

New Dome In Use

60 inch Telescope Log

Spectrograph: FAST

Observer: J. Peters

Grating: 300

Page: 3300

AI: J. Kachava

Date: 11/27/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1	Comp	TEST				
2	Comp			↓	15 ^s	
3	HD 12623	02 02 18	62 56 03	0	2 ^s	
4	Comp			↓	15 ^s	
5	BDP 26595	03 37 08	26 48 01	0	5 ^s	
6	Comp			↓	15 ^s	
7	M31	00 40 00	40 59 42	0	1 ^m	
8	M31 SKY	20 min	North	0	1 ^m	
9	Comp			↓	15 ^s	
10	M32	00 39 58	40 35 30	0	1 ^m	
11	Comp			↓	15 ^s	
12	158N213	00 40 30	40 50 55	0	10 ^m	
13	Comp			↓	15 ^s	
14	163N217 ^{235N230}	00 40 33 ^{41 33}	41 11 20 ^{05 12}	0	10 ^m	
15	Comp			↓	15 ^s	
16	163N217	00 40 33	41 11 20	0	10 ^m	
17	Comp			↓	15 ^s	
18	0335N5	03 35 58	09 48 10	99	10 ^m	Obj #5 ROSAT ON CHART
19	Comp	↓	↓	↓	15 ^s	
20	0335N6	↓	↓	99	10 ^m	
21	Comp	↓	↓	↓	15 ^s	
22	0335N15	↓	↓	99	15 ^m	
23	Comp	↓	↓	↓	15 ^s	
24	0335N17	↓	↓	99	10 ^m	
25	Comp	↓	↓	↓	15 ^s	
26	0335N18	↓	↓	99	15 ^m	
27	Comp	↓	↓	↓	15 ^s	
28	0335N16	↓	↓	99	15 ^m	
29	Comp	↓	↓	↓	15 ^s	
30	EXOTIC P2447A	03 47 21	24 47 13	99	10 ^s	Exp done on spot where COMPACT EXTRACT obj should be. I don't see this obj ON TV. Seeing ~1-2" sky clear

60 inch Telescope Log

Observer: J. Peters

PI: J. Huchra

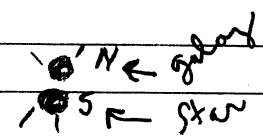
Spectrograph: Fast

Grating: 300

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Date: 11/27/94

Number	Object	R A.	Dec.	L/R	Exp	Comments
31	Comp			↓	15 ^s	
32	Rx0344.4P2447C	03 44 21	24 47 13	99	5 ^s	
33	Comp	↓	↓	↓	15 ^s	
34	Rx0344.4P2447D	↓	↓	99	15 ^s	
35	Comp	↓	↓	↓	15 ^s	
36	Rx0344.4P2447E	↓	↓	99	2 ^m	
37	Comp			↓	15 ^s	
38	Rx0405.3P2009A	04 05 18	20 09 06	99	10 ^s	
39	Rx0405.3P2009B	↓	↓	99	10 ^s	
40	Rx0405.3P2009C	↓	↓	99	2 ^m	
41	Rx0405.3P2009D	↓	↓	99	5 ^s	
42	Rx0405.3P2009E	↓	↓	99	2 ^m	
43	Comp			↓	15 ^s	
44	HZ15	04 37 56	08 35 00	0	5 ^m	
45	Comp			↓	15 ^s	
46	AKN 120	05 13 37	-00 12 15	6	5 ^m	SKY Clear seeing = 1-2"
47	Comp			↓	15 ^s	No clouds,
48	HD 52971	06 57 51	27 13 42	0	2 ^s	
49	Comp			↓	15 ^s	
50	AGK 2 P 14783	07 17 47	14 59 37	0	10 ^s	
51	Comp			↓	15 ^s	
52	08165 P 5417	08 16 30	54 17 00	1	10 ^m	
53	Comp			↓	15 ^s	
54	08167 P 5416	08 16 54	54 16 00	1	8 ^m	
55	Comp			↓	15 ^s	
56	08171 P 5520	08 17 06	55 20 00	1	5 ^m	
57	Comp			↓	15 ^s	
58	08188 P 5628 N	08 18 48	56 28 00	1	5 ^m	
59	08188 P 5628 S	↓	↓	1	5 ^m	
60	Comp			↓	15 ^s	



60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Page: 3302Date: 11/27/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
61	08202P5330	08 20 12	53 30 00	1	5 ^m	
62	Comp			↓	15 ^s	
63	08237P5504	08 23 42	55 04 00	1	5 ^m	
64	Comp			↓	15 ^s	
65	08240P5518	08 24 00	55 18 00	1	5 ^m	
66	Comp			↓	15 ^s	
67	08256P5510	08 25 36	55 10 00	1	5 ^m	
68	Comp			↓	15 ^s	
69	08260P5550	08 26 00	55 50 00	1	8 ^m	
70	Comp			↓	15 ^s	
71	SN1993J	09 51 25	69 15 13	2	30 ^m	
72	Comp	↓	↓	↓	15 ^s	
73	SN1993J	↓	↓	2	30 ^m	
74	Comp	↓	↓	↓	15 ^s	
75	SN1993J	↓	↓	2 ^m	30 ^m	
76	Comp			↓	15 ^s	
77	EG71	10 36 41	43 21 50	0	30 ^s	↑ STD STAR
78	Comp			↓	15 ^s	↓
79	SN1994AE	10 44 23	17 32 18	2	11 ^m	
80	Comp			↓	15 ^s	
81	AGK2P43928	09 49 20	43 42 07	0	5 ^s	
82	Comp			↓	15 ^s	
83	09105P0215	09 10 30	02 15 00	1	7 ^m	
84	Comp			↓	15 ^s	
85	09107P0204	09 10 41	02 04 00	1	5 ^m	
86	Comp			↓	15 ^s	
87	09478P0148	09 47 48	01 48 00	1	6 ^m	
88	Comp			↓	15 ^s	
89	09502P0010	09 50 12	00 10 00	1	6 ^m	
90	Comp			↓	15 ^s	

60 inch Telescope Log

Observer: P. BerlindPI: Hucha/GellerSpectrograph: FASTGrating: 300L; 3" slitDate: 11/28/94Page: 3304

Number	Object	R.A.	Dec.	L/R	Exp	Comments
10	BIAS				0s	Focus = 950
11-20	FLAT				10s	clear sky
21	COMP				-	
22-24	HD 4744	00:47:05.3	+30:10:21	0	15s	std template β ?
25	COMP			\uparrow	15s	
26-28	HD 1918	00:21:00	+44:48:00	0	15s	G 9 III
29	COMP			\uparrow		
30	22 Sm 280	00:41:45.1	+44:05:12	0	5m	M 31 Glob
31	COMP			\uparrow		seems 2-3" \times
32	158 m 213	00:40:02	+40:50:55	0	7m	
33	COMP			\uparrow		
34	464.014722	23:52:38.19	+10:16:17	3	5m	ISR Survey
35	COMP			\uparrow		slit E-W (180°)
36	SN 1937p 2950	19:37:26.1	+29:50:00	-1	5m	3" south of star (~ 12 mag star) \uparrow 1/2" field
37	SN 1937p 2950 B	19:37:26.5	+29:50:17	-1	5m	3" north of star; clumpy-fuzz
38	SN 1937p 2950 C	19:37:25.9	+29:50:01	-1	5m	1" south of star - true offset
39	COMP			\uparrow		all ~ 1.5 arcmin N of SAO star
40	464.015505	00:01:23	+10:19:30.7	3	5m	1950 coord s!
41	COMP			\uparrow		
42	464.023399	23:52:53.8	-10:44:26.9	3	5m	
43	COMP			\uparrow		
44	464.030995	23:56:54.57	+11:23:53.1	3	5m	
45	COMP			\uparrow		
46	464.032655 B	23:59:06.94	+11:12:25.4	3	3m	star \circ -B
47	464.032655 A	"	"	3	3m	star \circ -A
48	464.036263	23:54:15.86	+11:22:18.5	3	5m	
49	COMP			\uparrow		
50	464.023420	00:04:46.12	+10:44:55.6	3	5m	
51	COMP			\uparrow		
52	464.027029	00:12:24.83	+10:54:51.2	3	5m	

60 inch Telescope Log

Observer: P. BerliandPI: GellerSpectrograph: FASTGrating: 3002Date: 11/28/94Page: 3305

Number	Object	R. A.	Dec.	L/R	Exp	Comments
53	COMP			↑		
54	464.033161	00:08:03.01	+11:13:12.2	3	Sm	
55	COMP			↑		
56	464.035803	00:13:21.06	+11:20:30.9	3	Sm	H _α
57	COMP			↑		
58	464.043527	00:16:23.68	+11:42:24.4	3	Sm	H _α
59	COMP			↑		
60	464.047755	23:53:20.15	+11:54:10.3	3	Sm	H _α
61	COMP			↑		
62	464.051827	00:05:41.48	+12:14:41.4	3	Sm	
63	COMP			↑		
64	464.064506	00:12:49.51	+12:40:24.2	3	Sm	H _α
65	COMP			↑		
66	464.066423	00:16:43.12	+12:45:23.7	3	Sm	
67	COMP			↑		
68	00341p3034	00:34:06	+30:34:10	21	10m	Rich Groups H _α
69	COMP			↑		
70	00362p2915	00:36:12	+29:15:10	21	Sm	bright in blue
71	COMP			↑		1/2 17,000k, Strong H _α etc
72	00294p3051	00:29:24	+30:51:10	21	Sm	H _α
73	COMP			↑		
74	00408p2947	00:40:48	+29:17:10	21	Sm	H _α
75	COMP			↑		
76	00442p3000	00:44:12	+30:40:10	21	Sm	H _α
77	COMP			↑		
78	01038p2436	01:03:48	+24:36:10	21	4m	
79	COMP			↑		
80	01057p2128	01:05:42	+21:28:10	21	Sm	H _α
81	01062p2128A	01:06:12	+21:28:10	21	4m	
82	01062p2128B	01:06:12	+21:28:10	21	Sm	see chart! id's

60 inch Telescope Log

Observer: P. BerlindPI: Geller & HuchraSpectrograph: FASTGrating: 302Date: 11/28/94Page: 3306

Number	Object	R. A.	Dec.	L/R	Exp	Comments
83	comp			↑		
84	01074p2241	01:07:24	+22:41:W	21	5m	H _α
85	comp			↑		
86	01141p2252	01:14:06	+22:52:W	21	5m	H _α
87	comp			↑		
88	01150p1941	01:15:W	+19:41:W	21	5m	
89	comp			↑		
90	01166p2031	01:16:36	+20:31:W	21	5m	
91	comp			↑		
92	01204p2155	01:20:24	+21:55:W	21	5m	H _α
93	comp			↑		
94	01241p2121N	01:24:06	+21:21:W	21	5m	North comp $v \approx 14,600 \text{ km/s}$
95	01241p2121S	01:24:06	+21:21:W	21	7m	South H _α $v \approx 14,300 \text{ km/s}$
96	comp			↑		double; see chart
97	01277p2050	01:27:42	+20:50:W	21	5m	a very pretty galaxy
98	comp			↑		$v \approx 10,000 \text{ km/sec}$
99	0133Sp19S1N	01:33:30	+19:51:W	21	5m	$v \approx 10,900$
100	0133Sp19S1S	01:33:30	+19:51:W	21	5m	$v \approx 10800$
101	comp			↑		
102	01441p2229	01:44:06	+22:29:W	21	5m	
103	comp			↑		
104	01350p2717	01:35:W	+27:17:W	21	5m	
105	comp			↑		
106	01388p2805	01:38:48	+28:05:W	21	10m	LSB H _α
107	comp			↑		
108	A262m29	01:43:49.2	+38:39:11	25	7m	2 MASS / KBAND LF
109	comp			↑		
110	A262m10	01:44:45.1	+38:41:54	25	10m	
111	comp			↑		
112	A262m109	01:47:55.8	+38:38:03	25	10m	

60 inch Telescope Log

Observer: P. Berlind
 PI: Geller & Huchra

Spectrograph: FAST
 Grating: 302
 Date: 11/28/94

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
113	COMP			↑		nearby star marked on chart
114	A262m112	01:48:05.7	138:41:23	2S	10m	See chart for ID
115	COMP			↑		→ V ₃ 45,000 km/sec!
116	A262m125	01:48:43.5	+38:49:09	2S	7m	
117	COMP			↑		
118	A262m132	01:49:09.5	+38:36:58	2S	10m	V = 43K
119	COMP			↑		
120	A26m147	01:49:41	+38:47:04	2S	2m	star - wrong ID on chart
121	A262m147	01:49:41	+38:47:04	2S	10m	galaxy - correct object (?)
122	COMP			↑		
123	A262m68	01:46:40.4	+38:32:25	2S	12m	companion galaxy 6" to W is also on slit
124	COMP			↑		
125	A262m74	01:46:48.9	+38:51:50	2S	10m	
126	COMP			↑		what a gorgeous night out
127	03136m025	03:13:36	-02:15:W	21	5m	Rich Groups ^{there!} clear.
128	COMP			↑		
129	U02645	03:14:54	-0:15:W	21	5m	H _α
130	COMP			↑		
131	03151m0154	03:15:06	-01:54:W	21	4m	⇒ coords in header might be off; this log is correct
132	U02650	03:15:06	-01:52:W	21	4m	
133	COMP			↑		
134	03153m0044	03:15:18	-00:44:W	21	5m	strong H _α
135	03155m0043	03:15:30	-00:43:W	21	5m	H _α
136	COMP			↑		
137	03156m0130	03:15:36	-01:30:W	21	10m	LSB H _α
138	COMP			↑		
139	03158m01W	03:15:48	-01:W:W	21	5m	H _α
140	COMP			↑		
141	312.005019	08:36:50.08	+26:32:43.2	3	5m	ISR H _α
142	COMP			↑		

123 - w/pt on slit
 A 262m68E
 w/pt west
 A 262m68W

60 inch Telescope Log

Observer: P. BelinckPI: GellerSpectrograph: FASTGrating: 302Date: 11/28/94Page: 3308

Number	Object	R. A.	Dec.	L/R	Exp	Comments
143	312.004065	08:36:02.78	+26:30:07.2	3	5m	Moon is up
144	COMP			↑		seeing 1-2"
145	312.005034	08:41:23.08	+26:33:53.1	3	5m	
146	COMP			↑		
147	312.005924	08:37:51.67	+26:35:55.4	3	5m	
148	COMP			↑		
149	312.006079	08:36:21.79	+26:37:51.5	3	5m	
150	COMP			↑		
151	312.007842a	08:41:49.73	+26:42:57.8	3	5m	
152	312.007842b	08:41:49.73	+26:42:57.8	3	5m	SE comp but I got the right object
153	COMP			↑		
154	312.014779	08:39:13.96	+27:04:31.5	3	7m	
155	COMP			↑		
156	312.015490	08:51:16.11	+27:07:15.5	3	5m	Hk
157	312.016431	08:54:21.36	+27:10:00.3	3	7m	
158	COMP			↑		
159	312.003600	08:54:59.07	+26:29:23	3	7m	
160	COMP			↑		
161	312.018660	08:56:51.44	+27:16:10.4	3	5m	
162	COMP			↑		
163	312.018771	08:36:04.69	+27:15:34.6	3	5m	
164	COMP			↑		
165	312.020163	08:36:47.16	+27:17:57.1	3	10m	Hk
166	COMP			↑		
167	312.019531	08:52:41.64	+27:19:36.8	3	5m	Star on slit to W
168	COMP			↑		
169	312.020074	08:51:09.09	+27:21:18.9	3	7m	
170	COMP			↑		
171	312.024118	08:52:56.05	+27:33:40.1	3	7m	Hk
172	COMP			↑		

19:39:24 +29:56:57

60 inch Telescope Log

 Observer: P. Berlind
 PI: Geller & Kirshner
Spectrograph: FASTGrating: 3002Page: 3309Date: 11/28/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
173	312.025177	08:53:37.05	+27:36:48.3	3	7m	
174	312.025237	08:53:39.5	+27:36:58	3	7m	
175	COMP			↑		
176	312.025647	08:41:28.3	+27:38:01.1	3	10m	wind picking up
177	COMP			↑		
178	COMP			—		change grating tilt to 55c
179	SN1994ae	10:44:23	+17:32:18	2	15m	X-tra blue
180	COMP			↑	15s	as per Pete Challis request
181	F34	10:36:41.2	+43:21:50	2	2m	
182	COMP			↑		
183	312.028538	08:57:35.46	+27:46:01.6	3	5m	grating tilted back to 590
184	COMP			↑		(standard setup)
185	312.029749	08:51:10.62	+27:51:02.7	3	7m	
186	COMP			↑		
187	312.031050	08:41:13.94	+27:54:26.6	3	7m	
188	COMP			↑		
189	312.033096	08:40:20.81	+28:00:43	3	7m	
190	COMP			↑		
191	312.035856	08:38:21.67	+28:08:53.3	3	4m	
192	COMP			↑		
193	312.036048	08:46:00.04	+28:10:45.1	3	7m	Hk
194	COMP			↑		be done by 6
195	312.044682	08:57:28.65	+28:36:58.3	3	4m	twilight needs more
196	COMP			↑		
197-201	HID 52971	06:57:51.14	+27:13:12	0	5s	
202	COMP			↑		
203-212	FLAT				10s	standard setup; tilt to 590
213-222	BIAS				0s	
223-234	FLATB				10s	tilt at 550 for SNquips
235-240	DARK				15m	done crew on its way up the mountain; may be lights on some sun (and) night!

only 536 images
(2 DARKS @ end)

60 inch Telescope Log

Observer: P. Berlincl

PI: McClintock/Geller/Huchen

Spectrograph: FAST

Grating: 3:02

Date: 11/29/94

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-5	DARK				15m	
6-15	BIAS				0s	
16-25	FLAT				10s	
26-30	HD198858	20:49:50.71	+47:31:07	0	5/10s	clear sky tilt=590!
31	COMP			↑	15s	
32,34	N7331	22:34:46.9	+31:09:43	0	5m	
33,35	COMP			↑		
36	JD Blue	00:17:13.9	+21:40:20	13	15m	for Jeff McClintock
37	COMP					new script test
38	FLAT					1200 emag; 2" slit
39	Hilt 102	01:05:53.8	+62:31:32		2m	
40	COMP					SS0019p21
41	JD Red				15m	
42	COMP					2min should be 12s SATURATED
43	Hilt 102				2m	check file 47, comp. in file
44-5	BIAS				0s	
46	COMP			↑	12s	for Jeff
48	PKS 215 Sm 304	21:55:58.23	-30:27:53.4	23	2m	5" slit 7" x 2" Na at 6539
49,51	S21.035312	23:05:32.84	+11:20:19.1	3	10m	15R 300L, 3" slit
50,52	COMP			↑		2 x 2 Na at 6539
53,55	RXJ0001705A	00:01:54.3	+12:03:24.5	99	10m	
54,56	COMP			↑		
57	464.066608	23:53:12.86	+12:47:01.1	3	7m	J1950
58	COMP			↑		
59	464.067702	23:57:22.13	+13:07:10	3	4m	
60	COMP			↑		
61	464.069313	00:11:08.43	+12:55:00.3	3	7m	
62	COMP			↑		
63	464.071247	23:55:53.62	+13:01:03	3	5m	
64	COMP			↑		

6539

6:25

60 inch Telescope Log

Observer: P. BerlindPI: Geller & HuchraSpectrograph: FASTGrating: 302Page: 3311Date: 11/19/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
65	464.071459	23:52:21.3	+13:01:13.1	3	5m	
66	COMP			↑		
67	464.074159	23:53:06.58	+13:09:29.6	3	5m	
68	COMP			↑		
69	464.074988	23:52:06.34	+13:11:43.8	3	5m	
70	COMP			↑		
71	464.071047	00:17:51.92	+12:51:17.2	3	5m	it's a star
72	COMP			↑		
73	465.032757	00:33:52.23	+12:10:09.8	3	4m	seemg pretty rough
74	COMP			↑		2-3"+++
75	465.040715	00:19:06.52	+12:53:41.9	3	4m	
76	COMP			↑		
77	A262m214	01:51:57.1	+36:04:38	25	10m	
78	COMP			↑		
79	A262m8	01:48:01.3	+38:15:17	25	4m	
80	A262m108	01:47:54.8	+38:11:47	25	10m	star 480
81	COMP			↑		0-b
82	A262m108b	01:47:54.8	+38:11:47	25	10m	chart was ambiguous star
83	COMP			↑		seemg is so bad it's
84	COMP			↓	10s	time for integrated
85,87	158m213	00:40:30.2	+40:50:55	24	10m	globular cluster action!
86,88	COMP			↑	10s	600 line grating centered 08500
89,91	225m280	00:41:45.1	+41:05:12	24	15m	3" slit
90,92	COMP			↑		seemg approaching ∞
93,95	163m217	00:40:33.3	+41:11:20	24	15m	these fringes are bad!
94,96	COMP			↑		I hope this is usable data
97,99	Pa12	04:45:48	+31:22:10	24	15m	mmmm ← spectra
98,100	COMP			↑		drift rate = 0.5"/sec
101	SKV	04:46:10	+31:15:10	24	15m	seemg 5"+
102	COMP			↑		SecZ = 1.00

60 inch Telescope Log

Observer: P. Berlind

PI: Hucher & Geller

Spectrograph: FAST

Grating: 600L; 3" slit / 30

Page: 3312

Date: 11/29/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
103,105	N2419	07:37:48	+38:54:W	24	15m	600L of centered @ 85W A
104,106	COMP			↑		3" slit low counts
107	SKY	07:38:07	+38:42	24	15m	seeing still bad 3-5"
108	COMP			↑		
109	N2419	07:37:48	+38:54:W	24	15m	300 line, 3" slit ↓
110	COMP			↑	15s	seeing a little better
111	SKY	07:38	+38:55	24	15m	
112	COMP			↑		
113	312.038603	08:40:14.72	+28:16:07.1	3	5m	star to E on slit
114	COMP			↑		
115	312.038489	08:46:40.47	+28:18:27.4	3	5m	hazy night, bright sky
116	COMP			↑		but no clouds
117	312.040321	08:45:43.3	+28:24:12.4	3	5m	
118	COMP			↑		
119	312.037616	08:48:14.57	+28:15:38.5	3	10m	fla at pixel 2115
120	COMP			↑		
121	312.042472	08:58:42.62	+28:29:35.6	3	5m	
122	COMP			↑		
123	312.042746	08:34:47.38	+28:29:32.6	3	5m	
124	COMP			↑		
125	312.044682	08:57:28.5	+28:36:58.3	3	5m	also observe 11/28 in twilight
126	COMP			↑		
127	07593p0949	07:59:18	+09:49:W	1	5m	H α
128	N2510	07:59:24	+09:37:W	1	3m	u04778 H α
129	07597p0944	07:59:42	+09:44:W	1	3m	
130	COMP			↑		seeing has improved
131	07599p0939	07:59:54	+09:39:W	1	3m	
132	07592p0946	07:59:12	+09:46:W	1	3m	
133	COMP			↑		
134	IS10EW	08:27:36	-02:00:W	1	5m	ETH comps u4460

E object above on slit
W " below on slit



60 inch Telescope Log

Observer: P. BerlindPI: Kennyon/Geller/Huchra/KirshnerSpectrograph: FASTGrating: 300L; 3" slitPage: 3313Date: 11/29/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
135	COMP			↑		
136.7	BX Mon	07:22:54	-03:30:00	12	10s, 60s	5" slit ↓
138	COMP			↑	10s	
139	Hiltner 600	06:47:37.2	+02:11:25	12	10s	
140	COMP			↑	10s	
141	Faye 34	10:36:41.2	+43:21:50	2	2m	3" slit ↓
142	COMP			↑		tilt = 550; extra blue ↓
143	SN 1994ae	10:44:23	+17:32:18	2	15m	
144	COMP			↑		
145	312.045795	08:36:46.72	+28:39:54.5	3	5m	tilt = 590; std setup ↓
146	312.045893	08:36:49.25	+28:40:06	3	5m	
147	COMP			↑		
148	312.047042	08:51:01.44	+28:45:05.4	3	7m	
149	COMP			↑		
150	312.047057	08:38:35.86	+28:44:20.4	3	7m	
151	COMP			↑		
152	UOS 211	09:42:06	+00:01:00	1	4m	star to EAST
153	COMP			↑		
154	N 3062	09:54:40	+01:40:00	1	2m	
155	COMP			↑		
156	09576 p0224	09:57:36	+02:24:00	1	3m	
157	COMP			↑		Venus is very bright
158	09578 p0557	09:57:48	+02:57:00	1	2m	
159	COMP			↑		
160	09583 p0130	09:58:18	+01:30:00	1	10m	H _α
161	COMP			↑		
162	UOS 388	09:58:36	+02:28:00	1	3m	
163	09586 p0335	09:58:36	+02:35:00	1	5m	H _α
164	10000 p0053	10:00:00	+02:33:00	1	3m	H _α
165	COMP			↑		

60 inch Telescope Log

Observer: P. BerlindPI: MuchaSpectrograph: FASTGrating: 300L - 3" slitDate: 11/29/94Page: 3314

Number	Object	R. A.	Dec.	L/R	Exp	Comments
166	10014 p0145	10:01:24	+01:45:00	1	4m	
167	COMP			↑		
168	10 028 p0147	10:02:48	+01:47:00	1	3m	
169	COMP			↑		
170	UOS487	10:07:54	+02:29:00	1	4m	twilight H _α
171	COMP			↑		
172,173	N 3115	10:02:44	-07:28:30	0	3m	x2 ridg' the nucleus
174	COMP			↑		
175-177	N 3031	09:51:30	+69:18:18	0	2m	ditto
178	COMP			↑		
179-188	FLAT				10s	
189-198	BIAS				0s	
199-208	FLAT6				10s	at tilt = 55° + tra blue
209-218	FLAT6W			24	20s	600L; 3" slit
219-221	FLAT12W			13		1200L; 2" slit
222-224	DARK				15m	dome crew is here cutting DARKS short

60 inch Telescope Log

Observer: P. Berlind

PI: Huchra

Spectrograph: FAST

Grating: 300L; 600L

Date: 11/30/94

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
110	BIAS				0s	clear; big haze to W
11-20	FLAT				10s	300 line g; 3" slit @ 590
21	COMP			↓	10s	delay; Best Lou working in dom.
22	M72	20:53:12	-12:33:00	24	15m	600 line; 3" slit @ 1030 ↓
23	COMP			↑		
24	SKY	20:53	-12:25	24	15m	
25	COMP			↑		
26	M72			24	15m	
27	COMP			↑		
28	M2	21:33:12	-0:51:00	24	10m	300 line @ 590; 3" slit ↓
29	COMP			↑		↳ now there are some photons!
30	SKY	21:33	-0:40	24	10m	
31	COMP			↑		
32	M15	21:29:42	+12:09:00	24	10m	
33	COMP			↑		
34	SKY	21:29	+12:22	24	10m	
35	COMP			↑		
36	N7331	22:34:46.9	+34:09:43	0	5m	nucleus
37	COMP			↑		
38	A262m143	01:49:26	+38:24:45	25	10m	2 MASS H _α
39	COMP			↑		Welcome to Triangulum
40	A262m187	01:47:22.5	+35:15:37	25	5m	H _α
41	A262m100	01:49:47.3	+35:30:56	25	5m	
42	A262m114	01:48:08	+35:32:13	25	10m	H _α
43	COMP			↓		
44	A262m118	01:48:18	+35:36:48	25	10m	
45	A262m134	01:49:14	+35:16:07	25	5m	star to E; star to W H _α
46	COMP			↑		
47	A262m22	01:52:07.5	+35:59:33	25	4m	
48	A262m198	01:51:50.7	+35:46:39	25	7m	

object

60 inch Telescope Log

Observer: P. BerlindPI: HuchraSpectrograph: FASTGrating: 300LDate: 11/30/94Page: 3316

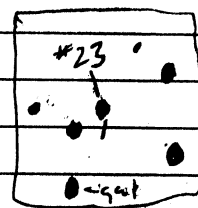
Number	Object	R. A.	Dec.	L/R	Exp	Comments
49	COMP			↑		
50	A262m21	01:57:04.6	+34:35:03	25	4m	
51	A262m153	01:49:55.7	+34:33:19	25	7m	H _α
52	COMP			↑		
53	A262m169	01:50:52.4	+34:29:37	25	10m	nice spectra ^{4/5!}
54	COMP			↑		
55	A262m173	01:50:58.9	+34:23:32	25	10m	H _α
56	A262m185	01:51:18.2	+34:25:28	25	7m	H _α
57	COMP			↑		
58	A262m6	01:45:27.8	+35:53:20	25	7m	another beauty
59	A262m135	01:45:54	+35:44:36	25	10m	South Comp $v_z \approx 22,500$
60	COMP			↑		
61	A262m13N	01:45:54	+35:44:36	25	10m	North Comp $v_z \approx 22,700$
62	COMP			↑		
63	A262m34	01:44:17.5	+34:10:08	25	5m	
64	COMP			↑		
65	SN1994xx	03:02:57.97	-12:22:54.9	2	30m	$V \geq 18$; gal has H _α 2004
66	COMP			↑		$v_z \approx 4200$ km/s $z \approx 0.013$
67	AWM7G10	02:48:54.3	+41:22:30	22	4m	Pair Clusters
68	COMP			↑		
69	AWM7G9	02:48:47.2	+41:14:56	22	2m	Star * 6C.76
70	AWM7G11	02:49:02.3	+41:11:14	22	5m	these are positive id's
71	COMP			↑		since I can read charts again
72	AWM7G14	02:50:21.3	+42:06:02	22	5m	H _α
73,75	AWM7G12	02:49:05.5	+42:00:34	22	7m, 10m	x2
74	COMP			↑		
76	AWM7G24	02:51:20.9	+41:53:16	22	1m	all stars *
77	AWM7G25	02:51:24	+41:57:27	22	3m	gal
78	AWM7G26	02:51:39.9	+41:55:47	22	5m	possible mis ID on ^{page 684} chart
79	COMP			↑		

~~926 8017~~

60 inch Telescope Log

Observer: P. BarlundPI: Huchra & GellerSpectrograph: FASTGrating: 300LDate: 11/30/94Page: 3317

Number	Object	R. A.	Dec.	L/R	Exp	Comments
80	AWM7G28	02:51:54.2	+41:17:16	22	3m	No chart.
81	COMP			↑		
82	AWM7G13	02:49:54	+41:00:24	22	7m	H α
83	AWM7G15	02:50:27.5	+41:01:13	22	7m	star
84	COMP			↑		
85	AWM7G29	02:51:59.5	+41:35:25	22	5m	
86	COMP			↑		
87	AWM7G35	02:50:45.3	+41:35:23	22	4m	
88	COMP			↑		
89	AWM7G34	02:50:30	+41:15:05	22	4m	
90	AWM7G37	02:50:02.3	+41:16:59	22	4m	
91	COMP			↑		
92	AWM7G31	02:52:09.3	+41:24:09	22	4m	
93	AWM7G39	02:51:35.3	+41:24:48	22	5m	
94	COMP			↑		
95	AWM7G40	02:51:45.7	+41:24:48	22	10m	→ star to E this thing is faint → H α to beat the band, to
96	COMP			↑		
97	AWM7G16	02:50:33	+41:20:36	22	4m	
98	AWM7G33	02:51:16.2	+41:24:27	22	4m	
99	AWM7G36	02:51:25.7	+41:22:27	22	10m	
100	COMP			↑		
101	AWM7G23	02:51:20.8	+41:41:16	22	5m	No chart
102	COMP			↑		
103	312.068209	09:00:46.60	+29:48:47.3	3	5m	weak H α
104	COMP			↑		IS R Survey ↓
105	312.068669	08:58:31.07	+29:50:55.5	3	7m	
106	COMP			↑		
107	312.069773	08:59:44.25	+29:54:06.6	3	5m	H α
108	COMP			↑		
109	312.090872	08:35:52.45	+29:57:15.3	3	5m	H α - broad



60 inch Telescope Log

Observer: P. Berlind
 PI: Geller/McDowell/Kirshner

Spectrograph: FAST
 Grating: 3002
 Date: 11/30/94

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
110	COMP			↑		
111	312.071619	09:00:47.65	+29:59:22.9	3	5m	
112	COMP			↑		
113	312.071739	08:53:51.34	+30:01:41.5	3	7m	
114	COMP			↑		
115	312.072313	09:01:15.82	+30:01:27.3	3	5m	
116	COMP			↑		
117	312.073599	08:39:18.75	+30:06:05.3	3	10m	fld look at chart (20/11/94?)
118	COMP			↑		
119	312.073516	08:46:28.44	+30:07:31.3	3	5m	
120	COMP			↑		
121	312.086315	09:00:04.98	+30:45:25.7	3	5m	fld
122	COMP			↑		
123	312.086377	08:43:39.47	+30:47:19.6	3	5m	
124	COMP			↑		
125	312.086542	08:57:37.87	+30:46:50.6	3	5m	
126	COMP			↑		
127	312.087208	08:37:43.99	+30:48:10.5	3	7m	
128	312.087402	08:37:34.5	+30:49:12.8	3	7m	seeing is great
129	COMP			↑		
130	312.087886	08:37:19.69	+30:50:29.5	3	7m	fld
131	COMP			↑		HST Snapshot
132	B2 0827 p24	08:27:54.41	+24:21:07.7	23	15m	sunk nicely in slit
133	COMP			↑		no clouds but hazy
134	PG 0846 p249	08:46:07.9	+24:56:23	23	15m	d:to
135	COMP			↑		
136	SN1994ae	10:44:23	+17:32:18	2	15m	extra blue tilt @ 550 ↓
137	COMP			↑		sunk in slit!
138	Feige 34	10:36:41.2	+13:21:50	2	2m	
139	COMP			↑		

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60 inch Telescope Log

Observer: P. Berlind
 PI: Huchra

Spectrograph: FAST
 Grating: 300L; 3" slit
 Date: 11/30/94

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
140	U05439	10:03:40	+W:19:40	1	15m	grating tilt = 590 (std.) ↓ incredibly LSB
141	COMP			↑		
142	10032p0229S	10:03:12	+02:29:30	1	4m	seems 2-3" South North Comp S=13,000 N=13,200
143	10032p0229N	10:03:12	+02:29:30	1	4m	
144	COMP			↑		
145	10053p0033	10:05:18	+W:33:40	1	5m	Hx
146	10054p0031	10:05:24	+W:31:40	1	4m	
147	10059p0037	10:05:54	+W:37:40	1	4m	
148	COMP			↑		
149	10093p0010	10:09:18	+W:10:40	1	5m	Hx
150	COMP			↑		
151	N4486B	12:28:40	+12:45:59	0	5m	
152	COMP			↑		
153, 155, 156	N4151	12:08:01	+39:41:02	6	4m	2mm, 30s use 30sec!
154	COMP			↑		
157, 8	AGK2p43928	09:49:20	+43:42:07	0	5s	
159	COMP			↑		clear skies
160-169	FLAT			0	10s	300L @ 590; 3" slit
170-179	BIAS			0	0s	
180-189	FLAT6			2	10s	300L @ 550; 3"
190-209	FLAT600			24	20s	600L @ 1030
210-214	DARK				15m	dome crew may have been in dome they look ok though

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Page: 3330Date: 12/1/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1	Comp			↓	10 ^s	TILT 590 ON GRATING
2	MK 509	20 41 26	-10 54 18	6	2 ^m	300 L/MM GRAT 3" SLT
3	Comp			↓	10 ^s	
4	EG 149	21 44 57	-07 58 83	0	10 ^m	↓ ↓
5	Comp			↓	10 ^s	
6	M31	00 40 00	40 59 42	0	1 ^m	
7	M31 SKY	20 MIN	NORTH	0	1 ^m	
8	Comp			↓	10 ^s	
9	M32	00 39 58	40 35 30	0	1 ^m	
10	Comp			↓	10 ^s	
11	158N213	00 40 30	40 50 55	0	10 ^m	
12	Comp			↓	10 ^s	
13	163N217	00 40 33	41 11 20	0	10 ^m	
14	Comp			↓	10 ^s	
15	225N280	00 41 45	41 05 12	0	10 ^m	
16	Comp			↓	10 ^m	
17	N7331	22 34 46	34 09 43	0	5 ^m	
18	Comp			↓	10 ^s	
19	HD 12623	02 02 18	62 56 03	0	2 ^s	
20	Comp			↓	10 ^s	
21	466.014255	01 03 50	10 35 23	3	6 ^m	
22	Comp			↓	10 ^s	
23	466.020831	00 43 41	10 59 54	3	7 ^m	
24	Comp			↓	10 ^s	
25	466.033743	01 02 43	11 53 38	3	5 ^m	
26	Comp			↓	10 ^s	
27	466.034473	01 05 27	11 56 25	3	6 ^m	
28	Comp			↓	10 ^s	
29	466.034956	00 53 39	11 58 37	3	6 ^m	
30	Comp			↓	10 ^s	

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Page: 3321Date: 12/1/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
31	466.035339	00 50 57	11 59 51	3	6 ^m	
32	Comp P			↓	10 ^s	
33	466.036603	01 02 24	12 05 42	3	6 ^m	
34	Comp P			↓	10 ^s	
35	466.049196	01 07 19	12 56 37	3	6 ^m	
36	Comp P			↓	10 ^s	
37	466.056418	01 03 24	13 26 32	3	6 ^m	
38	Comp P			↓	10 ^s	
39	467.012891	01 13 38	10 32 06	3	6 ^m	
40	Comp P			↓	10 ^s	
41	467.013263	01 30 34	10 32 35	3	6 ^m	
42	Comp P			↓	10 ^s	
43	467.015320	01 12 35	10 42 36	3	6 ^m	Bingo Sferat? 4 ^{yr}
44	Comp P			↓	10 ^s	
45	467.015500	01 30 20	10 41 59	3	6 ^m	
46	Comp P			↓	10 ^s	
47	467.016071	01 08 05	10 45 15	3	10 ^m	
48	Comp P			↓	10 ^s	
49	467.017270	01 23 46	10 50 17	3	6 ^m	
50	Comp P			↓	10 ^s	
51	467.017701	01 21 39	10 52 33	3	6 ^m	
52	Comp P			↓	10 ^s	
53	467.018126	01 23 23	10 54 16	3	6 ^m	
54	Comp P			↓	10 ^s	
55	467.018804	01 24 07	10 57 12	3	6 ^m	
56	Comp P			↓	10 ^s	
57	467.019071	01 29 03	10 57 33	3	6 ^m	
58	Comp P			↓	10 ^s	
59	467.020498	01 14 34	11 04 19	3	8 ^m	
60	Comp P			↓	10 ^s	

60 inch Telescope Log

Observer: J. PetersPI: J. Hochra / J. StaufferSpectrograph: FASTGrating: 300 / 1200Page: 3322Date: 12/1/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
61	467.020731	01 29 25	11 04 15	3	13 ^m	
62	Comp P			↓	10 ^s	
63	467.022020	01 28 27	11 09 45	3	8 ^m	
64	Comp P			↓	10 ^s	
65	467.022228	01 12 33	11 11 28	3	6 ^m	
66	Comp P			↓	10 ^s	
67	AKN 120	05 13 37	-00 12 15	6	5 ^m	
68	Comp P			↓	10 ^s	
69	HZ 15	04 37 56	08 35 00	0	5 ^m	
70	Comp P			↓	10 ^s	
71	HD 52971	06 57 51	27 13 42	0	2 ^s	
72	Comp P			↓	10 ^s	
73	AGK 2 P 14783	07 17 47	14 59 37	0	10 ^s	
74	Bias	↓		↓		1200/μm 1.5" SLT Position mic 777.5 J. Stauffer Obj
75	FLAT	↓		↓	45 ^s	
76	Comp P	↓		↓	12 ^s	
77	Theta Ori	05 32 49	-05 25 16	27	1 ^s	
78	Theta Ori	↓	↓	27	6 ^s	
79	Comp P			↓	10 ^s	300/μm 3" SLT
80	312.088330	08 36 48	30 51 42	3	5 ^m	
81	Comp P			↓	15 ^s	
82	312.089194A	08 38 18	30 54 59	3	6 ^m	NORTH Obj
83	312.089194B	08 38 18	30 54 59	3	8 ^m	SOUTH Obj
84	Comp P			↓	10 ^s	
85	312.089335	08 59 34	30 55 00	3	10 ^m	
86	Comp P			↓	10 ^s	
87	312.091450	08 57 50	31 02 14	3	10 ^m	
88	Comp P			↓	10 ^s	
89	312.091742	08 58 57	31 02 52	3	10 ^m	
90	Comp P			↓	10 ^s	

60 inch Telescope Log

Observer: J. PetersPI: J. H. KraSpectrograph: FASTGrating: 300Date: 12/1/94Page: 3323

Number	Object	R. A.	Dec.	L/R	Exp	Comments
91	312.091774	08 58 52	31 02 55	3	10 ^M	
92	Comp			↓	10 ³	
93	312.092463	08 35 40	31 04 29	3	10 ^M	
94	Comp			↓	10 ³	
95	312.092754	09 01 00	31 05 24	3	8 ^M	
96	Comp			↓	10 ³	
97	312.092980	08 37 29	31 06 46	3	10 ^M	
98	Comp			↓	10 ³	
99	312.093045	08 56 32	31 07 38	3	10 ^M	
100	Comp			↓	10 ³	
101	312.093063	08 58 19	31 07 17	3	6 ^M	
102	Comp			↓	10 ³	
103	10030P0019	10 03 00	00 19 00	1	15 ^M	
104	10030P0019	↓	↓	1	15 ^M	
105	Comp			↓	10 ³	
106	10164P0154	10 16 24	01 54 00	1	5 ^M	
107	Comp			↓	10 ³	
108	10073P0128	10 07 18	01 28 00	1	5 ^M	
109	Comp			↓	10 ³	
110	10086P0128	10 08 36	01 28 00	1	5 ^M	
111	Comp			↓	10 ³	
112	10199P0056	10 19 54	00 56 00	1	5 ^M	
113	Comp			↓	10 ³	
114	10262N0301	10 20 07	-03 01 02	1	5 ^M	
115	Comp			↓	10 ³	
116	AGK2P43928	09 49 20	43 42 07	0	5 ^S	
117	Comp			↓	10 ³	Pos Mic 550
118	Feige 34	10 36 41	43 21 50	0	2 ^M	↓ ↓
119	Comp			↓	10 ³	
120	SN1994AE	10 44 23	17 32 18	2	15 ^M	↓ ↓

10030P0019 10030P0019 10030P0019 10030P0019

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Page: 3325Date: 12/2/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1	Comp			↓	10 ^s	
2	HD 198858	20 49 50	47 31 07	0	2 ^s	
3	Comp			↓	10 ^s	
4	MK 509	20 41 26	-10 54 18	6	2 ^m	
5	Comp			↓	10 ^s	
6	EG 149	21 44 57	-07 58 03	0	10 ^m	
7	Comp			↓	10 ^s	
8	M 31	00 40 00	40 59 42	0	1 ^m	
9	M 31 SKY	20 ^m North		0	1 ^m	
10	Comp			↓	10 ^s	
11	M 32	00 39 58	40 35 30	0	1 ^m	
12	Comp			↓	10 ^s	
13	158 N 213	00 40 30	40 50 55	0	10 ^m	
14	Comp			↓	10 ^s	
15	225 N 280	00 41 45	41 05 12	0	10 ^m	
16	Comp			↓	10 ^s	
17	163 N 217	00 40 33	41 11 20	0	10 ^m	
18	Comp			↓	10 ^s	
19	N 7331	22 34 46	34 09 43	0	5 ^m	
20	Comp			↓	10 ^s	
21	467.022259	01 12 19	11 11 34	3	10 ^m	Obj's hard to see on T.V. This eve.?
22	Comp			↓	10 ^s	
23	467.023306	01 12 12	11 16 03	3	10 ^m	
24	Comp			↓	10 ^s	
25	467.023744	01 22 58	11 17 39	3	8 ^m	
26	Comp			↓	10 ^s	
27	467.024500	01 15 10	11 21 05	3	10 ^m	
28	Comp			↓	10 ^s	
29	467.025765	01 13 01	11 26 00	3	6 ^m	Delay @ 48" Refrot
30	Comp			↓	10 ^s	Mac

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300 / 1200 LMMPage: 3326Date: 12/2/84

Number	Object	R.A.	Dec.	L/R	Exp	Comments
31	467.026108	01 12 48	11 27 20	3	6 ^m	
32	Comp			↓	10 ^s	Seeing up & Down
33	467.027234	01 13 33	11 31 23	3	5 ^m	
34	Comp			↓	10 ^s	
35	467.027832	01 30 56	11 32 39	3	5 ^m	
36	Comp			↓	10 ^s	
37	467.029749	01 26 13	11 40 19	3	5 ^m	
38	Comp			↓	10 ^s	
39	467.030703	01 31 43	11 43 08	3	5 ^m	
40	Comp			↓	10 ^s	
41	467.031447	01 13 28	11 47 23	3	10 ^m	
42	Comp			↓	10 ^s	Delay Back @ 48'
43	467.032247	01 15 10	12 10 24	3	5 ^m	
44	Comp B	Test		↓	12 ^s	1200 L/mm 336.5 3" SLIT
45	SS0019 P21B	00 17 13	21 40 30	13	15 ^m	
46	Comp B			↑	120 ^s	356.5
47	HILTNER 102 B	01 05 53	62 31 32	⊙	2 ^m	
48	Comp			↑	120 ^s	
49	FLAT B			↑	60 ^s	
50	HILTNER 102 R			⊙	2 ^m	
51	Comp R			↑	12 ^s	
52	SS0019 P21R	00 17 13	21 40 20	13	15 ^m	
53	Comp R			↑	12 ^s	
54	FLAT R			↑	30 ^s	
55	Bias			↑		
56	Bias			↑		
57	Comp			↓	12 ^s	John Stauffer
58	The Tar ORI	05 32 49	-05 25 16	27	6 ^s	1200 L/mm PM 777.5 1.5" SLIT
59	FLAT			↑	45 ^s	
60	Comp			↓	10 ^s	300 L/mm 3" SLIT P=590

60 inch Telescope Log

Spectrograph: FASTObserver: J. PetersGrating: 300Page: 3927PI: J. HuchraDate: 12/2/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
61	HD 12623	02 02 18	62 56 03	0	2 ^s	Delay @ 45"
62	Comp			↓	10 ^s	
63	H215	04 37 56	08 35 00	0	5 ^m	
64	Comp			↓	10 ^s	
65	AKN120	05 13 37	-00 12 15	6	5 ^m	
66	Comp			↓	10 ^s	
67	HD 52971	06 57 51	27 13 42	0	2 ^s	
68	Comp			↓	10 ^s	
69	AGK2P14783	07 17 47	14 59 37	0	10 ^s	
70	Comp			↓	10 ^s	
71	08283P5601	08 28 18	56 01 00	1	2 ^m	Don't See The Galaxy
72	Comp			↓	10 ^s	
73	08290P5237	08 29 00	52 37 00	1	5 ^m	
74	Comp			↓	10 ^s	
75	08296P5242	08 29 36	52 42 00	1	5 ^m	
76	Comp			↓	10 ^s	
77	08296P5443	08 29 36	54 43 00	1	5 ^m	
78	Comp			↓	10 ^s	
79	08299P5442	08 29 54	54 42 00	1	5 ^m	
80	Comp			↓	10 ^s	
81	312,093165	08 57 05	31 07 58	3	5 ^m	
82	Comp			↓	10 ^s	
83	312,093294	09 01 05	31 07 09	3	6 ^m	
84	Comp			↓	10 ^s	
85	312,094332	08 43 51	31 12 34	3	6 ^m	
86	Comp			↓	10 ^s	
87	312,094398	08 42 43	31 12 36	3	6 ^m	
88	Comp			↓	10 ^s	
89	312,095015	08 46 34	31 15 08	3	6 ^m	
90	Comp			↓	10 ^s	

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300 L/mm + 1200Page: 3329Date: 12/3/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1	Comp			↓	10 ^s	Thin clouds Around.
2	467.037271	01 15 16	12 10 30	3	15 ^m	} No STANDARDS Done AT START of eve due To clouds.
3	Comp			↓	10 ^s	
4	467.037921	01 08 43	12 12 09	3	6 ^m	
5	Comp			↓	10 ^s	
6	467.038110	01 24 12	12 12 58	3	6 ^m	
7	Comp			↓	10 ^s	
8	467.038329	01 19 38	12 14 10	3	10 ^m	
9	Comp			↓	10 ^s	
10	467.039006	01 31 55	12 15 09	3	8 ^m	
11	Comp			↓	10 ^s	
12	467.039790	01 14 45	12 19 32	3	5 ^m	
13	Comp			↓	10 ^s	
14	467.040626	01 14 59	12 22 46	3	15 ^m	
15	Comp			↓	10 ^s	
16	467.042287	01 30 06	12 28 05	3	6 ^m	
17	467.042287	↓	↓	3	10 ^m	
18	Comp			↓	12 ^s	1200 L/mm Prismic 777.5
19	TheTauri	05 32 49	-05 25 16	27	10 ^s	J. STAUFFER
20	FLAT			↑	45 ^s	
21	Bias			↑		
22	Bias			↑	↑	
23	Comp			↓	10 ^s	
24	312.103818	08 35 12	31 42 12	3	5 ^m	
25	Comp			↓	10 ^s	
26	312.103256	08 47 32	31 42 42	3	6 ^m	
27	Comp			↓	10 ^s	Clouds coming
28	312.103222	09 01 24	31 40 13	3	10 ^m	↓
29	Comp			↓	10 ^s	
30	AKN 120	05 13 37	-00 12 15	6	5 ^m	

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Date: 12/3/94Page: 3330

Number	Object	R.A.	Dec.	L/R	Exp	Comments	
31	Comp			↓	10 ^s	Thru Clouds	
32	H215	04 37 56	08 35 00	0	5 ^m	}	
33	Comp			↓	10 ^s		
34	HD 52971	06 57 51	27 13 42	0	2 ^s		
35	Comp			↓	10 ^s		
36	AGK2 P14783	07 17 47	14 59 37	0	10 ^s		
37	Comp			↓	10 ^s		
38	AGK2 P43928	09 49 20	43 42 07	0	5 ^s		
39	Comp			↓	10 ^s		
40	08301 P5542	08 30 06	55 42 00	1	15 ^m		HIT BY Clouds
41	08301 P5542	↓	↓	1	15 ^m		Clouded OUT
42	Comp			↓	10 ^s		
43	08314 P5559	08 31 24	55 59 00	1	5 ^m	Suckers Hole?	
44	Comp			↓	10 ^s		
45	08329 P5354	08 32 54	53 54 00	1	5 ^m		
46	Comp			↓	10 ^s		
47	09414 P0305	09 41 24	03 05 00	1	15 ^m	Very Clear Here	
48	Comp			↓	10 ^s		
49	09511 P0237	09 51 06	02 37 00	1	7 ^m		
50	Comp			↓	10 ^s		
51	10458 P0714	10 45 48	07 14 00	1	15 ^m		
52	Comp			↓	10 ^s		
53	10466 P0230	10 46 36	02 30 00	1	12 ^m		
54	Comp			↓	10 ^s	550 on Pos Mic	
55	Feige 34	10 34 41	43 21 50	0	2 ^m	Thin clouds	
56	Comp			↓	10 ^s		
57	SN 1994AE	10 44 23	17 32 18	2	15 ^m		
58	FLAT	↑	↑	↑	10 ^s		
59-73	FLAT				10 ^s	Pos Mic = 590	
74-88	Bias						
89-92	Dark				15 ^m	Thin clouds To Clear To Thick Clouds Thru The Night!	

60 inch Telescope Log

Observer: P. BerlindPI: Kenyon / GellerSpectrograph: FASTGrating: 302Date: 12/6/94Page: 3331

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-6	DARK				15m	Fog after sunset
7-16	BTAS				05	clearing @ 7:30
17-26	FLAT				10s	some lingering clouds
27,28	RU Vul	20:19:01	+21:24:43	12	5s, 6s	5" slit ↓
29	COMP			↑	10s	
30,31,32	V1329 Cyg	20:49:26	+35:23:37	12	10, 20, 60	
33	COMP			↑	10s	
34,35	AG Peg	21:48:36.2	+12:23:27	12	1s, 5s	
36	COMP			↑		
37,38	Z And	23:31:53	+48:32:32	12	5s, 30s	
39	COMP			↑		
40,41	H10217086	23:54:49	+62:27:35	12	5s, 30s	std
42	COMP			↑		
43,44	EG And	00:41:52.7	+40:24:22	12	1s	
45	COMP			↑		
46,47	AX Per	01:33:06	+54:00:18	12	5s, 30s	
48	COMP			↑		
49	01523p2348	01:52:18	+23:18:00	21	5m	3" slit ↓
50	COMP			↑		Rich Groups
51,53	01541p1921	01:54:06	+19:21:00	21	5m, 8m	clouds
52,54	COMP			↑		
55	S34113517	01:21:16.8	+32:59:41	22	10m	needs more clouds
56	COMP			↑		
57	01566p2120	01:56:36	+21:20:00	21	5m	broad H α et al Sy?
58	01575p2104	01:57:30	+21:04:00	21	5m	H α
59	COMP			↑		
60	I 181	01:57:14.3	+23:24:46	21	4m	
61	COMP			↑		
62	01598p2126	01:59:48	+27:26:00	21	4m	
63	COMP			↑		

51 + 53 summed

60 inch Telescope Log

Observer: P. BerlindPI: GellerSpectrograph: FASTGrating: 3002Date: 12/6/94Page: 3332

Number	Object	R. A.	Dec.	L/R	Exp	Comments
64	U 01543	02:00:30	+19:29:00	21	4m	
65	COMP			↑		
66	02174p2315	02:17:28	+23:15:00	21	5m	stopped by clouds
67	COMP			↑		
68	03102m0229	03:10:12	-02:28:00	21	4m	open again
69	COMP			↑		
70	03122m0055	03:12:12	-00:55:00	21	5m	Hd
71	COMP			↑		
72	03122p0300	03:12:12	+03:00:00	21	5m	stopped by clouds
73	COMP			↑		
74-83	BIAS			-	0s	
81	312.105004	08:37:56.63	+31:47:26.7	3	5m	open again @ 2:00
83	COMP			↑		
86,88	312.107885	08:41:17.06	+31:57:56.4	3	5m	8m x2
87,89	COMP			↑		
90	312.108153	08:40:51.35	+31:58:50.7	3	5m	star to E on slit
91	COMP			↑		
92,94	312.108766	08:46:16.41	+32:01:51.8	3	5m	10m x2
93,95	COMP			↑		
96	312.109849	08:40:47.27	+32:05:06.2	3	10m	
97	COMP			↑		
98	312.110477	08:41:47.83	+32:07:24.9	3	5m	
99	COMP			↑		
100	312.113543	08:57:45.88	+32:17:03.1	3	8m	
101	COMP			↑		
102	312.113642	08:56:49.55	+32:17:40.4	3	5m	
103	COMP			↑		
104	312.113561	08:41:54.1	+32:17:54.9	3	10m	Hd
105	COMP			↑		
106	312.113916	08:51:53.57	+32:19:23.6	3	8m	

60 inch Telescope Log

Observer: P. Ben McIPI: Geller/Kirshner/HuchraSpectrograph: FASTGrating: 300LDate: 12/194Page: 3333

Number	Object	R. A.	Dec.	L/R	Exp	Comments
107	COMP			↑		thin clouds around
108	312.114839	08:51:05.67	+32:22:293	3	8m	H α seeing 1-2"
109	COMP			↑		
110	312.115270	08:57:42.6	+32:22:434	3	5m	H α
111	COMP			↑		
112	Feige 34	10:36:41.2	+43:21:50	2	2m	tilt = 550 ; 3" slit ↓
113	COMP			↑		
114	SN1994ae	10:41:23	+17:32:18	2	15m	wow
115	COMP			↑		
116	10216p0024	10:21:36	+0:24:00	1	4m	tilt = 590 ↓ ; 3" slit
117	COMP			↑		
118	10220p0121	10:22:00	+01:21:00	1	4m	
119	COMP			↑		
120	10228p0054	10:22:48	+0:54:00	1	8m	H α et al
121	10231p0100	10:23:06	+01:00:00	1	4m	H α
122	COMP			↑		
123	10231p0141	10:23:06	+01:41:00	1	5m	H α
124	COMP			↑		
125	10238p0056	10:23:48	+0:56:00	1	4m	H α
126	COMP			↑		
127	U05660	10:24:06	+01:15:00	1	5m	H α
128	U05664	10:24:36	+01:13:00	1	5m	
129	COMP			↑		
130	10247m0219	10:24:42	-02:19:00	1	10m	LSB H α
131	COMP			↑		
132	10246p0144	10:24:36	+01:44:00	1	5m	
133	COMP			↑		
134, 135	N4579	12:35:12	+12:05:39	23	1m, 3m	5" slit ↓
136	COMP			↑	10s	this "aint no QSO"
137, 138	Feige 67	12:39:18.9	+17:47:24	23	30s, 120s	

60 inch Telescope Log

Observer: P. Berlind

PI: _____

Spectrograph: FASTGrating: 3002Date: 12/6/94Page: 3334

Number	Object	R. A.	Dec.	L/R	Exp	Comments
139	COMP			↑	10s	5" slit ↑
140	10292m0228	10:29:12	-02:28:00	↑	4m	3" slit ↓
141	COMP			↑		} check coords / id } see chart
142	U05783	10:35:30	+02:00:00	↑	4m	
143	U05783 x2	"	"	↑	5m	I thought it was a SN;
144	COMP			↑		looks like star or HII H _α
145	IG71	11:05:00	+01:03:00	↑	4m	U06180
146	COMP			↑		
147	11061p0040	11:06:06	+00:40:00	↑	4m	H _α
148	COMP			↑		
149	N4486B	12:28:00	+12:45:59	0	5m	
150	COMP			↑		
151	N4151	12:08:01	+39:41:02	6	30s	
152	COMP			↑		
153	G0140	11:34:27.8	+30:04:35	6	2m	
154	COMP			↑		
155	N3377	10:45:02.6	+14:14:51	0	3m	
156	COMP			↑		
157	N3379	10:45:11.4	+12:50:48	0	2m	
158	COMP			↑		
159,160	H052971	06:57:51.14	+27:13:42.4	0	1s	x2
161	COMP			↑		
162-163	AGK2p14783	07:17:47.36	+14:59:37.7	0	5s	x2
164	COMP			↑		
165-174	FLAT			0	10s	std setup; 3" slit; 30x
175-184	BIAS			0	0s	<u>BIAS drift overnight</u>
185-194	FLATb			2	10s	extra blue filter = 550
195-204	BIAS				0s	
205-210	DARK				15m	

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 320Date: 12/7/74Page: 3335

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-15	FLAT	300 L/mm	3" SLT	0	10 ^s	Dark, Dome Open, added
16-30	Bias	↓	↓	↓		Na @ 5:20 PM
31-34	Dark			↓	15 ^m	↓
35	Comp			↓	15 ^s	
36	M31	00 40 00	40 59 42	0	1 ^m	
37	M31 sky	South	NORTH	0	1 ^m	
38	Comp					
39	M32	00 39 58	40 35 30	0	1 ^m	
40	Comp			↓	15 ^s	
41	158-213	00 40 30	40 50 55	0	10 ^m	Lots of Thin Clouds
42	Comp			↓	15 ^s	Hum going up.
43	163M217	60 40 33	41 11 20	0	10 ^m	
44	Comp			↓	15 ^s	
45	225N180	06 41 45	41 05 12	0	15 ^m	
46	Comp			↓	15 ^s	
47	N7331	22 34 46	34 09 43	0	5 ^m	
48	Comp			↓	15 ^s	
49	HD12623	02 02 18	62 56 03	0	2 ^s	
50	Comp			↓	15 ^s	
51	467.042688	01 19 05	12 30 54	3	6 ^m	
52	Comp			↓	15 ^s	
53	467.043495	01 22 31	12 33 50	3	6 ^m	probably two objects extruded as one (star below??)
54	Comp			↓	15 ^s	
55	467.044275	01 11 37	12 36 52	3	6 ^m	
56	Comp			↓	15 ^s	
57	467.045021	01 18 59	12 39 44	3	6 ^m	
58	Comp			↓	15 ^s	
59	467.045197	01 18 49	12 40 28	3	6 ^m	
60	Comp			↓	15 ^s	
61	467.045367	01 19 24	12 40 44	3	5 ^m	

60 inch Telescope Log

Observer: J. Peters

PI: J. Hochra

Spectrograph: East

Grating: 100

Page: 3336

Date: 12/7/4

Number	Object	R. A.	Dec.	L/R	Exp	Comments
62	Comp P			↓	15 ^s	
63	467.049746	01 07 19	12 56 37	3	5 ^m	
64	Comp P			↓	15 ^s	
65	467.050301	01 16 25	12 59 21	3	5 ^m	
66	Comp P			↓	15 ^s	
67	467.050968	01 18 43	13 01 56	3	5 ^m	
68	Comp P			↓	15 ^s	
69	467.051172	01 29 59	18 01 24	3	5 ^m	
70	Comp P			↓	15 ^s	
71	467.051306	01 13 11	13 03 04	3	5 ^m	
72	Comp P			↓	15 ^s	
73	467.051482	01 13 55	13 03 42	3	6 ^m	
74	550019P21	00 17 13	21 40 20	13	15 ^m	Jeff Obj
75	Comp P ^{Blue}	336.5		↑	2 ^m	Do Jeff 1200/μm
76	FLAT ^{Blue}			↑	50 ^s	This Thing in Auto
77	HILT102 ^{Blue}	01 05 53	62 31 32	13	2 ^m	So what ever IT PUTS
78	Comp P ^{Blue}			↑	2 ^m	IN COMMENT field I
79	550019P21 ^{Red}	00 17 13	21 40 20	13	15 ^m	Hope IS OK.
80	Comp P ^{Red}	?		↑	2 ^m	1200/μm 2"SLT 336.5
81	FLAT ^{Red}			↑	30 ^s	
82	HILT102 ^{Red}	Says Blue	IN SCRIPT	13	2 ^m	
83	Comp P ^{Red}			↑	2 ^m	
84	Bias			↑		
85	Bias			↑		
86	Comp P	777.5 PosM	1.5"SLT	↓	12 ^s	10:45 PM
87	Theta Ori	05 32 49	-05 35 16	27	6 ^s	Stauffer
88	FLAT			↑	45 ^s	
89	Bias	Stauffer	↑	↑		
90	Bias	Stauffer	↑	↑		
91	Comp P	↓	↓	↓	15 ^s	3"SLT 300/μm 590 PosM.

* Look saturated? Red END No I Have Same Script as HARRY?

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Page: 337Date: 12/7/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
92	HZ15	04 37 56	08 35 00	6	5 ^m	
93	Comp P			↓	15 ^s	
94	AKN120	05 13 37	-00 12 15	6	5 ^m	
95	Comp P			↓	15 ^s	
96	467.051757	01 31 01	13 03 14	3	6 ^m	
97	Comp P			↓	15 ^s	
98	467.051823	01 18 38	13 05 06	3	5 ^m	
99	Comp P			↓	15 ^s	
100	467.052127	01 09 06	13 05 37	3	6 ^m	
101	Comp P			↓	15 ^s	
102	467.052612	01 12 39	13 07 46	3	6 ^m	
103	Comp P			↓	15 ^s	
104	467.053249	01 08 41	13 09 51	3	6 ^m	
105	Comp P			↓	15 ^s	
106	HD 52971	06 57 51	27 13 42	0	2 ^s	
107	Comp P			↓	15 ^s	
108	AGK2P14783	07 17 47	14 59 37	0	15 ^s	
109	Comp P			↓	15 ^s	
110	N1700	04 54 28	-04 56 30	0	5 ^m	
111	Comp P			↓	15 ^s	
112	BD P26595	03 37 08	26 48 01	0	5 ^s	
113	Comp P			↓	15 ^s	
114	08304P5211	08 30 24	52 11 00	1	6 ^m	
115	Comp P			↓	15 ^s	
116	08305P5200	08 30 30	52 08 00	1	5 ^m	
117	Comp P			↓	15 ^s	
118	N2600	08 31 00	52 54 00	1	5 ^m	
119	Comp P			↓	15 ^s	
120	N2602	08 31 24	53 00 00	1	5 ^m	
121	Comp P			↓	15 ^s	

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 500Page: 3338Date: 12/7/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
122	N2606	08 31 54	52 58 00	1	5 ^m	
123	Comp			↓	15 ^s	
124	08328P5413	08 32 48	54 13 00	1	5 ^m	BRT STAR To EAST of Obj.
125	Comp			↓	15 ^s	
126	312.117536	08 57 23	32 31 13	3	6 ^m	
127	Comp			↓	15 ^s	
128	312.117854	08 56 37	32 32 28	3	5 ^m	
129	Comp			↓	15 ^s	
130	312.118139	08 51 48	32 34 25	3	7 ^m	
131	Comp			↓	15 ^s	
132	312.118430	08 48 04	32 35 44	3	7 ^m	
133	Comp			↓	15 ^s	
134	313.001435	09 00 31	26 10 45	3	6 ^m	
135	Comp			↓	15 ^s	
136	313.004174	09 18 47	26 22 41	3	6 ^m	
137	Comp			↓	15 ^s	
138	313.006736	09 22 21	26 31 36	3	7 ^m	BRT STUFF JUST To EAST.
139	Comp			↓	15 ^s	
140	313.007761	09 09 34	26 36 32	3	15 ^m	
141	Comp			↓	15 ^s	
142	313.007851	09 26 25	26 34 31	3	7 ^m	
143	Comp			↓	15 ^s	
144	313.008065	09 26 38	26 35 08	3	6 ^m ?	
145	Comp			↓	15 ^s	
146	10179P0817	10 17 54	08 17 00	1	15 ^m	
147	Comp			↓	15 ^s	
148	N3386	10 45 37	05 15 48	1	15 ^m	
149	N3387	10 45 41	05 14 00	1	3 ^m	
150	Comp			↓	15 ^s	
151	10469P0504	10 46 54	05 04 00	1	10 ^m	

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Date: 12/7/94Page: 3339

Number	Object	R.A.	Dec.	L/R	Exp	Comments
152	Comp P			↓	15 ^s	
153	10458 P0505	10 45 48	05 05 00	1	10 ^m	
154	Comp P			↓	15 ^s	
155	10475 P0535	10 47 30	05 35 00	1	12 ^m	
156	Comp P			↓	15 ^s	
157	10476 P0346	10 47 36	03 46 00	1	10 ^m	
158	Comp P			↓	15 ^s	
159	10476 P0623	10 47 36	06 23 00	1	5 ^m	
160	Comp P			↓	15 ^s	
161	10585 P0454	10 58 30	04 54 00	1	6 ^m	
162	Comp P			↓	15 ^s	
163	AGK2 P43928	09 49 20	43 42 07	0	5 ^s	
164	Comp P			↓	15 ^s	
165	GD140	11 34 27	30 04 35	0	2 ^m	
166	Comp P			↓	15 ^s	
167	N4151	12 08 01	39 41 02	6	30 ^s	
168	Comp P			↓	15 ^s	
169	N4486 B	12 28 00	12 45 59	0	5 ^m	
170	Comp P			↓	15 ^s	
171	Feige 34	10 36 41	43 21 50	0	2 ^m	Pos Mic 550
172	Comp P			↓	15 ^s	↓ ↓
173	SN1994AE	10 44 23	17 32 18	2	15 ^m	↓ ↓
174	FLAT	Pos Mic @	550		10 ^s	} FLATS For SN1994AE at Pos Mic 550
175	FLAT				10 ^s	
176	FLAT				10 ^s	
177	Comp P			↓	15 ^s	→ Pos Mic 590
178	Feige 67	12 39 18	17 47 24	0	2 ^m	
179-193	Bias					
194-208	FLAT				10 ^s	
209-212	Dark				15 ^m	

60 inch Telescope Log

Observer: J. PetersPI: J. Huck RASpectrograph: FASTGrating: 300Date: 12/8/94Page: 3340

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-4	DARK				15 ^m	None Closed
5-19	Bias					
20-34	FLAT				10 ^s	↓
35	Comp P			↓	15 ^s	STW
36	HD 198858	20 49 50	47 31 07	0	2 ^s	MK509 IN THIN
37	Comp P			↓	15 ^s	CLOUDS + MOON, NO
38	M31	00 40 00	40 59 42	0	1 ^m	CAN DO THIS EVE.
39	M31 SKY	20 MIN	NORTH	0	1 ^m	
40	Comp P			↓	15 ^s	
41	M32	00 39 58	40 35 30	0	1 ^m	BET MOON + THIN
42	Comp P			↓	15 ^s	CLOUDS.
43	M7331	22 34 46	34 09 43	0	5 ^m	
44	Comp P			↓	15 ^s	
45	158N213	00 40 30	40 50 55	0	10 ^m	
46	Comp P			↓	15 ^s	
47	163N217	00 40 33	41 11 20	0	10 ^m	
48	Comp P			↓	15	
49	225N280	00 41 45	41 05 12	0	10 ^m	
50	Comp P			↓	15 ^s	
51	467.054473	01 30 25	13 13 41	3	8 ^m	
51	Comp P			↓	15 ^s	
53	467.055241	01 30 00	13 17 00	3	15 ^m	
54	Comp P			↓	15 ^s	
55	467.056097	01 07 56	13 21 09	3	15 ^m	ON THE FUZZY OBJ
56	Comp P			↓	15 ^s	
57	467.057696	01 15 12	13 27 50	3	15 ^m	
58	Comp P			↓	15 ^s	Delay on Phone
59	HD 12623	02 02 18	62 56 03	0	2 ^s	
60	Comp P			↓	15 ^s	
61	BD P26595	03 37 08	26 48 01	0	5 ^s	

60 inch Telescope Log

Observer: J. Peters

PI: J. Hochra

Spectrograph: Fast

Grating: 300 1200/mm

Page: 3341

Date: 12/8/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
62	550019P21 B	00 17 13	21 40 20	13	15M	1200/mm 336.5 2" SLT
63	Comp B			↑	2M	Jeff obj redo.
64	FLAT B			↑		
65	HILT102 B	01 05 53	62 31 32	0	2M	THRU CLOUDS ↑
66	Comp B			↑	2M	
67	550019P21 R		R	13	15M	
68	Comp R				12S	
69	FLAT R				30S	
70	HILT102 R				2M	← No only 12sec
71	Comp				12S	Bias Being read
72	Bias			↑		CSH PERMISSION DENIED
73	Bias			↑		Files copied for Jeff
74	Comp			↓	12S	SCRIPT DONE chg grt + SLT
75	Theta ORI	05 32 49	05 25 16	27	6S	} Delay Tele: Call Stauffer obj
76	FLAT			↑	45S	
77	FLAT			↑	45S	
78	Bias			↑		
79	Bias			↑		
80	Comp			↓	15S	
81	H215	04 37 56	08 35 00	0	5M	
82	Comp			↓	15S	
83	AKN120	05 13 37	-00 12 15	6	5M	} Delay going Back and looking THRU some of Geller Obj
84	Comp			↓	15S	
85	HD52971	06 57 51	27 13 42	0	1S	} THAT were NOT found.
86	Comp			↓	15S	
87	HRC352	03 51 20	31 54 14	30	4M	
88	HRC353	03 51 20	31 54 18	30	5M	↑
89	Comp			↓	15S	THRU THRU CLOUDS
90	HRC354	03 51 34	25 28 25	30	6M	} ↓
91	HRC355	03 51 35	25 28 22	30	6M	

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Page: 3342Date: 12/5/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
92	Com P			↓	15 ^s	
93	HBC 360	04 01 42	21 50 11	30	8 ^m	
94	HBC 361 N	04 01 42	21 50 13	30	15 ^m	
95	Com P			↓	15 ^s	
96	HBC 362	04 02 33	21 43 05	30 ^s	15 ^m	
97	Com P			↓	15 ^s	
98	LkCa 1	04 10 08	28 11 35	30	10 ^m	
99	Com P			↓	15 ^s	
100	ANOU 1	04 10 21	28 08 22	30	10 ^m	
101	Com P			↓	15 ^s	
102	V773 TAU	04 11 07	28 04 41	30	7 ^m	
103	Com P			↓	15 ^s	
104	FM TAU	04 11 07	28 05 19	30	15 ^m	
105	Com P			↓	15 ^s	
106	AGK 2 P 14783	07 17 47	14 59 37	0	10 ^s	
107	Com P			↓	15 ^s	
108	AGK 2 P 43928	09 49 20	43 42 07	0	5 ^s	
109	Com P			↓	15 ^s	
110	313.008590	09 21 35	26 38 42	3	8 ^m	
111	Com P			↓	15 ^s	
112	313.008906	09 22 52	26 39 38	3	5 ^m	
113	Com P			↓	15 ^s	
114	313.009367	09 20 20	26 41 59	3	5 ^m	
115	Com P			↓	15 ^s	
116	313.010011	09 20 01	26 44 21	3	5 ^m	
117	Com P			↓	15 ^s	
118	313.010747	09 28 39	26 44 31	3	5 ^m	
119	Com P			↓	15 ^s	
120	NGC 3156	10 10 06	03 22 42		15 ^m	ROT FAST ^{PE - Caldwell} 10 15 ^s OUT L.
121	Com P			↓	15 ^s	SLIT LONG PART of Galaxy

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 700Date: 12/8/94Page: 3343

Number	Object	R. A.	Dec.	L/R	Exp	Comments
122	313.012006	09 27 22	26 50 11	3	5 ^m	
123	Com P			↓	15 ^s	
124	313.012901	09 20 02	26 55 48	3	5 ^m	
125	Com P			↓	15 ^s	
126	313.013839	09 16 45	27 00 02	3	5 ^m	
127	313.013839	↓	↓	3	5 ^m	
128	Com P			↓	15 ^s	Pos mic 550
129	Feige 34	10 36 41	43 21 50	0	30 ^s	" " "
130	Com P			↓	15 ^s	" " "
131	SN 1994AE	10 44 23	17 32 18	2	15 ^m	" " "
132	Com P			↓	15 ^s	Back To 590
133	GW 140	11 34 27	30 04 35	0	2 ^m	
134	Com P			↓	15 ^s	
135	NGC 4151	12 08 01	39 41 02	4	30 ^s	
136	Com P			↓	15 ^s	
137	N 4486 R	12 28 00	12 45 59	0	5 ^m	
138	Com P			↓	15 ^s	
139	Feige 67	12 39 18	17 47 24	0	2 ^m	
140	Com P			↓	15 ^s	
141	10507 P 0253	10 50 42	02 53 00	4	15 ^m	
142	Com P			↓	15 ^s	
143	10598 P 0620	10 59 48	06 20 00	1	7 ^m	
144-158	Bias					
159-173	FLAT				10 ^s	
174-177	Dark				15 ^m	

used norm from 12/7/94 (pos mic 550) to normalize
128 - 131