

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FastGrating: 300Page: 3011Date: 6/194

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1	Comp V	Test	14ma		10 ^s	For Dan F.
2	Comp V	Test	14ma		15 ^s	For Dan F.
3	Comp			↓	15 ^s	
4	AGK2 P43928	09 49 18	43 42 00	○	10 ^s	
5	Comp			↓	15 ^s	
6	GD140	11 34 27	30 04 35	○	2m	
7	Comp			↓	15 ^s	
8	N4151	12 08 01	39 41 02	6	30 ^s	
9	Comp			↓	15 ^s	
10	N4486B	12 28 00	12 45 59	○	5m	
11	Comp			↓	15 ^s	
12	Feige 67	12 39 18	17 47 24	○	2m	Hard Time guiding?
13	Comp			↓	15 ^s	
14	H243	13 14 00	29 21 49	○	3m	
15	Comp			↓	15 ^s	
16	N5548	14 15 43	25 22 01	6	5m	
17	Comp			↓	15 ^s	20 mph Wind. Bounce
18	SN1994D	12 31 31	07 58 30	2	20m	T.L around!
19	Comp			↓	15 ^s	
20	Feige 56	12 04 13	11 56 55	○	3m	
21	Comp			↓	15 ^s	
22	12349P0501	12 34 54	05 01 00	5	15m	Obj Hard To see on TV
23	12349P0501	↓	↓	5	15m	
24	12349P0501	↓	↓	5	15m	
25	Comp			↓	15 ^s	
26	12369P0433	12 36 54	04 33 00	5	15m	Hope I got it now
27	Comp			↓	15 ^s	hardly see it.
28	12406N0109	12 40 36	-01 09 00	5	15m	
29	12406N0109	↓	↓	5	15m	hard to extract; not a very good fit
30	Comp			↓	15 ^s	

60 inch Telescope Log

Observer: J. PetersSpectrograph: FastGrating: 300Page: 302PI: J. HuchraDate: 6/1/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
31	12481N0233	12 48 06	-02 33 00	5	15M	* ^{not a} star on line
32	Comp			↓	15 ^s	
33	12517P0104	12 51 42	01 04 00	5	15M	
34	Comp			↓	15 ^s	
35	12527P0030	12 52 42	00 30 00	5	10M	
36	Comp			↓	15 ^s	
37	18194P6340	18 19 24	63 40 00	1	10M	
38	Comp			↓	15 ^s	
39	J13141P2610	13 14 11	26 10 00	3	10M	
40	Comp			↓	15 ^s	
41	J13146P2607	13 14 37	26 07 27	3	10M	
42	Comp			↓	15 ^s	
43	J13150P2635	13 15 02	26 35 44	3	10M	
44	Comp			↓	15 ^s	
45	18221P6805	18 22 06	68 05 00	1	15M	
46	Comp			↓	15 ^s	
47	18424P6225	18 42 24	62 25 00	1	15M	
48	Comp			↓	15 ^s	
49	18535P6610	18 53 30	66 10 00	1	15M	
50	Comp			↓	15 ^s	
51	N6787	19 15 36	60 19 00	1	10M	
52	Comp			↓	15 ^s	
53	19269P5247	19 26 54	52 47 00	1	10M	
54	Comp			↓	15 ^s	
55	19026P6346	19 02 36	63 46 00	1	5M	
56	19027P6347	19 02 42	63 47 00	1	5M	
57	Comp			↓	15 ^s	
58	BDP404032	20 06 40	41 06 15	0	2M	
59	Comp			↓	15 ^s	
60	18480P7041 S	18 48 00	70 41 00	1	15M	
61	18480P7041 N	↓	↓	1	5M	

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Page: 3013Date: 6/2/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1	Comp	TEST			15 ^s	
2	Comp			↓	15 ^s	Clouds To West
3	AGK2P43928	09 49 18	43 42 00	○	10 ^s	coming This Way
4	Comp			↓	15 ^s	
5	GD140	11 34 27	30 04 35	○	2 ^m	
6	Comp			↓	15 ^s	I have no words To
7	N4151	12 08 01	39 41 02	6	30 ^s	describe what I think
8	Comp			↓	30 ^s	of The guide TV This
9	Feige 67	12 39 18	17 47 24	○	2 ^m	evening. Even my best
10	Comp			↓	15 ^s	4 LETTER Words won't
11	MK421	11 08 40	38 28 43	?	5 ^m	do!
12	Comp			↓	15 ^s	
13	N4486B	12 28 00	12 45 59	○	5 ^m	
14	Comp			↓	15 ^s	
15	HZ43	13 14 00	29 21 49	○	3 ^m	TV Full of lines
16	Comp			↓	15 ^s	
17	N5548	14 15 43	25 22 01	6	5 ^m	There is No way I
18	Comp			↓	15 ^s	can do any of the
19	12529P0230	12 52 54	02 30 00	5	15 ^m	S.N observations with
20	Comp			↓	15 ^s	T.V Like This
21	12538P0536	12 53 48	05 36 00	5	15 ^m	
22	12538P0536	↓	↓	5	15 ^m	Focus secondary NOT
23	Comp			↓	15 ^s	Running. I guess I
24	12539P0630	12 53 54	06 30 00	5	10 ^m	bumped The Pot IN
25	Comp			↓	15 ^s	Back Room, Moves
26	13118NO152	13 11 48	-01 52 00	5	15 ^m	Now.
27	Comp			↓	15 ^s	
28	13126P0648	13 12 36	06 48 00	5	10 ^m	
29	Comp			↓	15 ^s	
30	13128NO225	13 12 48	-02 25 00	5	15 ^m	

* TV so Bad, I have a guide STAR Here. If I move I won't be able To find an Obj so will burn IT IN.

21 & 22 NOT Surred because 22 is much better than 21 & surred image is worse than file 22. use file 22!

60 inch Telescope Log

Observer: J. PetersSpectrograph: FASTGrating: 300Page: 3014PI: J. HuchraDate: 6/2/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
31	Com P			↓	15 ^s	
32	13181N 0111	13 18 06	-01 11 00	5	15 ^m	
33	Com P			↓	15 ^s	
34	13218N 0250	13 21 48	-02 50 00	5	15 ^m	
35	Com P			↓	15 ^s	
36	14316P 0049	14 31 36	00 49 00	1	10 ^m	
37	Com P			↓	15 ^s	
38	15341P 0331	15 34 06	03 31 00	1	15 ^m	
39	Com P			↓	15 ^s	
40	15496P 0440	15 49 36	04 40 00	1	15 ^m	
41	Com P			↓	15 ^s	
42	15479P 0437	15 47 54	04 37 00	1	15 ^m	
43	Com P			↓	15 ^s	
44	I1254	17 12 24	72 27 00	1	15 ^m	
45	Com P			↓	15 ^s	
46	NG 747	18 56 18	72 43 00	1	10 ^m	
47	Com P			↓	15 ^s	
48	19042P 7258	19 04 12	72 58 00	1	15 ^m	
49	Com P			↓	15 ^s	
50	19043P 7343	19 04 18	73 43 00	1	15 ^m	
51	Com P			↓	15 ^s	
52	BOP 404032	20 06 40	41 06 15	0	2 ^m	
53						
54						
55						
56						
57						
58						
59						
60						

I give up my eyes
have crossed from
looking at this TV.

60 inch Telescope Log

Observer: S. Muscarella

PI: J. Huchra

Spectrograph: Fast

Grating: 300

Date: 6/3/94

Page: 3015

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1					15 ^s	
—	RIHS	(15 comp)			0 ^s	
—	FLATS	(15 comp)			0.15	
2	COMP	—	—	—	15 ^s	
3	COMP	—	—	↓	15 ^s	
4	AGK2p43928	09:49:18	43:42:00		30 ^s	
5	COMP			↓	15 ^s	
6	GD 140	11:34:27.8	30:04:35		2M	
7	COMP			↓	15 ^s	
8	NGC 4151	12:08:01	39:41:02		30 ^s	Garbage
9	COMP			↓	15 ^s	
10	MK 421	11:01:40.6	38:28:43		5M	
11	COMP			↓	15 ^s	
12	NGC 4151	12:08:01	39:41:02		30 ^s	
13	COMP			↓	15 ^s	clouds moved in about half way thru ↓ Garbage
14	SN 1994M	12:28:35	00:52:54		10M	Noise very bad / mostly presswork on SN location
15	COMP			↓	15 ^s	NOTHING-THERE
16	SN 1994D	12:31:31	07:58:30		15M	
17	COMP			↓	3M	
18	Feige 56	12:04:13.8	11:56:55		3M	
19	COMP			↓	15 ^s	
20	N 4486B	12:28:00	12:45:59		5M	
21	COMP			↓	15 ^s	
22	Feige 67	12:39:18.9	17:27:24		2M	
23	COMP			↓	15 ^s	
24	HZ 44	13:29:19.1	36:23:38		2M	
25	COMP			↓	15 ^s	
26	N 5548	14:15:43.5	25:22:01.1		5M	
27	COMP			↓	15 ^s	
28					3M	

60 Inch Telescope Log

Observer: S. MuscarellaPI: J. HuchraSpectrograph: FASTGrating: 300Page: 3016Date: 6/3/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
29	CGP			↓	15 ^s	
30	SN 1994 I	13:27:47.6	17:22:59.0		15 ^M	
31	COMP			↓	15 ^s	
32	16182 p 0038 N	16:18:12	00:38:00		6 ^M	
33	16182 p 0038 S	16:18:12	00:38:00		5 ^M	counts too low. Repeat below
34	16132 p 0038 S	16:18:12	00:38:00		6 ^M	Repeat + reposition on slit.
35	COMP			↓	15 ^s	
36	F1046	14:37:06	69:15:00		10 ^M	
37	COMP			↓	15 ^s	
38	17239 p 7425 E	17:23:54	74:25:00		10 ^M	
39	17239 p 7425 M	17:23:54	74:25:00		7 ^M	
40	17239 p 7425 W	17:23:54	74:25:00		10 ^M	
41	COMP			↓	15 ^s	
42	11248 p 0302	14:24:48	03:01:00		10 ^M	Star to E also on slit
43	COMP			↓	15 ^s	
44	SN 1994 Q	18:48:11.6	40:31:01		30 ^M	
45	COMP			↓	15 ^s	
46	16053 p 0132	16:05:18	01:32:00		7 ^M	
47	COMP			↓	15 ^s	
48	17528 p 7209	17:52:48	72:09:00		10 ^M	
49	COMP			↓	15 ^s	
50	17557 p 7133	17:55:42	71:33:00		10 ^M	But star to W and faint star to E on slit slightly
51	COMP			↓	15 ^s	
52	18317 p 7405	18:31:42	74:05:00		10 ^M	
53	COMP			↓	15 ^s	
54	18400 p 7334	18:40:00	73:34		12 ^M	Can't see, but enough obj that should allow locating on slit. MISSED IT THE
55	COMP			↓	15 ^s	Two obj on slit though
56	18416 p 7030	18:41:36	70:30:00		10 ^M	
57	COMP			↓	15 ^s	
58	12207 7010	19:23:30	70:10:00		10 ^M	

56 - superred star???

60 inch Telescope Log

Observer: S. Muscarella

PI: J. Kuchra

Spectrograph: FAST

Grating: 300

Page: 3017

Date: 6/4/91

Number	Object	R A.	Dec.	L/R	Exp	Comments
—	BIAS	—	—	—	0 ^s	Combined
—	FLAT	—	—	—	0 ^s	Combined
1	COMP	—	—	—	—	(2 solution from QFAS, d.s. earlier directory)
2	COMP	—	—	—	15 ^s	first actual COMP for this date.
3	COMP	—	—	—	15 ^s	
4	COMP	—	—	↓	15 ^s	
5	AGK2p43928	09:49:18	43:42:00		30 ^s	Calib
6	COMP				15 ^s	Looks better than 2-4
7	COMP			↓	15 ^s	
8	GD140	11:34:27.8	30:04:35		2M	Calib
9	COMP			↓	15 ^s	
10	NGC 4151	12:08:01	39:41:02		30 ^s	Calib
11	COMP			↓	15 ^s	
12	Feige 234	10:36:41.1	43:21:50		60 ^s	Calib
13	COMP			↓	15 ^s	
14	MK 421	11:01:40.6	38:28:43		5M	Markarian
15	COMP			↓	15 ^s	Kirchner/Challis
16	SN 1994M	12:28:35	00:52:54		20M	Extreme TV Noise Hope for a lucky shot
17	COMP			↓	15 ^s	NOT SN
18	N4486B	12:28:00	12:45:39		5M	
19	COMP			↓	15 ^s	
20	Feige 67	12:39:18.7	17:47:24		2M	
21	COMP			↓	15 ^s	
22	H244	13:21:19.1	36:23:38		2M	
23	COMP			↓	15 ^s	
24	N5548	14:15:43.5	25:22:01.1		5M	
25	COMP			↓	15 ^s	
26	H243	13:17:00.7	29:21:49		3M	
27	COMP			↓	15 ^s	
28	12444m 0117	12:44:24	01:17:00		10M	will try, but TV noise may these are faint galaxies near impossible Garbage maybe just the edge

60 inch Telescope Log

Observer: MuscarellkPI: HachraSpectrograph: EastGrating: 300Date: 6/4/94Page: 3018

Number	Object	R.A.	Dec.	L/R	Exp	Comments
29	COMP			↓	15 ^s	
30	12476 p 0407	12:47:12	04:07:00		10 ^M	Can't distinguish - location on slit by other objects
31	COMP			↓	15 ^s	
32	12514 p 0518	12:51:24	05:18:00		10 ^M	
33	COMP			↓	15 ^s	
34	12518 p 0532	12:51:48	05:32:00		10 ^M	* - Wrong object ???
35	COMP			↓	15 ^s	
36	N4857	12:5:24	70:28:00		8 ^M	
37	COMP			↓	15 ^s	
38	13174 p 7302	13:17:24	73:02:00		10 ^M	
39	COMP			↓	15 ^s	
40	14060 p 7223	14:06:00	72:23:00		10 ^M	
41	COMP			↓	15 ^s	
42	14063 p 7225	14:06:18	72:25:00		10 ^M	Star on slit to west I don't see it
43	COMP			↓	15 ^s	
44	N6071	16:01:18	70:45:00		10 ^M	
45	COMP			↓	15 ^s	
46	SN1994Q	16:48:11.6	40:31:01		30 ^M	
47	COMP			↓	15 ^s	
48	16552 p 7031	16:55:12	70:31:00		10 ^M	
49	COMP			↓	15 ^s	
50	17261 p 7256	17:26:06	72:56:00		10 ^M	
51	COMP			↓	15 ^s	
52	17403 p 7452	17:40:18	74:52:00		10 ^M	
53	COMP			↓	15 ^s	
54	18024 p 6943	18:02:24	69:43:00		10 ^M	
55	COMP			↓	15 ^s	
56	18130 p 7410	18:13:00	74:10:00		8 ^M	
57	COMP			↓	15 ^s	
58	18400 p 7334	18:40:00	73:34:00		10 ^M	MISSED. TRY AGAIN #59

60 inch Telescope Log

Spectrograph: FastObserver: MuscarellaGrating: 300Page: 3020PI: HuchraDate: 6/5/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
-	BIAS				0 ^s	Combined
-	FLAT				.1 ^s	Combined
1	COMP				15 ^s	
2	COMP				15 ^s	
3	COMP			↓	15 ^s	
4	AGK 2p 43928	09:49:18	43:42:00		30 ^s	
5	COMP			↓	15 ^s	
6	GD140	11:34:27.8	30:04:35		120 ^s	
7	COMP			↓	15 ^s	
8	Feige 34	10:36:41.1	43:21:50		60 ^s	
9	COMP			↓	15 ^s	
10	NGC 4951	12:08:01	39:41:02		30 ^s	
11	COMP			↓	15 ^s	
12	MK 421	11:01:40.6	38:28:43		5M	
13	COMP			↓	15 ^s	
14	N 4486B	12:28:00	12:45:39		5M	
15	COMP			↓	15 ^s	
16	Feige 67	12:39:18.7	17:47:24		2M	
17	COMP			↓	15 ^s	
18	H 244	13:21:19.1	36:23:38		2M	
19	COMP			↓	15 ^s	
20	N 5548	14:15:43.5	25:22:01.1		5M	
21	COMP			↓	15 ^s	
22	H 243	13:14:00.7	29:21:49		3M	
23	COMP			↓	15 ^s	
24	13334p 7601	13:33:24	76:01:00		8M	
25	COMP			↓	15 ^s	
26	N 5323	13:45:06	77:05:00		8M	
27	COMP			↓	15 ^s	
28	11383p 0505	11:28:18	05:05:00		10M	Repeat another 10 - #29

60 inch Telescope Log

Observer: MuscarellaPI: HachraSpectrograph: FASTGrating: 300Date: 6/5/94Page: 3021

Number	Object	R.A.	Dec.	L/R	Exp	Comments
29	11383p 0525	11:38:18	05:05:00		10M	
30	COMP			↓	15S	
31	N5027	13:10:48	06:20:00		10M	
32	COMP			↓	15S	
33	13112p 0715	13:11:12	07:15:00		10M	
34	COMP			↓	15S	
35	13171p 0317	13:17:06	03:17:00		10M	
36	COMP			↓	15S	
37	15218p 0501	15:21:48	05:01:00		8M	
38	COMP			↓	15S	
39	15099p 0140	15:09:54	01:40:00		10M	Noting to guide on
40	COMP			↓	15S	
41	15191p 0038	15:19:06	00:38:00		10M	
42	COMP			↓	15S	
43	15416p 0456	15:11:48	04:56:00		12M	
44	COMP			↓	15S	
45	15550p 8155	15:55:00	81:55:00		10M	
46	COMP			↓	15S	
47	SN1994Q	46:48:11.6	40:31:01		30M	
48	COMP			↓	30S	
49	18400p 7334	18:40:00	73:34:00		20M	TV Noise/Location determined w/ other objects/ Hope for luck
50	COMP			↓	15S	
51	19168p 7240	19:16:48	72:40:00		12M	Stars E+W also on slit
52	COMP			↓	15S	
53	RX17349p 7844	17:34:53.2	78:43:59.9		120S	
54	COMP			↓	15S	
55	RX17471p 7240	17:47:03.7	72:40:12.5		60S	
56	COMP			↓	15S	
57	RX17586p 2208	17:58:37.7	22:08:37.8		30S	
58	COMP			↓	15S	

60 inch Telescope Log

Observer: P. Berlind

PI: J. Huchra

Spectrograph: FAST

Grating: 300L, 3"

Date: 6/6/94

Page: 3023

Number	Object	R.A.	Dec.	L/R	Exp	Comments
H10	B7AS				0s	
11-20	FLAT				0.1s	
21	N4151	12:08:01	+39:41:02	6	5m	AGN
22	COMP			↑		clear skies
23	F67	12:39:18.9	+17:47:24	0/6	2m	
24	COMP			↑		
25	F34	10:36:41.2	+43:21:50	16/7	2m	5" slit
26	COMP			↑		
27	PG0953p414	09:53:48.3	+41:29:58	16	15m	sec z = 1.4
28	COMP			↑		
29	F34	10:36:41.2	+43:21:50	16	2m	sec z = 1.3
30	COMP			↑		
31	H241	13:21:19	+36:23:39	16/7	2m	sec z = 1.01
32	COMP			↑		
33	Q1206p459	12:06:36.6	+45:57:17	7	15m	sec z = 1.11
34	COMP			↑		
35	M421	11:01:40.6	+38:28:43	1	5m	for Trevor Weekes
36	COMP			↑		
37	PG1309p355	13:09:58.5	+35:21:15	16	15m	sec z = 1.05
38	COMP			↑		
39	H241	13:21:19	+36:23:39	16	2m	1.08
40	COMP			↑		
41	Q1322p659	13:22:08.5	+65:57:24	16	15m	
42	COMP			↑		
43	Q1322p659	"	"	16	15m	sec z = 1.28
44	COMP			↑		
45	PG1352p183	13:52:11.5	+18:20:58	16	15m	
46	COMP			↑		delay til jumping off cords
47	PG1352p183	"	"	16	15m	sec z = 1.21
48	COMP			↑		

M for S/N

60 inch Telescope Log

Observer: P. BerlindPI: J. HuchraSpectrograph: FASTGrating: 3002, 5"Page: 3024Date: 6/6/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
49	H244					$z=1.29$
50	COMP			↑		
51	PG154Sp03S	15:45:54	+03:32:03	16	5m	std $z=1.16$
52	COMP			↑		
53	Q1522p101	15:22:10	+10:09:03	7	15m	
54	COMP			↑		
55	Q1522p101	"	"	7	15m	1.18
56	COMP			↑		
57	PG154Sp03S	15:45:54	+03:32:03	7	5m	1.23
58	COMP			↑		
59	Q161Sp029	16:15:19	+02:54:00.7	7	15m	1.20
60	COMP			↑		
61	Q161Sp029	"	"	7	15m	1.23
62	COMP			↑		
63	Q161Sp029	"	"	7	15m	1.28
64	COMP			↑		
65	Q161Sp029	"	"	7	15m	1.31 - 1.36
66	COMP			↑		
67	PG154Sp03S	15:45:54	+03:32:03	7	5m	1.52
68	COMP			↑		
69	Q1718p181	17:18:17.7	+48:07:12.9	7	15m	1.10
70	COMP			↑		
71	Q1946p77	19:44:54.9	+77:05:52.4	16	15m	1.43 J2000
72	COMP			↑		
73	Q1946p77	"	"	16	15m	1.42
74	COMP			↑		
75	19330p8357	19:33:10	+83:57:10	1	5m	3" slit ↓ FL
76	COMP			↑		
77	RX1722p3042A	17:22:13.3	+30:42:10	1	10m	
78	RX1722p3042B	17:22:13.3	+30:42:10	1	5m	

60 inch Telescope Log

Observer: P. Berlind
 PI: J. Huchra

Spectrograph: FAST

Grating: 3002

Page: 325

Date: 6/6/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
79	COMP			↓		
80	RX17222p2042C	17:22:13.3	+30:42:40	1	5m	
81	RX17222p3012D	17:22:13.3	+30:42:40	1	2m	
82	RX2200p2715A	22:00:41.2	+27:15:23.8	1	2m	
83	RX2200p2715B	22:00:41.2	+27:15:23.8	1	5m	
84	RX2200p2715D	22:00:41.2	+27:15:23	1	5m	star w/ galax slit
85	COMP			↑		
86	RX2245p2637	22:45:05	+26:37:58.4	1	2m	
87	COMP			↑		
88	J2243p122	22:43:09.8	+12:22:42	3	5m	H ₂ ^{changed} number 521.055728
89	COMP			↑		
90	BIAS				0s	
91-100	FLAT					5" slit
		91-100 do NOT exist on tape				

60 inch Telescope Log

Observer: P. BerlindPI: J. Huchra / Wikes / KuhnSpectrograph: FASTGrating: 300LDate: 6/7/94Page: 3026

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-10	FLAT				0.1s	bin x 1 5" slit
11-15	BIAS				10s	3" slit ↓ bin x 250s
16	F67	12:39:18.9	+17:47:24	6	2m	
17	COMP			↑		clear skies
18	M4151	12:08:01	+39:41:02	6	5m	
19	COMP			↑		
20	M421	11:01:40.6	+38:28:43	1	5m	for Trevor Weekes
21	COMP			↑		
22	N5548	14:15:43	+25:22:01	6	5m	
23	COMP			↑		
24	HZ44	13:21:49	+36:23:39	6	2m	
25	COMP			↑		cont USB - contamination
26	HZ44	"	"	16	2m	5" slit ↓ sec2=1.00
27	COMP			↑		
28	PG1402p261	14:02:58.8	+26:09:57.6	16	15m	1.01
29	COMP			↑		nice night!
30	PG1411p442	14:11:50.1	+44:14:12	16	15m	1.03
31	COMP			↑		
32	PG1545p035	15:45:53.9	+03:32:03	16	5m	std 1.25
33	COMP			↑		
34	HZ44	13:21:49	+36:23:39	16	2m	1.02
35	COMP			↑		
36	LBQ S1430m041	14:30:46.97	-0:46:36.1	7	15m	1.18
37	COMP			↑		
38	LBQ S1430m041	"	"	7	15m	1.19
39	COMP			↑		
40	LBQ S1430m046	14:30:09.92	-0:46:04.4	7	15m	1.20
41	COMP			↑		gal on slit W of QSD
42	LBQ S1430m046	"	"	7	15m	1.23
43	COMP			↑		

60 inch Telescope Log

Observer: P. Ber InclPI: J. Huchra/Wilkes/KuhnSpectrograph: FASTGrating: 3022 5" slitPage: 3027Date: 6/7/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
44	PG1545p035	15:45:53	+03:32:03	16/7	5m	std 1.13
45	COMP			↑		
46	HZ44	13:21:49	+36:23:39	16/7	2m	std 1.15
47	COMP			↑		
→ 48	Q1510m089	15:10:08.9	-08:54:47.2	16	15m	* looks like a 1.35
49	COMP			↑		cluster of objects here
→ 50	Q1510m089	"	"	16	15m	* 1.39
51	COMP			↑		
52	PG1512p370	15:12:46.87	+37:01:55.2	16	15m	1.04
53	COMP			↑		
54	PG1545p035	15:45:53	+03:32:03	16/7	5m	std 1.17
55	COMP			↑		
56	HZ44	13:21:49	+36:23:39	16/7	2m	std 1.37
57	COMP			↑		
58	PG1543p489	15:43:59.8	+48:55:30	16	15m	1.08
59	COMP			↑		
60	PG1626p554	16:26:51.5	+55:29:05	16	15m	1.11
61	COMP			↑		
62	HZ44	13:21:49	+36:23:39	16	2m	std 1.59
63	COMP			↑		
64	PG1545p035	15:45:53	+03:32:03	16	5m	std 1.27
65	COMP			↑		
66	COMP			test		1.5" slit ↓; 600 l grating
67-68	eB00	14:51:23	+19:06:10	20	1m/30s	centered 4400f
69-70	COMP					
71	gan Boo	14:32:05	+38:19:10	20	5s	
72	COMP			↑		
73	1 Ser	15:46:26	+07:21:10	20	5s	
74	COMP			↑		
75-76	gan Her	16:21:56	+19:09:10	20	4/25	

Why no FLATS for 600 l grating
 9 mm

60 inch Telescope Log

Observer: P. BerlindPI: C. ProsserSpectrograph: FASTGrating: 6002, 1.1" slitPage: 3028Date: 6/7/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
77	COMP			↑		
78-79	K0ph	1		20	2s	
80	COMP			↑		
81-83	84 Her	17:43:21	+24:19:00	20 ₂₀	15s/30s	
84	COMP			↑	45s	
85-7	+ Dra	18:21:04	+72:44:00	20	5/2	
88-9	COMP			↑	45s	
91-93	sig Dra	19:32:21	+68:39:00	20	2/6s	
94	COMP			↑	45s	
95-96	16 Cyg B	19:41:52	+50:31:00		20s	
97	COMP			↑		
98-99	16 Cyg A	19:41:48	+50:32:00	20	20s	
100	COMP			↑	45s	
101	K65	17:46:18.8	+05:56:08	20	10m	
102	COMP			↑	45s	
103	K38	17:44:54.4	+05:25:14	20	10m	
104	COMP			↑	45s	
105	K88	17:47:21.1	05:35:59	20	10m	
106	COMP			↑	45s	
107	P107	17:46:24.6	+05:17:22	20	10m	
108	COMP			↑		
109	P150	17:47:32.3	+05:31:47	20	5m	t.l. drifting in δ 3002; 3" slit
110-11	J2242 p122	22:42:47.0	+12:22:24	3	5m	appears to be bad spot
112	COMP			↑		on warm try another
113-14	J2243 p125	22:40:38.9	11:59:27	3	5m	part of sky
115	COMP					
116-125	BIAS				0s	
126-135	FLAT				0.1s	

136-145 FLAT

(145 files on tape)

CANNOT extract # 34
#s 30-32, 35

garbage

60 inch Telescope Log

Observer: P. Berlind

PI: J. Huchra

Spectrograph: FABT

Grating: 3002; 3"

Date: 6/8/94

Page: 3029

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-10	BIAS					clear skies
11-20	FLAT					
21	HZ44	13:21:19	+26:23:39	6	2m	
22	COMP			9		
23	N4151	12:08:01	+39:41:02	6	5m	
24	COMP			↑		
25	M421	11:01:40.6	+38:28:43	1/6	5m	For Trevor Weekes
26	COMP			↑		
27	12405m0009	12:40:30	-00:09:00	5	5m	3C273
28	12419m0010	12:41:54	-00:10:00	5	5m	H _α
29	COMP			↑		
30-32	12325p0542	12:32:30	+0542:00	5	5m	CRA P !!
33	COMP			↑		
34	12309p0404	12:30:54	+0404:00	5	5m	Why not go on?
35	12444m0117	12:44:24	-01:17:00	5	5m	3 needs more longer? can't see w/TV
36	12530m0037	12:53:00	-00:37:00	5	5m	H _α
37	COMP			↑		
38	12557p0348	12:55:42	+03:48:00	5	5m	TV really bad where bad file other than this one?
39	COMP			↑		
40	12574p0720	12:57:24	+07:20:00	5	5m	seeing 2-3"
41	12571p0719	12:57:06	+07:19:00	5	5m	H _α CAN'T see some of
42	12584p0719	12:58:24	+07:19:00	5	5m	H _α not enough counts!!
43	COMP			9		
44, 46, 48	Q1510m089	15:10:08.9	-08:54:47.2	16	20m	1.5" slit ↓ QSO
45, 47, 49	COMP			↑	30s	
50, 52	PG1626p554	16:26:51.5	+55:29:05	16	15m	
51, 53	COMP			↑		
54	15296p0738	15:29:36	+07:38:00	1	5m	3" slit ↓ H _α
55	COMP			↑		
56	15396p02504	15:39:36	+02:50:00	1	5m	H _α

you don't do a 5m exp
on an 18th mag gal !!

60 inch Telescope Log

Observer: P. Berlind

PI: J. Kuchera

Spectrograph: FAST

Grating: 300L, 3" slit

Date: 6/8/94

Page: 3030

Number	Object	R. A.	Dec.	L/R	Exp	Comments
57	15396p0250B	15:39:36	+02:50:00	1	5m	H α
58	COMP			↑		
59	1541Sp0637	15:41:30	+06:37:00	1	5m	H α
60	COMP			↑		
61	J16237p2657	16:23:45	+26:57:27	3	5m	NOTHING should have plate flaw? been purged
62,64	Q1946p77	19:44:54.9	+77:05:52.4	16	20m	2000 1.5" slit QSO
63,65	COMP			↑	30s	
66	NG601	18:11:18	+61:26:00	1	5m	3" slit ↓
67	BIAS				0s	
68	COMP			↓		
69	NG607	18:11:42	+61:19:00	1	5m	H α → check cards
70	COMP			↑		
71	NG608	18:11:42	+61:19:00	1	5m	
72	COMP			↑		
73-74	NG617	18:13:30	+61:18:00	1	5m	H α
75	COMP			↑		
76-7	1811Sp6842	18:11:30	+68:42:00	1	5m	H α
78	COMP			↑		
79-80	J2242p1223	22:42:56	+12:23:39	3	5m	
81	COMP			↑		
82-83	J2243p1225	22:43:25.07	+12:25:26	3	5m	
84	COMP			↑		
85-87	J2243p1203	22:43:46.6	+12:03:33	3	5m	
88	COMP			↑		
89	J2244p1230	22:44:12.05	+12:30:16	3	5m	H α
90	COMP			↑		
91-92	J2244p1212	22:44:34.53	+12:12:33	3	5m	interesting emission H α
93-10	COMP			↑		feature ~7100Å
94-103	FLAT			16	0.2s	1.5" slit
94-112	SKYFLAT			16	60s	5" slit

Could NOT extract
FILES 34, 61
Have only 103 files

The End
underexposed
broad H α

60 inch Telescope Log

Observer: J. Peters

PI: J. Huchra

Spectrograph: Fast

Grating: 300

Page: 3031

Date: 6/9/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1	Comp			↓	15 ^s	Open 9:00 PM Wind
2	HZ43	13 14 00	29 21 49	0	3 ^m	≈ 30 mph
3	Comp			↓	15 ^s	
4	N5548	14 15 43	25 22 01	6	5 ^m	Seeing ≈ 2-3"
5	Comp			↓	15 ^s	
6	J13002 P 2716	13 00 14	27 14 49	3	10 ^m	
7	Comp			↓	15 ^s	
8	J13014 P 3120	13 02 25	31 20 19	3	8 ^m	
9	Comp			↓	15 ^s	
10	J13030 P 3212	13 03 01	32 12 36	3	15 ^m	Trouble with Dec.
11	Comp			↓	15 ^s	T.L would move
12	J13032 P 2722	13 03 13	27 22 07	3	11 ^m	South on its own
13	Comp			↓	15 ^s	But the Encoder
14	BOP40 4032	20 06 40	41 06 15	0	2 ^m	would not show
15	Comp			↓	15 ^s	any movement.
16	RX1722.2 P 3042	17 22 13	30 42 40	1	15 ^m	Worked on the
17	Comp			↓	15 ^s	Dec cable that
18	RX1723.4 P 5658	17 23 22	56 58 57	1	5 ^m	goes into Rack
19						in Back Room
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

KC

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Page: 3032Date: 6/10/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-15	Bras					Lots Clouds Around
16-30	Flat				0.2 ^s	Broken + Thin
31	Comp			↓	15 ^s	
32	MK 421	11 01 40	38 28 43	↓	5 ^m	Thru Thin Clouds
33	Comp P			↓	15 ^s	
34	Feige 67	12 39 18	17 47 24	0	2 ^m	
35	Comp P			↓	15 ^s	
36	G 0140	11 34 27	30 04 35	0	2 ^m	Thin clouds
37	Comp P			↓	15 ^s	
38	N 4151	12 08 01	39 41 02	6	30 ^s	
39	Comp P			↓	15 ^s	
40	N 4486 B	12 28 00	12 45 59	0	5 ^m	
41	Comp P			↓	15 ^s	
42	H 243	13 14 00	29 21 49	0	3 ^m	
43	Comp P			↓	15 ^s	Clouds Thinning out
44	N 5548	14 15 43	25 22 01	6	5 ^m	
45	Comp P			↓	15 ^s	
46	12554 P 0400	12 55 24	04 00 00	5	15 ^m	NOTHING Last π in Thin clouds
47	Jimsue	13 18 54	-01 54 00		1 ^m	
48	Jimsue	↓	↓		10 ^m	My SN Yes!
49	Comp P			↕	15 ^s	
50	13189 N 0154	13 18 54	-01 54 00	5	15 ^m	
51	Comp P			↓	15 ^s	
52	13207 N 0154	13 20 42	-01 54 00	5	15 ^m	
53	SN 1994S	12 28 48	29 26 00	↓	1 ^m	
54	Comp P	↓	↓	↕	15 ^s	
55	SN 1994S	↓	↓	2	30 ^m	
56	Comp P			↓	15 ^s	
57	H 243	13 14 00	29 21 49	0	3 ^m	
58	Comp P			↓	15 ^s	

60 inch Telescope Log

Observer: J. PetersPI: J. HuckraSpectrograph: FastGrating: 300Page: 3033Date: 6/10/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
59	17491P5938	17 49 06	59 38 00	1	15 ^m	Looks like whale
60	Comp P			↓	15 ^s	Bunch of stuff in slit
61	17491P6023	17 49 06	60 23 00	1	10 ^m	
62	Comp P			↓	15 ^s	
63	17497P5949	17 49 42	59 49 00	1	5 ^m	
64	Comp P			↓	15 ^s	
65	17514P6228	17 51 24	62 28 00	1	10 ^m	
66	Comp P			↓	15 ^s	
67	17515P6037	17 51 30	60 37 00	1	15 ^m	
68	Comp P			↓	15 ^s	
69	17523P5805	17 52 18	58 05 00	1	10 ^m	
70	Comp P			↓	15 ^s	
71	17557P6221	17 55 42	62 21 00	1	15 ^m	T.V has been full
72	Comp P			↓	15 ^s	of lines. Obj hard
73	17564P6207	17 56 24	62 07 00	1	15 ^m	To see.
74	Comp P			↓	15 ^s	
75	17593P6246	17 59 18	62 46 00	1	15 ^m	
76	Comp P			↓	15 ^s	
77	18048P6042	18 04 48	60 42 00	1	15 ^m	
78	Comp P			↓	15 ^s	
79	18090P5822	18 09 00	58 22 00	1	15 ^m	
80	Comp P			↓	15 ^s	
81	BDP 40 4032	20 06 40	41 06 15	0	2 ^m	
82						
83						
84						
85						
86						
87						
88						

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Page: 3034Date: 6/11/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-15	Bias			↓		Broken Clouds
16-30	Flat			↓	.2	some ⚡ To East
31	Comp			↓	15 ^s	
32	EG 99	13 27 39	-08 18 40	0	10 ^m	
33	Comp			↓	15 ^s	
34	SN1994T	13 18 54	-01 54 00	2	30 ^m	
35	Comp			↓	15 ^s	
36	MK421	11 01 40	38 28 43	?	5 ^m	Some Clouds
37	Comp			↓	15 ^s	
38	GD 140	11 34 27	30 04 35	0	2 ^m	
39	Comp			↓	15 ^s	
40	N4151	12 08 01	39 41 02	6	30 ^s	
41	Comp			↓	15 ^s	
42	N4486B	12 28 00	12 45 59	0	5 ^m	
43	Comp			↓	15 ^s	
44	Feige 67	12 39 18	17 47 24	0	2 ^m	
45	Comp			↓	15 ^s	
46	H2 43	13 14 00	29 21 49	0	3 ^m	
47	Comp			↓	15 ^s	
48	N5548	14 15 43	25 22 01	6	5 ^m	
49	Comp			↓	15 ^s	
50	13015 P0508	13 01 30	05 08 00	5	15 ^m	Thin Clouds Around.
51	Comp			↓	15 ^s	
52	13066 P0607	13 06 36	06 07 00	5	15 ^m	
53	Comp			↓	15 ^s	
54	13068 P0746	13 06 48	07 46 00	5	15 ^m	
55	Comp			↓	15 ^s	
56	13110 P0709	13 11 00	07 09 00	5	15 ^m	Clouds!
57	Comp			↓	15 ^s	
58	17565 P6235	17 56 30	62 35 00	1	2 ^m	ITs a STAR

flats are saturated
used from
6/12/94

14646

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FastGrating: 300Page: 3035Date: 6/11/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments	
59	Comp			↓	15 ^s	ITS hard To See THRU The LINES ON The TV.	
60	NG521	17 56 30	62 35 00	1	15 ^m		
61	Comp			↓	15 ^s		
62	18040 P 6013	18 04 00	60 13 00	1	15 ^m		
63	Comp			↓	15 ^s		
64	NG597	18 10 42	61 10 00	1	10 ^m		
65	Comp			↓	15 ^s		
66	18152 P 6215	18 15 12	62 15 00	1	15 ^m		
67	Comp			↓	15 ^s		
68	18208 P 6051	18 20 48	60 51 00	1	15 ^m		
69	Comp			↓	15 ^s		
70	18248 P 6028	18 24 48	60 28 00	1	10 ^m	↓	
71	Comp			↓	15 ^s		
72	18567 P 6022	18 56 42	60 22 00	1	10 ^m		
73	Comp			↓	15 ^s		
74	18232 P 6215	18 23 12	62 15 00	1	2 ^m		STAR? <i>W</i>
75	Comp			↓	15 ^s		
76	18231 P 6214	18 23 06	62 14 00	1	10 ^m		
77	Comp			↓	15 ^s		
78	17527 P 5823	17 52 42	58 23 00	1	15 ^m		
79	17527 P 5823	↓	↓	1	15 ^m		
80	Comp			↓	15 ^s		
81	17469 P 5926	17 46 54	59 26 00	1	10 ^m		
82	Comp			↓	15 ^s		
83	BD P 40 4032	20 06 40	41 06 15	0	2 ^m		
84							
85							
86							
87							
88							

60 inch Telescope Log

Observer: P. BerlindPI: J. HuchraSpectrograph.: FASTGrating: 300L; 3" slitPage: 3036Date: 6/12/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
110	BIAS				0s	clouds to east
11-20	FLAT				0.1s	
21-26	DARK				5m	clouds moving toward west
27	13019p0811	13:01:54	+08:11:W	5	5m	seeing rough 2-3"
28	13020p0814	13:02:W	+08:04:W	5	5m	
29	COMP			↑		36273 ↓
30	13020p0815	13:02:W	+08:15:W	5	5m	
31	13022p0814	13:02:12	+08:14:W	5	5m	
32	COMP			↓		pattern on chip /
33	13022p0814	"	"	5	5m	H _α clearing
34	M421	11:01:406	+38:28:45	6	5m	
35	COMP			↑		
36	SN1994T	13:18:56.2	-01:53:15	2	10m	courtesy Dr. J. Peters
37	COMP			↑		
38	13044p0500	13:04:24	+05:W:W	5	5m	star W of gal on slit H _α
39	COMP			↑		
40	13109p0818	13:10:54	+08:18:W	5	5m	H _α
41	COMP			↑		
42	13072p0629	13:07:12	+06:29:W	5	5m	H _α
43	13072p0645	13:07:12	+06:45:W	5	5m	H _α
44	13079p0636D	13:07:54	+06:36W	5	5m	this object came up H _α
45	13079p0636C	13:07:54	+06:36W	5	5m	H _α see chart
46	COMP			↑		
47-48	13132m0011	13:13:12	-0:11:W	5	5m	
49	COMP			↑		seeing still poor
50	13147p0756	13:14:42	+07:56:W	5	5m	H _α
51	13142p0757E	13:14:12	+07:57:W	5	5m	east camp
52	13142p0757W	13:14:12	+07:57W	5	5m	
53	13148p0739	13:14:48	+07:39:W	5	5m	H _α
54	COMP			↑		

60 inch Telescope Log

Observer: P. BerlinPI: J. HuchraSpectrograph: FASTGrating: 300LDate: 6/12/94Page: 3037

Number	Object	R. A.	Dec.	L/R	Exp	Comments
55-56	13146p00477	13:14:36	+00:47:00	S	Sm	
57	13156p0029	13:15:36	+00:29:00	S	Sm	H α
58	COMP			↑		
59	13151p00445	13:15:06	+00:45:00	S	Sm	H α
60	COMP			↑		
61	13161p00205	13:16:06	+00:05:00	S	Sm	
62	13164p00204	13:16:24	+00:04:00	S	Sm	
63	COMP			↑		
64	13299p00351	13:29:54	+03:51:00	S	Sm	H α
65	COMP			↑		
66	13299p00503	13:29:54	+05:03:00	S	Sm	H α
67	COMP			↑		
68	I907	13:37:24	+51:19:00	I	3m	U 08643
69	COMP			↑		
70	NS294	13:43:24	+55:32:00	I	Sm	H α
71	COMP			↑		
72	U8707	13:44:12	+55:58:00	I	Sm	
73	13454p5549	13:45:24	+55:49:00	I	Sm	H α
74	COMP			↑		
75	13464p5503	13:46:24	+55:03:00	I	Sm	H α
76	COMP			↑		
77	13581p5501	13:58:01	+55:01:00	I	Sm	H α
78	COMP			↑		nice night out
79	16455p6240	16:45:30	+62:40:00	I	Sm	H α
80	COMP			↑		
81	17018p6114	17:01:48	+61:14:00	I	Sm	H α
82	17023p6026	17:02:18	+60:26:00	I	Sm	H α
83	COMP			↑		
84	N6299	17:04:36	+62:34:00	I	2m	
85	COMP			↑		

60 inch Telescope Log

Observer: P. BerlindPI: J. HuchraSpectrograph: FASTGrating: 3002; 3" slitPage: 3038Date: 6/12/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
86	I1248	17:11:00	+60:03:00	1	5m	U 10756
87	COMP			↑		
88	17154 p6125	17:15:24	+61:25:00	1	5m	H _α
89	COMP			↑		
90	17179 p6038	17:17:54	+60:38:00	1	5m	
91	N6361	17:18:03.4	+60:39:33	1		U 10815 Apr 124
92	COMP			↑		
93-4	U10818	17:19:12	+61:22:00	1	5m	H _α
95	COMP			↑		
96	17220 p5955	17:22:00	+59:55:00	1	5m	
97	17220 p6004	17:22:00	+60:04:00	1	5m	H _α
98	17247 p6004	17:24:42	+60:04:00	1	3m	
99	COMP			↑		
100	U10858	17:25:00	+59:30:00	1	5m	H _α dual
101	U10859	17:25:01	+59:40:00	1	5m	H _α
102	COMP			↑		
103	17257 p5839	17:25:42	+58:39:00	1	5m	H _α
104	COMP			↑		
105-106	U10872	17:26:42	+61:14:00	1	5m	weak 690
107	COMP			↑		
108	17273 p6009	17:27:18	+60:09:00	1	5m	
109	17284 p6009	17:28:24	+60:07:00	1	5m	*Star to W of gal on slit
110	N6390	17:27:49.8	+60:08:01	1	5m	U10881 H _α
111	COMP			↑		
112-13	U10882	17:28:00	+58:35:00	1	5m	H _α 6683
114	COMP			↑		
115	17292 p5827	17:29:12	+58:27:00	1	5m	
116	COMP			↑		
117	17306 p5932	17:30:48	+59:32:00	1	5m	H _α
118	U10895	17:31:12	+59:30:00	1	5m	H _α

60 inch Telescope Log

Observer: P. Berlin

PI: J. Huchra

Spectrograph: FAST

Grating: 300L, 3"

Date: 6/12/94

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
119	COMP			↑		
120-121	J2243p1286	22:43:19.33	+12:56:07	3	5m	needs more
122	COMP			↑		6742
123	J2244p1231	22:44:19.63	+12:31:03	3	5m	cats H α
124	COMP			↑		
125-6	J2244p1217	22:44:30.95	H2:17.6	3	5m	
127	COMP			↑		
128	J2244p1248	22:44:42.36	+12:48:08	3	5m	
129	COMP			↑		
130	J2244p1223	22:44:54.6	H2:23:50	3	5m	
131-32	J2245p1150	22:45:00.3	+11:50:28	3	5m	
133	COMP			↑		
134-35	J2245p1218	22:45:51.73	+12:18:56	3	5m	H α
136	COMP			↑		
137-141	BIAS				0s	

60 inch Telescope Log

Observer: P. BerlindPI: J. HuchraSpectrograph: FASTGrating: 300LPage: 3040Date: 6/13/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1	henar					focus test
2-6	DARK				10m	clouds to west
7-11	BTAS				0s	dome warm - 75° F
12-16	FLAT				0.1s	focus change to 850
17	M421	11:01:40.6	+38:28:43	6	5m	from earlier test
18	COMP			↑		
19	11411m0121	11:41:06	-01:21:6	5	5m	H _α
20	COMP			↑		
21	11414p0042	11:41:16	+00:42:6	5	5m	H _α
22	COMP			↑		
23	11418m0254	11:41:48	-02:54:6	5	5m	
24	COMP			↑		
25	11418p0746	11:41:48	+07:46:6	5	5m	H _α
26,28	11421p0733	11:42:06	+07:33:6	5	5m	x2 H _α
27	COMP			↑		seeing bad - 2-3"
29	11421p0814	11:42:06	+08:14:6	5	5m	H _α
30	COMP			↑		
31	11449m0245	11:44:51	-02:45:6	5	5m	H _α
32	COMP			↑		
33	12292m0044	12:29:12	-00:44:6	5	5m	junk; try w/ better tv
34	12508m0009S	12:50:48	-00:09:6	5	5m	south comp of triple th
35-36	12508m0009M	12:50:48	-00:09:6	5	5m	weird noise pattern #36
37	COMP			↑		
38-39	12544m0255	12:54:24	-02:55:6	5	5m	H _α
40	COMP			↑		
41-42	12554p0460	12:55:24	+04:60:6	5	5m	weak
43	COMP			↑		
44	13000p0036E	13:00:00	+00:36:6	5	5m	
45	13000p0036W	13:00:00	+00:36:6	5	5m	
46	COMP			↑		

60 inch Telescope Log

Observer: P. BerlindPI: J. HuchraSpectrograph: FASTGrating: 302Date: 6/13/94Page: 3041

Number	Object	R. A.	Dec.	L/R	Exp	Comments
47	13002 POSS	13:00:12	+07:55:00	S	Sm	tv is really, really bad
48	COMP			↑		
49	13004 p0757	13:00:24	+07:57:00	S	Sm	H α , gal to E on slit H α too
50	13005 p0807	13:00:30	+08:07:00	S	Sm	
51	13010 p0814	13:01:00	+08:14:00	S	Sm	H α
52	COMP			↑		
53	13008 p0717	13:00:48	+07:17:00	S	Sm	
54	COMP			↑		
55	13013 p0828	13:01:18	+08:28:00	S	Sm	H α
56	COMP			↑		
57	13180 p0748	13:18:00	+07:48:00	S	Sm	
58	COMP			↑		
59	13217 p0731E	13:21:42	+07:31:00	S	Sm	H α
60	COMP			↑		
61	13248 POSS	13:24:48	+05:54:00	S	Sm	H α
62	COMP			↑		
63	13786 p0752	13:78:36	+07:57:00	S	Sm	
64	COMP			↑		
65	14597 p0713	14:59:42	+02:13:00	I	Sm	H α
66	COMP			↑		
67	1509744	15:09:24	+01:58:00	I	Sm	
68	15089 p0146	15:08:54	+01:46:00	I	Sm	H α
69	COMP			↑		
70	15090 p0157S	15:09:00	+01:57:00	I	Sm	South camp
71	15090 p0157N	15:09:00	+01:57:00	I	Sm	
72	COMP			↑		
73	15101 p0207	15:10:06	+02:07:00	I	Sm	H α
74	COMP			↑		
75	15099 p0140	15:09:54	+01:40:00	I	Sm	H α
76	15100 p0141	15:10:00	+01:41:00	I	Sm	H α

60 inch Telescope Log

Observer: P. BerlindPI: J. HuchraSpectrograph: FASTGrating: 300LDate: 6/13/94Page: 3042

Number	Object	R.A.	Dec.	L/R	Exp	Comments
77	COMP			↑		thin clouds around
78	15102p0138	15:10:12	+01:38:W	1	5m	
79	COMP			↑		
80	15149p0111	15:14:54	+01:11:W	1	5m	
81	COMP			↑		
82	15258p0002	15:25:48	+01:02:W	1	5m	H _α
83	COMP			↑		
84	15267p053	15:26:42	+01:53:W	1	5m	H _α
85	COMP			↑		
86	16104p0611NE	16:10:24	+06:11:W	1	5m	
87-88	16104p0611SW	16:10:24	+06:11:W	1	5m	H _α
89	COMP			↑		1969 pix
90-91	U1074S	17:09:24	+61:28:W	1	5m	x2 check coords 7339 H _α
92	COMP			↑		a real screamer!
93	N6488	17:48:54	+62:14:W	1	3m	↑ V=33,625 Km/sec
94	COMP			↑		
95	U111002	17:47:54	+58:26:W	1	5m	star on slit to W of gal
96	COMP			↑		
97	17340ps859	17:34:W	+58:59:W	1	5m	
98	COMP			↑		
99-100	U10931	17:36:36	+60:28:W	↑	5m	H _α
101	COMP			↑		
102	17391ps919	17:39:06	+59:19:W	1	3m	
103	COMP			↑		
104	17404p6237	17:40:24	+62:37:W	1	5m	H _α
105	COMP			↑		
106-7	U10982	17:45:12	+59:22:W	1	5m	
108	COMP			↑		
109	N6464	17:45:12	+60:55:W	1	5m	H _α
110	COMP			↑		

60 inch Telescope Log

Observer: P. Berlind

PI: J. Huchra

Spectrograph: FAST

Grating: 300L

Date: 6/13/94

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
110	17458ps840	17:45:48	+58:40:00	1	5m	
111	COMP			↑		
112	17467pb119	17:46:42	+61:19:00	1	5m	
113	COMP			↑		
114	17466pb44	17:48:36	+61:41:00	1	5m	H α
115-116	U11007	17:49:24	+61:57:00	1	5m	H α
117	COMP			↑		
118	N6491	17:49:51.7	+61:32:40	1	5m	Hα U11008 reports - both
119, 120	N6493	17:49:52	+61:34:14	1	5m	U11011 had = v in 2cat
121	COMP			↑		2 H α
122	J2250p1230	22:50:03.94	+12:30:45	1	5m	
123	COMP			↑		
124	J2247p1226	22:47:58.9	+12:26:19	1	5m	needs more twilight
125	COMP			↑		
126	BDP404032	20:06:40	+41:06:15	0	2m	
127	COMP					
128-135	COMP	focus	test		15s	750-925 x 25 759 $\frac{5}{2}$ cd
136-140	BIAS					60°F, 62% RH

6690

750
75
80
825
650
875

60 Inch Telescope Log

Observer: P. BerlindPI: J. HuchraSpectrograph: FASTGrating: 300L, 3" slitPage: 3044Date: 6/14/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-5	BIAS				0s	
6-10	FLAT				0.1s	clear skies
11	HZ43	13:14:00	+29:21:49	6	2m	bright moon
12	COMP			↑		
13	N5548	14:15:43	+25:22:01	6	5m	
14	COMP			↑		
15	V1151	17:08:01	+31:41:07	6	5m	
16	COMP			↑		
17	M421	11:01:40.6	+38:15:43	6	5m	1.25
18	COMP			↑		
19-20	13161pos86	13:16:06	+08:16:00	5	5m	
21	COMP			↑		
22	13029p0754S	13:02:54	+07:54:00	5	5m	seeing 2-3"
23	13029p0754N	13:02:54	+07:54:00	5	5m	
24	COMP			↑		
25	13098m0231	13:09:48	-02:31:00	5	5m	Hd
26	COMP			↑		
27	13167p0411	13:16:42	+04:11:00	5	5m	Hd
28	COMP			↑		
29	13211p0137	13:21:06	+01:37:00	5	5m	Hd
30	COMP			↑		
31-32	13240m0300	13:24:00	-03:00:00	5	5m	Hd
33	COMP			↑		
34	13259p0008	13:25:54	+0:08:00	5	5m	Hd
35	13265p0012	13:26:30	+0:12:00	5	5m	Hd
36	13272m0002	13:27:12	-0:02:00	5	5m	U8481 Hd
37	COMP			↑		
38-39	13267p0058	13:26:42	+0:58:00	5	5m	Hd
40	COMP			↑		
41-42	N5202	13:29:00	-01:46:00	5	5m	

60 inch Telescope Log

Observer: P. BerlindPI: J. HuchraSpectrograph: FASTGrating: 3000Date: 6/14/94Page: 3045

Number	Object	R.A.	Dec.	L/R	Exp	Comments
43	13290m0146	13:29:00	-01:46:00	S	Sm	H _α
44	COMP			↑		
45	13293m0214	13:29:18	-02:14:00	S	Sm	H _α
46	13296m0230	13:29:36	-02:30:00	S	Sm	H _α
47	13298m0214	13:29:48	-02:14:00	S	Sm	H _α
48	COMP			↑		
49	14201p0624	14:20:06	+06:14:00	I	Sm	H _α
50	14204p0624	14:20:24	+06:24:00	I	Sm	
51	14206p0623	14:20:36	+06:23:00	I	Sm	
52	COMP			↑		
53	14234p0305	14:23:24	+03:05:00	I	Sm	H _α
54	14240p0258	14:24:00	+02:58:00	I	Sm	H _α
55	COMP			↑		
56	14248p0302E	14:24:48	+03:02:00	I	Sm	H _α
57	14248p0302W	14:24:48	+03:02:00	I	Sm	tu noise problems
58	COMP			↑		
59	14253p0507	14:25:18	+05:07:00	I	Sm	H _α
60	14258p0457	14:25:48	+04:57:00	I	Sm	H _α
61	14258p0516	14:25:48	+05:16:00	I	Sm	H _α
62	COMP			↑		
63	14310p0251	14:31:00	+02:51:00	I	Sm	
64	COMP			↑		
65-66	14180p0203	14:28:00	+02:03:00	I	Sm	H _α
67	COMP			↑		
68	16319p6950	16:31:54	+69:50:00	I	Sm	
69	COMP			↑		
70-71	U10452	16:32:24	+67:52:00	I	Sm	H _α
72	COMP			↑		
73	U10476	16:35:36	+68:37:00	I	Sm	
74	U10478	16:35:48	+68:31:00	I	Sm	H _α noise pattern on chip

60 inch Telescope Log

Observer: P. BerlindPI: J. FluckigSpectrograph: FASTGrating: 302Date: 6/14/54Page: 3046

Number	Object	R. A.	Dec.	L/R	Exp	Comments
75	COMP			g		
76	16360 p6607	16:36:00	+66:07:00	1	Sm	
77	COMP			↑		seeing blowing up
78	16401 p7218	16:40:06	+72:18:00	1	Sm	
79	COMP			↑		
80	U10519	16:40:42	+65:52:00	1	Sm	Hk
81	COMP			↑		
82	U10551	16:45:30	+65:55:00	1	Sm	
83	16460 p6330	16:46:00	+65:30:00	1	4m	t.l. drifting in δ! Hk
84	COMP			g		tightened cables
85	16459 p6537	16:45:54	+65:37:00	1	Sm	OK for now...
86	16463 p6538	16:46:08	+65:38:00	1	Sm	
87	COMP			g		
88	U10954	17:41:12	+74:03:00	1	Sm	Hk
89	COMP			↑		
90, 91	U10958	17:41:48	+66:53:00	1	Sm	1989 6684 660
92	COMP			↑		
93	17435 p6846	17:43:30	+68:46:00	1	Sm	Hk
94	COMP			g		
95	17448 p6634	17:44:48	+66:34:00	1	3m	t.l. of all screwed up
96	COMP			↑		drifting, losing cards
97	17448 p6634	17:44:48	+66:34:00	1	Sm	try this again
98	COMP			g		
99	17454 p6447	17:45:24	+64:47:00	1	Sm	
100	COMP			↑		
101	17494 p6721	17:49:24	+67:21:00	1	Sm	Hk
102	COMP			↑		
103	17532 p6411	17:53:12	+64:11:00	1	Sm	Hk
104	COMP			↑		
105	17546 p6425	17:54:36	+64:25:00	1	Sm	

60 inch Telescope Log

Observer: J. PetersPI: J. HucleraSpectrograph: FASTGrating: 300Page: 3048Date: 6/15/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-15	Bias					
16-30	Flat				. 2	
31	Comp			↓	15 ^s	
32	GD140	11 34 27	30 04 35	0	2 ^m	
33	Comp			↓	15 ^s	
34	N4151	12 08 01	39 41 02	6	30 ^s	
35	Comp			↓	15 ^s	
36	N4486B	12 28 00	12 45 59	0	5 ^m	
37	Comp			↓	15 ^s	
38	large 67	12 39 18	17 47 24	0	2 ^m	
39	Comp			↓	15 ^s	
40	H243	13 14 00	29 21 49	0	3 ^m	
41	Comp			↓	15 ^s	
42	N5548	14 15 43	25 22 01	6	5 ^m	
43	Comp			↓	15 ^s	
44	EG99	13 27 39	-08 18 40	0	10 ^m	
45	Comp			↓	15 ^s	
46	SN1994T	13 18 56	-01 37 31	2	30 ^m	GETTING HARD TO SEE
47	Comp			↓	15 ^s	
48	SN1994S	12 28 48	29 26 00	2	20 ^m	TV full of lines
49	Comp			↓	15 ^s	Now.
50	N6260	16 51 24	63 47 00	1	15 ^m	Hard To See T.V
51	Comp			↓	15 ^s	Lines.
52	16516P6517	16 51 36	65 17 00	1	15 ^m	
53	Comp			↓	15 ^m	
54	16519P6401	16 51 54	64 01 00	1	15 ^m	
55	Comp			↓	15 ^s	
56	16528P6433	16 52 48	64 33 00	1	15 ^m	STR To West of Obj ^{to main lens only} went
57	Comp			↓	15 ^s	IN SLIT ALSO.
58	16535P7031	16 53 30	70 31 00	1	15 ^m	

60 inch Telescope Log

Observer: J. PetersPI: J. HuchraSpectrograph: FASTGrating: 300Page: 3049Date: 6/15/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
59	Comp			↓	15 ^s	Lou Boyd worked on
60	17032P6413	17 03 12	64 13 00	1	15 ^m	The Dec connector
61	Comp			↓	15 ^s	on Rack. Sort of
62	17037P7257	17 03 42	72 57 00	1	15 ^m	Fix. Slight
63	Comp			↓	15 ^s	
64	17113P6941	17 11 18	69 41 00	1	15 ^m	
65	Comp			↓	15 ^s	Using Perry method
66	17120P7340	17 12 00	73 40 00	1	15 ^m	of getting lines out
67	Comp			↓	15 ^s	of TV. Works nice
68	17129P7239	17 12 54	72 39 00	1	15 ^m	obj blends in with
69	Comp			↓	15 ^s	Back ground at
70	NG248	17 17 06	69 28 00	1	15 ^m	Times.
71	Comp			↓	15 ^s	(Well some lines
72	17228P6358	17 22 48	63 58 00	1	15 ^m	Come Back)
73	Comp			↓	15 ^s	Well Perry system
74	17252P7212	17 25 12	72 12 00	1	15 ^m	Works for awhile
75						T.V full of lines
76						can't see obj at all
77						
78						
79						
80						
81						
82						
83						
84						
85						
86						
87						
88						

60 inch Telescope Log

Observer: J. PetersPI: J. HuckwaSpectrograph: FastGrating: 300Date: 6/16/94Page: 3050

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1-15	Bias			↓		
16-30	FLAT			↓	12	Big Forest Fire at
31	Comp			↓	15 ^s	Mexican Obs in
32	MK421	11 01 40	38 28 43		5M	Mexico Almost at
33	Comp			↓	15 ^s	The T.L. Bld.
34	GD140	11 34 27	30 04 35	○	2M	lots of clouds.
35	Comp			↓	15 ^s	
36	N4151	12 08 01	39 41 02	○	30 ^s	
37	Comp			↓	15 ^s	
38	N4486B	12 28 00	12 45 59	○	5M	
39	Comp			↓	15 ^s	
40	Feige 67	12 39 18	17 47 24	○	2M	
41	Comp			↓	15 ^s	
42	HZ 43	13 14 00	29 21 49	○	3M	Thru clouds.
43	Comp			↓	15 ^s	
44	N5548	14 15 43	25 28 01	○	5M	
45	Comp			↓	15 ^s	57 To East.
46	EG 99	13 27 39	-08 18 40	○	9M	clouded out!
47		1				
48					30 ^s	Thru clouds
49						SN 1994T in clouds
50						SN 1994S in clouds
51						
52						
53						
54						
55						
56						
57						
58						