

60 inch Telescope Log

Observer: CALICOLAPI: All, Kenyon, KishnerSpectrograph: FASTGrating: 300LPage: 7475Date: 7/8/99

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	
11-20	BIAS				0s	
21-30	FLAT				6s	
31-40	BIAS				0s	
41-50	FLAT				12s	
51	BDp409032	20 08	41 15	"56	2m	Hole!!
52	comp			↑		
53	NS866	15 06	55 46	"57	3m	
54	comp			↑		
55, 56	HD159791	17 06	23 58	"12	1, 10s	
57	comp			↑		
58, 59	Hen1341	17 08	-17 26	"12	10,300	clouds coming back
60	comp			↑		
61	Draco61	17 19	57 50	"12	11m	
62	comp			↑		
63, 64	mim21	17 34	-19 09	"12	10,100	central spectra
65	comp			↑		wait out fog
66, 67	V919Sgr	19 03	-16 59	"12	20,200	
68	comp			↑		
69, 70	MWC960	18 48	-20 05	"12	10,100	object east
71	comp			↑		
72, 73	AS327	18 53	-29 22	"12	20,300	
74	comp			↑		
75, 76	FNSgr	18 54	-18 57	"12	20,200	
77	comp			↑		
78	sn1999da	17 35	60 49	"2	20m	Type IA! IA=90
79	comp			↑		
80, 81	CMAG1	19 03	-3 02	"12	20,300	
82	comp			↑		
83, 84, 85	BFCyg	19 24	29 41	"12	1, 10, 60	

60 inch Telescope Log

Observer: Collins

PI: Kenyon, M

Spectrograph: FAST

Grating: 3000

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Date: 7/8/99

Number	Object	R.A.	Dec.	L/R	Exp	Comments
86	comp			↑		
87-89	CNG <sub>9</sub>	19 24	50 15	<sup>12</sup> 12	3,5,30	
90	comp			↑		
91-93	HM <sub>9</sub>	19 41	16 44	<sup>12</sup> 12	15,30	
94	comp			↑		
95,96	AS360	19 45	18 37	<sup>12</sup> 12	5,100	
97	comp			↑		
98-100	CIC <sub>9</sub>	19 50	35 41	<sup>12</sup> 12	10,60	
101	comp			↑		
102-104	PVV <sub>1</sub>	20 21	21 33	<sup>12</sup> 12	1,10,60	
105	comp			↑		
106-108	VIO <sub>16</sub>	19 57	39 49	<sup>12</sup> 12	1,10,60	
109	comp			↑		
110	HD217086	22 56	62 42	<sup>56</sup> 56	4s	PA=0°
111	comp			↑		
112	HD217086	22 56	62 43	<sup>56</sup> 56	4s	PA=90°
113	comp			↑		
114-118	sky			<sup>57</sup> 57	5s	
119	comp			↑		
120-129	BIAS				0s	
130-139	FLAT				6s	
140-149	BIAS				0s	
150-159	FLAT				12s	
160-169	DARK				15m	

60 inch Telescope Log  
 Observer: CALKINS  
 PI: All, Kitchner, Kenyon  
 Spectrograph: FAST  
 Grating: 3000L  
 Date: 7/9/99  
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	
11-20	BIAS				0s	
21-30	FLAT				6s	
31-40	BIAS				0s	
41-50	FLAT				12s	
51, 52	H244	13 23	36 08	#56	3m	hazy, humid, thin clouds, PA=90°
53	comp			↑		
54, 55	H244	13 23	36 08	#56	3m	hole closing
56	comp			↑		
57	sn1999eq	18 32	37 36	#2	20m	PA=90°, mag = 17+?
58	comp			↑		
59, 60	RT Ser	17 39	-11 56	#2	13, 100	
61	comp			↑		
62, 63	FSOph	17 50	-6 41	#12	10, 120	
64	comp			↑		
65, 66	UL Ser	17 42	-15 24	#12	4, 200	
67	comp			↑		
68, 69	AS289	18 12	-11 39	#12	8, 120	
70	comp			↑		
71	V2621 Sgr	18 38	-22 41	#12	80	very weak, but
72	comp			↑		noticeable H $\alpha$ , could
73, 74	YY Her	18 14	20 59	#12	1, 10m	get 2 <sup>nd</sup> exposure
75	comp			↑		
76, 77	V443 Her	18 22	23 27	#12	40, 900	
78	comp			↑		
79, 80	He 2m 467	20 35	20 11	#12	200, 600	
81	comp			↑		
82, 83	He 2m 468	20 41	54 44	#12	200, 600	
84	comp			↑		
85-87	AG Per	21 51	12 37	#12	1, 30, 60	

57- don't look like SN

60 inch Telescope Log

Observer: Calkins

PI: Lanyon

Spectrograph: FAST

Grating: 300L

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Date: 7/9/99

Number	Object	R.A.	Dec.	L/R	Exp	Comments
88	comp			↑		
89-91	ZAnd	23 53	48 49	12 12	2,10,60	
92	comp			↑		
96,97	EGAnd	22 44	40 40	12 12	1,5	
98	comp			↑		
99-101	AXPer	1 36	54 15	12 12	1,10,60	
102	comp			↑		
102-104	V741Per	1 58	52 53	12 12	10,60	
105	comp			↑		
106,107	V1329Cya	20 51	35 35	12 12	20,120	
108	comp			↑		
109	HD217086	22 56	62 43	12 56	4s	
110	comp			↑		
111	HD217086	22 56	62 43	12 56	4s	
112	comp			↑		
113-117	sky			12 57	2s	some extinction in the red
118	comp			↑		
119-128	BIAS				0s	
129-138	FLAT				6s	
139-148	BIAS				0s	
149-158	FLAT				12s	
159-168	DARK				15m	

## 60 inch Telescope Log

Observer: QUAINTELPI: VRTILEKSpectrograph: FASTGrating: 1200Page: 7479Date: 1999/7/11

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS					
11	FLAT				7	} BAD - LOW COUNTS
12	FLAT.				70	
13-18	LAMP FLAT				70	
19	DARK				900	
20	HeNeAr.				7	BAD - LOW COUNTS
21	HeNe Ar				70	
22-25	HD 149803	16 35 532	29 44 46		5	IAU Std - too faint.
26	"	"	"		50	IAU Std $V=8.40$
27	HeNe Ar.	"	"		70	
28	HD 149803	"	"		50	"
29	HD 136202	15 19 17.3	01 46 02		1	IAU Std - Low counts
30	↓	"	"		5	" - "
31	↓	"	"		10	" - $V=5.06$
32	HeNe Ar	"	"		70	
33	H2Her	16 57 50	+35 20 33		900	
34	HeNe Ar	"	"		70	
35	H2Her	"	"		900	
36	HeNe Ar	"	"		70	
37	H2Her	"	"		900	
38	HeNe Ar	"	"		70	
39	H2Her	"	"		1200	
40	HeNe Ar	"	"		70	
41	HD 187621	19 51 002	10 24.52		10.	<del>IAU</del> IAU Std - $V=5.11$
42	HeNe Ar				70	
43	DARK	—	—		900	
44	HD 212943	22 27 58	04 41 35		10	IAU Std - $V=4.79$
45	"	"	"		30	
46	HeNe Ar.	"	"		70	
47-49	DARK.	—	—		900	



## 60 inch Telescope Log

Observer: QUANTREAL

PI: VRTILEK

Spectrograph: FAST

Grating: 1200

Date: 1999/07/12

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-10	BIAS				0	
11-20	DARK				900	
X- 21	H2Her				1800	SATURATED * CLOUDS
21	BD+40 4032	20 06 40	41 06 15		120	Sp-ph std $v=10.45$
22	HcNear	↓	↓		70	
23	BD+40 4032	↓	↓		300	"
24	HD 212943	22 27 58	04 41 31		30	1AU STD * SATURATED
25	HcNear				70	
26-35	BIAS					
36	HD 212943	↓	↓		5	1AU STD - low count
37	HD 212943	↓	↓		15	1AU STD - OK
38	HcNear	↓	↓		70	
39	H2Her	16 57 50	35 20 33		900	LOST IT PARKWAY
40	HcNear	↓	↓		70	
41	H2Her	↓	↓		900	"
42	HcNear	↓	↓		70	
43	HD 212943	22 27 58	04 41 31		10	1AU STD $v=4.79$
44	HcNear	↓	↓		70	
45	HD 212943	↓	↓		10	"
46	HD 212943	↓	↓		10	"
47	HcNear	↓	↓		70	
						DIME SAUT ITSELF
48-57	FLAT				70	
58-67	BIAS				0	
68-72	DARK				900	

CLOUDY NIGHT! ~~AND~~





Fax:  
to Susan Tokarz  
pg 1 of 1

60 Inch Telescope Log

Observer: P Berlin  
PI: Calvet

Spectrograph: FAST  
Grating: 3000, 3" slit  
Date: 7/16/99

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-5	DARK				15m	rain + clouds
6-15	BINS				0s	3000, 3" slit ↓
16-25	FLAT				7s	
26-35	BINS				0s	
36-45	FLAT				14s	
46-48	HDP22281	20:10	+40:07	56	5-10s	clearing late
49	COMP			r		
50-51	MWC2275	17:55	-21:56	89	2-8m	3" slit in header
52	COMP			r		
53	VV Ser	18:28	+20:08	89	6m	stopped by clouds
54	COMP			r		
55-56	DD284211	21:48	+29:37	56	6m	bm by 2
57	COMP			r		
58	WVWV1	19:23	+21:06	89	15m	
59	COMP			r		
60	L Halph 483m-11	19:26	+23:53	89	20m	
61	COMP			r		
62	LKM164	20:50	+44:05	89	15m	
63	COMP			r		more clouds - delay
64	SN 1999aw	00:20	-06:20	2	20m	
65	COMP			r		twilight
66-75	BINS				0s	
76-85	FLAT				7s	
86-95	BINS				0s	
96-104	FLAT				14s	
106-115	DARK				20m	

Fax to:  
Susan Takara  
pg 1 of 4

60 inch Telescope Log

Observer: P. Berlin

PI: Tom M.

Spectrograph: EAST

Grating: 300R

Date: 7/18/99

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-8	DARK				15m	
9-20	BIAS				0s	
21-30	FLAT				7s	
31-40	BIAS				0s	
41-50	FLAT				14s	
51-60	FLAT				12s	2" slit ↓
61	H244	13:21	+36	86	90s	
62	COMP			↑		clearing after sunset!
63-64	107m35	15:37	-00:53	87	30s	
65	COMP			↑		
66-68	107m717	15:38	-60:35	87	30s	
69	COMP			↑		
70-72	107m484	15:40	-02:21	87	45s	
73				↑		
74-76	105m505	13:35	-02:23	87	4m 2m	
77	COMP			↑		
78-80	105m815	13:40	-02:02	87	30s-3m	
81	COMP			↑		
82-84	105m705	13:35	-02:57	87	30s-90s	
85	COMP			↑		
86-88	105m405	13:35	-02:34	87	30s+	
89	COMP			↑		
90-91	108m478	16:37	-02:34	87	30s+	
92	COMP			↑		
93-95	108m827	16:37	-02:24	87	15-30s	12
96	COMP			↑		
97-99	106m1918	16:37	-02:00	87	30s-5m	13
100	COMP			↑		
101-104	109m231	17:45	-02:25	87		
105	COMP			↑		

60 inch Telescope Log

Observer: PB

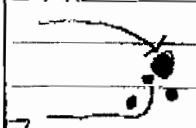
PI: Tom M. & Nuria Calvet

Spectrograph: FAST

Grating: 300R

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Date: 7/18/99

Number	Object	R.A.	Dec.	L/R	Exp	Comments
106	Pln 1545m035	15:45	+05:32	SG	12m	
107	COMP			↑		
106-109	KKOph	17:07	-27:11	89	3m, 4m	3" Slit ↓ bin by 2
110	COMP			↑		
111-113	MWZ275	17:57	-21:56	89	10s-5s	
114				↑		
115-118	LK Haly 1	18:02	-24:15	89	30s, 6m	
119	COMP			↑		
120-122	VUSEr	18:26	+00:06	89	4.6m	
123	COMP			↑		
124	ASS10SE	18:30	-05:20	89	90s	PA=45 to split stars
125, 26, 28	ASS10NW	18:30	-05:20	89	10m	the result ASS10
127, 129	COMP			↑		extended nebulosity
130, 31, 33	PAR21	19:26	+09:32	89	15m	PA=90
132, 31, 36	COMP			↑		
137-139	V1685 Cyg	20:18	+11:17	89	2m	
140	COMP			↑		
141, 143	V1686 Cyg	20:18	+11:11	89	10s	PA=70
142, 144	COMP			↑		
145-147	HDF 7281	20:10	+10	SG	5s	PA=90
148	COMP			↑		
149, 151	LKH 147	20:19	+43:48	89	15m	clouds
150, 152	COMP					
153-155	H202075	21:00	+61:57	89	10s-3m	
156	COMP			↑		
157-160	HDF 7281	20:10	+10	SG	5s	
161	COMP			↑		
162-165	H20275	20:42	+20:07	87	20s-1m	clouds
166	COMP			↑		

124-128

could NOT differentiate between SE + NW -

60 inch Telescope Log

Observer: PB

PI: Tom Megath & Fazio

Spectrograph: FAST

Grating: 300R

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Date: 7/18/99

Number	Object	R.A.	Dec.	L/R	Exp	Comments
167-169	112-595	20:41	+10:16	87	10-3m	2" S.F.L
170	COMP			↑		
171-172	113m 259	21:41	+10:17	87	5m	
173	COMP			↑		
174-176	113m 269	21:42	+10:17	87	1m	
177	COMP			↑		
178-180	113m 442	21:40	+10:44	87	1m	
181	COMP			↑		
182-184	114m 176	22:43	+10:21	87	45s	
185	COMP			↑		
186-187	114m 670	21:42	+10:10	87	5m	22
188	COMP			↑		
189-191	115m 429	23:43	+10:06	87	30s	23
192	COMP			↑		
193-195	115m 516	23:44	+10:14	87	3m	more clouds!
196	COMP			↑		
197-198	115m 554	23:41	+10:26	87	5m	
199	COMP			↑		
200	114m 750	22:41	+10:12	87	10m	correct id. A star
201	COMP			↑		
202	114m 548	22:41	+10:59	87	6m	
203	COMP			↑		
204	114m 656	22:41	+10:11	87	12m	
205	COMP			↑		
206-208	92m 736	00:55	+10:47	87	30s	
209	COMP			↑		
210-212	93m 103	00:57	+10:23	87	30s	
213	COMP			↑		
214-216	HER 623	02:02	+16:56	57	55	
217				↑		



60 inch Telescope Log

Observer: CALKINS

PI: Kochanek et al

Spectrograph: FAST

Grating: 6006

Date: 7/19/99

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	DARK				15m	
11-20	BIAS				0s	
21-30	FLAT				35s	
31	BDp332642	15 52	32 57	#56	30s	PA=84°
32	comp			↑		
33	comp			↓		
34-36	MFO64	15 02	11 55	#88	15m	PA=88°
37	comp			↑		
38	HD166842	18 11	25 39	#88	N/A	Rate=2
39	comp			↑		
40	comp			↓		
41-43	MFO71	15 54	30 09	#88	15m	PA=59°
44	comp			↑		
45	NGC7331	22 37	34 24	#88	3m	PA=0°
46	comp			↑		
47	comp			↓		
48-50	MFO77	16 18	25 11	#88	15m	PA=0°
51	comp			↑		
52	HD175743	18 56	18 06	#88	N/A	rate=3, PA=90
53	comp			↑		
54	comp			↓		
55-57	MFO88	17 42	16 12	#88	15m	PA=0°
58	comp			↑		
59	HD183492	19 29	14 36	#88	N/A	PA=90, rate=3
60	comp			↑		
61	HD180242	19 15	20 13	#88	N/A	rate=3
62	comp			↑		
63	NGC7331	22 37	34 24	#88	3m	PA=0
64	comp			↑		
65	BDp404032	20 08	41 15	#56	2m	PA=90°

60 inch Telescope Log

Spectrograph: FAST

Observer: Calvin

Grating: 600L

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PI: Lochard, Kirshner, Calvet

Date: 7/19/99

Number	Object	R.A.	Dec.	L/R	Exp	Comments
66	comp			↑		
67-76	BEAS				0s	
77-81	FLAT				15s	
89	HD217086	22 56	62 43	*56	4s	
90	comp			↑		
91	HD217086	22 56	62 43	*56	4s	
92	comp			↑		
93	Lk Halpa 324	21 03	50 15	*89	4m	
94	comp			↑		
95	Lk Halpa 349	21 36	57 31	*89	3m	
96	comp			↑		
97	+651637	21 42	66 06	*89	2m	
98	comp			↑		
99	Lk Halpa 234	21 43	66 06	*89	3m	
100	comp			↑		
101	463471	21 52	47 13	*89	2m	
102	comp			↑		
103	Lk Halpa 257	21 54	47 11	*89	6m	
104	comp			↑		
105	N7331	22 37	34 25	*57	3m	
106	comp			↑		
107-111	sky			*57	2s	
112	comp			↑		
113-122	BEAS				0s	
123-132	FLAT				12s	
133-142	DARK				15m	

60 inch Telescope Log

Observer: CALVIN

PI: All Kirchner

Spectrograph: FAST

Grating: 300L

Date: 7/20/99

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-25	Test Files for And S.					
26-35	DARK				15m	
36-45	BIAS				0s	
46-55	FLAT				6s	
56-65	BIAS				0s	
66-75	FLAT				12s	
76-80	sky			#57	3s	clouds at sunset
81	comp			↑		
82	HZ44	13 23	36 08	#56	2m	
83	comp			↑		
84	HZ44	13 23	36 08	#56	2m	PA = 90°
85	comp			↑		
86	sn1999cl	12 32	14 26	#2	15m	PA = 61°
87	comp			↑		hole gone!
88-97	BIAS				0s	
98-107	FLAT				12s	
108-117	DARK				15m	