

60 inch Telescope Log
 Observer: Ridea/Hudra
 PI: Hudson, McCormick
 Spectrograph: FAST
 Grating: 300R
 Date: 11/25/98
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Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-5	BIAS			-	-	bin by 2
6-10	BIAS			-		bin by 4
11-20	DARK			-	900s	
21-30	BIAS			-	-	
31-40	FLAT			-	6s	
41-50	BIAS			-	-	bin by 2
51-60	FLAT			-	12s	"
61-70	BIAS			-		bin by 4
71	sky			-	5s	
72-75	sky			-	20s	
76	COMP			↑		
77	+28 4211	21 ^h 48 57	+28 37 48	56	30s	STD STAR
78	+28 4211	"	"	56	30s	
79	COMP			↑		Spectrograph focussed.
80	17435 p 5551	17 43 30	+55 00 52	68	360s	f=1000
81	COMP			↑		moon light
82	4A 1907 P09	19 09 38	+09 49 48	104	900s	1.1" slit
83	COMP			↑		
84	4A 1907 P09	"	"	104	900s	
85	COMP			↑		
86-88	H0230579			104	10s-20s	
86	COMP			↑		
89	2M 0029 P 1535	00 29 48	+15 35 21	68	360	3" slit m star
90	COMP			↑		
91	2M 00 43 p 1807	00 43 57	+18 09 37	68	360	
92	COMP			↑		
93	2M 00 40 +2104	00 40 12	+21 04 29	68	360	Poor seeing
94	COMP			↑		
95	2M 00 36 +1846	00 36 52	+18 46 30	68	360	
96	COMP					

60 inch Telescope Log

Observer: Rinos/Huchra

PI: Rinos/Huchra/Kochner

Spectrograph: FAST

Grating: 300

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Date: 11/25/98

Number	Object	R.A.	Dec.	L/R	Exp	Comments
97	2M 0050 +2231	00 50 21	+22 31 40	68	300s	
98	comp			↑		
99	2M 0053 +1158	00 53 39	+11 58 38	68	360	
100	comp			↑		
101	2M 00 08 +1058	00 08 00	+10 58 22	68	200	star
102	comp			↑		
103	2M 0107 06 +2838	01 07 06	+28 38 05	68	60s	star? yes
104	comp			↑		
105	2M 01 02 4 +26	01 02 11	+26 54 49	68	360	
106	comp			↑		
107	2M 01 05 +1956	01 05 59	+19 56 16	68	60	star!
108	comp			↑		
109	2M 0140 +2740	01 40 04	+27 40 17	68	360]
110	comp			↑		
111	2M 0140 +2740	"	"	68	300	
112	comp			↑		
113	2M 01 55 p 2402	01 55 05	+24 02 27	68	300	
114	comp			↑		
115	2M 0130 p 2946	01 30 05	+29 46 06	68	460	
116	comp			↑		
117	SN 1998es	01 37 19	+05 52 50	2	900s	bin by 2 7.17 595
118	comp			↑		Parula? or -2° to +8°
119	Feyn 25	02 36	+05 15	2	120	d=-12
120	comp			↑		
121	2M 0153 +33 22	01 53 13	+33 22 02	68	300	bin by 4
122	comp			↑		
123	2M 0114 +1602	01 14 14	+16 02 04	68	360	
124	comp			↑		
125	2M 0153 +1252	01 53 46	+12 52 49	68	300	
126	comp			↑		

60 inch Telescope Log				Spectrograph: <u>RAS1</u>		
Observer: <u>RINGS / HUETTER</u>				Grating: <u>300</u>		Page: <u>6730</u>
PI: <u>Huetter</u>				Date: <u>11/25/98</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
127	2M 0157+1310	01 57 03	+13 10 01	68	300	
128	Comp			↑		
129	2M 0150+2648	01 50 39	+26 48 57	68	360	
130	Comp			↑		
131	2M 0155+4048	01 55 01	+40 48 34	68	360	
132	Comp			↑		
133	2M 015128+3052	01 51 28	+30 32 14	68	360	
134	Comp			↑		
135	2M 0151+4150	01 51 33	+41 50 50	68	600	Ha
136	Comp			↑		
137	2M 0151+3205	01 51 08	+32 55 57	68	360	
138	Comp			↑		
139	2M 0152+3110	01 52 54	+32 10 45	68	240	
140	Comp			↑		
141	2M 0151+3039	01 51 17	+30 39 21	68	200	
142	Comp			↑		
143	2M 0147+3310	01 47 08	+33 10 51	68	300	
144	Comp			↑		
145	2M 0150 23+3228	01 50 23	+32 28 58	68	480	
146	Comp			↑		
147	2M 0150 03+3032	11	11	68	600	
148	Comp			↑		
149	2M 0150+3309	01 50 40	+33 09 32	68	420	
150	Comp			↑		
151	2M 0335+3303	03 35 04	+33 03 14	68	420	
152	Comp			↑		
153	05 06 p 6831	05 06 42	+68 32 54	68	300	
154	Comp			↑		
155	BIAS			—		
156	05 26 p 6734	05 26 30	67 34 30	68	200	

60 inch Telescope Log
 Observer: Rines / Hutcherson
 PI: Grund, Geller
 Spectrograph: FAST
 Grating: 300L
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Number	Object	R.A.	Dec.	L/R	Exp	Comments
157	Comp			↑		
158-60	CI CAM	4 19	55 59	64	2, 20, 20	
161	Comp			↑		
162	a539.051718p06	5 17 18	6 46 40	64	12m	
163	COMP			↑		
164	a539.051722p05	5 17 22	5 44 21	64	10m	* to W, * to E
165	COMP			↑		
166	a539.051726p07	5 17 26	7 11 26	64	10m	
167	COMP			↑		
168	051729p05	5 17 29	5 36 43	64	7m	
169	COMP			↑		
170	052004p0432	5 20 04	4 32 56	64	4m	* to E
171	COMP			↑		
172	052005p0406	5 20 05	4 06 06	64	8m	
173	COMP			↑		
174	052006p0540	5 20 06	5 40 31	64	10m	obj to E
175	COMP			↑		
176	052012p0550	5 20 12	5 50 12	64	8m	* to E
177	COMP			↑		
178	052020p0404	5 20 20	4 04 51	64	12m	* to E needed more
179	COMP			↑		
180	052020p0454	5 20 20	4 54 21	64	8m	
181	COMP			↑		
182	052020p0937	5 20 20	9 37 18	64	5m	
183	COMP			↑		
184	052021p0555	5 20 21	5 55 50	64	8m	2 * to W
185	COMP			↑		
186	052022p0850	5 20 22	8 50 12	64	4m	
187	COMP			↑		
188	052029p0543	5 20 29	5 43 41	64	4m	

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Observer: <u>Rines/Hackica</u>				Grating: <u>3001</u>		Date: <u>11/25/98</u>	
PI: <u>Geller, McClintock, Borton</u>							
Number	Object	R.A.	Dec.	L/R	Exp	Comments	
189	COMP			↑			
190	052035p0633	5 20 35	6 33 07	64	8m		
191	COMP			↑			
192	052100p0621	5 21 00	6 21 24	64	8m	underexposed	
193	COMP			↑			
194	052111p0652	5 21 11	6 52 39	64	8m		
195	COMP			↑			
196	052145p0641	5 21 45	6 41 17	64	3m		
197	COMP			↑			
198	052157p0643	5 21 57	6 43 16	64	4m	Superposed star; weak em- c2 based on H α + N2 (weak)	
199	COMP			↑			
200	052146p0347	5 21 46	3 47 33	64	7m	M* - (superposed) - may have 1 $\frac{1}{2}$ " at λ 6939 μ (c2 ~ 17200 km/sec)	
201	COMP			↑			
202	052214p0534	5 22 14	5 34 08	64	10m	obj. to E	
203	COMP			↑			
204	052217p0401	5 22 17	4 01 09	64	10m	* to E underexposed	
205	COMP			↑			
206	052227p0534	5 22 27	5 34 48	64	10m		
207	COMP			↑			
208	052230p0534	5 22 30	5 34 13	64	4m		
209	COMP			↑			
210	052228p0548	5 22 28	5 48 03	64	10m	* to E	
211	COMP		8 28 03	↑			
212	COMP			104		1.1" slit	
213, 214	A0535p26	5 38	26 18	104	2x30s		
215	COMP			↑			
216, 217	HD39478	5 53	26 25	104	2x10s		
218	COMP			↑		3" slit, $\lambda = 55^\circ$	
219	magal-050, -051	9 23	22 18	73	15m	-050 in row 52, -051 in row 31	
220	COMP			↑			

60 inch Telescope Log

Observer: Rines/Huchra

PI: Barton, Huchra

Spectrograph: FAST

Grating: 300L

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
221	<u>Magal-067, -068</u>	<u>9 27</u>	<u>12 17</u>	<u>73</u>	<u>20m</u>	<u>X = 77.0, -067 in row 37</u>
222	<u>COMP</u>			<u>↑</u>		<u>-068 in row 44</u>
223	<u>07140 p6318</u>	<u>7 18</u>	<u>63 11</u>	<u>68</u>	<u>4m</u>	<u>X = 90.0</u>
224	<u>COMP</u>			<u>↑</u>		
225	<u>07249 p6307</u>	<u>7 24</u>	<u>63 06</u>	<u>68</u>	<u>5m</u>	
226	<u>COMP</u>			<u>↑</u>		
227	<u>07321 p6227</u>	<u>7 32</u>	<u>62 27</u>	<u>68</u>	<u>4m</u>	
228	<u>COMP</u>			<u>↑</u>		
229	<u>06179 p8082</u>	<u>6 17</u>	<u>80 82</u>	<u>68</u>	<u>6m</u>	
230	<u>COMP</u>			<u>↑</u>		
231	<u>Feige 34</u>	<u>10 36</u>	<u>43 21</u>	<u>56</u>	<u>2m</u>	
232	<u>COMP</u>			<u>↑</u>		
233	<u>Feige 34</u>	<u>10 36</u>	<u>43 21</u>	<u>56</u>	<u>2m</u>	<u>bin by 2</u>
234	<u>COMP</u>			<u>↑</u>		
235-244	<u>BIAS</u>				<u>0s</u>	
245-254	<u>FLAT</u>				<u>12s</u>	
255-264	<u>BIAS</u>				<u>0s</u>	<u>bin by 4</u>
265-274	<u>FLAT</u>				<u>6s</u>	
275-284	<u>FLAT</u>				<u>20s</u>	<u>1.1" slit</u>
285-294	<u>DARK</u>				<u>15m</u>	<u>bin by 2</u>