

60 inch Telescope Log  
 Observer: P. Berthel  
 PI: Kirshner/Wilkes/Geller  
 Spectrograph: FAST  
 Grating: 300; 3" slit, 6mm by 4  
 Date: 7/25/95  
 Page: 3864

Number	Object	R. A.	Dec.	L/R	Exp	Comments
HO	ISAS					clear skies!
11-20	FLAT					
21-30	sky	zenith			Ss	
31	COMP			↑	10s	
32-3, 38, 42	HD136711	18:19:27	+18:39:03	0	Ss	
37, 43	COMP			↑		
44-46	H244	13:21:19.1	+32:33:38	0	90, 60s	
47	COMP			↑		
48	NSS4K	14:15:43	+25:22	6	2m	
49	COMP			↑		
50, 51	NY6663	12:28:00	+12:45:59	0	4m $z=1.75$	
52	COMP			↑		
53	PG1708p602	17:08:359	+60:13:52	6	2m	3C750.3 is just beyond telescope 1mm/25
54	COMP			↑		
55	328.041539	15:28:23	+28:13:49	3	8m	← finally - a new redshift!
56	COMP			↑		
57	3C7503	18:48:376	+79:47:06	6	2m	
58	COMP			↑		x2
59, 61	SNFF44	13:53:30	+10:42:32	2	30m	it's there + faint, still has strong lines v2.15?
60, 62	COMP			↑		
63	328.043968	15:28:38	+28:19:54	3	4m	
64	COMP			↑		
65	328.045503	15:41:33	+28:26:45	3	5m	
66	COMP			↑		
67	328.04289	15:32:36.11	+28:27:16	3	5m	
68	COMP			↑		
69	328.047672	15:42:067	+28:32:329	3	4m	
70	COMP			↑		
71	328.048459	15:50:31	+28:33:32	3	5m	
72	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>3865</u>	
Observer: <u>P. Berlad</u>			Grating: <u>300</u>			
PI: <u>Gjeller &amp; Muchra</u>			Date: <u>7/25/85</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
73	328.049113	15:50:02.69	+28:35:291	3	5m	
74	COMP			↑		
75	328.049458	15:55:04.72	+28:3443.5	3	4m	
76	COMP			↑		
77	328.050278	15:36:40	+28:38:20	3	4m	
78	COMP			↑		
79	328.052418	15:43:13.65	+28:44:55.9	3	5m	H <sub>α</sub>
80	COMP			↑		
81	328.052838	15:35:05.75	+28:45:38	3	3m	
82	COMP			↑		
83	328.053773	15:36:07.6	+28:47:47	3	4m	
84	COMP			↑		
85	328.053927	15:39:02.17	+28:48:31	3	4m	H <sub>α</sub>
86	COMP			↑		
87	328.054189	15:40:46.3	+28:49:20.7	3	8m	
88	COMP			↑		
89	328.054527EW	15:51:37.75	+28:49:26.4	3	5m	3 galaxies on slit ○ ○
90	COMP			↑		
91	328.060640	15:28:51	+28:03:25	3	5m	
92	COMP			↑		
93	328.063018	15:48:06	+28:12:07	3	4m	
94	COMP			↑		
95	328.068978	15:54:12.71	+28:26:16.7	3	5m	
96	COMP			↑		
97	328.069345	15:40:22.84	+28:27:52	3	7m	
98	COMP			↑		
99	16541p623	16:54:30	+66:28:17	1	3m	
100	COMP			↑		bad seeing 3"
101	16542p6522	16:54:26.3	+66:17:16	1	15m	LSB H <sub>α</sub>
102	COMP			↑		

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>3866</u>	
Observer: <u>P. Berlind</u>			Grating: <u>300</u>		Date: <u>7/25/95</u>	
PI: <u>Huchra</u>						
Number	Object	R. A.	Dec.	L/R	Exp	Comments
103	16552p703T	16:54:50.4	+70:26:33	1	7m	H+
104	COMP			↑		
105	16588p6837	16:58:37	+68:32:35	1	4m	
106	COMP			↑		
107	N16456	17:42:28	+67:34:458	1	5m	
108	COMP			↑		
109	17425p6250	17:43:18	+62:48:46	1	4m	H+
110	COMP			↑		
111	17469p5926	17:47:34.9	+59:25:04	1	4m	
112	COMP			↑		
113	17473p6415	17:47:48	+61:40:05	1	6m	South comp H+
114	17473p641(N)	"	"	1	5m	North H+
115	COMP			↑		
116	17502p5702	17:51:02.9	+57:04:51	1	3m	
117	COMP			↑		
118	17503p6253	17:50:44	+62:52:18	1	3m	
119	COMP			↑		
120	17506p6250EW	17:50:59.7	+62:49	1	5m	triple! E+W comps
121	17506p6250N	"	"	1	4m	North comp
122	COMP			↑		
123	N16516	17:55:12.6	+62:31:58	1	3m	
124	COMP			↑		
125	17563p6513	17:56:27	+65:12:44	1	3m	
126	COMP			↑		
127	17566p6516	17:56:44.8	+65:15:45	1	3m	
128	COMP			↑		
129	17565p6235	17:56:50	+62:34:45	1	3m	
130	COMP			↑		
131	18006p6911	18:02:14.1	+69:11:06	1	4m	
132	COMP			↑		

60 inch Telescope Log				Spectrograph: <u>FAB</u>		
Observer: <u>PS</u>				Grating: <u>30</u>		
PI: <u>Geller</u>				Date: <u>7/25/86</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
133,135	S19.083048	22-11-13	+12-06-40	3	5m	x2
134	COMP			↑		
136	S19.085211	22-11-13	+12-10-32	3	7m	
137	COMP			↑		
138	S19.098729	22-19-47	+12-34-33	3	10m	v=37.5K broad H $\alpha$
139	COMP			↑		
140	S19.099930	22-19-54	+12-36-51	3	5m	
141	COMP			↑		
142	S19.101513B	22-03-33.97	+12-58-53.7	3	5m	H $\alpha$
143	COMP			↑		
144	S19.102866	22-17-34.8	+12-44-59	3	10m	H $\alpha$
145	COMP			↑		
146	S19.106519	22-13-66.5	+12-48-21.9	3	5m	
147	COMP			↑		
148	S19.110112	22-15-27	+12-56-01	3	5m	weak
149	COMP			↑		
150	S19.114419	22-01-03	+13-01-03	3	10m	H $\alpha$
151	COMP			↑		
152	S19.114922	22-15-46.2	+13-03-16.1	3	15m	H $\alpha$ ; huge cosmic ray
153	COMP			↑		
154	S19.115232	22-18-23.9	+13-01-01.8	3	6m	v=35K
155	COMP			↑		
156,158	S19.115531	22-12-56.6	+13-04-34.8	3	7m	x2
157	COMP			↑		
159,161	163m217	00-40-33	+41-11-20	0	4m	-87,
160,162	COMP			↑		
163,164	225m280	00-41-45.1	+41-05-12	0	3m	-90
165	COMP			↑		
166,167	158m213	00-40-30.2	+40-50-55	0	4m	
168	COMP			↑		



## 60 inch Telescope Log

Observer: PBPI: HuchraSpectrograph: FASTGrating: 302RPage: 3869Date: 7/26/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS				0s	clear skies!!
11-20	FLAT				6s	
21-25	sky	zenith			2s	
26	COMP			↑	10s	
27-31	H0136711	15:19:27	+16:37:03	0	5s	
32	COMP			↑		
33-37	SA00CV7AS	17:01:06	+24:55:05	0	8s	
38	COMP			↑		
39-40	N5866	15:05:07.2	+55:57:18	0	2m	nice dust lane
41	COMP			↑		
42	13045p5901	13:06:30.5	+58:46:36	1	3m	
43	COMP			↑		
44	13059p5412	13:07:59.2	+53:57:38	1	4m	nice H $\alpha$
45	COMP			↑		
46	N4998	13:08:08.1	+50:41:39	1	3m	H $\alpha$ ; Huge cosmic ray
47	COMP			↑		
48	13062p6450	13:08:07.9	+61:35:39	1	3m	
49	COMP			↑		
50	13076p5933	13:09:34	+59:18:42	1	3m	
51	COMP			↑		
52	13093p6377	13:11:27.9	+46:22:45	1	3m	
53	COMP			↑		seeing 2-3''
54	13126p9105	13:14:38	+53:50:50	1	2m	
55	COMP			↑		
56	N5113	3:21:18.4	+57:44:01	1	10m	faint; distorted gal H $\alpha$
57	COMP			↑		
58	13260p6301	13:27:42	+62:47:12	1	3m	
59	COMP			↑		
60	13273p6240	13:29:01.2	+61:56:14	1	4m	star on slit to E
61	COMP			↑		

60 inch Telescope Log

Observer: PBPI: GellerSpectrograph: FASTGrating: 300LDate: 7/16/95Page: 3870

Number	Object	R.A.	Dec.	L/R	Exp	Comments
6264	1409+5544	14:16:07	+55:32:19	1	10m	the catalog named this
6365	COMP			↑		file 1409+5544 which
66	328-065885	15:47:015	+29:20:186	3	7m	makes it useless
67	COMP			↑		still needs more
68	328-079167	15:54:078	+29:35:27	3	6m	→ object on slit to E
69	COMP			↑		
70	328-072901	15:38:0267	+29:39:485	3	5m	
71	COMP			↑		
72	328-078123	15:41:504	+29:5458.2	3	6m	
73	COMP			↑		
74	328-078203	15:54:1628	+29:53:28	3	6m	
75	COMP			↑		
76	328-078213	15:48:1379	+29:51524	3	7m	
77	COMP			↑		
78	328-078675	15:54:0385	+29:31:57	3	7m	
79	COMP			↑		
80	328-078538	15:41:5413	+29:59:28	3	7m	H <sub>α</sub>
81	COMP			↑		
8284	328-080585	15:53:238	+30:00:57	3	7m	x2 H <sub>α</sub>
8385	COMP			↑		
86	328-083012	15:37:528	+30:10:184	3	5m	H <sub>α</sub>
87	COMP			↑		dome ran away
88	328-088112	15:43:2843	+30:06:20.1	3	7m	
89	COMP			↑		
90	328-081002	15:50:244	+30:05:33	3	10m	
91	COMP			↑		
92	17027p5948	17:02:46	+59:47:33	1	10m	LSB H <sub>α</sub> x on slit to E
93	COMP			↑		
94	N6303	17:05:158	+68:53:34	1	2m	seems 23"
95	COMP			↑		

## 60 inch Telescope Log

Observer: PBPI: HuchraSpectrograph: FASTGrating: 300LDate: 7/16/85Page: 3871

Number	Object	R.A.	Dec.	L/R	Exp	Comments
96	17056 p6046	17-06:13.9	+60-42-05	1	5m	H $\alpha$
97	COMP			T		
98	17063 p6206	17-08:18	+62-06-00	1	5m	H $\alpha$
99	COMP			T		
100	17134 p5852	17-13:21.6	+58-50-24	1	5m	
101	COMP			T		
102	17158 p5829	17-15:48	+58-29-00	1	5m	
103	COMP			T		
104	17163 p6158	17-16:18.5	+61-58-29	1	5m	interesting spectra ; $\alpha$
105	COMP			T		H $\alpha$ ; star on edge of slit
106	17193 p6012	17-19:18	+60-12-00	1	3m	
107	COMP			T		
108	17583 p6243S	17-58:18	+62-43-W	1	5m	South H $\alpha$
109	17583 p6243N	17-58:18	+62-43-W	1	5m	North
110	COMP			T		
111	17587 p6938W	17-58:42	+69-38-W	1	4m	
112	17587 p6938E	17-58:42	+69-38-W	1	5m	star on slit to W
113	COMP			T		weak but ok
114	18014 p6521E	18-01:24	+65-21-W	1	3m	E
115	18014 p6521W	18-01:24	+65-21-W	1	5m	W
116	COMP			T		
117	18035 p5657	18-03:30	+56-57-W	1	4m	
118	COMP			T		
119	18080 p7015	18-08:00	+70-15-W	1	5m	cosmic ray near H $\alpha$
120	COMP			T		
121	18084 p7504	18-08:24	+75-04-00	1	7m	H $\alpha$
122	COMP			T		
123	18106 p6917	18-10:36	+69-17-W	1	15m	LSB H $\alpha$
124	COMP			T		
125	18107 p5647	18-10:42	+56-47-W	1	5m	

60 inch Telescope Log		Spectrograph: <u>F10</u>		Page: <u>3872</u>		
Observer: <u>PB</u>		Grating: <u>300</u>		Date: <u>7/26/95</u>		
PI: <u>Geller</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
126	COMP			↑		
127	N 6597	18:10:42	+56:47:00	1	3m	
128	COMP			↑		
129	S19.120877	22:01:47	+13:12:27	3	7m	
130	COMP			↑		
131	S19.12136	22:16:31.01	+13:15:12.8	3	7m	H <sub>α</sub>
132	COMP			↑		
133	S19.123927	22:17:48	+13:20:21.4	3	5m	star; faint fuzz to N finishes the plate!
134	COMP			↑		
135	S19.082683	22:02:23	+12:05:13	3	5m	
136	COMP			↑		
137	S20.065112	22:35:28.8	+12:25:04	3	6m	
138	COMP			↑		
139	S20.058226	22:19:34.52	+11:50:06	3	15m	LSB * on slit to W H <sub>α</sub> also obs 6/30/95
140	COMP			↑		
141	S20.065386	22:34:25.51	+12:25:42	3	4m	
142	COMP			↑		
143	S20.065717	22:20:07	+12:25:36.5	3	4m	
144	COMP			↑		
145	S20.066322	22:37:21	+12:27:57	3	4m	
146	COMP			↑		
147	S20.067468	22:37:33.82	+12:30:50.2	3	6m	
148	COMP			↑		
149	S20.075118	22:20:18	+12:45:32	3	5m	H <sub>α</sub>
150	COMP			↑		
151	S20.075077	22:18:40	+12:47:57	3	7m	
152	COMP			↑		
153	S20.07716	22:37:35	+12:55:46	3	5m	
154	COMP			↑		
155	S20.083670	22:40:04.4	+13:10:18.7	3	3m	star; some faint fuzz nearby

60 inch Telescope Log

Observer: RB

PI: Geller & Kenyon

Spectrograph: FAST

Grating: 310

Date: 7/26/95

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
156	COMP			↑		
157	S20.084203	22:36:54	+13:11:327	3	7m	H-
158	COMP			↑		
159	S20.084167	22:36:53	+13:13:42	3	7m	
160	COMP			↑		
161	S20.084170	22:36:525	+13:16:578	3	5m	
162	COMP			↑		
163	VISISC <sub>log</sub>	21:45:27	+47:18:04	12	15m	
164	COMP			↑		
165,166	B3Dp284211	21:48:57.1	+28:57:18	12	60s	wind blowing telescope around a little (20 mph)
167	COMP			↑		
168,169	FerrelD	23:17:23	-08:26:22	12	2m	
170	COMP			↑		
171-173	AG <sub>Per</sub>	21:48:36	+17:23:27	12	1s, 5s, 60s	
174	COMP			↑		
175-177	Z-And	23:31	+18:32	12	1s, 5s, 60s	
178	COMP			↑		
179-181	EG <sub>And</sub>	00:41:52.7	+40:24:22	12	1s, 5s, 95s	
182	COMP			↑		
183-185	AK <sub>Per</sub>	01:33:06	+54:00:18	12	1s, 5s, 60s	
186	COMP			↑		
187	225m280	00:41:45.1	+41:05:12	0	3m	
188	COMP			↑		
189-193	M32	00:39	+40:35	0	30s	clear skies @ dawn
194	COMP			↑		
195-199	M31	00:40	+40:59	0	30s	
200	COMP			↑		
201-210	BTS			0	0	
211-220	FLAT			0	6s	
221-224	DARK			0	15m	

no file 204 on tape  
tape only through file 223

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>3874</u>
Observer: <u>PB</u>				Grating: <u>3002.3" slit baby Y</u>		
PI: <u>Wilkes, Kenyon &amp; Huchra</u>				Date: <u>7/27/95</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS			0	0s	clearing; a few
11-20	FLAT			0	6s	clouds around
21-25	SKY	zenith		0		
26	COMP			↑	10s	
27	COMP			-	-	new fastvue = 1040
28-32	HD136711	15:49:27	+18:37:03	0	5s	
33	COMP			↑		
34-38	SAO 084785	17:04:06	+21:55:05	0	8s	
39	COMP			↑		
40,41	H244	13:21:19.1	+36:23:38	0	1m	
42	COMP			↑		
43	N5548	14:15	+25:22	6	2m	
44	COMP			↑		clear skies
45	TKCVn	12:42	+37:02	12	1m	
46	COMP			↑		
47,48	TCrB	15:57:24	+26:05:26	12	5s, 20s	
49	COMP			↑		
50-52	RW Hya	13:31:32	-25:07:29	12	1s, 5s, 30s	
53	COMP			↑		
54	1416sp4446	14:18:27	+44:31:16	1	4m	H+
55	COMP			↑		
56	14173p1500	14:19:17	+44:48:30	1	4m	H+ on slit to E+W H+
57	COMP			↑		
58	14158p4946	14:16:40	+44:53	1	5m	H+
59	COMP			↑		
60	1332sp0089	13:32:14	+60:25:20	1	3m	weak
61	COMP			↑		
62	13326p5644	13:34:25	+56:30:24	1	3m	
63	COMP			↑		
64	13335p5640	13:35:18.9	+56:26:26	1	4m	

## 60 Inch Telescope Log

Observer: POPI: Kirshner & GellerSpectrograph: FASTGrating: 300LDate: 7/27/95Page: 3875

Number	Object	R.A.	Dec.	L/R	Exp	Comments
65	COMP			↑		
66,68	SN1995N	14:49:28	-10:10:54	2	30m	x2
67,69	COMP			↑		
70,71	BDp332642	15:50:03	+33:05:49	2	60s	x2 also for Scott K 92
72	COMP			↑		has comp to NW ⦿
73	328.083922	15:41:16.78	+30:10:58.2	3	5m	from Scott's list of
74	COMP			↑		backup stars
75	328.085763	15:36:06.47	+30:11:19.3	3	4m	
76	COMP			↑		
77	328.086022	15:29:49	+30:09:60	3	5m	huge cosmic ray
78	COMP			↑		
79	328.084290	15:30:09.9	+30:11:15	3	5m	
80	COMP			↑		
81	328.084175	15:52:18	+30:11:57	3	4m	
82	COMP			↑		
83	328.081995	15:52:11	+30:12:41	3	7m	weak
84	COMP			↑		
85	328.084963	15:51:25	+30:13:20	3	5m	Ha
86	COMP			↑		
87	328.085749	15:52:2	+30:13:26	3	5m	
88	COMP			↑		
89	328.086011	15:46:30.4	+30:18:44.2	3	5m	
90	COMP			↑		
91	328.086711	15:46:41.3	+30:21:32	3	4m	
92	COMP			↑		
93	328.087140	15:28:32.2	+30:21:16	3	7m	
94	COMP			↑		
95	328.087755	15:33:57	+30:23:11	3	5m	
96	COMP			↑		
97	328.087863	15:50:24.21	+30:23:49	3	4m	

5448 6037  
1175 1635250 5200  
5800

## 60 inch Telescope Log

Observer: RBPI: Geller/HuchraSpectrograph: FASTGrating: 300LPage: 3876Date: 7/27/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
98	COMP			↑		Wind picking up
99	328.089187	15:50:265	+30:28:453	3	5m	
100	COMP			↑		
101	328.095751	15:49:5157	+30:41:49	3	7m	weak H $\alpha$
102	COMP			↑		
103	17227 p6849	17:26:26	+68:41:17	1	5m	H $\alpha$
104	COMP			↑		
105	17259 p6211	17:26:14	+62:08:57	1	3m	
106	COMP			↑		
107	N6381	17:27:15	+60:01:36	1	5m	aprons face-on spiral H $\alpha$
108	COMP			↑		
109	I1260	17:26:42	+58:32:00	1	3m	
110	I1258	17:26:31	+58:31:32	1	2m	* on slit top ~3° ←
111	I1259 EW	17:26	+58:31	1	3m	E+W Comps
112	COMP			↑		
113	17269 p7318	17:25:47	+73:15	1	4m	H $\alpha$
114	COMP			↑		
115	17278 p6059	17:27:18	+60:56	1	10m	LSB H $\alpha$
116	COMP			↑		
117	17287 p1015	17:28:12	+70:45:20	1	4m	
118	COMP			↑		
119	17316 p5555	17:31:36	+54:55:00	1	4m	
120	COMP			↑		
121	N6414	17:32:00	+74:25:00	1	3m	
122	COMP			↑		
123	18114 p7455	18:11:24	+74:55:00	1	5m	H $\alpha$
124	COMP			↑		
125	N6601	18:11:18	+61:26:00	1	4m	
126	COMP			↑		
127	18122 p5710	18:12:12	+57:10:00	1	1m	this is a superposed *

## 60 inch Telescope Log

Observer: PBSpectrograph: FASTGrating: 3002Page: 3877PI: HuchraDate: 7/27/85

Number	Object	R.A.	Dec.	L/R	Exp	Comments
128	18122p5710	"	"		5m	this is the galaxy
129	COMP			↑		
130	A1812p6953	18:12:36	+69:54:30		7m	
131	COMP			↑		
132	18128p7050	18:12:09	+70:50:51		4m	
133	COMP			↑		
134	18130p6330	18:13:19	+69:30:57		4m	star on slit to E
135	COMP			↑		
136	18158p6723	18:15:48	+67:25:10		3m	
137	COMP			↑		
138	18189p6819	18:18:46	+68:19:33		8m	star on slit to E Ha
139	COMP			↑		
140	18197p6310 E	18:20:01	+63:41:26		4m	East strong Ha
141	18197p6310 W	"	"		2m	West
142	COMP			↑		
143	18227p6043	18:22:46	+60:43:40		7m	Ha
144	COMP			↑		
145	18248p6028	18:24:48	+60:28:10		4m	
146	COMP			↑		
147	19089p7300	19:07:58	+73:04:54		4m	Ha
148	COMP			↑		
149	19126p7017	19:12:36	+70:17:10		10m	Ha
150	COMP			↑		
151	19132p6332	19:13:12	+63:32:10		5m	Ha
152	COMP			↑		
153	19150p7026	19:15:00	+70:06:00		7m	Ha
154	COMP			↑		
155	19213p6310	19:21:18	+63:10:10		4m	* on slit to W Ha
156	COMP			↑		
157	19270p1513N	19:27:19	+65:19:11		5m	north comp Ha

60 inch Telescope Log			Spectrograph: <u>FAST</u>		Page: <u>3578</u>	
Observer: <u>PB</u>			Grating: <u>300L</u>			
PI: <u>Huchra/Wilkens/Geller</u>			Date: <u>7/27/95</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
158	19270p65735	19:27:19	+65:19:11	1	5m	H <sub>α</sub>
159	COMP			↑		
160	19298p7201	19:29:48	+72:01:00	1	7m	H <sub>α</sub>
161	COMP			↑		
162	19332p7221	19:32:32	+72:27:35	1	3m	H <sub>α</sub>
163	COMP			↑		
164	19370p7026	19:37:00	+70:26:00	1	10m	H <sub>α</sub>
165	COMP			↑		
166/167	Cyg0029	20:31:23	+41:04:50	6	30s	x
168	COMP			↑		
169/170	WdF176	20:32:12.9	+24:53:32	6	1m	
171	COMP			↑		
172	MRK 509	20:41:26	+10:51:18	6	2m	
173	COMP			↑		Finally; great seeing
174	S20.090633	22:22:53.9	+13:26:57	3	5m	
175	COMP			↑		
176	S20.09099	22:26:11.43	+13:28:10	3	6m	finishes the plate!
177	COMP			↑		
178	01163p0405	01:16:18	+04:05:10	21	4m	Rich Groups
179	01165p0404	01:16:28	+04:03:49	21	4m	H <sub>α</sub> - strong!
180	COMP			↑		
181	01184p0419	01:18:24	+04:19:10	21	4m	* on slit to E
182	COMP			↑		
183/184	163m217	00:40:35	+41:11:20	0	5m	
185	COMP			↑		
186/187	158m213	00:40:30	+40:50:55	0	4m	
188	COMP			↑		
189/190	225m280	00:41:45.1	+41:06:12	0	3m	
191	COMP			↑		
192-196	M32	00:39:36	+40:55:30	0	30s	



60 inch Telescope Log

Observer: HuckertPI: MarySpectrograph: FASTGrating: 300APage: 3880Date: 7/28/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	FLAT			-	6s	
11-20	BIAS			-	-	
21	HENRIAN			↓		clouds!
22	N5548	14 15 43	+25 22 01	G	2m	
23	N5548			G	5m	
24	13594 p5208	13 59 24	+52 08 00	1	10m	
25	HENRIAN			↓		
26	13594 p5208			1	15m	clouds.
27	HENRIAN			↓		
28	13595 p5440	15 59 30	+54 40 00	1	12m	
29	HENRIAN			↓		
30	328.088632	15 32 52.8	+30 25 30	3	15m	clouds
31	328.088032	"	"	3	15m	↓ ← best.
32	328.088652			3	15m	
33	HENRIAN			↓		
34	328.089228	15 32 52.8	+30 27 14	3	15m	
35	328.089220	"	"	3	15m	
36	HENRIAN			↓		
37	328.091497	15 <sup>h</sup> 36 07.1	+30 35 05	3	15m	
38	COMP			↓		
39	16220 p6840	16 <sup>h</sup> 21 58	+68 33 04	1	10m	
40	16253 p7019	16 25 01	+70 12 17	1	15m	
41	16253 p7019	"	"	1	12m	
42	HENRIAN			↓		
43	16319 p6950	16 <sup>h</sup> 31 39.7	+69 43 43	1	12m	
44	HENRIAN			↓		
45	16394 p7814 S	16 37 05.9	+78 08 27	7	12m	clouds Scomp
46	16394 p7814 S	"	"	2	12m	
47	16394 p7814 E			2	15m	E comp
48	M4 509	20 <sup>h</sup> 41 26	+0 54 18	G	5m	

↑ not all mirror covers open...  
hangup!

60 inch Telescope Log				Spectrograph: <u>PAT</u>		Page: <u>3881</u>	
Observer: <u>Huxera</u>				Grating: <u>30R</u>		Date: <u>7/28/95</u>	
PI: <u>MAM</u>							
Number	Object	R.A.	Dec.	L/R	Exp	Comments	
49	HENEAR			↑		CLOUDS	
50	EG145	21 29 41	+00 01 55	0	2m	STD 522m	
51	HENEAR			↓			
52	EG145	"	"	0	5m	" "	
53	HENEAR			↓			
54	HO 198 858	20 49 50	47 31 07	0	8s	Template. de focused	
55	HO 198 858	"	"	0	8s	"	
56	HO 198 858	"	"	0	8s	"	
57	HENEAR			↓		Clouds In focus.	
58	M31	00 <sup>h</sup> 40 00	+40 59 42	0	60s	Temp.	
59	M32	00 39 58	+40 35 30	0	120s	Temp	
60	M32	"	"	0	120s		
61	HENEAR			↓			
62	225m 286	00 41 45	+41 05 01	0	300s	template. Clouds	
63	RX 2056 p0349 A	2 56 03	+03 49 43	1	420s	A Fog	
64	RX 2056 p0349 B	"	"	1	900	B	
65	RX 2056 p0349 C	"	"	1	900	C Clouds ! Done lat.	
66	RX 2056 p0349 C	"	"	1	900	C	
67	HENEAR			↑			
68	HENEAR			↓			
69	HENEAR A 2424A	22 <sup>h</sup> 10 24.0	+12° 49 00	1	7200	Abell 2424 #1	
70	HO 126 23	02 <sup>h</sup> 02 18	+62 56 03	0	8s	Template De focused	
71	"	"	"	0	8s		
72	"	"	"	0	6s		
73	COMP			↑			
74-83	BIAS			-	-		
84-95	FLAT			-	6s		
94-97	DARK			-	15m		
98							

60 inch Telescope Log

Observer: HUCHWAPI: MAYSpectrograph: FASTGrating: 300RPage: 3882Date: July 29, 1995

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-5	BIAS			-	-	
6-11	DARK			-	15m	
12-20	BIAS			-	-	
21-30	FLAT			-	60s	
31	HENRIAN			-	120s	
32	HENRIAR			-	20s	
33	COMP			↓		
34	SKY	200th		0	10s	
35-38	SKY			0	12s	
39	COMP			↓		From 1020
40	EG193	15 42 03	+18 16 12	0	120s	STD STAR
41	COMP			↓		
42	N5548	14 05 43	+25 22 01	6	200s	
43	COMP			↓		
44	N4991	13 09 12	+02 22 40	1	720s	H <sub>α</sub>
45	COMP			↓		
46	328.091586	15 34 37.1	+30 14 55	3	300	
47	328.091586	"	"	3	360	
48	328.092081	15 35 42.8	+30 01 17	3	360	
49	COMP			↓		
50	328.093067	15 38 43.2	+30 40 15	3	480	H <sub>α</sub> at 6930
51	COMP			↓		
52	328.093669	15 29 03	+30 39 35	3	720	
53	COMP			↓		
54	328.094312	15 36 19.1	+30 43 51	3	600	emission low Z
55	328.094354	15 33 34.4	+30 43 03	3	360	
56	COMP			↓		
57	328.94917	15 35 33.8	+30 45 11	3	420	
58	COMP			↓		
59	328.95342	15 44 40.5	+30 47 10	3	300	

60 inch Telescope Log

Spectrograph: FA57

Observer: Huchra

Grating: 300 R

Page: 5883

PI: Geller, Huchra

Date: July 29, 1995

Number	Object	R.A.	Dec.	L/R	Exp	Comments
60	Comp			↓		
61	328.095925	15 38 15.1	+30 48 44	3	300	
62	Comp			↓		
63	328.095932	15 29 01.5	+30 46 11	3	300	
64	328.096266	15 27 29	+30 46 40	3	360	]
65	328.096266	"	"	3	480	
66	Comp			↓		
67	328.097595	15 38 24.6	+30 53 23	3	360	H <sub>α</sub>
68	328.099637	15 41 51.0	+31 00 56	3	480	H <sub>α</sub> Sy 2?
69	328.103180	15 39 03.8	+31 11 51	3	600	] H <sub>α</sub>
70	328.103180			3	600	
71	Comp			↑		
72	Comp			↓		
73	I 1225	16 36 57	+67 44 41	1	420	
74	Comp			↓		
75	16376p 7240	16 37 36	+72 40 00	1	360	H <sub>α</sub>
76	Comp			↓		
77	16394 p 6205	16 39 24	+62 05 00	1	360	H <sub>α</sub>
78	16406 p 6229	16 40 31.7	+62 29 45	1	360	H <sub>α</sub>
79	Comp			↓		
80	16415 p 6155	16 41 30	+61 55 00	1	600	H <sub>α</sub> at 6680
81	16446 p 6155	16 44 30	+61 55 00	1	600	] H <sub>α</sub> Look at image check → rotation!
82	16446 p 6155	"	"	1	300	
83	Comp			↓		
84	16493 p 6850	16 49 14	+68 50 36	1	300	
85	16507 p 6908	16 50 42	+69 08 00	1	360	H <sub>α</sub> at 6625
86	A 3812 A	21 45 00.7	+32 57 13	1	180	
87	Comp			↓		
88	A 3812 B	21 45 19.9	-32 50 58	1	720	
89	A 3812 H	21 45 28.1	-32 50 50	1	720	
90	Comp			↓		

## 60 inch Telescope Log

Observer: HUCHEAPI: HUCHEA, NewtonSpectrograph: FAN7Grating: 300LPage: 3884Date: July 29, 1985

Number	Object	R.A.	Dec.	L/R	Exp	Comments
91	17368 p7048	17 <sup>h</sup> 33 <sup>m</sup> 48.0	+70°48'00"	1	360	Cirrus
92	17342 p7052	17 <sup>h</sup> 34 <sup>m</sup> 12.0	+70°52'00"	1	240	
93	HENSON			↓		
94	18257 p7030	18 <sup>h</sup> 25 <sup>m</sup> 42	+70°30'00"	1	600	H <sub>2</sub>
95	HENSON			↓		
96	18276 p7245	18 27 36	+72°45'00"	1	600	plus H <sub>2</sub> Cirrus
97	comp			↑		Very cloudy
98	BD +28 421	21 48 57	+28°37'48"	0	60	
99	BD +28 421	"	"	0	60	
100	BD +28 421	"	"	0	60	
101	comp			↓		
102	MR 509	20 41 26	-10°54'18"	6	240	
103	C4 CY6	19 24 33	+30°14'30"	12	25	Cirrus
104	C4 CY6	"	"	12	303	
105	comp			↑		
106	comp			↓		
107	V1016 Cy9	19 57 04	+39°45'37"	12	35	
108	V1016 Cy9	"	"	12	303	
109	comp			↓		
110	C2 CY9	19 50 12	+35°41'04"	12	55	
111	C2 CY9	"	"	12	503	
112	comp			↓		
113	Hm Sgr	19 41 57	+16°44'40"	12	103	
114	Hm Sgr	"	"	12	503	
115	comp			↓		
116	B1 CY9	19 21 55	+29°31'30"	12	55	
117	B1 CY9	"	"	12	1005	
118	comp			↓		
119	Pu Vul	20 <sup>h</sup> 19 <sup>m</sup> 01.1	+21°24'43"	12	33	
120	Pu Vul	"	"			



60 inch Telescope Log			Spectrograph: <u>FAST</u>			
Observer: <u>HUGHES</u>			Grating: <u>300 L</u>		Page: <u>3886</u>	
PI: <u>WILKES, HUGHES</u>			Date: <u>July 30, 1995</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS			-	-	
11-14	DARK			-	15m	
15-17	BIAS			-	-	
18-27	FLAT			-	6s	
28-30	BIAS			-	-	
31	HENEAR			-	30s	Focus 1000
32	COMP			↓		CLOUDS
33	NSS48			6	300	- NADA - CLOUDS
34	NSS48	14 15 43	+25 22 01	6	300	
35	COMP			↓		
36	13584 p 5930	18° 59' 50.8	+59° 17' 10	1	360	
37	COMP			↓		
38	Feyr 18	14 36 04	+27 42 38	0	120	570 STAR
39	COMP			↓		
40	14074 p 5904	14 67 24	+54 04 00	1	720	- NADA - CLOUDS
41-50	BIAS			-	-	
51-60	FLAT			-	6s	
61-66	DARK			-	15m	

60 inch Telescope Log

Observer: HUCHRA

PI: WILKES, WARRIES, HENRI, HUCHRA

Spectrograph: FAST

Grating: 300R

Page: 3887

Date: July 31, 1995

*this is the end...*

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS			-	-	
11-14	DARK			-	15m	
15-20	BIAS			-	-	
21-30	FLAT			-	6s	
31	HENRI			↓	30s	
32-36	SKY			0	10s	Search for templates.
37	COMP			↓		
38	N5548	14 15 43	+25 22 01	6	120s	clouds...
39	BOMP			↓		
40	FEIGEN2	14 36 14	+27 42 38	0	120s	clouds.
41	COMP			↓		Stopped for 4 hrs. -
42	441722 p11 BL	17 22 44	+11 54 51	6	300	Weeks - object C
43	441722 p11 BL			6	600	object BL
44	441722 p11 BL			6	600	
45	COMP			↓		
46	RS oph	17 47 31	-06 41 39	12	150	CLOUDS! NO GOOD
47	COMP			↓		
48	RX1729 p0720 C	17 29 34	+07 20 50	1	600	CLOUDS NO
49	COMP			↓		
50	AG Dra	16 01 23	+66 56 25	12	3s	
51	AG Dra			12	30s	
52	COMP			↓		
53	YY Her	18 12 26	+20 58 12	12	5s	
54	YY Her			12	10s	
55	YY Her			12	180s	cloudy
56	COMP			↓		
57	V443 Her	18 20 02.2	+23 25 48	12	3s	
58	V443 Her			12	60s	
59	COMP			↓		

