

60 inch Telescope Log

Observer: P. BerlindPI: HuchraSpectrograph: FASTGrating: 30L, 3" slitPage: 3593Date: 4/1/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS					clouds to W
11-20	FLAT					
21	COMP					fst
22-24	HDB271	06:57:51	+27:13:42	0	5s/5s	grating tilt = 590
25	COMP			↑		
26-28	AGK2p14783	07:17:47	+4:59:37	0	15s	
29	COMP			↑		
30	EG167	09:43:29.4	+44:08:33	0	2m	
31	COMP			↑		
32	N3079	09:58:34.8	+55:55:24	0	5m	nucleus
33	COMP			↑		
34-35	N3379	10:45:11.4	+12:50:48	0	3m	x2
36	COMP			↑		
37-38	N3115	10:02:44.4	-07:28:30	0	2m	x2
39	COMP			↑		
40	U04852	09:10:00	+80:15:00	1	10m	H α @ pixel 2888
41	COMP			↑		
42	U04967	09:18:30	+72:16:00	1	4m	
43	COMP			↑		
44	U04981	09:19:42	+68:17:00	1	5m	
45	COMP			↑		
46	U04998	09:10:48	+68:37:00	1	9m	clouds! H α 2174
47	COMP			↑		
48	0920p7801	09:20:00	+78:01:00	1	5m	
49	COMP			↑		
50	U04910	09:20:18	+62:14:00	1	10m	thin cloud all over <small>North</small>
51	COMP			↑		
52	0920Sp7407	09:20:30	+74:07:00	1	5m	H α
53	COMP			↑		
54	0923Sp7752	09:23:48	+77:52:00	1	5m	

60 inch Telescope Log

Observer: P. BerlindPI: GellerSpectrograph: FASTGrating: 3002Date: 4/1/95Page: 3594

Number	Object	R. A.	Dec.	L/R	Exp	Comments
55	COMP			↑		
56	31S.001345	09:55:32.71	+26:15:27.3	3	5m	
57	COMP			↑		
58	31S.002636	09:55:09.9	+26:23:31.3	3	5m	
59	COMP			↑		
60	31S.02843	09:54:03.1	+26:24:27.5	3	5m	
61	COMP			↑		
62	31S.003665	09:53:18.42	+26:29:12	3	5m	
63	COMP			↑		
64	31S.004461	09:58:25.00	+26:35:11.4	3	10m	2 objects?? check focusing check ext
65	COMP			↑		
66	31S.005772	10:01:55.6	+26:44:04	3	5m	
67	COMP			↑		
68	31S.006425	10:02:18.91	+26:48:04.1	3	5m	
69	COMP			↑		
70	31S.006645	10:20:19.05	+26:45:56.7	3	5m	
71	COMP			↑		fast foc ; new focus = 1080
72	31S.006715	10:12:59.64	+26:48:51.9	3	5m	
73	COMP			↑		
74,75	COMP			-	lost	
76	31S.007880	10:09:15.77	+26:56:26.5	3	5m	adj. just grating to tilt = 610 ↓
77	COMP			↑		
78	31S.010765	10:04:04.59	+27:13:58	3	5m	
79	COMP			↑		
80	31S.011125	09:56:37.58	+27:15:37.3	3	7m	
81	COMP			↑		
82	31S.011483	10:09:39.17	+27:18:06.5	3	5m	
83	COMP			↑		
84	31S.012394	10:08:46.32	+27:23:37.1	3	7m	Hx
85	COMP			↑		

60 inch Telescope Log

Observer: P. Berlin

PI: Geller

Spectrograph: FAST

Grating: 302

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Date: 4/1/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
86	31 S. 013154	09:58:91.96	+27:27:22.6	3	5m	
87	COMP			↑		
88	31 S. 013730	10:13:29.56	+27:30:38	3	5m	Hk
89	COMP			↑		
90	31 S. 015372	09:58:17.14	+27:40:34.5	3	5m	
91	COMP			↑		
92	31 S. 015851	09:59:48.55	+27:43:13.3	3	10m	Hk
93	COMP			↑		
94	31 S. 016363	10:05:55.44	+27:16:26.9	3	5m	
95	COMP			↑		
96	31 S. 016570	10:10:44.3	+27:47:21.3	3	5m	
97	COMP			↑		
98	31 S. 018147	09:54:43.7	+27:55:05	3	5m	
99	COMP			↑		
100	11428m0136	11:42:48.7	-01:35:57.4	S	5m	3C273 J1950
101	COMP			↑		
102	11437m0254	11:43:43.424	-02:54:05.2	S	10m	Hk star on slit to E of 991
103	COMP			↑		
104	11441m0143	11:44:06	-01:43:10	S	5m	Hk
105	COMP			↑		
106, 108	N3976A	11:53:27.9	+6:57:59.32	S	5m / 10m x 2	Reduce #108
107	COMP			↑		
109	121 Top0546	12:17:47.6	+10:38:41.58	S	15m	LSB needs more
110	COMP			↑		
111	12201p0630	12:20:06	+06:30:10	S	10m	thin cloud
112	COMP			↑		
113, 115	12223p0702	12:22:16.71	+07:02:10.82	S	5m	x2
114	COMP			↑		
116	12247m0145	12:24:40.475	-01:45:38.82	S	10m	Hk
117	COMP			↑		

0608 = sum of 0106 + 0108
 1515 = " " 0113 + 0115
 yes, but marginal?

60 inch Telescope Log

Observer: P. BerlindPI: GellerSpectrograph: FASTGrating: 3000Page: 3596Date: 4/1/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
118	12248p0334	12:24:54.321	+03:34:43.56	S	5m	H α
119	COMP			↑		
120	12249p0332	12:24:57.979	+03:32:09.92	S	5m	
121	COMP			↑		
122,124	12285p0157	12:28:30.336	+01:57:06.4	S	10m	H α @ 2008 x2
123,125	COMP			↑		
126	12368p0141	12:36:46.17	+01:42:22.85	S	7m	
127	COMP			↑		
128	12500p0331	12:50:00	+03:31:00	S	7m	H α
129	COMP			↑		
130	12523p0408	12:52:19.174	+04:09:20.32	S	4m	star on slit E of gal
131	COMP			↑		IRIS spectra
132	12379p0519	12:37:54	+05:19:00	S	7m	
133	COMP			↑		
134	13062p0425	13:06:42.8	+04:25:38.75	S	4m	
135	COMP			↑		
136	13130p0445	13:13:02.18	+04:45:21.38	S	10m	H α
137	COMP			↑		
138	F871	13:15:26.6K	+04:39:59	S	3m	RT system backup - restart
139	COMP			↑		
140	325.001204	14:34:40.83	+26:20:42	3	5m	ISR friend to E on slit
141	COMP			↑		
142	325.001335	14:13:55.89	+26:19:33	3	5m	
143	COMP			↑		
144	325.001385	14:17:25.65	+26:20:54.5	3	5m	
145	COMP			↑		
146	325.001604	14:23:44.05	+26:22:41.1	3	5m	focus 1080
147	COMP			↑		
148	325.001903	14:14:56.91	+26:22:06.4	3	5m	star on slit E of gal
149	COMP			↑		

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60 inch Telescope Log

Observer: P. BerlindPI: Geller/HuchraSpectrograph: FASTGrating: 3002Page: 3597Date: 4/1/95

Number	Object	R. A.	Dec.	L/R	Exp	Comments
150	325.002462	14:16:47.57	+26:24:18.7	3	5m	
151	COMP			↑		
152	325.003779	14:17:52.88	+26:25:23.9	3	5m	
153	COMP			↑		
154, 156	325.003226	14:28:00.13	+26:28:05.1	3	5m	X2
155	COMP			↑		
157	325.003563	14:12:39.9	+26:26:51.6	3	5m	
158	COMP			↑		
159	325.001256	14:21:27.72	+26:31:19.2	3	7m	
160	COMP			↑		
161	15250p0027	15:25:40	+00:27:40	1	4m	CFA
162	COMP			↑		
163	15258p0002	15:25:48	+00:02:40	1	5m	H _α
164	COMP			↑		
165	15263p0056	15:26:18	+00:56:40	1	4m	
166	15267p0053	15:26:42	+00:53:00	1	5m	H _α
167	COMP			↑		
168	15284p0109	15:28:24	+01:09:40	1	4m	H _α
169	COMP			↑		
170	U10045	15:46:48	+00:19:40	1	3m	
171	U10046S	15:46:54	+00:22:40	1	4m	South comp
172	U10046N	15:46:54	+00:22:40	1	4m	North comp
173	COMP			↑		
174	15534p0045	15:53:24	+00:45:40	1	5m	
175	COMP			↑		
176	15541p0214	15:54:06	+00:14:40	1	5m	H _α
177	COMP			↑		
178	15580p0039	15:58:40	+00:39:40	1	3m	
179	COMP			↑		
180	16038p0218	16:03:48	+02:18:40	1	3m	

60 inch Telescope Log

Observer: P. BerlindPI: Huchra/GellerSpectrograph: FASTGrating: 300RPage: 3599Date: 4/2/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BFAS				0s	
11-20	FLAT				10s	heavy local cloud cap
21-23	HDS2971	06:57:51	+27:13:42	0	15s	ouch! stopped by clouds
24	COMP			↑		lost a couple hours
25	COMP			85e	90s	1200L g; 1.1" slit; tilt=f10
26-31	FLAT			85	5m, 10m	
32-33	62509	07:45:21	+8:01:37	85	3m	33 sat B Gem
34	COMP			↑	60s	
35-37	59881	07:32:06	+01:54:52	85	2m, 3m, 4m	δ CMT
38	COMP			↑		
39-41	69267	06:16:31	+09:11:08	85	1m, 2m	
42	COMP			↑		
43-44	81797	09:27:35	-08:39:31	85	30s, 15s	
45				↑		
46-47	89254	10:17:38	-08:01:08	85	30s, 90s	
48	COMP			↑		
49, 50	84441	09:45:51	+23:46:27	85	30s, 15s	
51	COMP			↑		H ₂
52	313.65167	09:11:27.79	+30:05:45.2	3	10m	for A. Mahdavi 300R, 3" ↓
53	COMP			↑	↑	
54	09155p0731	09:15:30	+07:31:00	1	5m	superposed stars to E+W
55	091333p0414	09:33:18	+04:14:00	1	10m	H ₂
56	COMP			↑		still a few clouds around
57	09508p0718	09:50:48	+07:18:00	1	10m	H ₂
58	COMP			↑		more clouds
59	315.021560	10:03:34.47	+28:15:39.8	3	7m	
60	COMP			↑		
61	315.021821	09:55:01.65	+28:16:06.7	3	5m	H ₂
62	COMP			↑		
63-65	315.019506	10:18:18.87	+28:01:05	3	5m	x2

w 71. COMP

60 inch Telescope Log

Observer: P. BerlindPI: Geller/Kenyon/WikesSpectrograph: FASTGrating: 3002Date: 4/2/95Page: 3600

Number	Object	R.A.	Dec.	L/R	Exp	Comments
64	COMP			↑		clearing nicely
66	315.019691	10:19:17.53	+28:01:50.4	3	7m	
67	315.017973	10:19:16.52	+28:02:14.7	3	5m	
68	COMP			↑		
69	315.024948	10:20:05.11	+28:31:54.9	3	5m	
70	COMP			↑		
71	315.025485	10:20:51.81	+28:38:04.3	3	7m	
72	COMP			↑		
73	315.026609	10:20:31.01	+28:40:45.7	3	7m	
74	315.026925	10:20:38.38	+28:42:26.5	3	7m	Hx
75	315.027016	10:20:46.05	+28:43:7.8	3	5m	
76	COMP			↑		
77	315.038734	10:08:42.87	+29:52:31.6	3	5m	2005
78	COMP			↑		Hx @ 6580?
79	12178p0040	12:17:47.6	+00:38:41	S	15m	LSB; 32273 also obs
80	COMP			↑		4/1/95 #109 Hx @ pix 2008
81	12442p0316	12:44:12	+03:16:40	S	15m	needs more in both files
82	COMP			↑		
83	N4486B	12:28:00	+12:45:59	0	5m	clouds
84	COMP			↑		
85	TXCU _n	12:42:17.9	+37:02:14	12	60s	
86	COMP			↑		
87, 88	RW H _γ	13:31:32	-25:07:29	12	2s, 15s	↑↑ clouds
89	COMP			↑		
90	Mark421	11:01:40.6	+38:28:43	6	2m	
91	COMP			↑		
92, 93	N4151	12:08:01	+39:41:02	6	30s/60s	
94, 95	H243	13:14:07	+29:21:49	6, 12	1m, 3m	
96	COMP			↑		
97, 98	H244	13:21:19.1	+36:23:38	6, 12, 32	2m	

60 inch Telescope Log

Observer: P. BerlindPI: Wilkes/GreenSpectrograph: FASTGrating: 300LDate: 4/2/95Page: 3601

Number	Object	R.A.	Dec.	L/R	Exp	Comments
99	COMP			↑		lots of clouds
100	N5548	14:15	+25:22	6	2m	
101	COMP			↑		
102	K1	16:18:4.3	+39:23:20	32	5m	
103	COMP			↑		
104	K5	16:47:46.2	+34:58:28	32	7m	
105	COMP			↑		
106	K2	16:38:26.5	+35:00:11	32	7m	
107	COMP			↑		clearing again,
108	K4	16:45:19.5	+35:32:18	32	7m	back to the fuzzballs
109	COMP			↑		
110	13177m0323	13:17:44.178	-03:23:47.5	5	10m	Hx
111	COMP			↑		
112	13211p0137	13:21:07	+01:37:20	5	10m	Hx
113	COMP			↑		thin cloud
114	13232m0315	13:23:15.3	-3:14:37	5	7m	
115	COMP			↑		
116	13259p0008	13:25:55.1	+00:08:49	5	7m	*!o* more clouds Hx
117	COMP			↑		
118	13265p0012	13:26:29	+0:12:51	5	7m	Hx
119	COMP			↑		clouds...
120-121	HD142091	15:51:13.9	+35:39:44	32	2s, 1s	#120 sat
122	COMP			↑		
123, 124	BDp332642	15:51:59.9	+32:56:55	32	1m	
125	COMP			↑		
126	K6	16:50:19.1	+35:10:25	32	7m	
127	COMP			↑		
128	K7	16:52:6.1	+34:54:25	32	10m	comp * on slit to E
129	COMP			↑		
130	K8	17:14:11.9	+42:0:31	32	7m	

60 inch Telescope Log

Observer: P. BerlindPI: Huchra/KenyonSpectrograph: FASTGrating: 300LPage: 3602Date: 4/2/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
131	COMP			↑		clearing
132	GRW p705824	13:38:51.8	+70:17:08	32	3m	6K
133	COMP			↑		
134	15149 pos 11	15:14:54	+05:41:00	1	10m	H _α
135	COMP			↑		
136	15154 pos 25	15:15:24	+08:25:00	1	7m	H _α
137	COMP			↑		
138	15248 pos 40	15:24:48	+06:40:00	1	5m	H _α
139	COMP			↑		
140	15303 pos 26	15:30:18	+08:26:00	1	5m	
141	COMP			↑		
142	15363 pos 704	15:36:18	+07:04:00	1	5m	H _α
143	COMP			↑		
144	15366 pos 754	15:36:36	+07:54:00	1	7m	H _α
145	COMP			↑		
146	U9964	15:37:54	+07:27:00	1	5m	
147	COMP			↑		
148	15384 pos 18	15:38:24	+05:18:00	1	4m	
149	COMP			↑		
150	N5983	15:40:18	+08:24:00	1	4m	U9983
151	COMP			↑		↑↑ clouds
152-153	TCrB	15:57:24	+26:03:36	12	15s, 30s	
154	COMP			↑		
155-156	AG Dra	16:01:23.2	+66:56:25	12	5s, 45s	
157	COMP			↑		
158-159	Y Her	18:12:26	+20:58:12	12	5m, 30s	
160	COMP			↑		
161-163	V443 Her	18:20:02.8	+23:25:48	12	10s, 2m, 5s	
164	COMP			↑		
165-166	RS Oph	17:47:31.6	-06:41:39	12	10s, 2m	

60 inch Telescope Log

Observer: J. PetersPI: J. HeckmanSpectrograph: FASTGrating: 300Page: 3604Date: 4/3/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-15	Bias					
16-30	FLAT					
31	Comp	TEST				
32	Comp			↓	155	
33	HP 52971	06 57 51	27 13 42	0	25	
34	Comp			↓	155	
35	AGK2P14783	07 17 47	14 59 37	0	105	
36	Comp			↓	1155	Stopped + Cloud Tell
37	N3379	10 45 11	12 50 48	0	3M	Cloud Passed By
38	Comp			↓	155	Clouds Around
39	N3115	10 02 44	-07 28 30	0	3M	Thin Clouds
40	Comp			↓	155	
41	SNNGC3526	11 04 24	07 26 00	2	20M	Thin Clouds
42	Comp			↓	155	
43	EG76	11 05 27	-04 52 51	0	6M	Thin Clouds
44	Comp			↓	155	
45	SN1995D	09 40 54	05 08 26	2	15M	
46	Comp			↓	155	
47	09525P0647	09 52 30	06 47 00	1	6M	
48	09532P0648	09 53 12	06 48 00	1	7M	
49	Comp			↓	155	
50	09530P0516	09 53 00	05 16 00	1	8M	
51	Comp			↓	155	
52	09544P0400	09 54 24	04 00 00	1	5M	
53	Comp			↓	155	
54	09544P0403	09 54 24	04 03 00	1	7M	
55	Comp			↓	155	
56	EG184	11 34 27	30 04 35	0	2M	
57	Comp			↓	155	
58	N4151	12 08 01	39 41 02	6	305	

60 inch Telescope Log

Observer: J. PetersSpectrograph: FastGrating: 300Page: 3605PI: J. HuchraDate: 4/3/95

Number	Object	R. A.	Dec.	L/R	Exp	Comments
59	Comp P			↓	155	
60	N4486B	12 28 00	12 45 59	0	5M	
61	Comp P			↓	155	
62	315.039108	10 19 48	29 51 35	3	8M	
63	Comp P			↓	155	
64	315.039292	10 04 07	29 55 54	3	8M	
65	Comp P			↓	155	
66	315.039540	10 16 37	29 55 20	3	8M	
67	Comp P			↓	155	
68	315.041420	10 15 52	30 06 46	3	8M	
69	Comp P			↓	155	
70	315.042336	09 59 57	30 13 38	3	8M	
71	Comp P			↓	155	
72	315.043371	10 08 07	30 19 40	3	8M	
73	Comp P			↓	155	
74	315.045419	10 08 00	30 32 15	3	9	
75	Comp P			↓	155	
76	315.047334	09 56 13	30 43 08	3	7M	
77	Comp P			↓	155	
78	315.047445	10 14 32	30 43 18	3	8M	
79	Comp P			↓	155	
80	H2 43	13 14 00	29 21 49	0	3M	
81	Comp P			↓	155	
82	N5548	14 15 43	25 22 01	6	5M	
83	Comp P			↓	155	
84	321.015100	12 36 50	27 16 39	3	7M	
85	Comp P			↓	155	
86	321.015611	12 32 17	27 17 25	3	9M	
87	Comp P			↓	155	
88	321.015908	12 51 37	27 18 36	3	9M	

60 inch Telescope Log

Observer: J. PetersPI: J. HuckraSpectrograph: FASTGrating: 300Page: 3606Date: 4/3/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
89	Comp P			↓	155	
90	321.015910	12 41 56	27 19 49	3	6M	
91	Comp P			↓	155	
92	321.016752	12 49 08	27 22 06	3	5M	
93	Comp P			↓	155	
94	321.017367	12 36 42	27 24 22	3	7M	
95	Comp P			↓	155	
96	321.017845	12 51 26	27 25 15	3	5M	
97	Comp P			↓	155	
98	321.018141	12 41 07	27 27 40	3	6M	
99	Comp P			↓	155	
100	321.018241	12 51 22	27 26 36	3	5M	
101	Comp P			↓	155	
102	321.018889	12 44 45	27 29 59	3	5M	
103	Comp P			↓	155	
104	321.018931	12 52 09	27 28 36	3	5M	
105	Comp P			↓	155	
106	321.019571	12 46 19	27 32 10	3	10M	Dome started running
107	Comp P			↓	155	in circles!
108	321.019908	12 35 33	27 32 57	3	10M	
109	Comp P			↓	155	
110	321.019968	12 40 46	27 33 51	3	10M	
111	Comp P			↓	155	
112	321.021783	12 54 33	27 37 56	3	7M	
113	Comp P			↓	155	
114	321.024535	12 52 48	27 47 27	3	7M	
115	Comp P			↓	155	
116	321.024622	12 51 05	27 48 16	3	5M	
117	Comp P			↓	155	
118	321.024647	12 54 59	27 47 10	3	7M	* low in slit - where in galaxy?

60 inch Telescope Log

Observer: J. PetersPI: J. HuckraSpectrograph: FASTGrating: 300Page: 3608Date: 4/4/95

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-4	DARK				15M	
5-19	Bias					
20-34	FLAT				16S	
35	Comp P			↓	15S	
36	evesky	STOW	POSITION	0	2S	
37	evesky	"	"	0	5S	
38	Comp P			↓	15S	
39	HD 52971	06 57 51	27 13 42	0	2S	
40	Comp P			↓	15S	
41	AGK 2 P 14783	07 17 47	14 59 37	0	10S	
42	Comp P			↓	15S	
43	H 215	04 37 56	08 34 56	0	5M	
44	Comp P			↓	15S	
45	AKN 120	05 13 37	-06 12 15	6	5M	
46	Comp P			↓	15S	
47	AGK 2 P 43928	09 49 20	43 42 07	0	5S	
48	Comp P			↓	15S	
49	N 3079	09 58 34	55 55 24	0	5M	
50	Comp P			↓	15S	
51	N 3115	10 02 44	-07 28 30	0	3M	
52	Comp P			↓	15S	
53	315.048546	10 14 59	30 50 08	3	8M	
54	Comp P			↓	15S	
55	315.048900	10 06 25	30 54 06	3	7M	
56	Comp P			↓	15S	
57	315.050230	10 04 25	31 02 02	3	8M	
58	Comp P			↓	15S	
59	315.050863	09 58 53	31 05 40	3	8M	
60	Comp P			↓	15S	
61	315.050996	10 08 45	31 06 31	3	8M	

60 inch Telescope Log

Observer: J. PetersPI: J. HuckraSpectrograph: FastGrating: 300Page: 3609Date: 4/4/55

Number	Object	R.A.	Dec.	L/R	Exp	Comments
62	Comp P			↓	155	
63	315.051869	10 01 02	31 12 15	3	5M	
64	Comp P			↓	155	
65	315.053337	10 11 08	31 20 43	3	5M	
66	Comp P			↓	155	
67	315.053501	10 11 18	31 21 44	3	6M	
68	Comp P			↓	155	
69	315.054339	10 11 08	31 27 19	3	7M	
70	Comp P			↓	155	
71	315.055209	10 18 14	31 30 48	3	7M	
72	Comp P			↓	155	
73	315.055497	10 17 36	31 37 02	3	5M	
74	Comp P			↓	155	
75	315.055847	09 54 33	31 36 21	3	5M	
76	Comp P			↓	155	
77	315.057275	09 59 50	31 47 02	3	5M	
78	Comp P			↓	155	
79	315.059310	10 01 31	32 01 18	3	6M	
80	Comp P			↓	155	
81	RX1022P3831C	10 22 08	38 31 02	99	5M	
82	RX1022P3831C	↓	↓	99	5M	
83	Comp P	↓	↓	↓	155	
84	RX1022P3831D	↓	↓	99	10M	
85	Cex	↓	↓	↓	155	
86	RX1022P3831G	↓	↓	99	11M	
87	Comp P			↓	155	
88	N3379	10 45 11	12 50 48	0	3M	
89	Comp P			↓	155	
90	N4486B	12 28 00	12 45 59	0	5M	
91	Comp P			↓	155	

60 inch Telescope Log

Observer: J. PetersPI: J. HuckraSpectrograph: FASTGrating: 300Page: 3610Date: 4/4/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
92	EG 184	11 34 27	30 04 35	0	2M	
93	Comp			↓	15S	
94	N4151	12 08 01	39 41 02	6	30S	
95	Comp			↓	15S	
96	321.025671	12 34 16	27 51 42	3	6M	
97	Comp			↓	15S	
98	321.025767	12 55 34	27 50 28	3	5M	
99	Comp			↓	15S	
100	321.026175	12 55 19	27 51 57	3	7M	
101	Comp			↓	15S	
102	321.030053	12 45 36	28 07 08	3	5M	
103	Comp			↓	15S	
104	321.030115	12 54 19	28 05 26	3	6M	
105	Comp			↓	15S	
106	321.030124	12 54 10	28 05 31	3	5M	
107	Comp			↓	15S	
108	321.030229	12 40 45	28 07 35	3	5M	
109	Comp			↓	15S	
110	321.030464	12 34 09	28 07 48	3	5M	
111	Comp			↓	15S	
112	321.030630	12 49 01	28 08 41	3	5M	
113	Comp			↓	15S	
114	321.031324	12 39 43	28 11 46	3	5M	
115	Comp			↓	15S	
116	321.032834	12 28 31	28 14 10	3	5M	Yes Big Time Sy
117	Comp			↓	15S	
118	321.033604	12 30 20	28 17 00	3	6M	
119	Comp			↓	15S	
120	321.033627	12 49 55	28 19 07	3	5M	
121	Comp			↓	15S	

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Date: 4/4/95Page: 3611

Number	Object	R. A.	Dec.	L/R	Exp	Comments
122	321.034130	12 54 57	28 18 28	3	5M	
123	Comp P			↓	15S	
124	321.035674	12 52 18	28 24 27	3	5M	
125	Comp P			↓	15S	
126	321.037011	12 44 51	28 30 11	3	6M	
127	Comp P			↓	15S	
128	321.039275	12 40 06	28 37 02	3	5M	
129	Comp P			↓	15S	
130	321.040120	12 51 07	28 38 26	3	5M	
131	Comp P			↓	15S	
132	321.040679	12 50 55	28 40 05	3	5M	
133	Comp P			↓	15S	
134	321.041502	12 34 27	28 43 05	3	8M	Vel not very good
135	Comp P			↓	15S	
136	321.042181	12 45 35	28 45 41	3	5M	
137	Comp P			↓	15S	
138	321.042669	12 41 28	28 42 26	3	5M	
139	Comp P			↓	15S	
140	321.043800	12 31 55	28 49 10	3	5M	
141	Comp P			↓	15S	
142	321.044658	12 31 24	28 51 17	3	5M	
143	Comp P			↓	15S	
144	321.062891	12 43 52	29 46 49	3	12M	
145	Comp P			↓	15S	
146	321.063335	12 40 23	29 47 58	3	10M	
147	Comp P			↓	15S	
148	321.063666	12 42 50	29 49 10	3	6M	
149	Comp P			↓	15S	
150	321.068371	12 45 57	30 03 10	3	12M	
151	Comp P			↓	15S	

60 inch Telescope Log

Spectrograph: FASTObserver: J. PetersGrating: 300Page: 36/2PI: J. HuchraDate: 4/4/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
152	321.068960	12 47 45	30 04 36	3	5M	
153	Comp P			↓	15S	
154	321.070220	12 47 09	30 08 47	3	5M	
155	Comp P			↓	15S	
156	321.071845	12 48 31	30 13 37	3	5M	
157	Comp P			↓	15S	
158	321.072576	12 39 24	30 16 31	3	5M	
159	Comp P			↓	15S	
160	321.077900	12 55 07	30 30 44	3	5M	
161	Comp P			↓	15S	
162	HZ 43	13 14 00	29 21 49	0	3M	
163	Comp P			↓	15S	
164	N5548	14 15 43	25 22 01	6	5M	
165	Comp P			↓	15S	
166	HD 136711	15 19 27	18 37 03	0	5S	
167	Comp P			↓	15S	
168	SAO 084795	17 01 06	24 55 00	0	6S	
169	Comp P			↓	15S	
170	16268 P5230	16 26 48	52 30 00	1	5M	
171	Comp P			↓	15S	
172	16318 P5318	16 31 48	53 18 00	1	5M	
173	Comp P			↓	15S	
174	16328 P5613	16 32 48	56 13 00	1	5M	
175	Comp P			↓	15S	
176	16341 P5544	16 34 06	55 44 00	1	5M	
177	Comp P			↓	15S	
178	16350 P5608	16 35 00	56 08 00	1	5M	
179-193	Bias					
194-207	FLAT				10S	
208-211	DARK				15M	

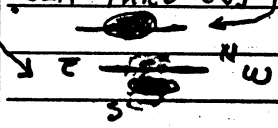
60 inch Telescope Log

Observer: J. PetersPI: J. AuerhaSpectrograph: FASTGrating: 300Date: 4/5/95Page: 3613

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-4	Dark				15 ^m	
5-19	Bias					
20-33	FLAT				10 ^s	
34	Com P			↓	15 ^s	
35	EYESKY	Stop	Position	0	2 ^s	
36	EYESKY	"	"	0	5 ^s	
37	Com P			↓	15 ^s	
38	AGK2P14783	07 17 47	14 59 37	0	10 ^s	
39	Com P			↓	15 ^s	
40	HD 52971	06 57 51	27 13 42	0	2 ^s	
41	Com P			↓	15 ^s	
42	AGK2P43928	07 49 20	43 42 07	0	5 ^s	
43	Com P			↓	15 ^s	
44	AKN120	05 13 37	-00 12 15	6	5 ^m	
45	Com P			↓	15 ^s	
46	HZ15	04 37 56	08 34 50	0	5 ^m	
47	Com P			↓	15 ^s	
48	UVAUR	05 18 33	32 27 51	12	2 ^s	
49	UVAUR	↓	↓	12	7 ^s	
50	Com P			↓	15 ^s	
51	BXMON	07 22 54	-03 30 00	12	20 ^s	
52	BXMON	↓	↓	12	90 ^s	
53	Com P			↓	15 ^s	
54	09545P0525	09 54 30	05 25 00	1	5 ^m	
55	Com P			↓	15 ^s	
56	09548P0821	09 54 48	08 21 00	1	5 ^m	
57	Com P			↓	15 ^s	
58	09584P0323	09 58 24	03 23 00	1	5 ^m	
59	Com P			↓	15 ^s	
60	A0917P7557	09 17 36	75 57 00	1	2 ^m	

60 inch Telescope Log

Observer: Jim PetersPI: J. HechlerSpectrograph: FASTGrating: 300Date: 4/5/95Page: 3614

Number	Object	R. A.	Dec.	L/R	Exp	Comments
61	Comp			↓	155	
62	11005P0344	11 00 30	03 44 00	↓	12M	
63	Comp			↓	155	
64	11007P0400	11 00 42	04 00 00	↓	10M	
65	Comp			↓	155	
66	11415N0216	11 41 34	-02 16 52	5	15M	3C 273 ? pub obj
67	Comp			↓	155	↓
68	11424N0213	11 42 23	-02 13 34	5	8M	
69	Comp			↓	155	
70	11424N0207	11 42 25	-02 07 07	5	8M	
71	Comp			↓	155	
72	11420N317	11 41 55	-03 17 36	5	5M	
73	Comp			↓	155	
74	11436P0747	11 43 36	07 47 00	5	15M	
75	Comp			↓	155	
76	11452N0302	11 45 12	-03 02 32	5	10M	
77	unnamed	Looking	for Cygnus	Not good		
78	Comp			↓	155	No finding chart This is
79	CYUMA	10 56 58	49 41 12	5	15M	a faint obj ≈ 15 or 16 MV
80	Comp			↓	155	
81	N 42 12	12 13 06	14 11 00	1	1M	SLIT Thru obj
82	N 42 12 N	↓	↓	1	5M	
83	Comp			↓	155	
84	N3115	10 02 44	-07 28 30	0	3M	
85	Comp			↓	155	
86	N3379	10 45 11	12 50 48	0	3M	
87	Comp			↓	155	
88	N 44 86 B	12 28 00	12 45 59	0	5M	
89	Comp			↓	155	
90	EG 184	11 54 27	30 04 35	0	1M	

60 inch Telescope Log

Spectrograph: FASTObserver: J. PetersGrating: 300Page: 3615PI: J. HuchraDate: 4/5/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
91	Comp			↓	155	
92	N4151	12 08 01	39 41 02	6	300	
93	Comp			↓	155	
94	11458N0121	11 45 44	-01 21 44	5	7M	3C 273
95	Comp			↓	155	
96	11458P0637	11 45 48	06 37 00	5	15M	
97	Comp			↓	155	
98	11461P0002 A	11 46 03	00 02 37	5	12M	
99	Comp			↓	155	
100	11462N0001 B	11 46 06	-00 00 30	5	5M	
101	Comp			↓	155	
102	11474N0322	11 47 21	-03 23 05	5	5M	
103	Comp			↓	155	
104	11489P0741	11 48 54	07 41 00	5	15M	
105	Comp			↓	155	
106	11490P0011	11 48 57	00 12 00	5	5M	
107	Comp			↓	155	
108	11490P0013	11 49 02	00 16 43	5	15M	
109	Comp			↓	155	
110	11498P0415	11 49 48	04 15 00	5	10M	
111	Comp			↓	155	
112	I 29109	11 49 57	-03 23 47	5	20M	
113	Comp			↓	155	
114	11506P0625	11 50 36	06 25 00	5	15M	
115	Comp			↓	155	
116	H 243	13 14 00	29 21 49	0	3M	
117	Comp			↓	155	
118	N5548	14 15 43	25 22 01	6	5M	
119	Comp			↓	155	
120	HD 136211	15 19 27	18 37 03	0	5 ^s	

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Page: 36 16Date: 4/5/95

Number	Object	R.A.	Dec.	L/R	Exp	Comments
121	Comp			↓	15 ^s	
122	325, 006070	14 19 34	26 36 58	3	5 ^m	
123	Comp			↓	15 ^s	
124	325, 009387	14 12 34	26 45 55	3	5 ^m	
125	Comp			↓	15 ^s	
126	325, 010599	14 32 28	26 52 19	3	5 ^m	
127	Comp			↓	15 ^s	
128	325, 011637	14 13 38	26 54 14	3	5 ^m	
129	Comp			↓	15 ^s	
130	325, 012938	14 23 49	27 00 48	3	5 ^m	
131	Comp			↓	15 ^s	
132	325, 013089	14 14 06	26 59 27	3	5 ^m	
133	Comp			↓	15 ^s	
134	325, 013888	14 34 49	27 03 12	3	5 ^m	
135	Comp			↓	15 ^s	
136	325, 015930	14 24 25	27 11 03	3	5 ^m	
137	Comp			↓	15 ^s	
138	325, 016272	14 29 07	27 11 47	3	5 ^m	
139	Comp			↓	15 ^s	
140	325, 016858	14 16 18	27 12 54	3	5 ^m	
141	Comp			↓	15 ^s	
142	325, 017028	14 32 08	27 14 21	3	5 ^m	
143	Comp			↓	15 ^s	
144	AS 338	19 01 32	16 21 49	12	10 ^s	
145	AS 338	↓	↓	12	90 ^s	
146	Comp			↓	15 ^s	
147	AS 360	19 43 35	18 29 23	12	20 ^s	
148	AS 360	↓	↓	12	4 ^m	
149	Comp			↓	15 ^s	
150	V2416 Sgr	17 54 15	-21 41 10	12	30 ^s	

60 inch Telescope Log

Observer: J. Peters

PI: J. H. Kuhn

Spectrograph: FAST

Grating: 300

Date: 4/25/95

Page: 3657

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-7	Comp	TEST			15 ^s	Focus
8	Comp	TEST				Wave Length
9-12	Blank				15 ^m	
13-27	Bias					
28-42	FLAT				10 ^s	
43	Comp			↓	15 ^s	
44	Evesky	Stars	32:00	0	1 ^s	
45	Evesky	"	"	0	2 ^s	
46	Evesky	"	"	0	3 ^s	
47	Comp			↓	15 ^s	
48	HD 52971	06 57 51	27 13 42	0	2 ^s	
49	Comp			↓	15 ^s	
50	AGK2P14783	07 17 47	14 59 32	0	10 ^s	
51	Comp			↓	15 ^s	
52	AGK2P43922	09 49 20	43 42 07	0	5 ^s	
53	Comp			↓	15 ^s	
54	N 3115	10 02 44	-07 28 32	0	3 ^m	
55	Comp			↓	15 ^s	
56	EG 67	09 43 39	44 08 33	0	2 ^m	
57	Comp			↓	15 ^s	
58	SN1995D	09 40 54	05 08 26	2	15 ^m	
59	Comp			↓	15 ^s	
60	SN NGC 3526	11 04 24	07 26 00	2	20 ^m	
61	Comp			↓	15 ^s	
62	11516N0324	11 51 33	-3 24 15	5	6 ^m	36273 survey
63	Comp			↓	15 ^s	
64	11518P0545	11 51 48	05 45 00	5	8 ^m	
65	Comp			↓	15 ^s	
66	11531N0628	11 53 04	-00 29 32	5 ^s	5 ^m	
67	Comp			↓	15 ^s	

60mi
Topic

60 inch Telescope Log		Spectrograph: <u>F027</u>		Page: <u>3652</u>		
Observer: <u>J. Peters</u>		Grating: <u>300</u>		Date: <u>4/25/75</u>		
PI: <u>J. Huchra et al.</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
68	N3976A	11 53 27	06 27 59	5	8M	30273
69	Comp			↓	15S	
70	11535P0547	11 53 30	02 47 52	5	5M	
71	Comp			↓	15S	
72	11536P0224	11 53 31	02 22 43	5	5M	
73	Comp			↓	15S	
74	11537N0322	11 53 42	-03 21 19	5	2M	STAR
75	Comp			↓	15S	
76	11548P0047	11 54 49	00 45 55	5	6M	
77	Comp			↓	15S	
78	11549N0157	11 54 52	-01 58 07	5	15M	
79	Comp			↓	15S	
80	11559P0100	11 55 53	00 59 46	5	5M	
81	Comp			↓	15S	
82	11557N0136	11 55 41	-01 36 46	5	5M	
83	Comp			↓	15S	
84	11558N0140	11 55 45	-01 40 49	5	5M	
85	Comp			↓	15S	
86	11560N0150	11 55 59	-01 51 26	5	2M	
87	Comp			↓	15S	
88	11568P0143	11 56 50	01 42 44	5	15M	
89	Comp			↓	15S	
90	11569N0051	11 56 53	-00 52 37	5	10M	
91	Comp			↓	15S	
92	11570N0305	11 57 04	-03 05 56	5	5M	
93	Comp			↓	15S	
94	11572N0306	11 57 10	-03 07 13	5	15M	
95	Comp			↓	15S	
96	11579P0047	11 57 50	00 46 08	5	5M	
97	Comp			↓	15S	

60 inch Telescope Log
 Observer: J Peters
 PI: J Hutchins

Spectrograph: FAST
 Grating: 300
 Date: 4/25/95

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
98	N4258	12 16 29	47 34 51	99	5M	
99	Comp			↓	15"	
100	EG184	11 34 27	30 04 35	0	2M	
101	Comp			↓	155	
102	N4151	12 08 01	39 41 02	6	30"	
103	Comp			↓	155	
104	N4486 B	12 28 00	12 45 59	0	5M	
105	Comp			↓	155	
106	MRK 279	13 51 53	69 33 13	99	8M	
107	Comp			↓	155	
108	Feige 98	14 36 04	27 42 28	0	1M	
109	Comp			↓	155	
110	N5548	14 13 43	25 22 01	6	5M	
111	Comp			↓	155	
112	326.000065	14 48 16	26 17 06	3	5M	
113	Comp			↓	155	
114	326.000862	14 56 47	26 30 12	3	6M	
115	Comp			↓	155	
116	326.002552	14 53 05	26 27 31	3	10M	
117	Comp			↓	155	
118	326.003989	14 42 49	26 32 35	3	5M	
119	Comp			↓	155	
120	326.004841	14 53 45	26 37 14	3	5M	
121	Comp			↓	155	
122	326.005538	14 47 09	26 39 58	3	5M	
123	Comp			↓	15"	
124	326.005568	14 57 39	26 39 53	3	5M	
125	Comp			↓	155	
126	326.006074	14 50 25	26 42 29	3	5M	
127	Comp			↓	155	

60 inch Telescope Log				Spectrograph: <u>FAST</u>		
Observer: <u>J. Peters</u>				Grating: <u>300</u>		Page: <u>3655</u>
PI: <u>J. Huckaba</u>				Date: <u>4/24/95</u>		
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-4	Dark				15 ^m	
5-19	Bias					Thin Clouds
20-34	FLAT				10 ^s	
35	Comp			↓	15 ^s	
36	Evesky	STOW	22:00	0	1 ^s	
37	Evesky	"	"	0	2 ^s	
38	Evesky	"	"	0	3 ^s	
39	Comp			↓	15 ^s	
40	HD 52971	06 57 51	27 13 42	0	2 ^s	
41	Comp			↓	15 ^s	
42	AGK2P M783	07 17 47	14 59 37	0	10 ^s	
43	Comp			↓	15 ^s	
44	AGK2P 43928	09 49 30	43 42 07	0	5 ^s	
45	Comp			↓	15 ^s	
46	N3379	10 45 11	12 50 48	0	3 ^m	
47	Comp			↓	15 ^s	
48	N3079	09 58 34	55 53 24	0	5 ^m	
49	Comp			↓	15 ^s	
50	N3115	10 02 44	-07 28 30	0	3 ^m	
51	Comp			↓	15 ^s	
52	11579P0444	11 57 54	04 44 00	5	15 ^m	
53	Comp			↓	15 ^s	
54	11585P0623	11 58 34	06 23 45	5	6 ^m	
55	Comp			↓	15 ^s	
56	11594N0046	11 59 21	-00 47 36	5	5 ^m	
57	Comp			↓	15 ^s	
58	12031N0315	12 02 09	-03 16 22	5	5 ^m	
59	Comp			↓	15 ^s	
60	12048P0008	12 04 51	00 07 10	5	10 ^m	
61	Comp			↓	15 ^s	

60 inch Telescope Log			Spectrograph: <u>FAST</u>			
Observer: <u>J. Peters</u>		Grating: <u>300</u>		Page: <u>3656</u>		
PI: <u>J. H. Kaler</u>		Date: <u>4/26/95</u>				
Number	Object	R.A.	Dec.	L/R	Exp	Comments
62	12050 P0066	12 05 01	00 04 22	5	5M	
63	Comp P			↓	15S	
64	12025 P0115	12 08 30	01 15 00	5	5M	
65	Comp P			↓	15S	
66	12136 N0301	12 13 31	-03 01 37	5	5M	
67	Comp P			↓	15S	
68	12136 P0127	12 13 30	01 27 29	5	5M	
69	Comp P			↓	15S	
70	12140 N0040	12 14 02	-00 40 42	5	5M	
71	Comp P			↓	15S	
72	12153 N0022	12 15 19	-00 22 47	5	5M	
73	Comp P			↓	15S	Thick Clouds in West
74	12143 N0309	12 14 10	-03 07 07	5	15M	
75	Comp P			↓	15S	
76	12234 N0311	12 23 26	-03 11 18	5	5M	
77	Comp P			↓	15S	
78	12266 P0052	12 26 30	00 50 05	5	15M	
79	Comp P			↓	15S	
80	12271 N0328	12 27 07	-03 28 23	5	10M	
81	Comp P			↓	15S	
82	12285 N0202	12 28 30	-02 04 04	5	5M	
83	Comp P			↓	15S	Thru Thick Clouds
84	EG 124	11 34 27	30 04 35	0	2M	
85	Comp P			↓	15S	
86	N4151	12 08 01	39 41 02	6	30S	
87	Comp P			↓	30S	
88	N 4486B	12 28 00	12 45 39	0	5M	
89	Comp P			↓	15S	
90	Feige 98	14 36 04	27 42 28	0	2M	
91	Comp P			↓	15S	

60 inch Telescope Log			Spectrograph: <u>Fast</u>			
Observer: <u>J. Petros</u>			Grating: <u>300</u>		Page: <u>3657</u>	
PI: <u>J. Huxford</u>			Date: <u>4/26/95</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments
92	N5548	14 15 43	25 22 01	6	5 ^m	
93	Comp P			↓	15 ^s	
94	11601 P0539	11 00 06	05 39 00	1	5 ^m	
95	Comp P			↓	15 ^s	
96	11005 P0522	11 00 30	05 22 00	1	15 ^m	
97	Comp P			↓	15 ^s	
98	11019 P0256	11 01 54	02 56 00	1	5 ^m	
99	Comp P			↓	15 ^s	
100	11025 P0451	11 02 30	04 51 00	1	10 ^m	
101	Comp P			↓	15 ^s	
102	326.006439	14 39 19	26 42 03	3	5 ^m	
103	Comp P			↓	15 ^s	
104	326.006303	14 48 33	26 45 39	3	5 ^m	
105	Comp P			↓	15 ^s	
106	326.008706	15 03 11	26 52 29	3	5 ^m	
107	Comp P			↓	15 ^s	
108	326.009578	14 53 31	26 38 07	3	6 ^m	
109	Comp P			↓	15 ^s	
110	326.009866	14 40 13	26 57 36	3	6 ^m	
111	Comp P			↓	15 ^s	
112	326.010048	14 42 32	26 59 09	3	10 ^m	
113	Comp P			↓	15 ^s	Clouded out
114	326.010832	15 02 42	27 02 12	3	15 ^m	
115	Comp P			↓	15 ^s	South is gone
116	16357 P 5550	16 35 42	55 30 00	1	5 ^m	
117	Comp P			↓	15 ^s	
118	16369 P 5531	16 36 54	55 31 00	1	5 ^m	
119	Comp P			↓	15 ^s	
120	HD 136711	15 19 27	18 37 03	0	5 ^s	Clouds
121	Comp P			↓	15 ^s	

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>3659</u>
Observer: <u>Perry Berlind</u>		Grating: <u>3000, 3" slit</u>		Date: <u>4/27/95</u>		
PI: <u>Huchra</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS				0s	
11-20	FLAT				6s	~10,000 cts
21	COMP			L	10s	cloud city - bumper
22-27	evesky	star		O	2s, 30s, 60s	7-73-62
28	COMP			↑		
29	Ferge 34	10:26:41.1	+43:21:50	O	90s	
30	COMP			↑		
31	N315	10:02:44.4	-07:28:30	O	3m	nucleus
32	COMP			↑		
33	N3579	10:45:11.4	+12:50:48	O	3m	nucleus
34	COMP			↑		clearing for now
35	11051p0332	11:05:06	+03:32:00	I	5m	H α
36	COMP			↑		
37	11062p0516	11:06:12	+05:10:00	I	5m	H α
38	11070p0538	11:07:00	+05:38:00	I	3m	
39	COMP			↑		visitor delay - 5m
40	1106210	11:07:24	+05:38:00	I	5m	Physics Class from UA
41	COMP			↑		
42	11052p0238	11:05:14.7	+02:37:303	I	3m	
43	11054p0217	11:05:21	+02:17:01.4	I	5m	
44	COMP			↑		
45	10587p0349E	10:58:42	+03:49:00	I	5m	E comp
46	10587p0349W	10:58:42	+03:49:00	I	10m	W comp clouds...
47	COMP			↑		
48	10594p0351	10:59:24	+03:51:00	I	4m	SEECHART; possible SN
49	COMP			↑		on POSS; was not on sky
50	1106168	11:04:30	+05:04:00	I	3m	H α (this dist) ←
51	COMP			↑		
52	1106197E	11:06:36	+05:28:00	I	3m	beautiful spiral structure H α
53	1106197W	11:06:36	+05:28:00	I	3m	

60 inch Telescope Log				Spectrograph: <u>FAST</u>		Page: <u>3660</u>	
Observer: <u>P. Berland</u>				Grating: <u>3002</u>			
PI: <u>Huchra</u>				Date: <u>4/27/95</u>			
Number	Object	R.A.	Dec.	L/R	Exp	Comments	
54	CAMP			↑		Divide @ row 39	
55	11074 p034S	11-07-24	+03-45-60	1	5m	2 objects on slit; 2" sep	
56	CAMP			↑		Western object has H α	
57	11075 p0734	11-07-30	+07-34-60	1	10m	H α	
58	CAMP			↑			
59	11078 p0517	11-07-48	+05-17-60	1	5m	H α	
60	11084 p0508	11-08-24	+05-08-60	1	5m	H α @ pix 218	
61	11083 p0500S	11-08-18	+05-00-60	1	4m	South Camp H α	
62	CAMP			↑			
63	11083 p0500M	11-08-18	+05-00-60	1	5m	Middle Camp	
64	11083 p0500N	11-08-18	+05-00-60	1	4m	North Camp star	
65	CAMP			↑			
66	11165 p0758	11-10-30	+07-58-60	1	5m	thin cloud ground	
67	CAMP			↑			
68	11106 p0528	11-10-36	+05-28-60	1	5m	H α	
69	11107 p0522	11-10-42	+05-22-60	1	4m		
70	CAMP			↑			
71	11108 p0249 N	11-10-46.3	+02-49-28.1	1	4m	v \approx 23K	
72	11108 p0249 W	11-10-46.9	+02-49-28.9	1	4m	v \approx 22K	
73	11108 p0249 E	11-10-45.7	+02-49-27.4	1	4m	v \approx 22K	
74	CAMP			↑			
75	11111 p0658	11-11-06	+06-58-60	1	5m		
76	CAMP			↑			
77	11150 p0734	11-15-60	+07-34-60	1	3m		
78	11154 p0724	11-15-24	+07-24-60	1	3m	H α	
79	CAMP			↑			
80	11163 p0552	11-16-18	+05-52-60	1	5m	H α	
81	CAMP			↑			
82	13241 p1441N	13-24-06	+14-41-60	1	4m	North Camp H α	
83	13241 p1441S	13-24-06	+14-41-60	1	5m	South H α	

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>3661</u>		
Observer: <u>P. Bertel</u>		Grating: <u>3002</u>				
PI: <u>Geller</u>		Date: <u>4/27/95</u>				
Number	Object	R.A.	Dec.	L/R	Exp	Comments
84	COMP			↑		
85	12286p0044	12-28-3378	-10-44-2078	S	5m	3C273 H _A
86	COMP			↑		
87	12286m0323	12-28-5029	-03-23-288	S	5m	H _A
88	COMP			↑		
89	12303p0604	12-30-18	+06-04-60	S	5m	
90	COMP			↑		
91	12321m0324	12-32-29	-03-24-11	S	4m	
92	12325m0319N	12-32-34	-03-19-18	S	5m	North Comp
93	12325m0319S	12-32-34	-03-19-18	S	4m	South
94	COMP			↑		LSB
95, 97	12332m0329	12-33-165	-03-29-27	S	5m, 10m	Om x2 use #97
96	COMP			↑		
98	12325p0609	12-32-30	+06-09-60	S	10m	H _A more clouds
99	COMP			↑		
100	326.011009	14-39-5371	+27-02-453	3	5m	ISR Survey H _A
101	COMP			↑		
102	326.012448	15-02-2886	+27-01-151	3	5m	
103	COMP			↑		
104	326.014446	14-31-4326	+27-11-31	3	5m	
105	COMP			↑		
106	326.015011	14-48-1154	+27-21-14	3	5m	Strong H _A
107	COMP			↑		
108	326.015272	14-53-1709	+27-23-254	3	5m	H _A
109	326.015606	14-53-21	+27-24-53	3	5m	
110	COMP			↑		
111	326.016241	14-43-4734	+27-26-53	3	5m	
112	COMP			↑		
113	326.016289	14-52-0223	+27-27-42	3	5m	
114	COMP			↑		

9597 = sum of 95 + 97

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>462</u>		
Observer: <u>P. Berlind</u>		Grating: <u>300L</u>		Date: <u>4/27/95</u>		
PI: <u>Geller</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
115	326.018117	14:42:08.99	+27:31:50	3	5m	murky mucky sky
116	COMP			↑		w/ an occasional hole
117	326.018151	14:49:02.23	+27:39:21	3	5m	good seeing
118	COMP			↑		
119	326.019116	14:45:0.91	+27:40:0.1	3	5m	
120	COMP			↑		
121	326.019189	14:43:05.81	+27:40:05.1	3	8m	HK
122	COMP			↑		
123	326.019427	14:54:22.88	+27:42:03	3	5m	HK
124	COMP			↑		
125	326.019466	14:48:44	+27:42:07	3	5m	HK
126	COMP			↑		
127	326.020649	15:01:07.77	+27:46:52	3	5m	HK
128	COMP			↑		
129	326.021038	14:50:02.15	+27:44:24.9	3	5m	decent sky
130	COMP			↑		
131	326.021165	14:53:31.2	+27:49:58.8	3	5m	
132	COMP			↑		
133	326.022285	14:50:18.98	+27:55:04.9	3	5m	HK
134	COMP			↑		
135	326.022352	14:55:32.88	+27:53:02.3	3	5m	
136	COMP			↑		
137	326.022464	14:57:47.91	+27:55:49.9	3	5m	
138	COMP			↑		
139	326.022823	14:58:07.13	+27:56:31.4	3	5m	HK
140	COMP			↑		
141	326.023035	14:58:33.89	+27:57:06	3	5m	
142	COMP			↑		clouds
143	326.025636	15:04:27.99	+28:07:38	3	10m	
144	COMP			↑		

60 inch Telescope Log		Spectrograph: <u>FAST</u>				Page: <u>3663</u>
Observer: <u>P. Berlind</u>		Grating: <u>3002</u>				
PI: <u>Geller/Huchra</u>		Date: <u>4/27/95</u>				
Number	Object	R.A.	Dec.	L/R	Exp	Comments
145	326.025914	14:57:12.42	+28:10:42.1	3	5m	
146	COMP			↑		
147	326.026058	14:59:30.47	+28:10:55.4	3	4m	
148	COMP			↑		CFR surveys
149	15151p0132	15:15:06	+01:32.0	1	5m	Hx still some pesky clouds
150	COMP			↑		
151	15191p0058	15:19:06	+00:38.0	1	6m	Hx
152	COMP			↑		
153	15550p0116	15:55:00	+01:16.0	1	5m	Hx
154	COMP			↑		
155	16065p0110	16:06:30	+01:10.0	1	5m	
156	COMP			↑		
157	16077p0110	16:07:42	+01:10.0	1	4m	
158	COMP			↑		
159	16082p0214	16:08:12	+02:14.0	1	4m	star on slit ~ 5" E of gal
160	COMP			↑		
161	16112p0059	16:11:12	+01:39.0	1	7m	
162	COMP			↑		
163	16130p0139	16:13:00	+01:39.0	1	5m	
164	COMP			↑		
165	16178p0152	16:17:48	+01:52.0	1	5m	Hx
166	COMP			↑		
167	16168p0150	16:16:48	+01:50.0	1	10m	more clouds again
168	COMP			↑		Hx @ pixel 2012
169	16173p0205	16:17:18	+02:05.0	1	5m	star on slit 15" W of gal
170	COMP			↑		Hx @ pixel 2005
171,172,177	V1057C ₉₉	20:51:03	+44:03:46	12	5s, 1m	
173	COMP			↑		
174,175	V1515C ₉₉	20:22:06	+42:02:40	12	5s, 3m	has attached fuzz
176	COMP			↑		

60 inch Telescope Log		Spectrograph: <u>FAST</u>		Page: <u>3665</u>		
Observer: <u>P. Berland</u>		Grating: <u>3002</u>		Date: <u>4/28/95</u>		
FI: <u>Geller</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS				0s	lots of citrus
11-20	FLAT				6s	dome problems
21-25	ewesky	slow			5s	
26-29	HDS2971	06:57:51	+07:31:42	0	10s, 5s	def; trailed
30	COMP			↑		
31-33	AGK2014783	07:17:42	+11:59:57	0	10s	..
34	COMP			↑		
35	N315	10:02:44	-07:28:30	0	3m	
36	COMP			↑		
37	N4486B	12:28:40	+12:15:59	0	5m	
38	COMP			↑		
39	321.079309	12:45:28.16	+30:37:30.5	3	5m	
40	COMP			↑		
41	321.079639	12:27:19.34	+30:28:38.6	3	5m	
42	COMP			↑		
43	321.081891	12:55:53.29	+30:42:53.1	3	4m	
44	COMP			↑		
45	321.082630	12:55:49.09	+30:45:14.5	3	7m	a lot of clouds on horizons; seeing ~1.8" to W.
46	COMP			↑		
47	321.082398	12:28:01.52	+30:44:17.9	3	5m	
48	COMP			↑		
49	321.086762	12:26:31.94	+30:57:21.4	3	5m	
50	COMP			↑		
51	321.088144	12:27:20.19	+31:01:55.6	3	6m	
52	COMP			↑		
53, 51	321.087985	12:27:52.04	+31:01:42.7	3	5m	10m x 2
54, 58	COMP			↑		
55	321.088568	12:29:55.6	+31:04:11.2	3	5m	clouds
56	COMP			↑		
59	321.089522	12:26:52.1	+31:05:37.5	3	4m	

60 inch Telescope Log		Spectrograph: <u>F161</u>				Page: <u>3666</u>
Observer: <u>P. Berlind</u>		Grating: <u>500</u>				
PI: <u>Geller</u>		Date: <u>4/28/95</u>				
Number	Object	R. A.	Dec.	L/R	Exp	Comments
60	COMP			↑		There is a
61	321.092721	12:26:43.54	+31:15:46.9	3	4m	Plate Flaw ~10" SE of gal not on tu!
62	COMP			↑		
63	321.092888	12:33:52.02	+31:18:34.8	3	5m	HA
64	COMP			↑		
65	321.093619	12:26:52.69	+31:18:24.6	3	5m	
66	COMP			↑		
67	321.094378	12:53:05.71	+31:22:23.4	3	5m	star on slit to E
68	COMP			↑		
69	321.095892	12:29:41.1	+31:26:35.7	3	4m	
70	COMP			↑		seems 2"
71	321.095955	12:41:25.09	+31:28:51.7	3	4m	
72	COMP			↑		
73	321.097017	12:29:48.17	+31:29:53	3	3m	
74	COMP			↑		
75	321.098618	12:29:47.74	+31:35:13.3	3	4m	
76	COMP			↑		
77	321.098779	12:28:40.95	+31:35:52.3	3	3m	
78	COMP			↑		
79	321.103335	12:38:45.81	+31:52:47.3	3	5m	HA
80	COMP			↑		
81	321.104905	12:35:37.61	+31:51:52.8	3	5m	HA
82	COMP			↑		
83	321.105756	12:44:27.89	+31:58:27.9	3	5m	
84	COMP			↑		
85	321.107662	12:37:01.48	+32:06:27	3	5m	
86	COMP			↑		
87	321.108106	12:32:56.49	+32:08:25.1	3	10m	HA
88	COMP			↑		
89	321.109553	12:30:44.95	+32:16:02	3	5m	

Number	Object	R.A.	Dec.	L/R	Exp	Comments
90	COMP			↑		
91	321.1091560	12:29:13.72	+32:11:34.1	3	5m	
92	COMP			↑		
93/95	321.109934	12:45:49.25	+32:14:58.7	3	5m	x2 co-add
94	COMP			↑		
96	321.109934	12:45:49.25	+32:14:58.7	3	10m	
97	COMP			↑		
98	321.018911	12:40:01.17	+27:05:21.9	3	5m	star possible haze
99	COMP			↑		
100	321.018911b	"	"	3	90s	star CAP ONLY SEE STAR!
101	RXJ07109.0628A	12:09:55.5	+06:28:05.9	9	10m	Nice Spect + 1!
102	COMP			↑		
103	13267 p0058	13:26:40	+0:59:11	5	10m	32273 H2
104	COMP			↑		
105/107	NS196	13:28:42	-01:21:29	5	3m	5m x2 use #107
106	NS197	13:28:50	-01:26:10	5	4m	
108	COMP			↑		lingering clouds
109	NS192	13:28:15	-01:31:16	5	4m	H2
110	COMP			↑		
111	U08986	14:01:42	+01:20:40	1	7m	CFA Survey
112	COMP			↑		
113	14057 p0602	14:05:42	+06:02:40	1	4m	
114	COMP			↑		
115	14126 p0510	14:12:36	+05:10:40	1	7m	stopped by clouds
116	COMP	"	"	↑		could use more! SATURATE D!
117	14146 p0349	14:14:36	+03:49:40	1	5m	RT shell crash
118	COMP			↑		
119	I1068	14:51:40	+03:16:40	1	4m	
120	14514 p0313	14:51:24	+03:13:40	1	5m	
121	NS776	14:52:40	+03:10:40	1	3m	

60 inch Telescope Log		Spectrograph: <u>FAST</u>					
Observer: <u>P. Berlind</u>		Grating: <u>300L</u>		Page: <u>3/19</u>			
PI: <u>Huchra/Greiner</u>		Date: <u>4/28/95</u>					
Number	Object	R.A.	Dec.	L/R	Exp	Comments	
122	COMP			↑		still cloudy	
123	15101p0207	15:10:06	+02:07:40	1	7m	H _α	
124	COMP			↑			
125	105887	15:12:17	+01:10:00	1	3m	U9779	
126	COMP			↑			
127	15102p0138	15:10:12	+01:38:00	1	5m		
128	COMP			↑			
129	15142p0126	15:14:12	+01:26:00	1	7m	H _α superposed ??	
130	15149p0111	15:14:51	+01:11:00	1	5m		
131	COMP			↑			
132	325.01865	14:23:38.	+27:20:07	3	5m	1SR	
133	COMP			↑			
134	325.018610	14:28:34.6	+27:20:01	3	5m	H _α	
135	COMP			↑			
136	325.01916	14:33:52	+27:20:42	3	4m		
137	COMP			↑			
138	325.019950	14:13:05.8	+27:22:12	3	5m		
139	COMP			↑			
140	325.020499	14:34:38.28	+27:25:38.5	3	7m		
141	COMP			↑			
142	325.020507	14:34:16.13	+27:25:42.9	3	7m		
143	COMP			↑			
144	15394p0102	15:39:24	+08:02:00	1	10m	H _α	
145	COMP			↑			
146	15437p0146	15:43:42	+04:46:00	1	7m		
147	COMP			↑			
148	155997	15:45:00	+06:25:00	1	5m		
149	COMP			↑			
150	15494p023x	15:49:54	+02:36:00	1	7m		
151	COMP			↑			

60 inch Telescope Log		Spectrograph: <u>FAS</u>		Page: <u>3/69</u>		
Observer: <u>P. Berland</u>		Grating: <u>3002</u>		Date: <u>4/28/95</u>		
PI: <u>Huchra</u>						
Number	Object	R.A.	Dec.	L/R	Exp	Comments
152	16178p0120	16:17:56	+01:20:00	1	10m	H _α
153	COMP			↑		
154	16182p0038S	16:18:12	+01:38:00	1	7m	South Camp H _α
155	16182p0038N	16:18:12	+01:38:00	1	10m	N clouds H _α
156	COMP			↑		
157	16394p0148	16:39:24	+01:48:00	1	7m	H _α star on slit
158	COMP			↑		~2" E of gal
159	16406p0211	16:40:36	+02:11:00	1	4m	seeing a little rougher
160	COMP			↑		
161	16567p0121	16:56:42	+01:21:00	1	15m	L513 H _α
162	COMP			↑		↑ other objects on slit
163	16583p0209	16:58:18	+02:09:00	1	4m	
164	COMP			↑		
165	16377p5138	16:37:42	+51:38:00	1	4m	
166	COMP			↑		
167	16128p5232	16:12:48	+52:32:00	1	4m	H _α
168	COMP			↑		
169	16138p5600	16:13:48	+56:00:00	1	5m	
170	COMP			↑		
171	16145p5147	16:14:30	+51:47:00	1	5m	H _α
172	COMP			↑		
173	16165p5220	16:16:30	+52:20:00	1	5m	H _α
174	COMP			↑		
175	U10374	16:22:18	+52:06:00	1	4m	bright sky
176	COMP			↑		
177-180	SADDERAS	17:01:06	+21:55:05	0	10s	
181	COMP			↑		clouds all over
182-191	BIAS			0	0s	↓ down
192-201	FLAT			0	6s	
202-205	DARK					

60 inch Telescope Log		Spectrograph: <u>FAST</u>				Page: <u>3670</u>	
Observer: <u>P. Berline</u>		Grating: <u>300</u>		Date: <u>4/29/95</u>			
PI: <u>Huchra</u>							
Number	Object	R.A.	Dec.	L/R	Exp	Comments	
1-10	B7AS			0	0s		
11-20	FLAT			0	6s		
21-25	ewsky	stun		0	2s		
26	COMP			↑	10s		
27-30	AGKZP14783	07:17:41	+14:59:39	0	15, 30s	lots of clouds	
31	COMP			↑			
32	Ferye 34	10:36:41.1	+43:21:50	0	90s		
33	COMP			↑			
34, 35	NM151	12:08:01	+31:41:02	6	45, 3m	clouds	
36	COMP			↑			
37	N3115	10:02:44.4	-07:28:30	0	3m	nucleus	
38	COMP			↑			
39	N3379	10:45:11.4	+12:50:48	0	3m		
40	COMP			↑			
41	N4486B	12:28:00	+12:45:59	0	5m		
42	COMP			↑			
43	08252p0508	08:25:12	+05:08:10	1	5m	clouded out down here	
44	COMP			↑			
45	11161p0746	11:16:06	+07:46:10	1	5m	HA	
46	N5624	11:16:12	+07:48:10	1	4m	HA - clouds	
47	COMP			↑			
48	11168 p0328	11:16:48	+03:28:10	1	5m		
49	COMP			↑			
50	11177 p0436	11:17:42	+04:36:10	1	4m		
51	11179 p0424	11:17:54	+04:24:10	1	4m		
52	COMP			↑			
53	11181 p0754	11:18:06	+07:54:10	1	6m	stopped by clouds - fresh	
54	COMP			↑			
55	11187 p0357	11:18:42	+03:57:10	1	7m		
56	11188 p0343	11:18:48	+03:43:10	1	10m	HA clouds	

74 total object files
 extracted
 for this night
 5/4/95 et

60 inch Telescope Log		Spectrograph: <u>FAST</u>				Page: <u>3671</u>	
Observer: <u>P. Berlind</u>		Grating: <u>300</u>					
PI: <u>Geller/Kirshner/Huchra</u>		Date: <u>4/29/95</u>					
Number	Object	R.A.	Dec.	L/R	Exp	Comments	
57	COMP			↑		delay of cloud 1/2 hr	
58	316.012132	10:23:3209	+26:57:35	3	7m		
59	COMP			↑		rough seeing + clouds	
60	316.01269	10:33:2532	+26:57:203	3	7m	star, no sign of fuzz	
61	COMP			↑			
62	316.012627	10:33:1667	+26:57:451	3	10m		
63	COMP			↑			
64	316.014557	10:27:4425	+27:08:321	3	10m	clouds receding to south!	
65	COMP			↑			
66	316.013143	10:30:08	+27:02:11	3	4m		
67	COMP			↑		f.u. noise patterns	
68	316.015975	10:21:0061	+27:14:154	3	5m		
69	COMP			↑			
70	316.016657	10:45:3045	+27:11:571	3	5m		
71	COMP			↑			
72	316.017621S	10:45:21	+27:17:20	3	4m	South Camp	
73	316.017621N	10:45:20	+27:17:32	3	5m		
74	COMP			↑			
75,77	SN1994Y	13:53:305	+40:42:32	2	30m	x 2	
76,78	COMP			↑			
79	H214	13:21:19.1	+36:23:38	2	2m	thin clouds around	
80	COMP			↑			
81	15098m 0248	15:09:4676	-02:48:4432	1	5m	for Dec. Mkr	
82	COMP			↑			
83	14126pos50	14:12:36	+05:10:00	1	7m	also observed 4/28/95	
84	14127pos56	14:12:42	+05:06:00	1	10m	7/11/95 saved as unnamed1	
85	COMP			↑			
86	32501869	14:10:2999	+27:07:203	3	5m	ISR star on slit E	
87	COMP			↑			
88	325.001877	14:36:5064	+27:40:02	3	7m		

Number	Object	R.A.	Dec.	L/R	Exp	Comments
89	COMP			↑		
90	325.027937	14:31:28.6	+27:51:00.7	3	5m	H _α
91	COMP			↑		thin cloud all over
92	325.028078	14:28:12	+27:52:18.8	3	5m	
93	COMP			↑		
94	325.052243	14:56:29	+28:03:58	3	7m	star on slit to E of gal
95	COMP			↑		
96	325.033314	14:31:37.2	+28:07:51	3	6m	
97	COMP			↑		
98	12272p0858	12:27:14.2	+08:58:17	3	10m	ROSAT source for Piero
99	COMP			↑		
100	325.033559	14:35:55.6	+28:07:51	3	10m	
101	COMP			↑		
102	325.033585	14:35:50	+28:04:46.7	3	5m	
103	COMP			↑		
104	325.034307	14:27:27.1	+28:11:05.1	3	10m	
105	COMP			↑		
106	14474p0045	14:47:24	+00:45:00	1	10m	increasing cloud
107	COMP			↑		
108, 110	14563p0213	14:56:18	+02:13:20	1	5m	x 2
109	COMP			↑		seemingly 2-3"
111	15042p0411	15:04:12	+01:11:00	1	5m	
112	COMP			↑		
113	15044p0022	15:04:24	+01:22:00	1	7m	
114	COMP			↑		
115	15065p0001	15:06:30	+00:01:00	1	7m	
116	COMP			↑		
117	NG157	16:24:12	+55:28:00	1	7m	
118	COMP			↑		
119	NG136	16:19:48	+56:05:00	1	10m	H _α

35-39

0810 = sum of 108 + 110

60 inch Telescope Log
 Observer: P. Berlin
 PI: Huchra
 Spectrograph: FAS
 Grating: 300
 Date: 4/29/95
 Page: 3673

Number	Object	R. A.	Dec.	L/R	Exp	Comments
120	COMP			↑		
121	16234p5601	16:23:24	+56:01:00	1	4m	
122	COMP			↑		
123	16215p5642	16:21:30	+56:42:40	1	10m	H _α
124	COMP			↑		
125	16263p5447	16:26:18	+54:47:00	1	3m	H _α
126	COMP			↑		
127	16396p5036	16:39:36	+50:36:00	1	4m	
128	COMP			↑		
129	U10511	16:40:00	+51:18:00	1	4m	
130	COMP			↑		
131	16416p5410	16:41:36	+54:10:00	1	4m	
132	COMP			↑		
133	RXJ174924.7	17:49:24.7	+42:45:58.7	9	4m	star
134	COMP			↑		
135	16465p5650	16:46:30	+56:50:00	1	6m	star on slit to W; H _α
136	COMP			↑		
137	U10583	16:49:06	+53:35:00	1	5m	
138	COMP			↑		
139	U10593	16:51:18	+55:59:00	1	4m	H _α
140	COMP			↑		
141	RX17571731B	17:57:25	+77:31:09	9	8m	B - ● - A in redshift is within C A + B
142	COMP			↓		
143	RX17571731A	"	"	9	2m	A star
144	COMP			↑		
144	RX1842p5751	18:42:45.6	+57:51:46	9	10s	SAO 31123
145	RX1842p5751B	"	"	9	4m	star
146	COMP			↑		
147	RX1853p1901	18:53:33	+19:01:34	9	15s	star
148	COMP			↑		the end

149-158 DEFS
 159-168 FLAT

0 05
 0 65

141 - if B is W of A
 names are correct.

_____ A
 _____ B

60 inch Telescope Log
 Observer: J. Peters
 PI: J. Huckwa
 Spectrograph: FuST
 Grating: 300
 Date: 4/30/95
 Page: 3674

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-15	Bias					
16-30	FLAT				10 ^s	
31	Comp					
32	EUESKY	STow	32:00	0	2 ^s	MIRAR COVERS
33	EUESKY	STow	32:00	0	6	Didn't go ALL THE
34	EUESKY	STow	32:00	0	15 ^s	Way Up.
35	Comp			↓	15 ^s	
36	HD 52971	04 57 51	27 13 42	0	2 ^s	
37	Comp			↓	15 ^s	
38	AGK2P 14783	07 17 47	14 59 27	0	10 ^s	
39	Comp			↓	15 ^s	
40	N 3379	10 45 11	12 50 48	0	3 ^m	
41	Comp			↓	15 ^s	
42	SN 1995D	09 40 54	05 02 26	2 ["]	20 ^m	
43	SN 1995D	↓	↓	2	20 ^m	
44	Comp			↓	15 ^s	
45	SN 1994AE	10 44 23	17 32 18	2	30 ^m	
46	SN 1994AE	↓	↓	2	30 ^m	NOT MUCH HERE
47	SN 1994AE	↓	↓	2	30 ^m	
48	Comp			↓	15 ^s	
49	316.017409	10 22 38	27 21 20	3	5 ^m	
50	Comp			↓	15 ^s	
51	316.017818	10 36 57	27 23 03	3	5 ^m	
52	Comp			↓	15 ^s	
53	316.018672	10 25 28	27 24 35	3	5 ^m	
54	Comp			↓	15 ^s	
55	316.020325	10 30 18	27 32 21	3	5 ^m	
56	Comp			↓	15 ^s	
57	316.020485	10 27 37	27 34 38	3	5 ^m	
58	Comp			↓	15	

Can see spectrum

Wavelength solutions for Comps 0031 through 0041 were poorer than usual; no more than 144 lines and higher residuals - approx -09 -11

60 inch Telescope Log			Spectrograph: <u>East</u>			Comments
Observer: <u>J. Peters</u>			Grating: <u>300</u>			
PI: <u>J. Huckaru</u>			Date: <u>4/30/95</u>			
Number	Object	R.A.	Dec.	L/R	Exp	
59	316.020485	10 27 37	27 34 28	3	5M	Thin clouds
60	Comp			↓	15S	
61	316.030629	10 35 55	27 35 05	3	5M	
62	Comp			↓	15S	
63	316.021377	10 28 58	27 38 55	3	10M	
64	Comp			↓	15S	
65	316.021851	10 22 15	27 40 21	3	6M	
66	Comp			↓	15S	
67	316.021888	10 22 20	27 40 35	3	5M	
68	Comp			↓	15S	
69	316.022082	10 42 47	27 39 40	3	5M	
70	Comp			↓	15S	
71	316.024371	10 35 48	27 51 19	3	5M	
72	Comp			↓	15S	
73	316.024682	10 43 36	27 49 25	3	15M	
74	Comp			↓	15S	
75	325.034420	14 32 05	28 11 15	3	7M	
76	Comp			↓	15S	
77	325.034900	14 11 30	28 10 18	3	6M	
78	Comp			↓	15S	
79	325.034610	14 31 21	28 12 01	3	5M	
80	Comp			↓	15S	
81	325.034982	14 33 54	28 12 37	3	5M	
82	Comp			↓	15S	
83	Fe19c98	14 36 04	27 42 28	0	2M	
84	Comp			↓	15S	
85	N5548	14 15 43	25 22 01	6	5M	
86	Comp			↓	15S	
87	325.035045	14 10 36	28 10 16	3	6M	
88	Comp			↓	15S	

