>					<i>5</i>			
<i>2</i>	<i>1</i>								<i>3</i>			
									<i>1</i>			
<i>1</i>									<i>3</i>			
<i>30</i>	<i>79</i>	<i>2.5"</i>	<i>4</i>	<i>F-6</i>					<i>6</i>			
<i>1</i>									<i>3</i>			
<i>16</i>	<i>13</i>							<i>H=350u=230</i>	<i>2</i>			
									<i>1</i>			

137 pg# 1

Sun/Mon

Date ..1997.. Oct 12/13... Observers ...Kis/Vnk/Tr.....

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE148 ^{62/63}	Inboard / outboard							ThAr	15/1.2
64	BIAS(4)			1823					
65	Comp							ThAr	1s
66	HD 187929	19 4723	+00 44 56	18 3153					490
67	Comp							"	1s
68	Comp							"	1s
69	HD 18727	19 5129	+16 22 11	18 4406					Mag
70	Comp							"	1s
71	comp							"	1
72	HD 176155	18 5348	+17 13 35	19:0743					1200
73	Comp							"	1
74	BIAS[4]			19 29					0
75	Comp							"	1s
76	HD 177724	19 0049	+13 42 53	19 3213					216
77	Comp							"	1s

CCD
Spectr. Temp.
Focus...?
Spectr. Temp.

Exp. Mtr. Se

62

4K

62

4K

50

6

2

60

2"

CCD
Spectr. Temp. -101.3°C

Dome Temp./Hum. $+13^{\circ}\text{C}$ 7500H.....

Transparency Conditions *increasing cloud*.....

Focus *237*.....

138

Spectr. Temp.

Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/ X Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	15/12	1370V				Echelle 19.45	.5835	90u 350	6300P	1/2			
							W = 90u H = 300u			1			
	1s									3			7K
	490	62	2"	4	F-G					2			2K
	1s	4K								3			9.5K
	1s									3			
	1/10	50		5.7	F-G					4			1.4K
	1s									3			
	1									3			
	1200	46	2"	6.0	F-G					5			1.4K
	1									3			
	0									1			
	1									3			
	216	80	2"	2	A					2	Telluric Std		1.5K
	1									3			

139 pg #2

Sun / Mon

Date 1997 Oct 12/13 Observers Wis. I.T.

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE14878	Comp							PhAr	1s
79	HD 187691	19 46 14	+10 09 55	19:39:40					906
80	Comp							"	1s
81	Comp							x	1s
82	HD 197572	20 39 29	+35 13 38	19 58 42					1806
83	Comp							"	1s
84	B/H S(A)			20 30					0
85	Comp							"	1s
86	HD 17463	02 43 03	+68 26 27	20 40 28					1600
87	Comp							"	1s
88	Comp							"	1s
89	HD 187921	19 47 24	+27 12 00	21 14 06					1800
90	Comp							"	1s
91	B/H S(A)			21 46					0
92	Comp		LOST	in CRASH				"	1

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.

Spectr. Temp. -99.6°C Dome Temp./Hum. 11.5°C $84.0\% \text{H}$ Transparency Conditions OK for noon 140

Focus 232

Spectr. Temp. -100.0°C Dome Temp./Hum. 10.5°C $84.4\% \text{H}$

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Pg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
						Tilt							
Ar	1/3					Edolie 19.45	0300m W 15835 H	90u = 1265 300u	6300A	3			
	908	52		5	F					6			
	1/5									3			9K
	1/5									3			
1808		31	2"	6.2	F-G					4			
	1/5									3			
	0									1			
	1/5									3			
1600		44	2-3	6						2		Part cloudy	1.4K
	1/5									3			
	1/5									3			9.5K
1800		31	2"-5"	7.0	F-G					5			
4	1/5									3			8.4K
	0									1			
	1									3			

141 pg # 3

Sun/Mon

Date 1997 Oct 12/13... Observers ... Kis/Tm.....

Emulsion Batches:

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.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
Ce14893	HD 198726	20 4713	+27 5232	21 5256					1500
94	Comp							ThAr	1s
95	Comp							"	1s
96	HD 203156	21 1523	+37 4855	22 2211					1498
97	Comp							"	1s
98	Comp							"	1s
99	HD 201078	21 0218	+30 4701	22 5156					1492
900	Comp							"	1s
901	BIAS(A)			23 18					0
902	Comp							"	1s
03	HD 213307	22 2824	+57 5300	23 2246					589
04	Comp							"	1s
05	Comp							"	1s
06	HD 212466	22 1924	+55 2800	23 3622					1297
07	Comp							"	1s

Spectr. Temp

Focus... 12

Spectr. Temp

Exp. Mtr.

39

34

37

61

14

Spectr. Temp.

Dome Temp./Hum.

Transparency Conditions ... *Some cloud*Focus ... *1232**142*

Spectr. Temp.

Dome Temp./Hum.

CD

Comparison Filtered Exp.	Exp. Mtr.	Seeing	Pg Mag.	Sp.	Inst.	Grating/ x Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	<i>1320V</i>				<i>Echelle</i>							
<i>1500</i>	<i>39</i>	<i>3.4"</i>	<i>5.8</i>	<i>F-G</i>	<i>CAS 500</i> <i>19.45</i>	<i>0300</i>	<i>90u 300u</i>	<i>6300A</i>	<i>1c</i>	<i>#</i>	<i>Reset series 205 And depths</i>	<i>1K</i>
<i>15</i>									<i>2</i>		<i>My error for typing too much into buffer</i>	<i>9K</i>
<i>15</i>									<i>3</i>			
<i>149</i>	<i>34</i>	<i>3.4</i>							<i>2</i>			<i>1K</i>
<i>15</i>									<i>3</i>			
<i>15</i>									<i>3</i>			
<i>1492</i>	<i>37</i>	<i>3"</i>	<i>5.9</i>	<i>F-G</i>					<i>4</i>			
<i>15</i>									<i>3</i>			
<i>0</i>									<i>1</i>			
<i>15</i>									<i>3</i>			
<i>59</i>	<i>51</i>		<i>4</i>	<i>F-G</i>					<i>2</i>			<i>2K</i>
<i>15</i>									<i>3</i>			
<i>15</i>									<i>3</i>			
<i>1297</i>	<i>19</i>	<i>3"</i>	<i>6.6</i>	<i>K</i>					<i>5</i>			
<i>15</i>									<i>3</i>			

143 p#4

Sun/mon

Emulsion Batches:

Date 1997 Oct 12/13.... Observers Kie/Tw.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
ce14908	Comp							ThA	1s
909	HD 29260	04 3124	18 20 00	00 0335					1305
910	Comp							n	1s
911	BIAS(A)			00 27					0
917/17	FLATS x 7							TUNG	1.3s
18	BIAS(A)			00 55				0	1.3s
ce14919	Comp							ThA	1s
20	HD 449910	06 1949	+07 08 25	01 1307					
21	Comp							n	1s
22	Comp							n	1s
23	HD 45412	06 2208	+30 33 18	01 4912					1526
24	Comp							n	1s
25	BIAS(A)			02 16					0

Spectr. Temp

Focus.....

Spectr. Temp

Exp. Mtr.

S

6

120 150

Using 100+

6

26

Spectr. Temp. Dome Temp./Hum. 10.2°C 84%RH Transparency Conditions .. Clouding .. 144

Focus 232

Spectr. Temp. Dome Temp./Hum.

0 0 256 1024 4 1 CCD FMT

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
L 1s				1945	X 15835	90u 300u		3			
1305	6	3'						6		cloud found	
1s								3			
0								1			
135								1			
100 f scale								1			
350u = .230								1			
using 100 f scale								1			
								3			
H = 300u = .235								3			
6	3-5"	65	FG					5		some cloud ~ 700	
1s								3		bc	
1s								3			
152A	26							4			12K
1s								3			
0								1			

145
266 #1

Date 1997 Oct 13/14

Observers

Vnk/Kiss/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CE14926	Inboard/Outboard							ThAr	1.5/10
28	BIAS(4)			18 49					
29	comp							"	1
30	HD 213307	22 25 24	57 53 00	18 57 23					540
31	comp							"	1
32	comp							"	1
33	HD 157572	20 35 29	35 13 38	19:1242					1800
34	comp							"	1
35	comp							"	1
36	HD 187929	19 47 23	00 44 56	19 46 51					598
37	comp							"	1
38	comp							"	1
39	HD 176155	18 53 48	11 7 35	20 01 51					1492
40	comp							"	1
41	BIAS(6)			20 29					0

LCD

Spectr. Temp

Focus....

Spectr. Temp

Exp. Mtr.

S

24

30

31

CCD

Spectr. Temp. -100.1°C

Dome Temp./Hum. $15.9^{\circ}\text{C}/86\%$

Transparency Conditions *partly clear* 146

Focus $\cdot 232$

Spectr. Temp.

Dome Temp./Hum. 00 256 1024 4 1 CCD FMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
r	1/10					19.45	5835	90μ 300μ	6300	1/2			
										1			
										3			
		540	68	3"	4	F-G				4			
										3			
										3			
		1800	27		6.6	F-G				5			
										3			
										3			
		578	60		4	F-G				6			
										3			
										3			
		1492	31		6	F-G				2			
										3			
										1			

PG#2 147

Date 1997 Oct 13/14

Observers Vnk/Kiss/Le

Emulsion Batches:

.....

CCD
 Spectr. Temp.
 Focus.....
 Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE14942	comp							Th-Ar	1 _s
43	HD187691	19 46 14	10 09 55	20 33 13					1224
44	comp							"	1
45	comp							"	1
46	HD188727	19 51 29	16 22 11	20 56 52					1500
47	comp							"	1
48	BLAS(4)			21 23					0
49	comp							"	1
50	HD187921	19 47 24	27 12 00	21 27 23					1500
51	comp							"	1
52	comp							"	1
53	HD203156	21 15 23	+37 48 55	21 56 43					1800
54	comp							"	1
55	comp							"	1
56	HD198726	20 47 13	27 52 32	22 25 43					1500
57	comp								

Exp. Mtr. See

37 3"

30

8

22

24

CCD Spectr. Temp. -100.2°C

Dome Temp./Hum. $157.3^{\circ}\text{C} / 88.8\%$

Transparency Conditions *haze* 108

Focus

Spectr. Temp.

Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Fig. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Ar	1/5					19.45	15835	90 μ 300 μ	6300	3			
	1/20	37	3"	5	F8					4			
	1									3			
	1									3			
1500		30		6	F-G					5			
	1									3			
	0									1			
	1									3			
1500		8		7.5	F-G					6			
	1									3			
	1									3			
1500		22		5.8	F-G					4			
	1									3			
	1									3			
1500		29		5.6	F-G					5			
										3			

149 PG #3

Date 1997 Oct 13/14

Observers

Vnk/K13/Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE14958	BIAS(4)			22 52					
59	comp							Th Ar	1s
60	HD201078	21 02 18	30 47 01	22 56 45					897
61	Comp							"	1
62/68	flats							Tung	1.3s
69	BIAS(4)			23 33					
70	comp							Th Ar	1s
71	HD213307	22 25 24	57 53 00	23 50 58					420
72	comp							"	1s
73	comp							"	1
74	HD212466	22 15 24	+55 28 00	00 03 47					1318
75	Comp							"	1
76	BIAS(4)			00 28					0

CCD
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. See

Tscale=10

Tscale=10

50 4"

1:

CCD Spectr. Temp. -100.2°C Dome Temp./Hum. $15.2^{\circ}\text{C}/88.5\%$ Transparency Conditions *clear* 150

Focus Spectr. Temp. Dome Temp./Hum.

Comparison / Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
						19.45'	.5835	90μ 300μ	6300	1			
Ar	1s									3			
	7		5.8	F-G						6		cloudy	~700 mag
	1									3			
ing	1.3s	Tscale=100						90μ 350μ		2			105K
										1			
Ar	1s	Tscale=1000								3			
	4.2	50	4"	4	F-G					4		clear up again	26K
	1s									3			
	1									3			
	13.8	7:	6.6	G						5			~600
	1									3			
	0									1			

151

Tues / wed

Date ... 1997 Oct 14/15 .. Observers ... Kis / In ..

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
ce149 77/78	Inb/out							ThAr	13/7
79	BIAS (A)			23 24 17					
80	Comp							ThAr	1
81	H0157572	20 39 29	+35 13 38	23 31 05					1120
82	Comp							"	1
83	Comp							"	1
84	H0 203156	21 15 23	+37 48 55	23 56 44					1500
85	Comp							"	1
86	Comp							"	"
87	H0 203156	"	"	00 27 02					682
88	Comp							"	"
89	BIAS (A)			00 40					D
90/96	FLATS x 7							Tung	1035

CCD
 Spectr. Temp.
 Focus ... 2
 Spectr. Temp.

Exp. Mtr. Se

13 f

22

7 f

CCD
Spectr. Temp. ... -100.3°C ...

Dome Temp./Hum. +11.0°C 51.7%RH

Transparency Conditions ... Clearing Test ... 152

Focus ... 230 ...

Clouding in Fast too,

Spectr. Temp.

Dome Temp./Hum. ... +08.4°C 55.2%RH

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ X Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	13/7					Echelle 19.45	0300 1/2mm +5835	90u W 350u H		1/2	focus test	0 0 128 1024 8 1	
										1		0 0 256 1024 4 1	
	1									3	Note =	Although Hartmann mask 66K	
	120	13	4.6"	6.6	F-G					4		was done after Hartmann	300!
	1									3		test; It apparently was still	
	1									3		blackening signal till it was	
										3		re home for exp #CE14986.	
	500	27		5.8	F-G					5			~200
	1									3			7K
	1									3		Redone after rekeying	11.3K
	65	7	4.6"	5.8	F-G					6		HARTMANN MASK	~300
	"									3			11K
	0									1			
	1/35									3			11.5K

PG #1

Wed/Thurs

153 1997 Oct 15/16

Vnk/K13/Lu

Date Observers

Emulsion Batches:

.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CE14997	BIAS(4)			21 30					
98	comp							ThAr	1s
99	HD187929	19 47 23	00 44 56	21 37 51					600
14500	comp							"	1s
01	comp							"	1s
02	HD188727	19 51 29	16 22 11	21 52 20					1200
03	comp							"	1
04	comp							"	1
05	HD197572	20 39 29	35 13 38	22 16 59					1700
06	comp							"	1
07	BIAS(4)			22 46					0
08	comp							"	1
09	HD 203156	21 15 23	37 48 55	22 50 41					1200
10	comp							"	1
11	comp							"	1
12	HD213307	22 25 24	57 53 00	23 15 44					1

Spectr. Temp.

Focus.....?

Spectr. Temp.

Exp. Mtr. Se

Spectr. Temp. -100.5°C Dome Temp./Hum. $7.8^{\circ}\text{C}/64.5\%$ Transparency Conditions *partly clear*
 Focus 227
 Spectr. Temp. Dome Temp./Hum. 00256102441 CCD/FMT 154

Comparison Filtered Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
					19.45	.5835	90 μ 300 μ	6300	1			
Ar	1s								3			
	600	42	3-4	h	F-G				4	CEP.		
	1s								3			
	1s								3			
	1200	24	6.5	F-G					5			
	1								3			
	1								3			
	1700	18	6.6	F-G					6			
	1								3			
	0								1			
	1								3			
	1200	24	5.8	F-G					h			
	1								3			
	1								3			
			4	F-G					5			

Pg 2

155
Date 1997 Oct 15/16 Observers Vnk/K13/Lu

Emulsion Batches:

.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE15013	comp							ThAr	1
14	comp							"	1
15	HD 210745	22 07 23	57 42 30	23 27 12					300
16	comp							"	1
17	comp							"	
18	HD 224014	23 49 23	56 56 35	23 36 36					600
19	comp							"	1
20	BIAS(4)			23 48					0
21	comp							"	1
22	HD 17463	02 43 03	+ 68 28 27	23 54 59					1800
23	comp							"	1
24	comp							"	1
25	HD 29260	04 31 24	18 20 00	00 33 05					1800
26	comp							"	1
27	BIAS(4)			01 05					0

CO
Spectr. Temp
Focus.....
Spectr. Temp

Exp. Mtr. Se

59

40

22

11

CCD
Spectr. Temp. -100.3°C

Dome Temp./Hum. $6.8^{\circ}\text{C}/69\%$

Transparency Conditions ~~Clear~~ thin clouds 156

Focus 227

Spectr. Temp.

Dome Temp./Hum.

00256 1024 4 1 CCD/FMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1					19.45	.5835	90μ 300μ	6300	3			
	1									3			
	300	59		3.5	K1					6	CEP		
	1									3			
										3			
	600	46		4.5	G					4			
	1									3			
	0									1			
	1									3			
	1600	22		6.1	F-G					5			
	1									3			
	1									3			
	150	11		6.3	F-G					6			
	1									5			
	0									1			

Pg 3
 157 1997 Oct 15/16
 Date Observers Vnk/Kis/Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE15028	comp							Th Ar	1s
29	HD 32456	04 58 18	55 13 00	01 22 10					1800
30	comp							"	1
31	comp							"	1
32	HD 30282	04 41 06	+36 32 00	01 58 16					1811
33	comp							"	1
34	BIAS(4)			02 30				"	0
35/41	flats							Tung	1.3s
42	comp							Th Ar	1s
43	HD 45412	06 22 08	30 33 18	02 54 50					1800
44	comp							"	1s
45	comp							"	7s
46	HD 52943	06 58 11	20 43 02	03 31 38					1280
47	comp							"	1
48	BIAS(4)			03 55					0

CCD
 Spectr. Temp.
 Focus.....
 Spectr. Temp.

Exp. Mtr. Se

1?

0

+scale 10

+scale 10

1?

42

CCO
Spectr. Temp. -100.2° C

Dome Temp./Hum. 6.0°/70.8%

Transparency Conditions... Thin clouds
158

Focus... 0.227

Spectr. Temp.

Dome Temp./Hum.

0 0 256 1024 4 1 CCD FMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag. <input checked="" type="checkbox"/>	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Ar	1s					19.45	.5835	90 μ 300 μ	6300	3			
	1800	1?	3-4"							4			
	1									3			
	1									3			
	1811	0		7.5	F-G					5			
	1									3			
	0							90 μ 300 μ		1			
	7.35	+scale 100						90 μ 350 μ		2			
Ar	1s	+scale 1000		6	F-G			90 μ 300 μ		3			
	1800	1?		↑	↓					6		through clouds fairly heavy.	
	1s									3			
	7.5									3			
	1280	42		4	F-G					4		through fairly heavy clouds	
	1									3			
	0									1			

PG 4
159

Date 1997 Oct 15/16

Observers

Vnk/Kis/Lu

Emulsion Batches:

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.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE15049	comp							ThAr	1s
50	HD44990	06 19 49	07 08 25	04 01 44					1800
51	comp							"	1s
52	BIAS(4)			04 33					

CCD
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. Se

13

161 PG1 Thurs/Fri

Date 1997 Oct 16/17

Observers Vnk/Krs/Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CE15053/54	Inboard/outboard							Th Ar	1.5/1.0 S
55	BIAS(4)			22 28					
56	comp							"	1 S
57	HD 213307	22 25 24	57 34 15	22 34 15					1500
58	comp							"	1 S
59	comp							"	1 S
60	HD 203156	21 15 23	37 48 55	23 06 00					1648
61	comp							"	1 S
62	BIAS(4)			23 35					0
63	comp							"	1 S
64	HD 198726	20 47 13	27 52 32	23 40 08					350
65	comp							"	1 S
66	comp							"	1 S
67	HD 29260	04 31 24	18 20 00	23 54 32					1793
68	comp							"	

CCD Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.

Se

CCO
Spectr. Temp. ... -101.3 °C ...

Dome Temp./Hum. ... 7.8 °C / 56.7 %

Transparency Conditions ... partly clear.

Focus ... 22.7

Spectr. Temp.

Dome Temp./Hum.

0 0 256 1024 4 1 CCDMT

162

Comparison Filter	Exp.	Seeing	Fig. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1.5/1.0				19.45	0.5855	90 μ 300 μ	6300	1/2			
									1			
	1.5								3			
	1500	12	2-3"	4	F-G				4	CEP	-through clouds	
	1.5								3			
	1.5								3			
	1648	20		5.8	F-G				5		through clouds	
	1.5								3			
	0								1			
	1.5								3			
	350	1		5.8	F-G				6		readout early due to clouds	
	1.5								3			
	1.5								3			
	1795			6.3	F-G				4			

PG # 2 163

Date 1997 Oct 16/17 Observers Vuk / Kis / Lu

Emulsion Batches:

.....

Spectr. Temp.

Focus.....?

Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CE 15069	BIAS(4)			00:29					
70	comp							TLAR	
71	HD 45412	6:22:08	30:33:18	00:31:10	00:48:40				1040
72	comp								
73	BIAS (4)			01 06					
74/80	flats							Tung	1.3s

Exp. Mtr. See

7

(Tscale =)

PG 1 165 Fri/Sat.

Date 1997 Oct 17/18

Observers MKit / Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49140/41	Inboard/outboard							RAY ND 3	4/7
42	BIAS(4)			18 34					0
43	comp							"	4
44	HD 213014	22 23 24	16 46 00	18 45 55					124
45	"			18 50 20					600
46	comp							"	4
47	comp							"	4
48	HD 222994	23 40 36	24 55 00	19 15 52					800
49	"	"	"	19 30 20					800
50	comp							"	4
51	HD 222994	"	"	19 45 43					799
	no								800
52	Bias(4)			20 13					
53	Comp.								
54	HD 222994	"	"	20 16 46					800

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mir. Sec

HV=1

6K

HV=1

2860

795 2"

925

965

126

Spectr. Temp. -100.6°C Dome Temp./Hum. $815^{\circ}\text{C}/51.4\%$ Transparency Conditions fine 166
 Focus 6.80
 Spectr. Temp. Dome Temp./Hum. 400 0 50 1024 4 1 CCD/FMT

Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4					CASS	1800/mm			1/2			
3					CCD	47.06	306	5185	1/2			
0									1			
4									3			
124	6K								4	std vel		
600	2560								5	"		
4									6			
4									7			
800	795	2"	9.5	?					8	W UMa star,		
800	925		"						9			
4									10			
799	965		"						8	-resist.		
									7	400 0 50 1024 4 1 CCD/FMT		
										CRASH. (Typo bug!)		
										400 0 50 1024 4 1		
									2			
800	926		"						3			

PG 2 167

Date 1997 Oct 17/18

Observers MKi+ / Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CL49155	HD 222994	23 40 36	24 55 00	20 30 51					800
56	comp							FeAr ND 3	4s
57	HD 222994	"	"	20 46 13					800
58	"	"	"	20 59 56					800
59	comp							"	4
60	BIAS(4)			29 14					0
61	HD 222994	"	"	21 15 38					800
62	"	"	"	21 29 26					800
63	comp							"	4s
64	HD 222994	"	"	21 44 20					805
65	"	"	"	21 58 15					800
66	comp							"	4
67	BIAS(4)			22 13					0
68	HD 222994	"	"	22 14 41					800
69	"	"	"	22 28 27					800
70	comp							"	4

CCO
 Spectr. Temp.
 Focus.....
 Spectr. Temp.

Exp. Mir. Se

953 2

1066

1138

963 5

847

1010 2

1070

1180

163

CCO
 Spectr. Temp. -100.5°C Dome Temp./Hum. $6.7^{\circ}\text{C}/62\%$ Transparency Conditions fine, cool 1.68
 Focus 6.80
 Spectr. Temp. Dome Temp./Hum. 400 0 50 1024 4 1 CCD/FMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	800	953	2"	9.5	?	CASS CCO	1800/mm 47.06	306 μ	5785	63 4	WUM ₂ star		
Ar	4s									5			
	800	1066		"						6			
	800	1138		"						7		3/N ~ 85	
	4									8			
	0									1			
	800	963	3'-4"	"						9			
	800	847		"						10			
	4s									11			
	805	1010	2-3	"						12			
	800	1070		"						13			
"	4									13			
	0									1			
	800	1180		"						14			
	800	1163		"						15			
"	4									15			

PG 3 169

Date 1997 Oct 17/18

Observers MKi+ / Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49171	HD 222994	23 40 36	24 55 00	22 43 34					800
72	"	"	"	22 57 21					800
73	Bias(4) comp							FeAr ND 3	4
74	BIAS(4)			23 12					0
75	comp							"	4
76	HD 222368	23 34 48	05 05 03	23 18 03					100
77	comp						FeAr ND 3	FeAr ND 4	4
78/ 87	flats							Tung ND 4	6
~~~~~ Vnk/K98 / Lu ~~~~~									
CC49188/89	Inboard/outboard							FeAr ND 3	4/7
90	BIAS(4)			23 53					
91	comp							"	4
92	HD 197572	20 39 29	35 13 38	00 01 43					480
93	comp							"	4
94	comp							"	4
95	HD 203156	21 15 23	37 48 55	00 19 35					300

CCO
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. Se

1177

1176

2K

FC

3000

5.1K

CCD
Spectr. Temp. -100.5°C

Dome Temp./Hum. 5.1°C/62.1%

Transparency Conditions Fine 170

Focus 5.80

Spectr. Temp. Dome Temp./Hum.

400 0 50 1024 4 1 CCD/FHT

Comparison / Filter / Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating / Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
800	1177	2"-3"	9.5	P	CASS CCD	1800/mm 47.06	306μ	5185	16	WUM star 1		
800	1176	"	"						17			
Ar D3									18			
0									1			
4									19			
100	9.2K		4.1	F7V					20			
4									21			
6									2			13.5K
Ar D3									3/4			
4									1			
4									5			
40	3000		6	F-G					6	CEP		
11									7			
11	5.1K		5.8	F-G					7			
30									8	CEP		

FOCUS 6.78

PG #4 171

Date 1997 Oct 17/18

Observers Vnk/Ksz/Lu

Emulsion Batches:

.....

CCD
 Spectr. Temp.
 Focus.....
 Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
cc49196	comp							FeAr ND 3	4
97	comp	(2000)						"	4
98	BD +29 4379	20 57 21	40 10 39	00 30 26					1400
99	comp							"	4
cc49200	BIAS(4)			00 55					0
01	comp							"	4s
02	HD 214975	22 36 54	56 19 00	01 01 24					600
03	comp							"	4s
04	comp							"	4
05	HD 213307	22 25 24	57 53 00	01 16 22					120
06	comp							"	4
07	comp							"	4
08	IX Cas	00 04 51	50 14 06	01 23 17					1800
09	comp							"	4
cc49210	BIAS(4)			01 55					

Exp. Mtr. Se

618

1280

10K

265

CCD
 Spectr. Temp. -100.2°C Dome Temp./Hum. $4.6^{\circ}\text{C}/62.7\%$ Transparency Conditions *fine* 172
 Focus 6.78
 Spectr. Temp. Dome Temp./Hum. $400 \cdot 50 \cdot 1024 \cdot 4 \cdot 1 \text{ CCD FMT}$

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	U					CASS	1800/mm		6600	9			
	U					CCD	56,35	306 μ		9			
	1400	618		10	F-G					10	CEP Vnr		
	4									11			
	0									1			
	4s									11			
	600	1280		8	F-G					12			
	4s									13			
	4									13			
	120	10K		4	F-G					14			
	4									15			
	4									15			
	180	265		11.5	F-G					16			
	4									17			
										1			

PK 5 173

Date 1997 Oct 17/18

Observers Vnk/Ksz/Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
cc49211	comp							FEAR ND 3	4
12	HD 236429	00 24 24	59 40 00	02 00 30					900
13	comp							"	4
14	comp							"	4
15	HD 25361	03 56 42	58 23 00	02 26 48					600
16	comp							"	4
17	comp							"	4
18	HD 32456	04 58 18	55 13 00	02 41 29					480
19	comp							"	4
20	BIAS(4)			02 50 40					0
21	comp							"	4
22	HD 56167	07 10 54	69 52 00	02 57 25					600
23	comp							"	4
24	comp								
25	HD 30282	04 41 06	36 32 00	03 15 44					1500
26	comp							"	4

CCD
 Spectr. Temp
 Focus.....
 Spectr. Temp

Exp. Mtr. S

1310 3

2376 2

2560

1265

1000

CCD
Spectr. Temp. -100.3°C

Dome Temp./Hum. $4.3^{\circ}\text{C}/64.5\%$

Transparency Conditions \dots fine \dots 1.74

Focus \dots 6.78 \dots

Spectr. Temp. \dots

Dome Temp./Hum. \dots

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	3	4				CASS CCD	1800/mm 56.35	306 μ	6600	18			
	900	1310	3"	8+1	F-G					19			
	4									20			
	4									20			
	600	2370	2"	8	F-G					21			
	4									22			
	4									22			
	480	2560		7.5	F-G					23			
	4									24			
	0									1			
	4									24			
	600	1265		8.3	C _a ⁺					25			
	4									26			
										26			
	1500	1000		7.5	F-G					27		— probably wrong *	
	4									28			

PG 6 175 Fri/Sat

Date 1997 Oct 17/18

Observers Vmk/Ksz/Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
cc49227	comp							FeAr ND 3	4
28	HD 29260	04 31 24	18 20 00	03 59 41					300
29	comp							"	4
30	BIAS(4)			04 06					0
31	comp							"	4
32	BD+3 601	04 24 33	04 07 24	04 13 53					900
33	comp							"	4
34	comp							"	4
35	HD 44990	06 19 49	07 08 25	04 33 14					300
36	comp							"	4
37	comp							"	4
38	HD 52610	06 56 48	-01 00 00	04 41 54					600
39	comp								4
40	comp								4
41	HD 62509	07 39 12	28 16 04	04 57 33					15
42	comp								4

.....
 Spectr. Temp
 Focus.....
 Spectr. Temp

Exp. Mtr. S

3.7K 2

610

5.1K

860

12k

~~CCD~~
 Spectr. Temp. -100, 2° C Dome Temp./Hum. 3,7° C / 66,8 % Transparency Conditions fine 176

Focus 6,78

Spectr. Temp. Dome Temp./Hum. 400 ° 50 1026 4.1

Comparison Filter Exp

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4				CASS CCD	1800 / 56,35	306 μ	6600	3			
300	3.7K	2"	6,5	F-G				4			
4								5			
0								1			
4								5			
900	610		9,4	A7				6			
4								7			
4								7			
300	5,1K		6,8	F-G				8			
4								9			
4								9			
600	860		?	?				10			
4								11			
4								12			
15	12k		1,14	K5 III				13			
4								14			

PG 7 177

Date 1997 Oct 17/18 Observers Van/Ksz/Lu

Emulsion Batches:

.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC 49243	comp							FeAr ND3	3
44	HD 52973	06 58 11	20 43 02	05 03 17					66
45	comp							"	4
46	comp							"	4
47	HD 65583	07 54 18	29 31 00	05 08 56					300
48	comp							"	4
49	BIAS(4)			05 15					0
50/56	flats							Tung ND45	6

KCS
Spectr. Temp.
Focus....
Spectr. Temp.

Exp. Mtr. S

10k

2556

CCD
Spectr. Temp. ... -100.2 °C

Dome Temp./Hum. ... 3.9.6/67.1

Transparency Conditions ... fine ... 12.8

Focus ... 6.78

Spectr. Temp.

Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4					CASS CCD	1800/mm 56,35	306	6600	15			
	66	10k		4	F-G					16			
	4									17			
	4									18			
	300	2556		7.0	dG7					19			
	4									20			
	0									1			
	6									3			12.5K

PG 179 Sat/Sun

Date 1997 Oct 18/19

Observers Mki+ / Lu

Emulsion Batches:

.....

60
 Spectr. Temp.
 Focus.....
 Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
cc49257 ₅₈	Inboard/outboard							FeAY ND 3	4/7
59	BIAS(4)			18 33					
60	BIAS(4)			18 34					
61	comp							"	4
62	HD 218014	22 23 24	16 46 00	18 42 37					480
63	comp							"	4
64	comp							"	4
65	HD 222994	23 40 36	24 55 00	18 57 08					800
66	"	"	"	19 11 26					800
67	comp							"	4
68	BIAS(4)			19 26					0
69	HD 222994	"	"	19 28 25					800
70	"	"	"	19 42 09					800
71	Comp.							"	4
72	BIAS(4)			19 58					0

Exp. Mtr. Sec.

2700 1"

1288 1"

1340

1760

1386

Spectr. Temp. ^{CCO} -100.3°C Dome Temp./Hum. 9.0°C/60.1% Transparency Conditions ... Fine 180

Focus 6.80

Spectr. Temp. Dome Temp./Hum.

400 0 50 1024 4 1 CCD FMT

Comparison / Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
43	4/7					CASS CCD	1800/mm 47.06	306 μ	5185	3/4			
										1			
										1			
	4									5			
	480	2700	1"	7.7	d48					6	std vel		
	4									7			
	4									7			
	800	1288	1"	9.5	F.5					8	WUMa star		
	800	1340								9			
	4									10			
	0									1			
	800	1360								11			
	800	1386								12			
	4									13			
	0									14			

Pg 2 18/

Date 1997 Oct 18/19

Observers Mki + / Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49273	HD 222994	23 40 36	24 55 00	20 00 13					800
74	"	"	"	20 14 01					800
75	comp							FeAr ND3	4
76	HD 222994	"	"	20 29 13					806
77	"	"	"	20 43 52					800
78	comp							"	4
79	BIAS(4)			20 59					0
80	HD 222994	"	"	21:00:17					800
81	"	"	"	21:15:14					800
82	comp	"	"					FeAr ND3	4
83	HD 222994	"	"	21:33:29					800
84	"	"	"	21 47 24					800
85	comp							"	4
86	BIAS(4)			22 02					0
87	HD 222994	"	"	22 03 34					800
88	"	"	"	22 17 17					821

CCO
Spectr. Temp.
Focus
Spectr. Temp.

Exp. Mtr. Se

1376

1365

1300

1320

85

27

006

741

933

020 177

CCD Spectr. Temp. -100.3°C Dome Temp./Hum. $8.4^{\circ}\text{C}/62.4\%$ Transparency Conditions fine 182.

Focus 6.80

Spectr. Temp. Dome Temp./Hum.

Comparison e/Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
800		1376	1"	9.5	FS	CASS CCD	1800 μm 47.06	306 μ	5185	14	W UMa star		
800		1365		"	"					15			
Ar 03	4									16			
806		1300		"	"					17			
800		1320		"	"					18			
"	4									19			
0										1			
800		1185		"	1					20			
800		1027		"	2					21			
Ar 03	4									22			
800		1006		"	1					23			
800		941		"	2					24			
"	4									25			
0										1			
800		973		"	2					26			
82		400950								27			

pg 3 183 Sat/Sun

Date 1997 Oct 18/19 Observers MK: + / Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC49289	comp							FeAr ND 3	4
90	HD 222994	23 40 36	24 55 00	22 33 16					800
91	"	"	"	22 47 01					806
92	BIAS(4) comp							"	4
93	BIAS(4)			23 01					0
94	HD 222994	"	"	23 02 54					800
95	"	"	"	23 16 52					800
96	comp							"	4
97	comp							"	4
98	HD 222368	23 34 48	05 05 03	23 36 52					87
99	comp							"	4
CC49300	BIAS(4)			23 40					0
30/ 310	flats							Tung ND#4	6

CCD
 Spectr. Temp
 Focus.....
 Spectr. Temp

Exp. Mtr. S

925

1000

1028

1056

10K

PG # 4 185

Date 1997 Oct 18/19

Observers Vnk/Ksz/Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC49311/12	Inboard/outboard							Fe Ar ND 1	7/11
13	BIAS(4)			00 22					
14	comp							"	7
15	HD 213307	22 25 24	57 53 00	00 29 46					379
16	comp							"	7
17	comp							"	7
18	VW Cas	01 05 49	61 45 12	00 43 56					1884
19	comp							"	7
20	BIAS(4)			01 18					
21/22	flats							Tung ND 1	40

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr. Se

50k 1

200

PG 5 187

Date 1997 Oct 18/19

Observers Vnk/Ksz/Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC 49328/29	Inboard/outboard							FRAY ND 3	4 7
49330	BIAS(4)			01 48					
31	comp							"	4
32	HD 214975	22 36 54	56 19 00	01 55 31					254
33	comp							"	4
34	comp							"	4
35	IX Cas	00 04 51	50 14 06	02 06 41					1800
36	comp							"	4
37	BIAS(4)			02 38					0
38	comp							"	4
39	HD 30282	04 41 06	36 32 00	02 42 45					900
40	comp							"	4
41	comp							"	4
42	HD 32456	04 58 18	55 13 00	03 03 47					420
43	comp							"	4

CCP
 Spectr. Temp
 Focus.....
 Spectr. Temp

Exp. Mtr. S

900 1

380

430

450

CCD
 Spectr. Temp. Dome Temp./Hum. $6.8^{\circ} / 73.4\%$ Transparency Conditions fine 188
 Focus 6.75
 Spectr. Temp. Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
13	1/2					CASS CCD	1800/mm 56.35	306 μ	6600	3/4			
	4									1			
	4									5			
254	1/2	900	1"	8	F-G					6			
4	1/2									7			
4	1/2									8			
1800	1/2	380		11.5	F-G					9			
4	1/2									10			
0	1/2									11			
4	1/2									11			
900	1/2	4730		7.5	F-G					12			
4	1/2									13			
4	1/2									13			
420	1/2	2750		7.5	F-G					14			
4	1/2									15			

PG 6 189

Date 1997 Oct 18/19

Observers

Vnk/Ksz/Lu

Emulsion Batches:

.....

CCD

Spectr. Temp.

Focus

Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
ec49344	comp							F2Ar NO 3	4
45	HD 25361	03 56 42	58 23 00	03 15 45				"	480
46	comp							"	4
47	comp							"	4
48	HD 56167	07 10 54	69 52 00	03 28 58				"	834
49	comp							"	4
50	BIAS(4)			03 50				"	0
51	comp							"	4
52	BD+3 601	04 24 33	04 07 24	03 52 05				"	900
53	comp							"	4
54	comp							"	4
55	HD 44990	06 19 19	07 08 25	04 12 27				"	300
56	comp							"	4
57	comp							"	4
58	HD 52610	06 56 48	-01 00 00	04 22 08				"	900
59	comp							"	4

Exp. Mtr.

Se

2350

1700

957

53

800

CCD
 Spectr. Temp. -100.3°C Dome Temp./Hum. $5.9^{\circ}\text{C} / 75\%$ Transparency Conditions fine 190
 Focus 6.75
 Spectr. Temp. Dome Temp./Hum.

Comparison Filter	Exp.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4				CASS LCD	1800/mm 56.35	306 μ	6600	15			
	480	2350	8.	FG					16			
	4								17			
	4								17			
	834	1700	8.3	Cee ⁴					18			
	4								19			
	0								1			
	4								19			
	900	957	7.4	A7					20			
	4								21			
	4								21			
	300	5.3	6.8	FG					22			
	4								23			
	4								23			
	900	1800	9.1	FG					24			
	4								25			

PG 7 191

Date 1997

Oct 18/19

Observers

Vnk/Ksz/Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC 49360	comp							FeAr NO 3	4
61	HD 62509	07 39 12	28 16 04	04 42 37				"	19
62	comp							"	4
63	comp							"	4
64	H 052973	06 58 "	20 43 02	04 47 57					61
65	comp							"	4
66	comp							"	4
67	H 065583	07 54 18	29 31 00	04 54 23					480
68	comp							"	4
69	BIAS(4)			05 04					0
70/76	flats							Tung NO #5	6

222

CCD
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. Se

8K

8K

4.4K

CCD
Spectr. Temp. -100.3°C

Dome Temp./Hum. 5.7°C / 77.0%

Transparency Conditions Clear 192

Focus 6.175

Spectr. Temp.

Dome Temp./Hum.

Comparison
Filter Exp.

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800/mm 56.35	306μ	6600	25			
8K		1,14	KOIII					26	std vel		
								27			
								28			
8K		4	F-G					28			
								29			
								29			
4.4K		7	DG7					30	std vel		
								31			
								1			
								2			

P9#1 193

SUN/MON

Date 1997 Oct 19/20 Observers KRN / Tn

Krn = Kerton

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC 493 ⁷⁷ / ₇₈	Inboard / Outboard								
79	Comp							F4r ND4	45
80	HD 193322	201434	462513	185638					
81	Comp								45
82	BIAS(4)			19 04				F4r	45
83	Comp							ND5	45
84	BD+61 411	022635	+620045	191424					
85	Comp							F4r	45
86	"							"	45
87	VES 735	022007	+610703	193520					2376
88	Comp							"	45
89	BIAS(4)			2017					0
90	Comp							"	45
91	HD 177724	190049	+134253	202839					160
92	Comp							"	45
93 ⁷⁹ / ₈₀	FLATS x 7							TUNG ND5	45

CCO
Spectr. Temp.
Focus...
Spectr. Temp.

Exp. Mtr. Se

1.3K

240

232

22K

CCD Spectr. Temp. -10.10 °C Dome Temp./Hum. +10.0°C 68.5% H Transparency Conditions increasing... cloud... 194

Focus 6.95

Spectr. Temp.

Dome Temp./Hum. +8.8°C 70.0% H

↓ Bad window, should be ~~450~~ ~~400~~

510 0 50 1024 41 CCDFAST

Comparison Filter Exp.	Exp. Mtr.	Seeing	Mag. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
					CASS CCD Tgrating	600C 2708	306x	5130A	3/4		To 5450A	
4									5			4K
	1.3K								6			6.7K
4									7			
8									8			
	240	2"	11.18	08					9			max ~600
4									10		Δα +00 0040 ✓ Δδ 00 00 12	
8									11		cloud at end	good
237	232	4.2"	12.8	09					12		Δα +00 0038 ✓ Δδ +00 00 06	
4									13		cloud at end	
0									1			
4									14			
160	2.2K	2"	2	A					15	Telluric std.		8.5K
4									16			
116 5									2			12K

pg #2 195 sun/mon

Date . 1997 Oct 19/20... Observers K.r.a. / T.Y.....

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49400	Comp							FeA ND4	4s
01	HD 206183	21 3518	+56 3200	20 43 43					245
02	Comp							"	4s
03	HD 206183	"	"	20 52 21					356
04	Comp							"	4s
05	HD 206183	"	"	21 08 40					360
06	Comp							"	4s
07	BIHS(4)								0
08	DARK	15 min							900
09	BIHS(4)			23 15					0
10	Comp			23 45				"	4s
11	HD 206183	21 3518	+56 3200	23 46 59					223
12	Comp							"	4s
13	HD 206183	"	"	23 54 54					409
14	Comp							"	4s
15	BIHS(4)			01 13					0

Spectr. Temp.

Focus.....

CCD

Spectr. Temp.

Exp. Mtr.

Sec

310 23

160

165

223 3"

409 34"

Spectr. Temp. Dome Temp./Hum. $+8.9^{\circ}\text{C}$ 70.3% H Transparency Conditions *Part Cloudy* 196

Focus 6.95

^{CCD}
Spectr. Temp. -100.3°C

Dome Temp./Hum. $+8.5^{\circ}\text{C}$ 70.0% H

- mostly cloudy

Comparison / Filter / Exp	Exp. Mtr.	Seeing	PA [✓] Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4	45				CASS CCD	600C	306 μ	5130A	17			12K
4	310	2.2"	7.4	B0		27.08			18			12K
4	160								19			
4	160								20		Absorption Line @ 6000 μ not seen on this exposure	
4									21		Bul seen on CC49401	
3B	165								22			
4									23			10.5K
0									1			
900									24			
0									1			
4	423	3"	7.4	B0					23			
4									24			
4									25			
4	488	3-4"							26			
4									27			
4									1			

Pg# 197 Mon/Tues

Emulsion Batches:

Date 1997 Oct 20/21... Observers Krn / Tn.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC494 16/17	In board / out BOARD							Fair ND4	4/6
18	BIAS (A)			18 07					
19	Comp							"	45
20	HD 188209	19 4858	+464609	18 1155					78
21	Comp							"	45
22	Comp							✓	45
23	HD 177724	19 00 49	+13 42 53	18 18 47					29
24	Comp							✓	45
25	Comp							"	45
26	HD 206183	21 3518	+56 3200	18 2722					312
27	Comp							✓	45
28	BIAS (A)			18 35					0
29	HD 206183	"	"	18 3625					364
30	Comp							"	45
31	Comp							"	45

CCD
Spectr. Temp.
Focus...
Spectr. Temp.Exp. Mtr
Sec

1000V

2.5K 3

3.8K

1.7K 4

1.8K

CCD Spectr. Temp. $-$ °C Dome Temp./Hum. $+7.0^{\circ}\text{C}$ 61.6% H Transparency Conditions *Fine* 198

Focus 6.95

Spectr. Temp. Dome Temp./Hum. 415 0 50 1024 4 1 CCD FWH

Comparison Filter	Exp.	Exp. Mtr	Seeing	Pix Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4/6	1000V				CTSS CCD	0600C 27.08°	306 μ	5130A	3/4		Note looking slightly more Red than previous night due probably to grating re-setting.	
									5145A	1			
									Actual of Row 512 I 2A	5			13K
	7/8	2.5K	3"	5.62	09.5 Ib					6		normalization & probable stel.	6.3K
										7			
										7			
	2/9	3.8K		2	A					8	Telluric stel		10.8K
										9			
										10			19K
	3/2	1.7K	4"	7.14	B0					10			4.9K
										11			
		1.8K								11			
										12			11.6K
										12			

py#2 199

Mon/Tues

Date ..1997.0ct.20/21. Observers ...Krn./...Tn.....

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49432	BD+61411	02 2635 ²⁰⁰⁰	+62 0045	18 5042					1590
33	Comp							Felt ND4	4s
34	Comp							, ?	4s
35	VES 735	02 2007 ²⁰⁰⁰	+61 0703	19 2846					2409
36	Comp							"	4s
37	BIAS (4)			20 11					0
38	VES 735	"	"	20 1234					2400
39	Comp							"	4s
40	VES 735	"	"	20 5510					2632
41	Comp							"	4s
42	BIAS (4)			21 42					0
43	VES 735	"	"	21 4255					2495
44	Comp			21 4255				"	4s
45	VES 735	"	"	22 28 00					2427
46	Comp							"	4s
47	BIAS (4)			23 10					0

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.

352

130

123

138

121

Spectr. Temp. Dome Temp./Hum. $+61^{\circ}\text{C } 67.0\% \text{H}$ Transparency Conditions ... *mostly clear* ... 200

Focus 6.95

Spectr. Temp. Dome Temp./Hum. $+$

Comparison Filter/ Exp.	Exp. Mtr.	Seeing	P.C. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1590	552	3-5"	1118	08	Tygrating	600C 1-1/2mm 27.08	306 μ	5130A	13	std	Ad 00 00 40 15 00 00 36	
4									14			1/6K
									14			
2409	~130	3-4"	12	0					15			
4s									16			
0									1			
240	123								17			
7s									18			
2632	138								19			
7s									5			
0									1			
2495									15			
4s									16			
2427	121								15			
4s									17			
0									1			

pg #3 201 Mon/Tues

Date 1997 Oct 20/21 Observers K.C.N./T.M.

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
115/1154	HD 6314	00 58 59	39 27 18					4x 67m	
55/58	DARKS							4x 67m	
59/60	DARKS							2x 133m	
61/62	HD 6314							2x 133m	
CC49448	Comp							Fed ND 4	45
49	HD 6314	00 58 59	39 27 18	23 39 45					249
50	Comp							n	45
51/57	FLATS X 7							JUNG ND 5	45
58	Comp								45
59	^{not} HD 37468 star to SE of α ORI AB $\approx 5 \frac{1}{2}$ arc min								
60	Comp							n	45
61	HD 37468	05 33 44	-02 34 28	00 07 10					51
62	Comp							n	45
63	BIAS (A)			00 10					0

Spectr. Temp.

Focus

Spectr. Temp.

Exp. Mtr. Se

1K

3K 7

Spectr. Temp.

Dome Temp./Hum.

Transparency Conditions *mostly cloudy* 202

Focus

Spectr. Temp.

Dome Temp./Hum. ... *+2.2°C 78.7%RH*Comparison
Filter Exp.

Exp. Mtr.	Secing	Pg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
		6.57	FOV _n		Above	306 _u	slit			Seeing Test Done west medium NW wind.	
					600C 3708	306 _u	5130A	7			14K
1K	4"	657	FOV _n					8	Telluric Std		
								9			
								2			
								9			
								12			
								13			
3K	7"	381	09.5V					14			5.7K
								15			
								1			

203 pg#1

Tues/Wed

Emulsion Batches:

Date 1997 Oct 21/22 Observers Vnk/Tn.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC494 ^{6A/65}	Inboard / outboard							FEAr ND4	4/6
66	Comp							10	4s
67	HD 187691	19 46 14	+10 09 55	19 32				FEAr ND3	227 4s
68	Comp							ND3	4s
69	BIAS (A)			19 38					0
70	Comp							n	4s
71	HD 197572	20 39 29	+35 13 38	19 43 01					5s
72	Comp							n	4s
73	Comp							n	4s
74	HD 177441	18 59 36	+01 09 00	20 00 32					900
75	Comp							n	4s
76	Comp							n	4s
77	BD +39 4379	20 57 21	+40 10 39	20 21 15					1800
78	Comp							n	4
79	BIAS (A)			20 53					0

Exp. Mir. Se

Spectr. Temp.

Focus... 6

Exp. Mir. Se

76K 5

5.5K 5

592

540 4

CCD
Spectr. Temp. -100.2°C ..

Dome Temp./Hum. + 4.4°C 68.4% H

Transparency Conditions ... Clearing Fast ... 204

Focus 6.85

Spectr. Temp.

Dome Temp./Hum. + 3.0°C 71.6% H

Comparison
Filter Exp.

Exp. Mtr.	Seeing	Pr. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
no filter				CASS CCD		300u	6600A	3/4	focus test	CCDFMT 415 0 50 1024 4 1 STHony Line v 2k Selection 400 0 50 1024 4 1	
								5			
7.6K	5"	5.11	F8V K011					6	std vel		5.7K
								7			
								1			
								7			
5.5K	5.7"	6	F-G					8	cephelid program		5.7K
								9			
								9			
692								10			
								12			
								12			
5.40	4.7"	10	F-G					13			
								14			
								1			

205 p9#2

Tues/Wed

Emulsion Batches:

Date 1997 Oct 21/22 Observers Vnk/Th

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49480	Comp							FEAR ND3	4s
81	HD 203156	21 1523	+37 4855	20 5646					300
82	Comp							"	4s
83	Comp							"	4s
84	HD 187921	19 4724	+27 1200	21 0633					352
85	Comp							"	4s
86	Comp							"	4s
87	HD 227463	20 0036	+33 5000	21 1609					1002
88	Comp							"	4s
89	Comp							"	4s
90	HD 196018	20 2936	+46 1600	21 3956					905
91	Comp							"	4s
92	BIAS(4)			22 01					
93/99	FLATS x 7							Tung ND5	7s

C00
Spectr. Temp

Focus... 6

Spectr. Temp

Exp. Mtr.

No filter

5K

740

800

CCD Spectr. Temp. ... -100.1 °C ... Dome Temp./Hum. ... +2.4 °C 74% RH Transparency Conditions ... some cloud ... 206

Focus ... 6.85

Spectr. Temp. Dome Temp./Hum.

ADU
~ MAX

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Plg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4s	no filter				CASS	1800/6 5635	306"	6600A	14			
	300	5K	5"	6	F-G					15	Rim high precision coploid		AK
	4s									16			
	4s									16			
	350	2.1K	4.5"	7	F-G					17			
	4s									18			
	4s									18			
	1002	740	6"	9	F-G					19		nice H α nebula? etc	
	4s									21			
	4s									21			
	905	800	5"	9	F-G					22			
	4s									23			
										1			
	7s									2			14

207
#3

Date .1997.Oct.21./22. Observers Vnk./Jn.....

Emulsion Batches:

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.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC49500	Comp			01 25				RA ND 3	4s
01	HD 44990	06 1949	+07 08 25	01 27 06					114
02	Comp							n	4s
03	BIAS(4)			01 35					0

Spectr. Temp.
Focus...6:
Spectr. Temp.

Exp. Mtr.

JK

Pg 1 209

Date 1997 Oct 25/26

Observers

MK0+ / Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CL49504/05	Inboard/outboard							FeAr ND 3	4/7
06	BIAS(4)			17 59					
07	comp							"	4
08	HD 222368	23 34 48	05 05 03	18 02 52					194
09	comp							"	4
10	comp							"	4
11	HD 213014	22 23 24	16 46 00	18 13 17					600
12	comp							"	4
13	comp							"	4
14	HD 222994	23 40 36	24 55 00	18 29 21					1000
15	"	"	"	18 46 55					1000
16	comp							"	4
17	BIAS(4)			19 05					0
18	HD 222994	"	"	19 06 52					1000
19	"	"	"	19 24 08					1000
20	comp							"	4

Spectr. Temp

Focus.....

Spectr. Temp

Exp. Nr. S

BK

1400

244

768

790

755

Spectr. Temp. -101.3°C

Dome Temp./Hum. $5.0^{\circ}\text{C}/58\%2$

Transparency Conditions \dots partly clear 210

Focus $\dots 6, 8.5$

Spectr. Temp. \dots

Dome Temp./Hum. \dots

400 0 50 1024 4 1 CCDPMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	3	4/7				CASS CCD	1800/mm 47.06	306 μ	5184	3/4			
	4									1			
	194	8K	2"-3"	1/2	F7U					5			
	4									6	std vel		
	600	1400		7.7	d98					7			
	4									7			
	1000	744		9.5	FS					8	std vel		
	1000	758		"	"					9			
	4									9			
	1000	770		"	"					10	CB		
	1000	755		"	"					11			
	4									12			
	0									1			
	1000	770		"	"					13			
	1000	755		"	"					14			
	4									15			

PG 211

Date 1997 Oct 25/26

Observers MK: + / Lu

Emulsion Batches:

.....

COP
 Spectr. Temp.
 Focus.....
 Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.	Exp. Mtr.	Sec
CC49521	BIAS(4)			19 42							
22	HD 222994	23 40 36	24 55 00	19 45 18					1000	908	
23	comp							FEAR ND3	4		
24	HD 222994	"	"	20 06 34					1000	892	
25	comp							"	4		
26	comp	(2000)						"	4		
27	BD+12 511	03 49 28	12 54 44	20 43 09					1070	211	4
28	comp							"	4		
29	BD+12 511	03 49 28	12 54 44	21 04 38					900	285	
30	"	"	"	21 20 48					900	261	
31	comp							"	4		
32	BIAS(4)			21 37					0		
33	BD+12 511	"	"	21 39 27					900	257	
34	"	"	"	21 54 54					900	296	
35	comp							"	4		

CCD
Spectr. Temp. -100.2

Dome Temp./Hum. 35°C/62%

Transparency Conditions ... partly clear 212

Focus 6.85

Spectr. Temp.

Dome Temp./Hum.

400 0 50 1024 4 1
Clear

Comparison / Filter Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
					CASS CCD	1800/mm	306μ	5184	1			
1000	908		9.5	F5					16			
4									17			
1000	892		"	"					18			
4									19			
4									20			
1070	211	4"	?	?					21		SSE companion Not CB	
4									22			
900	285		9.5	G0					23		CB	
900	261		"	"					24			
4									25			
0									1			
900	257		"	"					26			
900	296								27			
4									28			

Pg #3 213

Date 1997 Oct 25/26

Observers

MKi+ / Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49536	BD+12 511	0349 ⁽²⁰⁰⁰⁾ 28	125444	22 12 11					905
37	"	"	"	22 27 52					905
38	comp							F2 Ar NO3	4
39	BIAS(4)			22 44					0
40	BD+12 511	"	"	22 45 43					900
41	" "	"	"	23 01 07					900
42	comp							"	4
43	BD+12 511	"	"	23 17 53					900
44	"	"	"	23 33 17					900
45	comp							"	4
46	BIAS(4)			23 50					0
47/56	flats							Tung NO #4	6

CCD

Spec. Temp.

Focus.....

Spectr. Temp.

Exp. Nr.

Seq.

353

434

523

517

545

521

PG 4 215

Date 1997 Oct 25/26

Observers Vnk/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC49557/58	Inboard/outboard							FAr NO 3	4/7
59	BIAS(4)			00 14				"	0
60	comp							"	4
61	HD 236429	00 24 24	59 40 00	00 20 57					900
62	comp							"	4
63	comp		(2000)					"	4
64	UZ Cas	01 12 42	61 12 48	00 40 32					1800
65	comp							"	4
66	BIAS(4)			01 11					0
67	comp							"	4
68	VW Cas	01 05 49	61 45 12	01 14 50					1800
69	comp							"	4
70	comp							"	4
71	UX Per	02 13 08	58 24 48	01 49 17					1200
72	comp							"	4
73	UX Per	"	"	02 11 20					1800

CCO

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr. Se

1098 3

173

319

182

140

CCD
 Spectr. Temp. -100.3°C Dome Temp./Hum. $0.8^{\circ}\text{C}/68.4\%$ Transparency Conditions *clear* 216.

Focus 6.81

Spectr. Temp. Dome Temp./Hum. 400 = 50 1024 41

Companion Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
3	4/7					CASS CCD	1800/mm 56.35	306 μ	6600	3/4			
	0									1			
	4									5			
	900	1098	3"	9	F-G					6	CEP		
	4									7			
	4									7			
	1800	173		11.3	F-G					8			
	4									9			
	0									1			
	4									9			
	1800	319		10.7	F-G					10			
	4									11			
	4									11			
	1200	182	2"	11.5	F-G	← maybe (A)				12	not cap North component, some clouds in field		
	4									13			
	1800	140		11.5	F-G					14	South component.		

pg 5 217

Date 1997 Oct 25/26

Observers Vnx/Lu

Emulsion Batches:

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CCD
 Spectr. Temp.
 Focus.....
 Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CU9574	comp							FeAr ND3	4
75	BIAS(4)			02 45					
76/82	flats							Tung ND45	6
83	comp							FeAr ND3	4
84	HDB2509	07 39 12	28 16 04	03 03 36					488
85	comp							"	4
86	BIAS(4)			03 13					

Exp. Mtr. Ser.

2000

CCD
Spectr. Temp. -100.2⁰³

Dome Temp./Hum. 0.1⁰/70.7

Transparency Conditions cloudy 218

Focus 6.81

Spectr. Temp.

Dome Temp./Hum.

400 0 50 1024 4 | CCDPMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
tr 3	4					CASS CCD	1800/mm 56.35	306	6600	15			
										1			max
tr 5	6									2			12.2K
tr 3	4									16			
tr 3	488	2000		1.14	KO III					17	std vel	cloudy	
	4									18			
										2			

99 1 219 Tues/Wed

Date 1997 Oct 28/29

Observers [Vys]/Lu/Tn

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
cc49587/88	Inboard/outboard							FeNe ND5	3/2
89	BIAS(4)			18:52					
90	comp	(1900)						"	4
91	AC+18 1074-63	22 23 56	18:25:18	18:58:31					1080
92	comp							"	4
93	comp							"	4
94	HD 216899	22 51 48	16 02 00	19 20 52					512
95	comp							"	4
96	comp							"	4
97	AC+3 2781-116	23 03 00	02 47 05	19 36 09					1086
98	comp							"	4
99	BIAS(4)			19 56					0
cc49600	comp							"	4
01	HD 1326	00 12 42	43 27 00	20 10 58					850
02	Comp							"	4

CCD
Spectr. Temp
Focus.....
Spectr. Temp

Exp. Mtr. S

133 1-

1060

300

570 2

CCD
 Spectr. Temp. -100.3°C Dome Temp./Hum. 4.4°C / 66.7% Transparency Conditions partly cloudy 220
 Focus 6.86
 Spectr. Temp. Dome Temp./Hum. +7.0°C / 71.5%RH 400 0 50 1024 4 1 CCD/FMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
e/s	3/2					CASS CCD	1800/mm #7.75	306 μ	5300	3/4			
										1	4		
	4									5			
	1080	333	1"-2"	10.7	M0					6	Vys 841		
	4									7			
	4									7			
	572	1060		8.66	M2					8	Marcy std		
	4									9			
	4									9			
	1080	300		10.9	M0					10	Vys 343	through clouds	
	4									11			
	0									11			
	4									11			
	850	570	2"	8.07	M1 1/2					12	Marcy std	in Rong star notes/ Feb 2000 Ta	500
	4									13			5K

221
pg #2

Tuos/Wed

Date 1997 Oct 28/29 Observers [Vgs]/Tu/Lu

Emulsion Batches:

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.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC49603	Comp							FeNe ND3	4s
04	AC+63 32399	23 02 02	+63 23 21	20 34 34				"	1111
05	Comp							"	4s
06	BIAS(4)			20 55					0
07	Comp							"	4
08	AC+45 130-216	03 02 48	45 21 19	21 04 11					941
09	comp							"	4
10	comp							"	4
11	AC+69 173	00 21 09	69 35 29	21 25 23					1067
12	comp							"	4
13	comp							"	4
14	AC+80 07	00 07 53	80 06 31	21 53 39					2010
15	Comp							"	4
16	BIAS(4)			22 29					0
17	comp							"	4
18	HD 44982	06 19 48	82 21 00	22 36 44					1111

CCD
Specs. Temp.

Focus.....6

Spectr. Temp.

Exp. Mtr.

1000/100

350

400

350

400

350

400

350

400

350

400

350

400

350

400

350

400

350

400

350

400

350

400

Exp. Mtr. ^{CCD} - 100.7 °C

Dome Temp./Hum.

Transparency Conditions *Pure Clear* 222

Focus 6.86

Spectr. Temp.

Dome Temp./Hum.

CD

Comparison Filter	Exp.	Exp. Mtr. 1000 V	Seeing	P _v Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	43	no filter				CASS CCD Tigrating →	1800 lines 47.75°	3060	5300 Å	13			
	1111	305	1-2"	10.8	M0					14	Vys 858		
	45									15			
	0									1			
	4									15			
	941	400	2"-3"	10.2	M0					16	Vys 99		
	4									17			
	4									17			
	1062	350	2"-3"	10.54	M0					18	Vys 357		
	4									19			
	4									19			
	2010	350	2"-3"	10.7	M0					20			
	4									21	Vys 354A		
	0									1			
	4									21			
	1111	700	2"-3"	9.8	G5V					22	AS CV _n - SV CAM.		

Pg 3 223

Tues/Wed

Date 1997 Oct 28/29

Observers [Vys]/Lu/Tn

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
cc49619	comp							F2N2 NO 5	4
20	comp	03 53 19	82 38 57	22 59 22				"	4
21	ACT 82 779	↓	↓	↓					360
22	comp							"	4
23	BIAS(4)			23 08					0
24/30	FLATS x 7							TUNG NDA	5 sec

cel
Spectr. Temp.

Focus

Spectr. Temp.

Exp. Mtr. Se

60 3

CCD
Spectr. Temp. -100.3°C

Dome Temp./Hum. 3.1°C / 75.5%

Transparency Conditions... partly clear 224

Focus

Solid Cloud Ten

Spectr. Temp.

Dome Temp./Hum.

400 0 50 1024 4 1 CCD/MT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Pl. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4					CASS CCD	1800 Y/mm 47.75	306 μ	5300 Å	23			
	4									23			
	300	60	3"	11.0	MO					24	Vys 105	12000215 45000106 clarity - too weak <u>But usable I think</u>	
	4									25			
	0									1			
	500									2			132K

PG 1 225 wed / Thurs

Date 1997 Oct 29/30..... Observers [Vys]/Tn/Lu.....

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC496 ^{31/32}	In board / Out Board							FeNe NDA	3/1
33	BIAS(4)			18 17					
34	Comp							FeNe NDA	4 _s
35	AC+111710-70	23 4828	+11 3307	18 34 47					1879
36	Comp							"	4 _s
37	Vys 870 A	"	"	19 08 05					1284
38	Comp							"	4 _s
39	BIAS(4)			19 31					0
40	comp							"	✓
41	AC+7 166-62	22 0546	+07 2553	19 37 54					1200
42	comp							"	4
43	comp							"	4
44	BD+23 4575C	22 3241	23 24 52	20 03 41					1870
45	comp							"	4
46	BIAS(4)			20 36					0

CCO
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. Se

315 (1:2)

318

324

200

CCD Spectr. Temp. -100.3

Dome Temp./Hum. $+7.4^{\circ}\text{C}$ 6398H

Transparency Conditions .mos. T/g. Clear after sundown

Focus 6.86

Spectr. Temp.

Dome Temp./Hum.

400 0 50 1024 41 CCD FTIR MAX ADM 226

Comparison Plate	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	3/1					CH55CCD	1800 μ /mm 47.75	306 μ	5300A	3/4	focus test	no need to change setting	
	4									1			
	1879	265								5			5K
	4									6	Vys 870B	Fainter south component	
	1284									7			
	4									8	Vys 870A	Brighter and North one	
	0									9			
	1200	321	2	11.7	M					1			
	4									9			
	4									10	Vys 205 AB		
	1890									11			
	4									11			
	0	200								12	Vys 893C		
	4									13			
	0									1			

PG 2 227

Wed/Tues

Date 1997 Oct 29/30

Observers

[Vys] Tn/Lu

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
cc49647	BD+23 4575AB	22 32 41	23 24 52	01 37 45					480
48	comp							FeNe ND 5	4
49	comp							"	4
50	AC+19 1079-115	23 11 42	19 04 39	20 49 51					1363
51	comp							"	4
52	comp							"	4
53	HD 44982	06 19 48	82 21 00	21 19 26					840
54	HD comp							"	4
55	BIAS(4)			21 40					0
56	comp							"	4
57	HD 216899	22 51 48	16 02 00	21 43 15					480
58	comp							"	4
59	comp							"	4
60	HD 3765	00 35 18	39 40 00	21 56 59					370
61	comp							"	4

CCO
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. Sec

363 2

300

800 1-2

1013 1"

2400 1"

c10
Spectr. Temp. -100.9

Dome Temp./Hum. 6.2°C/68.4

Transparency Conditions mostly clear 228

Focus 6.86

a little haze (scat)

Spectr. Temp.

Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
480		363	2"	10.7	K5?	CASS CCD	1800/mm 47.75	306 μ m	5300	14	Vys 893 AB		
5	4									15			
	4									15			
1363		300	2"	11.1	M0					16	Vys 860		
	4									17			
	4									17			
840		800	1"-2"	9.8	G5V					18	SV Cam		
	4									19			
	0									19			
	4									19			
480		1013	1"	8.66	M2					20	Marcy std		
	4									21			
	4									21			
370		2400	1"	7.36	dk5					22	std vel		
	4									23			

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Wed/Tues

Emulsion Batches:

Date ... 1997 Oct 29/30 ... Observers ... [Vys] ... T.n. / L.u. / ... [Rm] pgn

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
cc49662	comp							FeNe ND5	4s
63	BD-9 40	00 12 34	-09 14 23	22 12 49					1200
64	comp							"	4
65	BIAS(4)			22 35					0
66/72	flats							Tung ND4	5s
cc49673	BIAS(4)			00 20 22					0
74	Comp							FeAr ND4	4s
75	HD 203156	21 15 23	+37 48 55	00 28 28					676
76	Comp							"	4s
77	comp							"	4s
78	HD 30282	04 41 06	36 32 00	00 45 14					805
79	Comp							"	4s
80	comp							"	4s
81	HD 44990	06 19 49	07 08 25	01 03 18					1200
82	comp							"	4
83	BIAS(4)			01 25					0

Spectr. Temp.

Focus ... 6

Spectr. Temp.

Exp. Mr. See

336 1-1/2

1070 5

2120 3 1/2

1500 3 1/2

Spectr. Temp. -100.2°C Dome Temp./Hum. $+5.8^{\circ}\text{C}$ 67.6% Transparency Conditions *Fine* 230

Focus 6.86

Spectr. Temp. Dome Temp./Hum. 22 400 0 50 1024 41 CCD/FIT

Companson Filter Exp.	Exp. Mtr.	Seeing	Plg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Ne 75 4s					CASS CCD	1800/mm 47.75	306u	5300A	23			
1200	336	1.2"	10.98	MO					24		some clouds in.	
4									25			
0									1			
ng 4 5s									2		cloudy	13K
0					.n	1800/mm 54.75	306	6400A	4			
1/4 74 4s									5	MR8157		8.5K
676	1070	5.4"	5.8	FG					6	Rm pgn	through clouds	11K
4s									7			10K
4s									7			
805	2120	3.6"	8.	FG					8	Rm pgn	AW Per	
4s									9			
4s									9			
1200	1560	3.5"	7.2	FG					10	Rm	T Mon Through heavy clouds.	
4									11			
0									1			

231 per 4

Date 1997 Oct 29/30

Observers [Rm]/Lu/Tn

Emulsion Batches:

.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC49684	comp							FeAr ND 4	4
85	HD 22484	03 31 46	00 05 04	01 28 33					360
86	comp							"	4
87	comp							"	4
88	HD 25361	03 56 42	58 23 00	01 41 33					600
89	comp							"	4
90	BIAS(4)			01 53					0
91	comp							"	4
92	HD 36079	05 23 58	-20 50 21	02 01 06					109
93	comp							"	4
694/300	flats							Tung ND 5	6
701	Comp							FeNe ND 5	45
702	ACT 17.449-111	03 38 12	16 21 30	02 13 16					1207
703	Comp							"	45
04	BD+16 502	03 38 12	16 21 30						1350
05	Comp							"	45

CCD
Spectr. Temp
Focus.....6
Spectr. Temp

Exp. Mtr. Se

4430 3

2750

44K 6'

275 3'

343 2'

CCD
Spectr. Temp. -100.4°C

Dome Temp./Hum. $+4.5^{\circ}\text{C}$..76.5%RH

Transparency Conditions *Mostly..thinly..cloudy* 232

Focus6.86.....

Spectr. Temp.

Dome Temp./Hum. $+4.4^{\circ}\text{C}$..76.7%RH

400 0 50 1024 4 1 CCD F4T

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4					CASS CCD	1800/mm 54.93	306 _u	6400	11			
	360	3430	3"	4.28	F9TV-II					12	std vel		
	4									13			
	4									13			
	600	2750		7.5	F-G					14	Rm pgm		
	4									15			
	0									1			
	4									15			
	109	4,4K	6"	2.84	G5II					16	std vel		
	4									17			
	5									2			12K
	4						1800/mm 47.75	306 _u	5300	5			
	1247	275	3"-4"	11.1	MO					6	Vys 428B		
	4									7			
	1350	343	2"-4"	10.3	MO					8	Vys 428A	cloud again	
	45									9			

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pg 45

Date . 1997. Oct. 29/30 Observers . [Vgs.]/LH/Ta.....

Emulsion Batches:

.....
.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49706	comp							FENE NO 5	4
07	HD 36395	05 26 18	-03 41 00	03 03 05					700
08	comp							"	4
09	BIAS(4)			03 16					0
10	comp							"	4
11	BD-9 956	04 35 43	-09 23 20	03 20 41					1088
12	Comp							"	4
13	comp							"	4
14	AC+54 2311-89	03 33 54	54 53 54	03 46 06					1500
15	comp							"	4
16	comp							"	4
17	HD 44982	06 19 48	82 21 00	04 18 05					900
18	Comp							"	4
19	BIAS(4)			04 34					0
20	comp								
	AC+54 2311-89								

CCD
Spectr. Temp.
Focus.....6
Spectr. Temp.

Exp. Mir. Se

1743 3"

350 3"

310 2"

312 3"

CCD
Spectr. Temp. -100.3 °C

Dome Temp./Hum. 4.2 °C / 77.1 %

Transparency Conditions ... Half Cloudy 234

Focus 6.86

Spectr. Temp.

Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4					CHSSCCD	1800 μ /mm 47.75°	306 μ	5300A	9			
700		1743	3"-4"	7.97	M1					10	Marcy std		
	4									11			
	0									1			
	4			10.30	M0					11			
1088		330	3"-5"	↓	↓					12	Vys 452 AB		
A										13			
	4									13			
1500		310	2"-3"	11.0	M0					14	Vys 424		
	4									15			
	4									15			
900		812	3"-5"	9.8	G5V					16			
	4									17			
	0									1			
										17			

PG 6 235

Date 1997 Oct. 29/30

Observers [Vys]/Lu/Tn

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49721	AC+53 2250-45	03 49 06	53 16 23	04 41 29					1260
22	comp							F2 Ne ND 5	4
23	comp							"	4
24	AC+51 2576-63	04 50 58	50 47 35	05 10 35					1450
25	comp							"	4
26	comp							"	4
27	HD 95735	10 57 54	36 38 00	05 48 25					460
28	comp							"	4
29	BIAS(4)			05 57				Tung	0
30/34	flats							Tung ND 4	5
(*) CC49730 5 sec									
CC49731-24 4 sec									

CCD
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. Se

315 2"

360 2"

2600

CCD
Spectr. Temp. -100.3°

Dome Temp./Hum. $4.0^{\circ}/73.9\%$

Transparency Conditions *Clear* 23.6

Focus 6.86

Spectr. Temp.

Dome Temp./Hum. $3.3^{\circ}/75.0\%$

400 0 50 1024 4 1 CCD/EMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1260		315	2"-3"	10.5	M0	CASS CCD	1800/mm 47.75	306 μ	5300	18	Vgs 226	SAW faint companion to NNW 1.2 arcsec separ'n	
2	4									19			
4										17			
1456		360	2"-3"	10.98	M0					20	Vgs 457		
4										21			
4										21			
460		2600		7.48	M2					22	Murcy std vel		
4										23			
2	0									1			
2	5									2			

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pg#1

Tues/Fri

Emulsion Batches:

Date 1997 Oct 30/31 Observers Mn./Tn.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC497 ³⁹ / ₃₆	Inb/OUTBOARD							FEAR ND 9	4/6
37	Comp							FEAR ND 4	45
38	HD199579	20 5303	+443224	21 0050					975
39	HD199579	"	"	21 0327					302
40	"	"	"	21 1157					233
41	Comp							"	45
42	BIAS(4)			21 1714					0
43	Comp							"	45
44	VES 735	02 2007	61 0703	21 2803					2400
45	Comp							"	45
46	VES 935	"	"	22 1049					952
47	Comp							"	45
48	BIAS(4)			22 28					0
49	Comp							"	45
50	HD 47839	06 3526	+09 5918	22 3448					706
51	Comp							"	45

CO
Spectr. Temp.

Focus....

Spectr. Temp.

Exp. Mtr. Se

12-12

1320V

14K 4

57

48

2427

910

3K 8

CD
Spectr. Temp. -100.2°C

Dome Temp./Hum. +7.2°C 65.5%RH

Transparency Conditions ... Part cloudy 238

Focus 6.94

Spectr. Temp.

Dome Temp./Hum. +5.0°C 77.1%RH

CD 400 0 50 1034 4 1 CCD FATT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	PM Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1/6	ref. filter 1320V				C ASSCOB Te gratings →	600C 2 7.08°	306μ	5730A	3/4	focus		
	4s									7			
	97s	1.4K	4"	5.96	06V					8	std star		3.6K
	302	5.7								9			12K
	233	4.8								10			12K
	4s									11			
	0									1			
	4s									12			
	2400	2427	2'-3"	12	0					13	(SKY CLEAR)	15 2 00 00 24 15 5 00 01 18	
	4s									14			
	952	960								15		very hazy covered by cloud	
	4s									16			
	0									1			
	4s	1000 volt			07V					17		mk std Archar.	13K
	766	3K	8"	4.65	06V					18	std star	AIR MASS = 6	7.7K
	4s									19			12K

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Thurs/FRI

Emulsion Batches:

Date ... 1997 Oct 30 / 31 ... Observers ... Mn. / Tn.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC 49752/62	FLATS x11					02 30E	-10	TUNG ND5	45
63	BIAS (4)				22 57				0
64	Comp							F4A ND4	45
65	HD 37043	053032	-05 5832	23 5613					315
66	Comp							"	45
67	BIAS (4)			00 0439					0
68	HD 37043	"	"	00 1212					792
69	Comp							"	45
70	HD 37043	"	"	00 3318					1387
71	Comp							"	4c
72	Comp							"	4c
73	HD 28446	042406	+53 4137	01 0316					563
74	Comp							"	45
75	Comp							"	45
76	HD 41839	063526	+09 5918	01 1937					737
77	Comp							"	45

Spectr. Temp.

Focus ... 6

Spectr. Temp.

Exp. Mtr. Se

1320V

220 8

2 k

5 k 6

513 3

4-8k 4

Spectr. Temp. Dome Temp./Hum. $+5.0^{\circ}\text{C}$ $90\% \text{RH}$ Transparency Conditions ... *cloudy* \rightarrow *clear* ...
 Focus 6.94
 Spectr. Temp. Dome Temp./Hum. $+5.0^{\circ}\text{C}$ $90.4\% \text{RH}$ 1 240

Comparison Filter Exp.	Exp. Mtr.	Seeing	PR. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
6 5 4 3 2 1 0	1320V				CASS CCD	0600C	306	5130A	2			12.5K
									1			
4 3 2 1 0	420	8"	2.77	09 III					20			
3 2 1 0									21	standard (MK)		
									22			
									1			
7 6 5 4 3 2 1 0	2K								23			4K
									24			
13 12 11 10 9 8 7 6 5 4 3 2 1 0	6K	6"							25		Bulk near end of exposure	12AK
									26			
									26			
5 4 3 2 1 0	5.3	3.5"	5.78	B0 III					27	1 Cam	SE and brighter one	
									28			
									28			
7 6 5 4 3 2 1 0	4.8K	4.6"	4.65	07 V					29			8.8K
									30			

P93

241

Date 1997 Oct 30/31 Observers M.J. / T.G.

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49778	B/H S(4)			013334					
79	Comp							FA ND4	45
80	HD 46150	062636	050000	013840					135
81	Comp							"	45

Spectr. Temp.
 Focus...
 Spectr. Temp.
 Exp. Mtr. Se
 1320
 580

Spectr. Temp. Dome Temp./Hum. Transparency Conditions *Too Cloudy* 292

Focus
 Spectr. Temp. *700.2°C* Dome Temp./Hum. *54°C 91.7% RH*

Comparison
 filter Exp.

Exp. Mtr.	Seeing	P.V. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
<i>1320V</i>					<i>600C 2708</i>	<i>306</i>	<i>5/30A</i>	<i>1</i>			
								<i>5</i>			
<i>580</i>		<i>673 05V</i>						<i>6</i>	<i>std</i>	<i>but weak</i>	
		<i>450</i>						<i>7</i>			

4
138
4

pg#1
 245
 Date 1997 Nov 2/3..... Observers [Mn]/Tn.....

Emulsion Batches:

.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC497 ^{92/93}	Inboard / out Board HARTMAN							FEAR ND4	4/6
94	BIAS(4)			19 50					0
95	Comp							"	4
96	HD 213420	22 2610	+42 3639	20 0349					19
97	"	"	"	20 0724					23
98	Comp							"	4
99	Comp							"	4s
CC49800	VES 735	02 2007 ²⁰⁰⁰	+61 0703	20 21 52					2708
01	Comp							"	4s
02	BIAS(4)			21 09					0
03	VES 735	"	"	21 21 52					2965
04	Comp							"	4
05	VES 735	"	"	22 0224					2165
06	Comp							"	4
07	BIAS(4)			22 40					0
08/16	FLATS x 9							TURK ND5	4s

Exp. Mtr. Ser.
 Spectr. Temp. 6.9
 Spectr. Temp.

Exp. Mtr. Ser.

1320V

5K

13K

270 3.5

200 2.5

7K

Spectr. Temp. ^{CD} 99.5°C Dome Temp./Hum. +8.1°C 65.5%RH Transparency Conditions .. First clearing, 1/2 hazy

Focus ... 6.93

Spectr. Temp. Dome Temp./Hum. +5.4°C 70.5%RH

246

Companso
Filter Exp.

Companso Filter Exp.	Exp. Mtr.	Seeing	Mag. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4/6	1320V				C455000	0600C	306 _u	5130A	1/2	focus test		2 MAX
0					Tgrating →	27-08			1			MAX
4									3	Just the Normalization star		
19	5K		4.51	B2 IV					4	↓	↓	1.1K
23	13K								5			6.9K
4									6			11.5K
4 ₃									7			
2708	2270	3"5'	212	0					8	Ma pgm	Yes; Field positive det slightly hazy here	
4 ₃									9			
0									1			
2965	2400	2"5'							10			
4									11			
216	1.7K								12		cloud	
4									13			
0									1			
4 ₅									2			

410 0 50 102A 4' CCD FMT

- p92

247

Date 1997 Nov 2/3 Observers [mn] / T.S.

Emulsion Batches:

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.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49817	Comp							FeAr ND4	45
18	HD 20418	031200	+494347	22 5144					452
19	Comp [For CC49820 only]			Lost the intended for				n	45
20	HD 46241	06 27 01	+04 56	23 07 31				y	90s
21	Comp							n	45
22	HP 46223	06 27 00	+04 53 00	23 11 11					406
23	Comp							n	45
24	BIAS (4)			23 20					0
25	HD 46223	06 27 00	+04 53 00	23 22 14					1156
26	Comp							n	45
27	Comp							n	45
28	H 46150	06 26 36	+05 00 00	00 47 17					1469
29	Comp							n	45
30	Comp							n	4
31	HD 214680	^(H 450) 22 37 48	+38 31 47	01 21 48					109
32	Comp							n	4

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.

S

14k

3k

9k

23k

30k

Spectr. Temp.

Dome Temp./Hum.

Transparency Conditions *clearly* 248Focus *6.93°C*

Spectr. Temp.

Dome Temp./Hum. *ed*

Comparison Filter	Exp.	Exp. Mtr.	Seeing	<input checked="" type="checkbox"/> Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4						600C 27.08	30G	51.30 ^o	14			10K
	452	14K								15	Telluric Std.	<i>clearly</i>	28K
	9									16			
	90s				5.84	<u>K0 III</u>				17	Accidental exposure.	<i>H046223 intended</i>	
	13									18			
	406	3K	5"	7.28	04V					19	Spectrum Std.		<u>500</u>
	8									20			
	0									1			
	126	9K	4"	7.28	04V					21		<i>cloudy</i> [400 00 06 -00 00 30]	700
	8									22			
	8									22			
	1469	23K	5"	6.73	05V					23		<i>some cloud,</i> At 400 00 12 55-00 00 33	
	8									24		<i>very busy Field</i>	
	4									24		<i>w/very star may be.</i>	
	109	30K		4.87	09V					25			46K
	4									26			

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Emulsion Batches:

Date ... 1997. May. 2/3 Observers ... Mn. / Tn

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC 49833	BIAS (4)			01 25					0
34	Comp							FeAr ND4	45
35	VES 735	02 20 07	+61 07 03	01 33 31					
36	Comp							"	45
37	Comp	After topup						"	45
38	VES 735	"	"	02 16 18					240
39	Comp							"	45
40	BIAS (4)			02 58					0
41	Comp							"	45
42	HP 46149	06 26 36	+05 06 00	03 14 05					102
43	Comp							"	45
44	Comp							"	45
45	HD 478 39	06 35 28	+9 59 18	03 35 54					
46	Comp							"	45
47	HD 478 39	"	"	03 41 31					117
48	Comp								4

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mir. Se

1300 3

2K 3

24.4k 5

25k

50k

Spectr. Temp. ^{CO₂} -100.2°C

Dome Temp./Hum.

Transparency Conditions .. Part Clear 250

Focus 6.93

Spectr. Temp.

Dome Temp./Hum. +04.0°C 78% H

Comp. Filter	Exp.	Exp. Mtr.	Seeing	Pl ^e Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	0							306 μ	5/30A	1			
4	4									27			
		1300	3"	12	0					28		cloud at end	
	4									29			
	4									3			
40		2K	3.9"	12	0					4		clear again	
	4									5			
	0									1			
	4									5			
112		24.4K	5"	7.59	08V					6			
	4									7			
	4									7			
		25K		4.65	07V					13		mk std Anchor.	6K
	4									14			
	117	50K								15			17K
	4									16			

251 pg #4

Date ... 1997 Nov. 2/3 .. Observers M. J. T.

Emulsion Batches:

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.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC498A9	Comp							Felt ND4	45
50	HD46149	6 26 36	+5 06 00	03 52 37					3058
51	Comp							"	45
52	B/Hs (4)			04 51					0

Spectr. Temp.

Focus ... 6

Spectr. Temp.

Exp. Mir.

Se

48K

253

1951

Mon/Tues

Emulsion Batches:

Date ... 1.9.9.7. Nov 3/4 ... Observers Lu. / T. n

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
cc498 ^{53/54}	Inboard / outboard Hartmann							REF ND 3	4/4
58	BIHS(A) written and done after HD44982				21:34				0
55	Comp							REF ND3	45
56	HD44982	06 19 48	7822100	21 19 08					220
57	Comp							"	45
59	comp							"	45
60	HD44982	"	"	22 09 45					1080
61	comp							"	4
62	HD44982	"	"	22 30 12					1160
63	Comp							"	4
64	HD44982	"	"	22 53 51					1169
65	Comp							"	4
66	BIHS(A)			23 14					0
67	HD44982	"	"	23-15:38					1200
68	comp							"	4

 (cc)
Spectr. Temp.
Focus 6.
Spectr. Temp.

Exp. Mtr. Se

1000V

320: 3'

873 3'

805

811

424

CCD Spectr. Temp. -100.2°C Dome Temp./Hum. $+5.7^{\circ}\text{C}$ 62.9%RH Transparency Conditions . Part Clear 254

Focus 6.85

Spectr. Temp. Dome Temp./Hum.

400 0 50 1024 4 1 CCD FWHM

Comparison Filter	Exp.	Exp. Mtr.	Seeing	P.V. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
3	4/7	1000V				CASS CCD Tgrating	1800 lines/mm 47.06	306u	5784A	3/4	Focused		~ MAX AD9
	0									1			
2	4									5			29A
	820	320:	3.5"	9.8	G5V					6		Through clouds	
	4									7			
	4									8			
	1080	873	3.5"	"	"					9			
	4									10			
	1160	805								11			
	4									13			
	1169	811								14			
	4									14			
	0									1			
	1200	424								15			
	4									16			

255 p4#2

Mon/Tues

Emulsion Batches:

Date 1997 Nov 3/4..... Observers Lu/Tn.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49869	Comp							FeAr ND3	As
70	HD 22484	033146	+00 05 04	234308					480
71	comp							"	4
72	BIAS(4)			2352					0
73	Comp							"	As
74	HD 62509	073912	+28 16 04	235700					166
75	Comp							"	As
76/82	flat							Tung ND #4	6
83	BIAS(4)			00 04					0

Spectr. Temp.

Focus.....6

Spectr. Temp.

Exp. Mtr. Se

1000V

1306

8:6K

Spectr. Temp. Dome Temp./Hum. *+4.2°C 69.5%RH* Transparency Conditions *Cloudy* *256*

Focus *6.85*

Spectr. Temp. Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	P.V. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	<i>3</i>	<i>1000V</i>				<i>CASSCO</i>	<i>1800 In 47-06</i>	<i>306u</i>	<i>5184A</i>	<i>16</i>			
	<i>480</i>	<i>130G</i>		<i>4.28</i>	<i>F9 IV-Y</i>					<i>17</i>	<i>std vel</i>		
	<i>4</i>									<i>18</i>			
	<i>0</i>									<i>1</i>			
	<i>8</i>									<i>18</i>			
	<i>16</i>	<i>8.6K</i>		<i>1.14</i>	<i>K</i>					<i>19</i>	<i>std vel</i>		<i>66K</i>
	<i>8</i>									<i>20</i>			
	<i>4</i>									<i>2</i>			
	<i>0</i>									<i>1</i>			

PG 1
 257 1997 Nov. 4/5
 Date

Tues/Wed

[Vys] Lu/Tn
 Observers

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
cc49884/85	Inboard/outboard							FeNe ND5	4/2
86	BIAS(4)			19 48					
87	comp							FeNe ND5	4s
88	AC+7 166-62	22 05 46	07 24 53	19 58 54					1300
89	comp							"	4s
90	comp							"	4s
91	AC+3 2781-116	23 03 00	02 47 05	20 24 56					768
92	comp							"	4s
93	comp							"	4s
94	HD 216899	22 51 48	16 02 00	20 44 13					800
95	comp							"	4s
96	Comp							"	4s
97	AC+19 1079-115	23 11 42	+19 04 39	21 03 09					1532
98	Comp							"	4s
99	BIAS(4)			21 30					0

ccp
 Spectr. Temp.
 Focus.....6"
 Spectr. Temp.

Exp. Mtr. Sec

1000V

303 2"

1208 2"

1200 4"

305 2"

CCD Spectr. Temp. -100.2°C Dome Temp./Hum. $+5.7^{\circ}\text{C}$ 60.9% Transparency Conditions Part clear 258

Focus 6.88

Spectr. Temp. Dome Temp./Hum.

~ MAX

Exp. Mtr.	Seeing	Pl [✓] Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000V				CASS CCD	1800h	306 μ	5300Å	3/4			
				Tgrating →	47.75°			1			
								5			6K
303	2"-3"	10.9	M0					6	Vys 205 AB	~ Babae background!	
								7			
								8			
~200	2"-4"	10.9	M0					9	Vys 343	through clouds	
								10		~ 2011BOL bigend.	
										Looks usable though	
		8.66	M2					11	Marcky std	Vys 354	
1200	4"-2" ↓		2					12			
								13			7K
								13			
305	2"-3"	11.1	M0					14	Vys 860		
								15			
								1			

259 pg # 2

Thu/Wed

Emulsion Batches:

Date 1997 Nov 4/5..... Observers [Vys.] Lu./Tun.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC49900	Comp							F2N2 ND 5	43
01	ACT58 20564	03 08 25	57 48 08	21 36 06					1067
02	Comp								43
03/09	FLATS x 7							TUNG ND 4	56
10	BIAS(4)			22 01					0

CCD Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr. Sec.

1000V

200 3-

CCD Spectr. Temp. -100.3°C Dome Temp./Hum. $+3.4^{\circ}\text{C} \cdot 65\%$ Transparency Conditions part clear 240
 Focus 6.88
 Spectr. Temp. Dome Temp./Hum.

Comparison / Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
		1000V								15			
15	15	200	3-5"	10.0	MO					16	Vys 46 B?	usually well separated NOATH and slightly fainter one some cloud	OK
										17			
16	4									18			13K
										1			

pg 1
261 1997 Nov 6/7

Date Observers Mn/Lu

Emulsion Batches:

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.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
cc49911/12	Inboard/outboard							FeAr ND4	4/6
13	BIAS(4)			19 18					0
14/22	flats							Tung NDS	4
23	comp							FeAr ND4	4
24	HD199579	20 53 03	44 32 24	20 58 02					724
25	comp							"	4
26	BIAS(4)			21 12					
27	comp							"	4
28	HD193443	20 15 12	37 57 00	21 20 24					2030
29	comp							"	4
30	comp							"	4
✓	HD214680	22 34 16	38 31 47	22 11 17					
30	BIAS(4)			22 26					0
31	BIAS(4)			00 37					0
32	comp	(2000)						"	4
33	VES 735	02 20 07	61 07 03	00 39 28					2400

CCO
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. Ser.

48k 5"

50k 5"

4"

2240 4"

CCD
Spectr. Temp. -100.3°C

Dome Temp./Hum. $6.6^{\circ}\text{C}/76.0\%$

Transparency Conditions *cloudy* 262

Focus 7.00

Spectr. Temp.

Dome Temp./Hum.

405 0 50 1024 4 1 CCDPMT

Comparison Filter Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4/16					cass ccd	600 μ /mm 2707.	306 μ	5130	3/4			
0									1			
4									5			11.8K
4									6			
704	48K	5"	5.96	06V					7	std		
4									8			
									1			
4									8			
2072	50K	5.6"	7.25	09V					9	std.		
4									10			
4									11		cloud	
		4"	4.87	09.1V					11			
0									1			
0									1			
4									12			
2400	2240	4"	12	0					13			

PG1
265

Date 1997 Nov. 7/8

Fri/Sat.

Observers

M Kit / Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC 49945/46	Inboard/outboard							E ₂ Ar ND 3	4/7
47	BIAS(4)			18 16					
48	comp							"	4
49	HD 222994	23 40 36	24 55 00	18 27 32					900
50	HD 222994	"	"	18 43 36					900
51	comp							"	4
52	HD 222994	"	"	19 00 43					900
53	"	"	"	19 16 41					1000
54	comp							"	4
55	BIAS(4)			19 35					0
56	HD 222994	"	"	19 35 55					899
57	"	"	"	19 51 52					900
58	comp							"	4
	HD 222994	"	"						
59	comp							"	4

CCO
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. Se

1127 2"

1326 "

530

642

1063

899

CCD
Spectr. Temp. -100.3°C

Dome Temp./Hum. $7.0/63.9$

Transparency Conditions *clear*..... 266

Focus 6.88.....

Spectr. Temp. Dome Temp./Hum.

400 0 50 1524 4 1 CCDPMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	3					COSS CCD	1800/mm 47.06	306 μ	5184	3/4			
										1			
										5			
	900	1127	2"-3"	9.5	FS					6	W UMa	start	
	900	1036	"	"	"					7	W UMa	start	
										8			
	950	682		"	"					9		through clouds	
	1000	647		"	"					10			
										11			
										1			
	899	1063		"	"					12			
	900	899								13			
										14			
										13			
										15			

PG 2

267 1997 Nov 7/8

Date

Observers

MK + / Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CL49960	HD 222368	23 34 48	05 05 03	20 25 45					293
61	comp							EAR ND 3	4
62	BIAS(4)			20 32					0
63	comp							"	4
64	HD 222994	23 40 36	24 55 00	20 38 15					900
65	"	"	"	20 53 42					900
66	comp							"	4
67	HD 222994	"	"	21 10 21					1000
68	"	"	"	21 27 34					900
69	comp							"	4
70	BIAS(4)			21 44					0
71	HD 222994	"	"	21 45 31					900
72	"	"	"	22 00 56					900
73	comp							"	4
74	HD 222994	"	"	22 17 49					900
75	"	"	"	22 33 15					900

CCD

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.

Se

9K

862

177

872

139

138

133

135

130

CCD
Spectr. Temp. - 100.3°C

Dome Temp./Hum. 6.3°C/64.5%

Transparency Conditions ... partly clear 268

Focus 6.88

Spectr. Temp.

Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	293	9K		4.13	F7V	CASS CCD	1800/mm 47.06	306μ	5184	16	std vel		
	3	4								17			
	0									1			
	4			80						17			
	400	862	2"-3"	9.5	FSV					18			
	900	777		"	"					19			
	4									20			
	1000	872		"	"					21			
	900	739		"	"					22			
	4									23			
	0									1			
	900	758	2"-3"	"	"					24			
	900	783		"	"					25			
	4									26			
	900	875		"	"					27			
	900	850		"	"					28			

Pg 3

269 1997 Nov. 7/8

Date Observers MK₀+ / Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49976	comp							FeAr NO3	4
77	BIAS(4)			22 49					0
78	HD222994	23 40 36	24 55 00	22 50 51					900
79	"	"	"	23 06 18					900
80	comp							"	4
81	HD222994	"	"	23 23 53					908
82	"	"	"	23 39 25					1000
83	comp							"	4
84	BIAS(4)			23 57					0
85	HD222994	"	"	23 58 27					900
86	HD222994	"	"	00 14 24					900
87	comp			00 30 23				FeAr NO3	4
88	HD222994			00 32 36					120)
89	comp							"	4
90	BIAS(4)			00 54					0

CCD
Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr. Se

860 3"

870

813 4"

762

157

773

326 4"

CCD Spectr. Temp. -100.3°C Dome Temp./Hum. $4.8^{\circ}\text{C} / 68.4\%$ Transparency Conditions *clear* 270

Focus 6.88

Spectr. Temp. Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mir.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	3	4				CASS CCD	1800/mm 47.06	306 μ	5184	29			
	0									1			
	900	860	3"-4"	9.5	F5					6			
	900	870	"	"	"					7		S/N ~ 70/1	
	4									8			
	908	813	4'-5"	9.5	F5					9			
	1000	762	"	"	"					10			
	4									11			
	0									1			
	900	757		9.5	F5					12			
	900	773		9.5	F5					13			
	4									14			
	120	326	4'-6"	"	"					15		through clouds	
	4									16			
	0									1			

PE 4
 271 1997 Nov. 7/8
 Date

Observers MKC+ / Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC49991	HD222994	23 40 36	24 55 00	00 56 34					1271
92	comp							FEAR ND3	4
93	comp							"	4
94	HD32963	05 01 48	26 12 00	01 26 24					720
95	comp							"	4
96	BIAS(4)			01 46					0
97	comp							"	4
98	BD+12511	2000 TH 03 49 28	12 54 44	01 45 19					901
99	"	"	"	02 00 50					915
CC 50000	comp			02 17 19				"	4
01	BD +12511	"	"	02 19 57					900
02	BD +12511	"	"	02 35 55					904
03	comp							"	4
04	Bras (4)			02:52:05					0
05	BD +12511			02:54:40					880
06	comp							"	4

LCD
 Spectr. Temp.
 Focus.....
 Spectr. Temp.

Exp. Mtr. Se

250 4"

190

356 4"

427

396

350

44

LCD
 Spectr. Temp. -100.4°C Dome Temp./Hum. $4.1^{\circ}\text{C}/70.0\%$ Transparency Conditions *partly clear* 272
 Focus 6.88
 Spectr. Temp. Dome Temp./Hum.

Comparison Filter Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1271	250	4"-5"	9.5	FS	CASS CCO	1800/mm 47.06	306 μ	5184	17	W UMa star	through clouds	
23	4								17			
	4								17			
720	1190		7.72	G2V					18	Std Vel		
	4								18			
0									1			
4									19			
901	356	4"-5"	9.5	G0					20			
915	427		"	"					21			
4									22			
900	376								23			
904	350								24			
4									25			
0									1			
280	376								26		— low counts	
4									27			

PE 5
273 1997 Nov. 7/8
Date

Observers MKG + / Lu

Emulsion Batches:
.....
.....
.....

CCD
Spectr. Temp.
Focus.....
Spectr. Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter Exp.	
CC 50007	BIAS(4)			03 03 34					
08/ 17	flats							Tung ND 4	6

Exp. Nr. Sec.

Pg# 1

275

Date 1997 Nov 8/9..... Observers MKit/Tn.....

SAT/54M

+Chris Gravel 3rd Year 325 course

Emulsion Batches:

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.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC500 ^{18/19}	Inboard / OUTBOARD		Hektmann					FEAR NO 3	4/7
20	BIAS(A)			1744				"	4
21	Comp							"	4
22	HD 199081	20 49 43	+4400 31	174637				"	57
23	Comp							"	4
24	Comp							"	4
25	HD 222994	23 40 36	+245500	175518				"	910
26	Comp							"	4
27	Comp							"	4
28	HD 187691	19 46 14	+1009 55	181642				"	193
29	Comp							"	4
30	Comp							"	4
31	HD 222994	23 40 36	245500	182711				"	93
32	"	"	"	184308				"	902
33	Comp			23 59				"	4
	BIAS(A)							"	0

Exp. Mtr. See

Spectr. Temp.

Focus... 6"

Spectr. Temp.

Exp. Mtr. See

1020V

2.7k 2"

535 1.5"

6k 2"

20 2"

20

CCD Spectr. Temp. -100.3°C

Dome Temp./Hum. $+8.0^{\circ}\text{C } 80\% \text{RH}$

Transparency Conditions *mostly clear* 276

Focus 6.88

Spectr. Temp.

Dome Temp./Hum. 07

→ MAX ADU

Comparison /Filter Exp.

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000V				CASS CCD	1800/4706	30 μ	518AP	3/4	Focus test	(undamaged)	
								1			
								5			
2.7K	2"	4.78	B5I					6	Normalization star.		2.3K
								7			4K
								7			
535	1"-2"	9.5	F5					8	W UMa star	some cloud	400
								9			
								9			
6K	2"	5.11	F8V					10	star		5.2K
								11			
520	2"	9.5	F5					12	W UMa star.		
620								13			
								14			
								15			

277 P9 #2

SAT/SUN

Emulsion Batches:

Date 1997 Nov 8/9 Observers MKit/Tm

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC500 34	HD 222994	23 40 36	+24 55 00	19 01 22	edit ✓				912
35	HD 222994	"	"	19 19 17					909
36	Comp							FeAr ND3	4s
37	BIAS(4)			19 36					0
38	HD 222994	"	"	19 37 44					900
39	"	"	"	19 53 36					900
40	Comp							FeAr ND3	4s
41	HD 222994	"	"	20 10 46					900
42	"	"	"	20 26 07					908
43	Comp							"	4s
44	BIAS(4)			20 42					
45	Comp							"	4s
46	HD 222366	23 34 48	+05 05 03	20 47 54					94
47	Comp							"	4s
48	Comp							"	4s

Spectr. Temp.

Focus..... 6

Spectr. Temp.

Exp. Mtr.

655

860?

857

914

1K

50

6K

Spectr. Temp. Dome Temp./Hum. $+6.7^{\circ}\text{C } 86.8\% \text{H}$ Transparency Conditions *Part Cloudy* 27.8

Focus *6.88*

Spectr. Temp. Dome Temp./Hum. *ca*

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Pr. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	912	655	2.3	9.5	F5	C1155000	1800h	306	5184	15		written in 13c1	
	909	860?			.					16			~600
4/3	45									17			
	0									1			
	900	857								18			
	900	914								19			
4/3	45									20			
	910	1K								21			
	908	950								22			
	45									23			
										1			
										24			
	94	6K		4.13	F7V					25	Std vel		9.5K
	45									28			
	45									28			

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SAT/54M

Date 1997 Nov. 8/9... Observers M.K. t... / T.S.....

Emulsion Batches:

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Plate No.	Object	R.A.	Declination	Starting Time	Ending Time	Hour Angle	Declination	Comparison	
		1900	1900	E.S.T.	E.S.T.	End		Type/Filter	Exp.
CC50049	BD+12 511	034928	²⁰⁰⁰ +125444	21 03 06					907
CC50050	"	"	"	21 19 25					907
51	Comp							FeA ND3	4s
52	BD+12 511	034928	+125444	21 38 26					900s
53	"	"	"	21 54 12					900s
54	Comp								4s
55	BD+12 511	034928	125444	22 12 36					899
56	"	"	"	22 28 52					900
57	Comp								4s
58	Bias(4)			22 46					0
59	BD+12 511	034928	125444	22:48:44					899
60	"	"	"	23:04:56					900
61	Comp								4s
62	BD+12 511	034928	125444	23:22:08					900
63	"	"	"	23:37:46					900

Spectr. Temp.

Focus.....6

Spectr. Temp.

Exp. Mtr. Se

1000

518. 4

5854

498

437

377

281

273

243

412

468

Spectr. Temp. Dome Temp./Hum. $+6.0^{\circ}\text{C}$ 70% Transparency Conditions 280

Focus 6.88

Spectr. Temp. Dome Temp./Hum. 27°C

Comparison
Filter Exp.
90.2
90.7
4
90.3
90.5
4.5
89.9
90
4.5
0
89.9
90
4.5
90
90

Exp. Mtr.	Seeing	H α Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000V 578	4"	9.5	G0	CASSCO	1800/1 4706	306 μ	5184A	27			
518534								28			
								29			
498								30			
437								5			
								6			
377								7			
281								8			
								9			
								1			
273								10			
343								11			
								12			
412								13			
468								14			

281
pg 24

Date ... 1997 Nov. 8/9 ... Observers ... Mki + /Tn

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC50064	comp							Fe-Ar	4s
CC50065	BD+12 511	03:49:28	12:54:44	23:55:31					900s
CC50066	"	"	"	00:11:22					900
67	comp							Fe-Ar	4s
68	bias			00:28:04					0
69	BD+12 511	03:49:28	12:54:44	00:30:41					900
70	"	"	"	00:46:59					900
71	comp							Fe-Ar	4s
72	BD+12 511	03:49:28	12:54:44	01:04:29					900
73	"	"	"	01:20:30					900
74	comp							Fe-Ar	4s
75	bias			01:37:30					
76	BD+12 511	03:49:28	12:54:44	01:39:39					900s
77	"	"	"	01:55:22					900s
78	comp							Fe-Ar	4s

CCOT
Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr. Sec.

322

404

507

308

291 308

399

415

332

CCDT
Spectr. Temp. -100.0°CDome Temp./Hum. $4.9^{\circ}\text{C}/70\%$ Transparency Conditions *Part. Cloudy*..... 282

Focus 6.88.....

Spectr. Temp.

Dome Temp./Hum.

Comparison
Filter Exp.

Comparison Filter Exp.	Exp. Mtr.	Seeing	Mag. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
k 4s		~4"	9.5	G0	CHSS CCD	18001 N 97.06	300μ	5184 Å	15			
900s	322								16		not clouded in.	
900	464								17			
Ar 4s									18			
0									1			
900	507								19			
900	308								20		clouds.	
Ar 4s									21			
900	291	3-5"							22			
900	399								23			
Ar 4s									24			
									1			
900s	415								25			
900s	382								26			
Ar 4s									27			

283
p9 #5

Date 1997 Nov 8/9 Observers M.K. / T.A.

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC50079	BD +12 511	03:49:28	12 54 44	02:13:12					900
CC50080	"	"	"	02:30:25					900
CC50081	comp			02:30:25					4
CC50082	bias(A) * comp			02:47:57					
CC50083	BD +12 511	"	"	02:50:57					
CG 811 63/66	HD 36408	05 26 24	+16 59					4x 67	
67/68	"							2x 133	
CC50083	Comp							FEA NO3	4c
CC50084	BD +12 511	03:49:28	+12 54 44	03:22:10					900
CC50085	"	"	"	03:38:17					900
CC50086	comp								4
CC50087	BD +12 511 bias	"	"	03:55:29					
CC50088	BD +12 511	"	"	03:59:52					899
CC50089	"	"	"	04:15:41					900
CC50090	comp								4

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr. Se

3/2

302

Note: T.

193

259

254

267

Spectr. Temp. Dome Temp./Hum. ... 4.4°C / 72.3% Transparency Conditions . increasing . Cloud . 204

Focus 6-88

Spectr. Temp. Dome Temp./Hum.

CA

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	900	312	ny"	9.5	G0	CHSS CCD	1800/μ 47.06	306μ	5184i	28			
	900	312 302								29		chip a bit warm	
	4									30			
* Note: This BIAS much affected By chip warming										1		CCD WARMING ~ -60°C	
										67		Topup done	
4x67			34" 5.5		B9	ABSOE	306μ	slit				Seeing Test scale photo. Poor seeing However	
2x133													
4x										7		Topup done by 0315	
900		193	5-8"	9.5	G0					8			
900		259								9			
4										10			
899		254								11			
900		327								12			
4										13			

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SUN / MOU

Date ... 1997 Nov. 9 / 10 Observers ... M.n. / J.n.

Emulsion Batches:

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Plate No.	Object	R. A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC50 ⁰⁴ 105	Inboard / out BOARD							REA NO4	4/7
106	BIAS(4)			17 40				"	4s
107	Comp							"	4s
108	HD 193527	20 1434	+40 2513	17 40 35					155
109	Comp							"	4s
110	Comp							"	4s
111	VES 735	02 2007 ²⁰⁰⁰	+61 07 03	17 53 31					2400
112	Comp							"	4s
113/116	FLATS x 4							JUNG NO5	4s
117	BIAS(4)			18 38					0
118	Comp							REA NO4	4s
119	VES 735	02 20 07 ²⁰⁰⁰	+61 07 03	18 46 59					2404
120	Comp							"	4s
121	VES 735	"	"	19.3057					2400
122	Comp							"	4s
123	BIAS(4)			20 12					0

CO
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. S

No filter

1000V

32K

320V

38K

33K

11K

CCD Spectr. Temp. - °C

Dome Temp./Hum. +5.5°C 66% RH

Transparency Conditions Fine 288

Focus 7.00

Spectr. Temp.

Dome Temp./Hum.

445 0 50 1024 41 CCD/MT

Comparison Filter Exp.

Exp. Mtr.	Seeing	Plg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emission	P.H.	Program	Remarks	Quality
4/7 4				C455 CCD	0600C 27.07	306 μ	5152 ± 5Å @ Row 512	3/4	*note	PREVIOUS CD ~ 5130 were VERY rough Approximations of center λ	13K
4 155	1000V 3.2K							5			
4 48		5.84	09V					6		NORMALIZATION and spectrum std.	7.4K
4 48								7			
4 240	1320V 2.8K							8			
4 48	2-3'	12	0					9		70 ABOVE SKY	
4 48								10			
4 48								2			
4 48								1			
4 240					27.03		~ 5130Å	11		Wavelength change needed to avoid Red sky line.	12K 65 ABOVE SKY
4 48	2.3K	4-6"	12	0				12			
4 240								13			
4 48	2.1K							14		~ 50 ABOVE ABOVE SKY	
4 48								15			
								1			

289 p4#2

Sun/Mon

Emulsion Batches:

Date ...1997... Nov 9/10... Observers ...Mn./...Tn.....

Plate No.	Object	R.A.	Declination	Starting Time	Ending Time	Hour Angle	Declination	Comparison	
		1900	1900	E.S.T.	E.S.T.	End		Type/Filter	Exp.
CC50124	VES 735	02 2007	+61 07 03	20 15 59			-		2400
25	Comp							REAR ND 4	4s
26	VES 735	"	"	20 58 16					2400
27	Comp							"	4s
28	BIAS(4)			21 40					0
29	VES 735	"	"	21 42 06					2500
30	Comp							"	4s
31	VES 735	"	"	22 26 04					2400
32	Comp							"	4s
33	BIAS(4)			23 07					0
34	VES 735	"	"	23 09 29					2400
35	Comp							"	4s
36	VES 735	"	"	23 52 01					2400
37	Comp								4
38	BIAS(4)			00 33					0

Spectr. Temp. Dome Temp./Hum. $+33^{\circ}\text{C}$ 70.2% H Transparency Conditions .. Fine - increasing 290
 Focus 7.00 Haze

Spectr. Temp. Dome Temp./Hum. CD 445 050 1024 41 CCD FMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	240	1320V	5"12"	128	0	CASCO	0606h 2703	306u	5130A	16		very poor seeing	
	45									17			
	240	20/K								18			
	8									19			
	0									1			
	250	2.1	4"6"	128	0					20			
	45									21			HK
	240	2110	3"							22			
	45									23			
	0									1			
	240	2178	3"							24			
	45									25			
	240	20/K	3"							26		<u>~ 100 ADD ABOVE Sky</u>	
	4									27			
	0									1			

291 pgt#3

Sun / Mon

Emulsion Batches:

Date .1997. Nov. 9/10... Observers ... M.H. / T.H.

Plate No.	Object	R.A. 1900-2000	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter Exp
CC50139	VES 735	022067	+610703	003423				240
140	Comp							FeAr ND4 4s
141	VES 735	"	"	011608				1749
142	Comp							" 4s
143	BIHS(4)			0147				0
144	Comp							" 4s
145	HD 22951	033602	333839	015309				
146	Comp	"	"	02019				" 703
147	Comp							TUNG ND5 4
148/156	FLATS x 9							TUNG ND5 4s
157	BIHS(4)			0217				ND5 0

CCD
Spectr. Temp. -100.3°C

Dome Temp./Hum. +2.2°C 67.5%RH

Transparency Conditions .. Part. Cloudy 292

Focus 7.00

Spectr. Temp.

Dome Temp./Hum. +1.2°C 71.7%RH

Comparison Filter Exp.	Exp. Mtr.	Seeing	Pl. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
2920	1320K											
24	2085	3"	12.8	0	C455	600C 27.03	306	5130A	28		Carefully did Topup during exposure	
1749									29			
4	1.6K	2.3"							30		cloud extend	
0									31			
4									1			
									5			12K
	3K	2.3"	4.9%	B0.5V					6		mostly cloudy	
783	4K								7		mostly SKG	
4									8			124K
4									2			124K
0									1			

293py#1

Mon/Tues

Emulsion Batches:

Date . 1997 Nov 10/11 . Observers [Pm] / Th / Lu

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC 50158/9	in board / out board HARTMAN							FeA ND4	4/6
60	BIAS(4)			2343					0
61	comp							"	4
62	HD 203156	21 15 23	37 48 55	23 49 58					192
63	Comp							"	45
64	comp							"	45
65	HD 30282	04 41 06	36 32 00	23 59 53					679
66	Comp							"	45
67	comp							"	4
68	HD 22484	03 31 46	00 05 04	00 20 17					90
69	comp							"	4
70	comp							"	4
71	HD 44990	06 19 49	07 08 25	00 32 24					329
72	Comp							"	4
73	BIAS (4)			00 40					0

CCD Spectr. Temp. -100.3°C Dome Temp./Hum. $+30^{\circ}\text{C}$ 70%
 Transparency Conditions *clearing* 294

Focus 6.88

Spectr. Temp. Dome Temp./Hum.

ADU
~ MAX

Comparison
Filter Exp

Exp. Mtr.	Seeing	Plt Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000 V				C155 CCD	1800 μ 54.93	30 μ	6400A	5/6	focus test		
			F					1			
								7			10.8K
5K	4"	5.8	F-G					8	Rim Pgm		1.7K
								9			
								9			
7.1K	4"	8	F-G					10	"		3.3K
								11			
								11			
12K	4"	4.28	F9 II-V					12	std vel		4.7K
								13			
								13			
9K	4"	7	F-G					14	Rim Pgm		4.2K
								15			
								1			

295 P9#2

Mon/Tues

Emulsion Batches:

Date 1997 Nov 10/11..... Observers [Rm]/Lu/Tu.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CG 81169/72	BD+40 594	0310 24	+3216					4x	
73/76	DARK							4x	
77/78	"							2x	
79/80	BD+40594							2x	
CL50174	comp							F2AR ND 4	4x
75	H1D25361	035612	58 23 00	01 02 35					607
76	comp							"	4
77/84	flats x8							Tung ND 5	6
85/86	inbound lens BOARD							FINE ND 5	4/2
87	Comp							"	4
88	Vys 419 A/B	03 18 00	23 25 09	01 33 00					2350
89	comp							"	4
90	BIAS(4)			02 19					0
91	comp							"	4

2 CO
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. Se

PDR

26K

1320

3690

2CD
Spectr. Temp. - 100.3°C

Dome Temp./Hum. 1.1°C / 66.3%

Transparency Conditions clear 296

Focus 6.88

Spectr. Temp. Dome Temp./Hum.

400 0.50 1024 4 1 CCD/FMT

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CASS CCD	1800/mm 54.93	306	6400Å			Seeing test for Scaling	
	Poor to mediocre			A/Bout the		306	slit			SD cos δ = -10.8 SS = -13.1	
								16			
	3.6K	7.5	F-9					17	Rm Pgm.		
								18			
								2			11.8K
	V=1320					306	5300Å	1/2	focus test		
								7			
	3670	4"	12?	M:				8	Vys 419A/B	"C" too faint	
								9			
								1			
								9			

Pg #3

Mon/Tues

297 1997 Nov. 10/11

Observers [Vys]/Tn/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC50192	ACT72 3338	06 32 59	06 32 57 21 59 24	02 30 28					1819
193	Comp							FeNe ND 5	4
194	Comp							"	4
195	HD 36395	05 26 18	-03 41 06	03 08 15					629
196	Comp							"	4
197	B115 (4)			03 20					0
198	Comp * wrong stars (on west side of Vys 257AB)							"	4
199	BD+10 1857C	08 37 20	+9 55 13	03 28 35					2100
200	comp							"	4
201	BD+10 1857AB	"	"	04 06 23					1433
02	comp							"	4
03	B115 (4)			04 32					0
04	comp							"	4
05	HD 95735	10 57 54	36 38 00	04 37 12					321
06	comp							"	4

CCP
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mir. Se

4.5k ?

157k 305

2627

8750

7k 3

CCP
Spectr. Temp. -100.3°C

Dome Temp./Hum. $2^{\circ}\text{C}/66.7\%$

Transparency Conditions *clear* 298

Focus *6.88*

Spectr. Temp.

Dome Temp./Hum.

2 MAX

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1849	4.5K	3"	11.0	M0	CASS CCD	1800/mm 47.75	306 μ	5300	10	Vys 238	<i>2nd above sky</i>	940
	4									11			74K
	4									12			
	629	15.7K	3" 5"	7.97	M1					13	Marcy std vel		960
	4									14			7.2K
	0									1			
	4									15			
	2100	2627		11.8	M2					16	Vys 257c	<i>Looks earlier probably whole one.</i>	
	4									17			
	1433	8750		9.6	M2					18	Vys 257A3		
	4									19			
	0									1			
	4									19			
	32	17K	3"	7.48	M2					20	Marcy std		
	4									21			

299

p9#4

Mon/Tues

Date 1997 Nov 10/11 Observers [Vys]/Tn/24

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC50207	Comp							FeNe ND5	4s
08	BD+10 1857C	08 3720	+9 5513	04 4812					2087
09	Comp							"	4s
10	Comp							"	4s
11	BD-01 322	10 0659	-02 10 56	05 3316					988
12	Comp							"	4s
13	BIAS (4)			05 51					
14	Comp							"	4s
15	BD-17 3086	10 0724	-18 0726	05 5858					736
16	Comp							"	4s
17/23	FLATS x7							TUNG ND9	4s

(edit object to Tung)

Spectr. Temp.

Focus... 6.1

CCO
Spectr. Temp.

Exp. Mtr.

1320V

3.3K

34K

3450

Spectr. Temp. Dome Temp./Hum. $-1.4^{\circ}\text{C } 69\% \text{H}$ Transparency Conditions OK 300

Focus 6.88

Spectr. Temp. CCD Dome Temp./Hum. $-1.5^{\circ}\text{C } 69\% \text{H}$

Comparison Filter	Exp.	Exp. Mtr.	Secing	P.V. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4 ₅	1320V		#		CHSS CCD	1800ln 4775	300 μ	5300	21			
	2087	3.3K	4"	11.8	M2					22	Vys 257C	The one to East of Vys 257AB	
	4 ₂									23			
	4 ₂									23			
	988	3.4K	4"	10.6	M0					24	Vys 568	DSS Field odd	
	4 ₂									25			
										1			
	4 ₂									26			
	336	3450	5"	9.9	M0					27	Vys 570		
	4 ₅									28			
	4 ₅									2			11K

301
 p4#1 Tues / wed

Date ..1997..Nov..11/12... Observers [Vys]/Th./L.Y.....

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC502 ²⁴ / ₂₅	Inboard / out							Fene ND5	4/2
26	BIAS(4)			17 29					0
27	Comp							"	4s
28	HD 199081	20 11 43	14 00 31	17 32					1005
29	Comp							"	4s
30	Comp							"	4s
31	HD 216899	22 51 48	16 02 00	17 49 26					385
32	Comp							"	4s
33/38	FLATS x 6							JUNG ND4	4s
39	Comp							F2 Ne ND5	4s
40	HD 44982	06 19 48	82 21 00	19 47 08					1000
41	Comp							"	4
42	HD 44982			20 05 20				"	1000
43	comp							"	4
44	BIAS(4)			20 23					0

CCD
 Spectr. Temp.
 Focus.....6
 Spectr. Temp

Exp. Mir. S

120V

50K 50

3K

3.35K

4.3K

CCD Spectr. Temp. ... -100.3 °C ...

Dome Temp./Hum. ... +21.5 °C ... 46.18%

Transparency Conditions ... Part Clear ... 3.02

Focus ... 6.94

Almost Full Moon

Spectr. Temp.

Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	✓ Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4/2	1320V				CHSS CCD	1800 l 47.75	306	5300A	3/4	Focus test		
	0									1			
	4/5									5			63K
	1005	50K	4.2"	4.8	B5V					6	Normalisation Star		43K
	4/5									7			69K
	4/5									8			
	385	5K	1.2"	8.66	M2					9	MARCS tel	cloudy streak	
	4/5									10			
	1016									2			
	4/5									11			
	1000	8.35K	1.2"	9.8	45V					12	SV Cam.		
	4									13			
	1000	9.3K	"	"	"					14			
	4									15			
	0									1			

303
p4#2

Tues/Wed

Date 1.9.97 Nov 11.12... Observers [V.S.] / T.G. / L.Y.....

Emulsion Batches:

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.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC 50245	Comp							FENE NDB	4s
46	AC+8007	00 13 57	2000 80 39 41	20 27 17					1108
47	Comp							"	4s
48	comp							"	4s
49	AC+69173	00 21 09	1900 69 35 29	20 51 36					511
50	Comp							"	4s
51	BIAS(4)			21 02					0
52	Comp							"	4s
53	HD 1376	00 12 42	1900 +43 27 00	21 07 32					504
54	HD 1376	"	"	21 16 46				"	483
55	Comp							"	4s
56	Comp							"	4s
57	AC+5519224	02 49 10	+55 02 14	21 46 29					760
58	comp							"	4s
59	BIAS(4)			22 01					0

Spectr. Temp.

Focus.....6

CCD

Spectr. Temp.

Exp. Mtr.

1320V

3470

1.9K

3K

64

3324

Spectr. Temp. Dome Temp./Hum. $+1.1^{\circ}\text{C}$ 50.6%H Transparency Conditions ... PART CLEAR 204

Focus 6.94

Spectr. Temp. ^{CCD} - $^{\circ}\text{C}$

Dome Temp./Hum. $+00.7^{\circ}\text{C}$ 50.9%H

400 0 50 1024 4 1 CCD/FMT

Comparison
Filter Exp.

Exp. Mtr.	Seeing	Pr. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1320V				CASS CCD	1600ln 47.75	3060	5300A	15c			607K
3470	4.2"	10.7	MO					16	Vys 354A	LS 0000 38 LS +0000 30	
								17			
		10.5						17			
1.9K	1.2"	10.57	MO					18	Vys 357	thin cloud very weak	
								19			
								1			
								20			
3K	1"	8.07	MI/IE					21	Marcy silver	cloud	
6H	1.2"	"	"					21	" "	" part clear	
								22			
								22			
320	1"	10.5	MO					23	Vys 410A	15ADU above sky thin cloud slightly weak	
								24			
								1			

205
p4 #1

Wed/THURS

Date 1997 Nov 12/13... Observers MKi... J.T.H.....

Emulsion Batches:

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.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC50260	BIAS(4)								0
61/62	Inboard / outboard							FeNe ND5	4/2
63	Comp							"	4
64	HD216899	22 5148	+16 0200	17 3216					453
65	Comp								4
66/69	FLATS x 4							TUNG ND4	4s
CC50270/71	Inb / out							FeAr ND4	3/4
72	* Comp							"	4
73	* HD201057 - Io (Moon of Jupiter)			18 59 26					72
74	Jupiter								4
75	Jupiter ✓								10
76	Comp							"	4
77	BIAS(4)								0
78/82	FLATS x 5							TUNG ND5	2s
83	BIAS(4)								0

Spectr. Temp.

Focus... 6"

Spectr. Temp.

Exp. Mtr.

1000V

835

-1.0

40K

Spectr. Temp. Dome Temp./Hum. -00.5°C 59%^H Transparency Conditions Fine 306

Focus 6.94

Spectr. Temp. Dome Temp./Hum. -1.3°C 61.3%^H

Comparison Filter	Exp.	Exp. Mtr.	Seeing	PM Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	0	1000V				CCD	1800/47.75	306	5300A	1			
5	4/2									3/4			
	4									5			
	453	835	3.5	8.6	M2					6	MARcy	slud	
	4									7			
16	4									7			10K
4	3/4	-1.1°C	7.04				29.15		6300A ± 10A 512	3/4	focus	325 0 50 1024 4 1	
	4									5			
	72	40K								6		Jupiter Saturn ad.	5.5K
	4									7			AK
	10									8			
	4									9			
	0									1			
16	25									2			13K
	0									1			

307 pg #2 wed/Thurs

Emulsion Batches:

Date 1997 Nov. 21/13..... Observers m.k.i./J.G.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Ex
CC50284	HD 001 057 IO ✓	21 02 08	-17 51 24	19 24 18					160
85	✓ SKY near IO ✓								160
86	Comp (Hendler SAGs (object) 3sec exp. 11/21/97)							FEAR ND4	4s
CC50284/88	Inboard / outboard Hartmann							FEAR ND3	4/6
89	BIAS (4)			22 07					0
90	Comp							"	4s
91	* BD+17/579	1991.25 03 34 59	+17 42 36	22 28 12					1620
92	" edit. ✓		"						486
93	Comp							"	4s
94	Comp							"	4s
95	HD 44982	1900 06 19 48	+82 21 00	23 16 24					1011
96	Comp							"	4s
97	ND 44982	"	"	23 34 20					1005
98	Comp							"	4s
99	BIAS (4)			23					0

Spectr. Temp. ...
 Focus ...
 Spectr. Temp. ...
 Exp. Mtr. ...
 199k
 70
 4s
 4/6
 0
 4s
 1620
 83
 4s
 4s
 1011
 750
 4
 4s
 1005
 735

Spectr. Temp. Dome Temp./Hum. -1.4°C 62% Transparency Conditions *Fine* 300

Focus *7.04* - *6.96 for 1800h*

Spectr. Temp. Dome Temp./Hum. -2.5 69.5% *H*

MAX

Comparison of Filter Exp	Exp. Mir.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
160	1000 1.9K	5" 6			CASS CCD w	600C Smallest	306u decker setting		10		CCDFMT	10K
160	i70					29.000			11		encoder logged too	
24r 104 4s									12			
23 9/6 0					CASS CCD	1800h 47.06	306u	5184 Å	1 1/2	focus test	CCD Rotated 90° CW of normal O 375 1024 5014 CCDFMT	
4 4s									1			
4 4s									3			
100 46	235 83	212 "							4 5		wrong star "	
4 4s									6			
1 4s									6		Fel West side now	
1011	750	4" 9.8		G5V					7	SV Cam	$\Delta\alpha +00\ 02\ 09$ $\Delta\delta -00\ 02\ 09$	
4 4s									8			
1015	735	" "		"					9			
4 4s									10			
0									1			

201 P9 #3

Emulsion Batches:

Date 1997 Nov 21/13... Observers P.K. / T.M.

Copy 158-184 To: [unclear]

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC50300	Comp							FeAr ND 3	4s
01	MD22484	03 3146	+00 05 04	00 08 53					
02	Comp							"	4s
03	Comp							"	4s
04	BD+17 579	03 3159	+17 42 38	00 25 14					1118
05	Comp	"	"	00 9 45					
06	Comp							"	939
07	BD+17° 579	03 3159	+17 42 38	01 02 17					9
08	"	"	"	01 18 22					
09	Comp							"	4s
10	BD+17 579B	"	"	01 35 10					750
11	Comp								4s
12	B/A/S(A)			01 50					0
13	"			01 56					0
14/20	FLATS X 7							Jung ND 4	6s

199125? * check encoder log

CCD
Spectr. Temp.
Focus
Spectr. Temp.

Mr. Sec

1000/

622 3'

569

500 2'

570

350 2'

CCD
Spectr. Temp. -100.2°C

Dome Temp./Hum. -2.4°C 68%RH

Transparency Conditions $\text{OK} - \text{cloudy}$ 30

Focus 6.95

Spectr. Temp.

Dome Temp./Hum. -2.5°C 72%RH

0 375 1024 50 1 4 CCD FMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	3 45	1000V					1800/17	3064	5184	11			
				4.28	F9 IV V					12	st 01 01	-00 00 00 -00 01 54	4K
	45									13			
	11 45									14			
	118	622	2-3"	10	GO					15		Brighter of Close double. (NW one)	
		540								16			
	11 45									17			
	939	600	2-3"							18			
	9	610								19			
	11 45									20			
	750	350	2"							21		add image fainter South one, Then cloud	
	45									22			
	0									1			
	0									1		Looks normal	
	1024 65									23			

311 pg#1

THURS / FRI

Date 1997 Nov 13/14... Observers ... mki + Glad etc. / T.M

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC503 ^{21/22}	In board / out board		HARTMAN					FeAr ND3	4/6
23	BINS(4)			17 35					
24	Comp							FeAr ND3	4s
25	HD 199081	20 4943	+44 0031	17 37 46					63
26	Comp							"	4
27	Comp							"	4
28	TYC 38871381	17 1057	+53 21 10	17 46 16					1200
29	Comp							"	4
30	TYC 38871381	"	"	18 12 18					1800
31	Comp								4s
32	BINS(4)			18 44					0
33	TYC 38871381	"	"	18 44 27					
34	Comp							"	4
35	Comp							"	4
36	HD 177724	19 0049	+13 42 53	19 20 07					64
	Comp								

CCD
Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mir. Se

200V
6-1/2

3K

1320V

4K

42K 2

44K 2

97K

CCD
Spectr. Temp. ... -101.1°C ...

Dome Temp./Hum. +1.1°C 58% H

Transparency Conditions . Part Clear, 312.

Focus 6.88

Full moon

Spectr. Temp. :-101.0°C ...

Dome Temp./Hum. -00.2°C 60% H

400 050 102A 41 CCD FMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	P.V. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4/3	4/6	1000V no filter				CASS CCD	KBDM 51-58	25u	5874A	3/4	Focus test		
								check		1			
4/3	4/5							headers		5			5.5K
	3/3	3.K						10.2" Tm		6			3.2K
	4/4							5194?		7			
	4/4	1320V 4K	1.2"	10.92						7			
	1/200									8		Δα -00 0024 -150 ADU SS -00 0118 ABUSKY	
	1/4									9			
	1/800	4.2K	2"-3"	10.92						10		Thin cloud/haze	
	4/3									11			
	0									1			
		4.4K	2"-4"	10.92						12			
	4/4									13			
	4/4									14			
	6/4	2.7K								15			1.7K

313
p4#2

THURS / FRI

Emulsion Batches:

Date 1997 Nov 13/14... Observers Gld. + / Th.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC 50337	HIP 177724	19 00 49	+13 42 53	19 21 56					167
38	Comp							FA ND 3	45
39/47	FLATS x 9							TUNG ND 4	45
48	BIAS(A)			19 31					0
49/50	Inboard / out Board							FA ND 3	4/5
51	Comp							FA ND 4	45
52	HD 222994	23 40 36	+24 55 00	19 57 28					355
53	Comp	"	"	20 10 52		Too weak,		"	580
54	HD 222994	"	"	20 33 08					580
55	Comp							"	4
56	BIAS(A)			21 01 30					0
57	Comp							"	4
58	HD 4614	0 43 03	57 17 06	21 12 40					102
59	HD 4614	0 43 03	57 17 06	21 19 04					22
60	HD 4614	0 43 03	57 17 06	21 24 39					108
61	comp							FA ND 4	4

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mir.

1320V

83K

511

320V

5K

44K

12K

22K

22K

2.1K

Spectr. Temp. Dome Temp./Hum.

Transparency Conditions ... *cloudy* 314Focus ... *6.88 for 1800 / 7.13 for 600C grating*Spectr. Temp. Dome Temp./Hum. *C7*400 0 50 1024 *41 CCD FMT*

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
167		1320V 83K		2.77	B			250	5844A	16	Telluric Std.		6.3K
4	4									17			
16	4									18			15.4K
0										1			
17	4/5	still 1320V			set 7/13		0600	470u	408A	3/4	Focus	SAME CCD FMT, 0.5 PROUBAS	3K
14	5									19			
355		5K	2.3"	9.06	F5					20		cloudy	
50		8.9K								2		Reset All after a typo <u>CRASH</u>	
550		12K								4			
1	4									5			
0										1			
4										5			
102		2.2K 2.4K		3.5		F9V				9			
20		2.2K								7			
108		2.1K								7			
4										8			

315
p43

Date 1997 Nov 13/14... Observers Gld / Attard & others / Tu.

Emulsion Batches:

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.....
.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
cc 503 ⁶² / ₆₆	FLATSx	5						J416 ND3	6s
67	BIAS(4)			21 50					D

Spectr. Temp
Focus...
Spectr. Temp

Exp. Mtr. S

317
pg #1

Tues/Wed

Date 1997 Nov 18/19 Observers Lu/Tn

Emulsion Batches:

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.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC50368/69	Inboard / outboard		Hartmann	test				FAr ND3	7/2
70	BIAS(4)			19 07					0
71	Comp							"	4
72	CN And	00 20 30	40 13 36	19 14 41					806
73	comp							"	4
74	CN And	"	"	19 31 17					1202
75	Comp							"	4
76	Comp							"	4
77	H1272368	233448	050503	19 5727					722
78	Comp								4
79	BIAS(4)			20 03					0
80/86	FLATS x 7			20 05				TRNG ND3	4

CCD
Spectr. Temp

Focus.

Spectr. Temp

Exp. Mr.

S

120V

490:

470

7K

CCD - 1025 C
Spectr. Temp.

Dome Temp./Hum. 400.9 C 64.5 H

Transparency Conditions PARTIAL clearing 318

Focus 6.93

Spectr. Temp.

Dome Temp./Hum.

~ MAX

Comparison Filter	Exp.	Exp. Mtr. No. Filter	Secing	P.V. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	3	1000V				CHSS CCD	1800/1mm 4706	306	518A	3/4	focus test		
	0									1			
	4									5			4K
	805	440:		10	F5					6		through clouds	
	4									7			
	1202	470	23							8			
	4									9			
	4									9			
	222	7K		4.13	F7V					10	Std vel	cloudy	~ 4K
	4									11			
	0									1			
	4									2			13K
										18			
										18			

319

Thurs / Fri

Emulsion Batches:

Date 1997 Nov 20/21... Observers J. H. K.

Plate No.	Object	R. A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC50387/88	Inb/out							Feltr ND3	4/7
95	BIAS(4)								0
89	Comp							"	4s
90	HD 200905	21 0118	+433144	17 2714					46
91	Comp							"	4s
92	Comp							"	4s
93	HD 187691	194614	10 09 55	17 3608					135
94	Comp							"	4s
96	Comp							"	4s
97	HD 44982	061948	+822100	17 53 59					1200
98	Comp							"	4c
99	HD 44982 BIAS(4)			18 34					468
CC50400/06	flats							Tuag ND3	4

 CCD
 Spectr. Temp.
 Focus... 6.9
 Spectr. Temp.

Exp. Mtr. Se

5.0 K 1

422 2

492

CCD
Spectr. Temp. Dome Temp./Hum. $+2.6^{\circ}\text{C}$ 67%^H Transparency Conditions Fine 320

Focus 6.93

Spectr. Temp. Dome Temp./Hum. CD

Comparison
Filter Exp.

13 4/7
0
45
48
43
55
135
45
48
1200
40
160
4

Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
				CHSS CCD	1800 μm 47.06	306 μ	5184A	3/4	focus test		
								1			
				3.72 KA-516-II				5			
				3.72 K5-516-D				6	Just NORMALIZATION star		7.7K
								7			
				1560 K 1"	5.11	F8 V		7	star vel		
								8			
								9			
								10			
				422	2"	9.8	G5 V	11			
								12		through clouds	
				292	"	"		13			
								14			
								2			12.5K

321

FRI / SAT

Emulsion Batches:

Date 1997 Nov 21/22 Observers [V.G.S.]/T.N.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
08	Inboard / OUTBOARD			AURT machine test				FeNe ND5	4/2
09	Comp							"	4
10	HD 218804	23 05 50	+43 00 25	19 35 06					385
11	Comp							"	4
12	BIAS(4)			19 43					0
13	Comp							"	4
14	AC+09 2-34	00 13 08	+09 38 50	20 03 38					2027
15	Comp							"	4
16	AC+09 2-34	"	"	20 42 02					875
17	Comp							"	4
18	Comp							"	4
19	HD 1326	00 12 58	+43 27 44	21 01 15					838
20	Comp							"	45
21	BIAS(4)			21 16					0
22/28	Comp FLATS X 7							JUNG ND 4	4x

CCO
Spectr. Temp.

Focus 6

Spectr. Temp.

Exp. Mir. Se

200 V
no 6 Per

2K 1

400 1

150 3

570 3

CCD Spectr. Temp. -100.3°C Dome Temp./Hum. $+1.4^{\circ}\text{C}$ 69% H Transparency Conditions *clearing nicely \rightarrow VERY HOZY* ³²²
 Focus 6.93
 Spectr. Temp. Dome Temp./Hum. -0.4°C 66% H λ 400 0 50 1024 4 1 CCHFIT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4/2	1000 V no filter				CASS CCD T-grating	1800/47.75	306u	5300A	3/4	Focus test		
	4									5			6K
	385	2K	1.2"	5.94	F5 IV					6	Just normalization star		1.1K
	4									7			
	0									8			
	4									8			
	2077	400	1.4"	10.4	M10					9	Vys 356	<i>weak</i> (25 ADU above sky)	
	4									10			
	845	150	3"	4	"					11	Vys 356	cloud again	
	4		3"							12	Vys 356	star	
	4									13			
	836	670	3.4"	8.07	m1 V					14	Mercury std		
	45									15			
	0									1			
	46									16			10K

323
Pg # 1

Mon / Tues

Emulsion Batches:

Date 1997 Nov. 24/25. Observers [Vya] / T.n. / Ly.....

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp
CC 50A ^{24/30}	In board / out board							FeNo NPS	1/2
31	BIAS(4)			17 37					
32	Comp							"	4
33	HD 205730	21 3214	+44 5536	17 53 54					88
34	Comp							"	4
35	Comp							"	4
36	HD 216899	22 51 48	+16 02 00	18 03 46					660
37	Comp							"	4
38	Comp							"	4
39	AC+11 / 710-70	23 48 28	+11 33 07	18 19 09					2124
40	Comp							"	4
41	NYS 870A	"	"	18 57 02					2055
42	Comp							"	4
43	BIAS(4)			19 32					0
44	Comp							"	4

CCO
Sctr. Temp. ...
Focus ... 7.00
Spectr. Temp. ...

Exp. Mr. Seeing

1000 V
0.5 Filter

5K

1080 4

156 3.5

330 3.5

CCD
Spectr. Temp. -101.3 °C

Dome Temp./Hum. 2.9°C 62% H

Transparency Conditions Clearing... some snow risk... 324

Focus 7.00

Spectr. Temp.

Dome Temp./Hum.

400 0 50 1024 9.1 ctofMT v MAX

Comparison e/Filtel Exp	Exp. Mtr.	Seeing	Mag Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4/2	1000V no filter				CASS CCD	1800/n 47.750	306 _n	5300	3/4	Focus test		
									1			
									5			
88	85K		5.53	M5	10e				6	Normalisation star		2K
									7			
									7			
660	1080	4"	8.66	M2					8	Mary's tel vel		670
									10			
									12			
212	156	3.5"	12.2	M10					13	Vys 870B	fronter SE one of pair	
									14			
2055	330	3.5"	11.1						15	Vys 870A	~ 90/100 above sky	
									16			
									1			
									16			

Spectr. Temp. Dome Temp./Hum. ... -4.8°C 62.8% H Transparency Conditions ... mostly clear ... 326

Focus ... 7.00

Spectr. Temp. Dome Temp./Hum. c2

Comparison
Filter Exp
1670
1265
1910
190
1229
1016
124
0
45

Exp. Mtr.	Seeing	PK Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
100V 302	3"	10.98	M10	CASS CCD	1800lm 47.75	306u	5300A	18c 19	Vys 355	1 90ADU above	sky
								19			
								19			
268	3"	10.7	M2					20	AC+20 821-180	clouds in the field.	
								21			
								1			
								21			
1910	3"	8.07	M1 Fe					22	MARCA, STAVE	mostly cloudy	
								23			
								23			
190	3.5"	11.2	M					24	Vys 385 AC -06 2360-60	cloud extend 50ADU above sky	
								25			
								2			10.5K
								1			
								25			

32943 Mon/Tues

Emulsion Batches:

Date ... 1997 Nov 24/25 ... Observers [Vys.] I. Tr. / K. U.

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC50466	AC+09 2-3f	00 13 08	+09 38 50	21 53 20					1687
66 68	Comp							FEL6 ND5	4s
67	Comp BIAS(4)			22 40					0
69 ^{oe}	Comp							"	4s
70	AC+04 2410-76 BD+10 1857C	08 37 20	+09 55 13	00 42 49					1860
71	Comp							"	4s
72	Vys 257AB	"	"	01 16 17					615
73	Comp							"	4s
74	BIAS(4)			01 28					0
75	Comp							"	4s
76	AC-4 2410-76 ^{Vys 413}	03 02 34	-04 21 03	01 35 34					1310
77	Comp							"	4s
78	comp							"	4
79	Vys 419 c	03 18 20	23 25 09	02 09 40					2274
80	Comp							"	4

Spectr. Temp.

Focus ... 7

Spectr. Temp.

Exp. Nr.

100V

300

242

440

301

239

Spectr. Temp. Dome Temp./Hum. ^{-5.5°C 66.0%RH} Transparency Conditions ^{Misty, cloudy} 328
 Focus ^{7.00}
 Spectr. Temp. Dome Temp./Hum.
 Then clear.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	P.V. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	1687	300	3.4"	10.4	M0	CASS CCD	1800/47.75	306	5300A	27	Vys 356	65104116ae Sky	6.6K
	4s									28			
	0									28			
	4s									28			
	1860	242	3"	11.8	M2					26	Vys 257C		
	4s									29			
	615	440	2"							30	Vys 257AB	B+10 1857AB	
	4s									31			
	0									1			
	4s									5			
	1310	301	3"	10.5	M0					6	Vys 413	Field checks OK	
	4s									7			
	4									7			
	2274	239	3"	11.89	M					8		[Right star] ^{45 ADU} ^{18000 SKY}	
	4									9		HLW CARD Field OK	

"P&I

331 1997 Nov. 28/29

Date Observers

[HI]/TEC/LFB

Mki + Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC5048/85	Inboard/out board							FeAr ND 3	4/5
86	BIAS(4)			18:36					
87	BIAS(4)			00:26				FeAr ND 4	
88	comp							FeAr ND 4	4
89	HD 6961	01 05 01	54 37 05	00 28 19					90
90	comp							"	4
91	HD 6961			00 32 49				"	100
92	"			00 34 53				"	105
93	comp							"	4
94	comp							"	4
95	HD 4614	00 43 03	57 17 06	00 44 56					50
96	"			00 46 32					50
97	comp							"	4
98	comp							"	4
99	HD 13974	02 10 57	33 46 00	00 54 38					180
CL50500	"	"	"	00 58 35					200

Spectr. Temp

Focus.....

Spectr. Temp

Exp. Mtr. S

3.4K

10.5

10.5

10.3

10.3

0.3

0.2

Spectr. Temp. -100.4° Dome Temp./Hum. $5.0/90.3\%$ Transparency Conditions *cloudy* 332

Focus 7.05

Spectr. Temp. Dome Temp./Hum. 395 0 50 1024 4 1 CCD/FMT

Comparison Filter, Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
fr 23 4/5					CASS CCD	6000/mm 25,20	470 μ	4100	3/4			
									1			
									1			
Ar 4									5			11.8K
90	8.4K	4"	43	A3V					6		- clouds	
4									7			
100	10.5								8			
105	10.5								9			
4									10			
4									10			
50	10.3		3.5	F9V					11			
50	10.3								12			
4									13			
4									13			
180	10.3		49	G0V					14			
280	10.2								15			

333
7A 2

Date 1997 Nov 28/29

Observers [HI]/TEC/LFB/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
01	comp							FeAr ND 4	4
02	comp							"	4
03	HD 9826	01 30 56	40 54 19	01 07 10					210
04	"			01 11 00					100
05	comp							"	4
06	comp							"	4
07	HD 10307	01 35 42	42 06 12	01 17 12					624
08	comp							"	4
09	BIAS (4)			01 29					0
10	HD 10307	"	"	01 31 16					400
11	"			01 38 18					226
12	comp							"	4
13	comp							"	4
14	HD 34989	05 16 17	08 19 46	01 49 08					407
15	"			01 56 18					43
16	comp							"	4

Spectr. Temp.

Focus.....

Spectr. Temp.

Exp. Mtr.

Sec

3.8 K

10 K

3 K

10.3 K

6.4 K

10 K

10 K

Spectr. Temp. -100.5°C Dome Temp./Hum. $2.8^{\circ}\text{C}/84.4\%$ Transparency Conditions *clear* 324

Focus 7.05

Spectr. Temp. Dome Temp./Hum.

Comparison Filter	Exp.	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4					CASS CCD	600/25, 20	47 μ	2400	16			
	4									16			
	210	10.8 K		4.1	F8V					17		- clouds coming	
	100	10 K								18			
	4									19			
	4									19			
	624	3 K		5.0	F2V					20		cloudy	
	4									21			
	0									1			
	400	10.3 K								22			
	226	6.4 K								23			
	4									24			
	4									24			
	407	20 K		5.8	B1V					25			
	430	10 K								26			
	4									27			

PG 3

335 Date 1997 Nov. 28/29

Observers [HI]/TEC/LFB/Lu

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC50517	comp							FeAr ND4	4
18	HD 35007	05 16 26	-00 30 57	02 08 19					397
19	"			02 15 16					360
20	comp							"	4
21	BIAS(4)			02 22					
22/28	flats							Tung ND3	65
<hr/>									
29	HS 0624 +6907	06 30 03	69 05 04	04 50 12					1802
30	"			05 20 45					2100
31	comp							FeAr ND5	1.55
32	BIAS(4)			05 59					
33/37	flats							Tung ND5	0.54
38	BIAS(4)			06 04					0

Spectr. Temp.
 Focus.....
 Spectr. Temp.

Exp. Mtr. See

03K
 01K

HV=15
 1150

380

Spectr. Temp. -100.5°C Dome Temp./Hum. $2.4^{\circ}\text{C}/84.6\%$ Transparency Conditions \dots mostly clear
 Focus 7.05
 Spectr. Temp. \dots Dome Temp./Hum. \dots

Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4				CASS CCD	6000 μm	470 μm	4100	27			
397		5.67	B3V					28			
360								29			
4								30			
9								1			
65								2			13.7k
<hr/>											
1802					150 μm	470 μm	6600	6	Q50	420 0.50 1024 41 CCDFMT.	
2100		14.2						7			
5								8			
								1			
9								2			12.9k
5											
0								1			

PG 1
337

Date

1997 Nov, 29/30

Observers

Gld+ / Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CC 50539/40	In board/outboard							EAR ND3	4/5
41	BIAS (4)			17 54					0
42	comp							EAR ND4	4
43	HD 222994	23 40 36	24 55 00	18 06 12					1800
44	comp							"	4
45	HD 222994	"	"	18 37 53					1820
46	comp							"	4
47	BIAS (4)			19 09					0
48	comp							"	4
49	HD 16895	02 37 22	48 48 20	19 18 33					80
50	"	"	"	19 20 39					95
51	comp							"	4
52	comp							"	4
53	HD 21770	03 25 30	45 43 05	19 28 18					280
54	"	"	"	19 33 21					280
55	comp							"	4

ctr. Temp.

Focus.....

spectr. Temp.

sp. Mtr.

Sec

2355 4"

2310

10.2K

10.5K

10.3K

10.2K

Spectr. Temp. -100.2°C Dome Temp./Hum. $25^{\circ}\text{C}/77.8^{\circ}\text{C}$ Transparency Conditions *fine + some clouds*

Focus 7.11

Spectr. Temp. Dome Temp./Hum.

380 0 50 1024 4 1 CCDPMT

338

Comparison Filter	Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
3	4/5					CASS CCD	600C/mm 25.20	440 ₂₀	4100	3/4			
	0							470 ₂₀		1			
4	4									5			
1800	4	2555	4"	9.5	F5					6			
1820	4	2310								7			
	4									8			
	4									9			
	0									1			
	4									9			
80	4	10.2K		4.1	F7V					10			
95	4	10.5K								11			
	4									12			
	4									12			
280	4	10.3K		5.3	F4III					13			
280	4	10.2K								14			
	4									15			

PG 2

339
Date 1997 Nov. 29/30

Observers Gld+ / Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exposure
c 56	comp							FeAr ND 4	4
57	HD 20630	03 14 07	03 00 13	19 45 13					719
58	comp							"	4
59	BIAS(4)			19 59					0
60	comp							"	4
61	HIP 17818	(2000) 03 49 28	12 54 44	20 31 16					1800
62	comp							"	4
63	HIP 17818	"	"	21 03 06					1813
64	comp							"	4
65	BIAS(4)			21 34					0
66/72	flats							Tung ND 3	6
73	comp							FeAr ND 4	4
74	HD 27534	04 15 42	18 11 00	21 54 14					224
75	"	"	"	21 58 24					265
76	comp							"	4

Spectr. Temp. ...

Focus ...

Spectr. Temp. ...

Mr. Seeing

7K 4"

800

840

2050

2000

Spectr. Temp. -100.2°C Dome Temp./Hum. $1.5^{\circ}\text{C}/82.6\%$ Transparency Conditions *some clouds*

Focus *7.11*

Spectr. Temp. Dome Temp./Hum.

340

Comparison Exp. Filter	Exp.	Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
AY b4	4					CASS CLO	600C/mm 25,20	470	4100	15			
	7.9	7K	4"	4.8	G5V					16		— cloudy	
"	4									17			
	0									1			
	4									17			
1800		800		9.5	G0					18			
	4									19			
1813		890		"	"					20			
"	4									21			
	0									1			
19	6									2			
23	4									21			
24		2050		6.7	F5V					22			
26		2000								23			
	4									24			

341
PG 3

Date 1997 Nov 29/30

Observers Gldt/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp
CC50577	comp							EAR ND 4	4
78	HD 26015	04 02 02	14 55 43	22 08 00					192
79	"			22 11 34					462
80	HD 26015 faint comp.			22 18 50					207
81	comp							"	4
82	comp							"	4
83	HD 30652	04 44 25	06 47 12	22 27 56					336
84	"			22 33 59					121
85	comp							"	4
86	BIAS(4)			22 37					0
87	comp							"	4
88	HD 56537	07 12 21	16 43 15	22 41 37					288
89	"			22 46 45					301
90	comp							"	4
91	comp							"	4

Spectr. Temp.

Focus.....

Spectr. Temp.

Mtr. Sec

2000

2000

255

OK

10K

2200

2600

Spectr. Temp. $-100, 2^{\circ}\text{C}$ Dome Temp./Hum. $0.5^{\circ}\text{C}/84.6\%$ Transparency Conditions *fair* 3.42

Focus

Spectr. Temp.

Dome Temp./Hum.

Comparison Filter	Exp	Exp. Mtr.	Seeing	Ptg. Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
Ar	4					CASS CCD	600C/mm	470 μ	4100	24			
	192	2000		6.0	F3V					25		<i>fairly faint com. a few seconds to NWA</i>	
	462	2000								26			
	257	255								27			
	4									28			
	4									28			
	3/6	10 K		3.2	F6V					29			
	121	10 K								30			
	4									31			
	0									1			
	4									5			
	288	2200		3.6	F8V					6			
	301	2600								7			
	4									8			
	4									8			

343
PG 4

Date 1997 Nov 29/30

Observers Gldt/Lu

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC50592	HD 44478	06 16 55	22 33 54	22 56 38					417
93	"	"	"	23 04 14					248
94	comp							FeAr NDV	4
95	BIAS (4)			23 10					0

CCD
Spectr. Temp.
Focus.....
Spectr. Temp.

Exp. Mtr. Se

ok

ok

345
pg#1

Sun/Mon

Date 1997. Nov. 30./Dec. 1 Observers .. Mn./Tn.....

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC505 ^{96/97}	Inboard / Outboard							FeAr ND4	4/6
98	Comp							n	4
99	H D 356	030140	+403414	225606					37
600	Comp							n	4
601	BIA5(4)			2304					0
602	Comp							n	4
603	HD 22951	033602	+333839	230641					17
604	Comp							v	4
605	Comp							n	4
606	VES 735	022007 ²⁰⁰⁰	+610703	231840					2400
607	Comp							n	4
608	VES 735	n	n	000204					1025
609	Comp							n	4
610	BIA'S(4)			0022					0
611	Comp							n	4

CCD
Spectr. Temp.

Focus.....7"

Spectr. Temp.

Exp. Mtr.

100V

5K 5

1320V

1400 4

900 3

CCD Spectr. Temp. -100.5°C Dome Temp./Hum. $+2.0^{\circ}\text{C}$ 738A Transparency Conditions *Part Clear* 346

Focus 7.10

Spectr. Temp. Dome Temp./Hum. 380 0 50 1024 41 CCD FMT \sim MAX

Comparison / Filter	Exp	Exp. Mir.	Seeing	Mag.	Sp.	Inst.	Grating / Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4/6	1000V				CASS CCD	0600C 2705	306u	5140A	3/4	focus test		
	4									8			
	3/3			2.12	B8V					7	normalization star but was a white		5.7K
	4									8			
	0									1			
	4									8			
	A7	5K	5"	4.97	B0.5V					9	mk std		10K
	4									10			
	4	1320V								10			
	240	1400	4"	12.8	09?					11		\sim 60 AM above sky	
	4									12			
	1025	900	3"	12.8						13		\sim 30 above sky cloud at end	
	4									14			
	0									1			
	4									15			

347
Pg#2

Sun/Mon

Emulsion Batches:

Date 1997/Nov 30/Dec 1 Observers Mn/Tn

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CC50612	HD 36512	05 27 06	-07 22 31	00 29 03					187
13	Comp HD 36512			00 33 05					126
14	Comp						Fe Ar ND4		45
15	Comp						n		45
16	HD 48434	06 38 22	+04 01 54	00 47 15					519
17	Comp						n		45
18	Comp						n		45
19	HD 46223	06 27 00	+04 53 00	01 02 11					250
20	Comp						n		45
21	BTHS (4)			01 46					0
22/28	FLATS x 7							TUNG ND5	45
29	Comp						Fe Ar ND4		45
30	HD 48279	06 37 30	+01 49 00	01 56 18					533
31	Comp						n		45

CCO
Spectr. Temp
Focus.....
Spectr. Temp

Exp. Mtr.

Fe Ar

6.8k

5K

k

2.9k

300

CCD
 Spectr. Temp. -100.4°C Dome Temp./Hum. 400.3°C 76.26H Transparency Conditions ... mostly cloudy 348
 Focus 7.10
 Spectr. Temp. Dome Temp./Hum. -60.1°C 73.178
 380 0 50 1024 4 1 CCD FMT

Comparison Filter/Exp.	Exp. Mtr.	Seeing	Filter Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
187	1000 V 6.8K	5"	4.6	80V	CASS CCD	1600C 27.05°	306 μ	5740A	16	mk std	Slight saturation	5.5K
126	5K								17	enclosed	occidentally renormalized	13K
4									18	on this	stur.	
4									18			
519	5K	4"	5.74	B0 III					19	mk std.		13K
4									20			
4									20			
250	2.9K	3.5"	7.28	04 V					21	mk std.	through cloud	5.5K
4									22			
0									1			
5									2			11K
4									23			
533	300	4"	7.86	08 V					24	mk std	NORTH and brighter of close pair.	
4									25	1150	NORTH of wide pair	

PG 1
349

Mon/Tues

[Vys] Lu/Tn

Date 1997 Dec 1/2 Observers

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
CL50632/35	Inbound/out board							FEN2 MDS	4/2
34	Comp							"	4
35	HD 205 730	21 3214	+44 55 36	17 18 14					57
36	Comp							"	4
37	BIAS(4)			17 21					0
38	Comp							"	4
39	HD 268 49	22 51 48	+16 02 00	17 27 05					610
40	comp							"	4
41	Comp	23 03						"	4
42	AC+3 2781-116	23 03 00	+02 47 05	17 41 44					1233
43	comp							"	4
44	comp							"	4
45	AC+17.303138	00 03 19	16 52 12	23 07 20					1202
46	comp							"	4
47	BIAS(4)			18 29					

Spectr. Temp.

Focus ... 6"

Spectr. Temp.

Exp. Mtr. Se

1422 2

316

336

Spectr. Temp. -100.3°C Dome Temp./Hum. $+1.0^{\circ}\text{C}$ 61% H₂O Transparency Conditions *Fine* 350

Focus 6.95

Spectr. Temp.

Dome Temp./Hum.

400 0 50 1024 4 1 CCD/FMT

Comparison Filter	Exp.	Exp. Mtr.	Seeing	<input checked="" type="checkbox"/> Mag.	Sp.	Inst.	Grating/ Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
	4/2						18506 47.75	30u	5300A	3/4			
	4									5			
	57	5K			5.53 M5 IIIae					6			2K
	4									7			
	0									1			
	4									7			OK
	610	1422	2"	8.66	M2					8	Murcy stel vel		
	4									9			
	4									9			
	1253	316	1.2"	10.9	M0					10	Vys 343	some cloud	
	4									11			
	4									11			
	1202	336	"	10.73	M0					12	Vys 351		
	4									13			
										1			

pg. 2
351

Mon/Tues

[Vys] Lu/Tn

Date 1997 Dec 1/2 Observers

Emulsion Batches:

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Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison	
								Type/Filter	Exp.
CCS0648	comp							FeNe NDS	4
49	BD-9 40	00 12 34	-09 14 23	18 34 50					1450
50	comp							"	4
51	comp							"	4
52	Vys 385	01 58 29	-05 23 23	19 05 26					1765
53	comp							"	4
54	BIAS(4)			19 36					0
55	comp							"	4
56	Vys 396B	02 30 52	06 24 57	19 41 29					1900
57	comp							"	4
58	Vys 396A?	"	"	20 15 44					208
59	comp							"	4
60	comp							"	4
61	Act 11 20-183	02 38 56	10 32 07	20 24 10					1276
62	comp							"	4
63	BIAS(4)			20 54					0

Spectr. Temp.
Focus.....6
Spectr. Temp.

Exp. Mtr. See

1000V
318 18

357

305

4000

312 2

Spectr. Temp. -100.3°C Dome Temp./Hum. $-0.7^{\circ}\text{C}/65.2\%$ Transparency Conditions *fine* 352Focus 6.95

Spectr. Temp.

Dome Temp./Hum.

Exp. Mtr.	Seeing	Ps. Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
1000V				CASS CCD	1800/mm 47.75	306 300	5300	13			
318	1.3" 12.98	10.98 10	M0					14	Vys 355		
								15			
								15			
357		11.2	M0					16	AC-06 2360-60		
								17			
								1			
								17			
305		11.66	M					18			
								19			
4000		5.9	M?					20		looks M star, maybe K.	
								21			
								21			
312	2-3"	10.98	M0					22	Vys 4dA	thin clouds passing by.	
								23			
								1			

PG 3 Mon/Tues
 353
 Date 1997 Dec 1/2 Observers [Vys] / Lu / Tn

Emulsion Batches:

Plate No.	Object	R.A. 1900	Declination 1900	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	Declination	Comparison Type/Filter	Exp.
cc50664	comp							FeNe ND 5	4
65	HD1326	00 12 42	43 27 00	21 02 12					877
66	comp							"	4
CG 81 ^{81/84}	HD13013	2 02 18	+43 59 07	21 35				4x	67ms
CG 81 ^{85/86}	"							2v	133ms
cc50667	flats x 7							Tung ND 4	5
73				21 57					0
74	BIAS(4)								
75	comp							FeNe ND 5	4
76	AC+26 7021	02 46 32	26 33 59	22 02 22					2188
77	comp							"	4
78	BIAS(4)			22 41					0
79	Comp							n	4
80	HD 36 395	05 26 18	-03 41 00	22 45 23					884
81	Comp							n	4
82	comp							n	4

Spectr. Temp.
 Focus.....
 Spectr. Temp.

Exp. Mtr. Sec.
 1000V

1473 2-

Vacua

No Vacua

430 2-

1170 4

Spectr. Temp. -100.3°C Dome Temp./Hum. $-1.3^{\circ}\text{C} / 69.6\%$

Transparency Conditions ... mostly cloudy 3sk

Focus 6.95

Spectr. Temp. Dome Temp./Hum. $-1.2^{\circ}\text{C} / 68.3\%$

400 0 50 1024 41 CCDPMT

Comparison Filter Exp.	Exp. Mtr.	Seeing	Mag.	Sp.	Inst.	Grating/Tilt	Slit	Emulsion	P.H.	Program	Remarks	Quality
4	1000V				CASS CCD	1800/mm 47.75	306 μ	5300	23			
877	1473	2"-5"	8.07	M1V _e					24	Marcy std.		
4									25			
67ms	Variable	6.40	G8TII			Above 306 μ slit					Seeing test - ALT 89°	
132ms	No Variation of Box or Intensifier (despite variable signal)										Dome West, medium NW wind	
5									2	Rebooted CCD controllers Cepheus.		12, 3/5
0									1	Due to GPIB errors <u>Hangup</u>		
4									5			GR
2168	430	2"-4"	10.8	M0					6	Vys 406	60ADU above sky mostly cloudy	
4									7			
0									1			
4									7			
884	1170	4"	7.95	M1					8	Marcy std vel	Alt choice	
4									9			
4									10			

CCD Temp. -100.3°C
focus 6.95

$-1.2^{\circ}\text{C}/68.3\%$

356

CASS 1800 μm 306 μ slit, 5300 \AA
CCD 47.75

400 0 50 1024 4.1

Mag

SP

P.H.

300

10.2

M0

10

ACT45 130-216 through clouds - good.

~~11~~

~~11~~

~~12~~

~~North~~ ^{SOUTH} & slightly ^{BRIGHTER} ~~fainter~~ Vys 416 ~~A~~

PERSONS 128,100.77.18

CAUX 128,100.77.25

