

BIN x 1
(no filter)

60 inch Telescope Log

Observer: Jim Peters
 PI: J. Huebra

Spectrograph: FAST

Grating: .00

Page: 2753

Date: 2/1/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
1	Bias					Files 1-13 were already here, I have no idea what they are for.
2	Bias					
3	Comp					
4	N5548					
5	Unnamed					
6	Unnamed					
7	FLAT					
8	FLAT					
9	FLAT					
10	FLAT					
11	FLAT					
12	FLAT					
13	FLAT					
14	Bias			↓		Did, Clear, Bias Test For Nelson
15-35	FLAT				.2	
36-76	FLAT				.2	
77-107	FLAT				.2	Files 15-107
108	Comp				20 ^s	
109	Comp			↓	20 ^s	
110	08232 P0320	08 23 12	03 20 00	SS	10 ^m	Clouds ALL Over,
111	Comp			↓	20 ^s	Thin Here. Stopped cloud
112	08209 P0322	08 20 54	03 22 00	SS	10 ^m	
113	08209 P0322	↓	↓	SS	10 ^m	Black Pixels on
114	Comp			↓	20 ^s	TV Guide.
115	09525 P0647	09 52 30	06 47 00	SS	10 ^m	
116	09525 P0647	↓	↓	SS	10 ^m	
117	Comp			↓	20 ^s	
118	09532 P0648	09 53 12	06 48 00	SS	10 ^m	IF E IS STILL a
119	09532 P0648	↓	↓	SS	10	4 LETTER Word !!!
120	Comp			↓	20 ^s	

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60 inch Telescope Log

Observer: Jim PetersPI: J. HuchraSpectrograph: FASTGrating: 300Page: 2754Date: 2/2-3/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
121	09544P0400	09 54 24	04 00 00	SS	10 ^m	
122	09544P0400	↓	↓	SS	10 ^m	
123	COMP			↓	20 ^s	
124	09544P0403	09 54 24	04 03 00	SS	10 ^m	
125	09544P0403	↓	↓	SS	10 ^m	
126	COMP			↓	20 ^s	
127	Feige 34	10 36 41	43 21 50	SS	2 ^m	
128	Feige 34	↓	↓	SS	2 ^m	
129	COMP			↓	20 ^s	
130	09530P0516	09 53 00	05 16 00	SS	10 ^m	
131	09530P0516	↓	↓	SS	10 ^m	
132	COMP			↓	20 ^s	
133	09545P0525	09 54 30	05 25 00	SS	10 ^m	
134	09545P0525	↓	↓	SS	10 ^m	
135	COMP			↓	20 ^s	
136	09548P0821	09 54 48	08 21 00	SS	5 ^m	
137	09548P0821	↓	↓	SS	5 ^m	
138	COMP			↓	20 ^s	
139	09584P0323	09 58 24	03 23 00	SS	10 ^m	
140	09584P0323	↓	↓	SS	10 ^m	
141	COMP			↓	20 ^s	
142	10004P0235	10 00 24	02 35 00	SS	10 ^m	
143	1000P0235	↓	↓	SS	10 ^m	
144	COMP			↓	20 ^s	
145	N4486B	12 28 00	12 45 59	SS	10 ^m	
146	N4486B	↓	↓	SS	10 ^m	
147	COMP			↓	20 ^s	
148	Feige 67 ^{Feige}	12 39 18	17 47 24	SS	2 ^m	John John Clark
149	Feige 67	↓	↓	SS	3 ^m	
150	COMP			↓	20 ^s	

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60 inch Telescope Log

Observer: Jim Purton
 PI: J. Huchra

Spectrograph: FAST

Grating: 308

Page: 2755

Date: 2/2-3/94

Number	Object	R.	Dec.	L/R	Exp	Comments
151	HZ 44	13 21 19	36 23 38	SS	3m	Thin Clouds
152	HZ 44	13 21 19	36 23 38	SS	3m	↓
153	COMP			↓	20s	
154	HZ 43	13 14 00	29 21 49	SS	3m	
155	HZ 43	13 14 00	↓	SS	3m	
156	COMP			↓	20s	
157	N5548	14 15 13	25 22 01	SS	5m	
158	N5548	↓	↓	SS	5m	
159-169	Bias					

copy made

FLATS SAT

60 inch Telescope Log

Observer: Jim Peters

PI: J. Huchra

Spectrograph: FAST

Grating: 300

Date: 2/4/94

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Chip Size = $270\frac{1}{2} \times 17\frac{1}{2}$

Number	Object	R.A.	Dec.	L/R	Exp	Comments
2353	COMP				20 ^s	1 ST NIGHT FOR
2354	FLAT				20 ^s	QUICK LOOK
2368	FLAT				20 ^s	
2369	Bias				20 ^s	
2379	FLAT				20 ^s	
2380	COMP			↓	20 ^s	THIN CLOUDS AROUND!
2381	Feige 15	01 46 28	13 18 17	SS	3 ^M	Seeing ≈ 3"
2382	COMP			↓	20 ^s	
2383	Feige 15	01 46 28	13 18 17	SS	1 ^M	Saturated File 2381
2384	COMP			↓	20 ^s	
2385	A0337N1828	03 37 57	-18 28 54	SS	10 ^M	
2388	COMP			↓	20 ^s	
2389	HE 15	04 37 56	08 35 00	SS	1 ^M	THRU CLOUDS
2390	COMP			↓	20 ^s	
2391	EG 247	05 01 31	32 45 52	SS	1 ^M	CLOUDS ALL OVER
2392	COMP	↓	↓	↓	20 ^s	
2393	EG 247	↓	↓	SS	1 ^M	
2394	COMP	↓	↓	↓	20 ^s	
2395	7545P47A1	07 54 30	47 27 00	SS	10 ^M	Made Name of obj
2396	7545P47A2	↓	↓	SS	1 ^M	SHORTER
2397	7545P47A	↓	↓	SS	10 ^M	
2398	COMP			↓	20 ^s	Closed Hum 95%
2399	08114P0332	08 11 24	03 32 00	SS	10 ^M	Open 10:40 PM
2400	08114P0332	↓	↓	SS	10 ^M	
2401	COMP			↓	20 ^s	
2402	08226P0656	08 22 36	06 56	SS	10 ^M	
2403	08226P0656	↓	↓	SS	10 ^M	
2404	COMP			↓	20 ^s	
2405	08178P0444	08 17 48	04 44 00	SS	10 ^M	
2406	08190P0442	08 19 00	04 42 00	SS	10 ^M	
2407	08190P0442	↓	↓	SS	10 ^M	
2408	COMP			↓	20 ^s	

* The FAST Plotting Routine ate the Names. USE This Log Sheet For Names.

NO 2386 or 2387, NO 2410

5 Flats
(ok)

60 inch Telescope Log

Observer: P. Berlind

PI: J Huchra

Spectrograph: FAST

Grating: 3002

Date: 2/5/94

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Number	Object	R. A.	Dec.	Program ID	Exp	Comments
2432	BIAS					
2434-35	COMP					test
2436-45	BIAS					clouds far to SW
2446	COMP			↓	20s	
2447	G191B2B	05:01:31.5	+52:45:52	7	3m	5" slit for Olga's QSOs
2448	G191B2B	"	"		6m	std z=1.12
2449	G191B2B	"	"		3m	
2450-51	Q0232m042	02:32:36.6	-04:15:11	7	15m	z=1.3
2452	COMP			↑		
2453	COMP			↓		
2454-55	G0216p032	02:16:43	+03:13:08	7	3m	z=1.35
2456	G0216p032	"	"		6m	
2457	COMP			↑		seeing 1-2"; photometric
2458	COMP			↓		
2459-61	G191B2B	05:01:31.5	+52:45:52	7	3m	z=1.07
2462	G191B2B	"	"		6m	
2463	COMP			↑		
2464	COMP			↓		
2465	A0732p1423AB	07:32:27.2	+14:23:08	1	10m	5" slit E+W comps
2466-67	G0216p032	02:16:43	+03:13:08	7	6m	z=1.67
2468	COMP			↑		
2469	COMP			↓		
2470-72	NGC1700	04:54:28.1	-04:56:30	0	5m	2" slit std
2473				↓		
2475-77	HD52971	06:57:51.14	+27:13:42	0	15s	
2478	COMP			↓		
2479-80	AGK2p14783	07:17:47.36	+14:59:37.7	0	15s	
2481-83	AGK2p14783	"	"		60s	
2484	COMP			↓		3" slit
2485	08197p0510	08:19:42	+05:10:00	1	10m	H α

12

2465 W
2465 E → reassigned to 4000 E
2509 E
2509 W → reassigned to 4001 W

60 inch Telescope Log

Observer: P. BerlindPI: J. HuchraSpectrograph: FASTGrating: 300LDate: 2/5/94Page: 2759

Number	Object	R. A.	Dec.	L/R	Exp	Comments
2486	COMP			↓		
2487	08222 p0711	08:22:12	+07:11:W	1	10m	H α
2488	COMP			↓		
2489-90	U4872	09:11:48	+39:28:W	1	10m	looks like H α , good luck Susar.
2492	COMP			↓		5" slit
2495-97	F34	10:36:41.2	+43:21:50	7		z=1.25
2498	COMP			↓		2" slit
2499	AGK2p43928	09:49:18	+43:42:00	0	15s	
2500-02	AGK2p43928	"	"		30s	
2503	COMP			↓		3" slit
2504	08235 p0445	08:23:30	+04:45:W	1	10m	H α
2505	08252 p0449	08:25:12	+04:49:W	1	10m	H α - good luck
2507	COMP			↑		
2508	COMP			↓		
2509	08236 p0245EW	08:23:36	+02:45:W	1	10m	E+W comps
2510	COMP			↓		
2511	08252 p0508	08:25:12	+05:08:W	1	5m	
2512	08252 p0449	08:25:12	+04:49:W	1	10m	H α etc?
2513	COMP			↑		
2514	COMP			↓		
2515	08257 p0236	08:25:42	+02:36:W	1	5m	
2516	COMP			↓		5" slit
2517-19	F34	10:36:41.2	+43:21:50	7	3m	z=1.07
2520	COMP			↓		
2521	10014 p0239	10:01:24	+02:39:W	1	5m	5" slit H α
2522	10027 p0244	10:02:42	+02:44:W	1	5m	
2523	COMP			↓		
2524	10030 p0317	10:03:00	+03:17:W	1	10m	H α
2525	COMP			↓		
2526-28	F67	12:39:18.9	+17:47:24	7	3m	z=1.3

60 inch Telescope Log

Observer: P. BerlindPI: J. HuchraSpectrograph: FASTGrating: 300LDate: 2/5/94Page: 2760

Number	Object	R. A.	Dec.	L/R	Exp	Comments
2529	COMP			↓		5" slit is in
2530-32	Q0956p1217	09:56:11.22	+12:17:05.5	7	15m	z=1.07
2533	COMP			↑		seeing 1.2"; decent sky!
2534	COMP			↓		
2535-37	F34	10:36:41.2	+43:21:50	7	3m	z=1.02
2538	COMP			↓		
2539-41	F67	12:39:18.9	+17:47:24	7	3m	z=1.11
2542-44	BIAS			—		looks ok
2545	COMP			↓		
2546-48	LBQS1127p0037	11:27:57	+00:37:07	7	15m	z=1.17
2549	COMP			↑		
2550	COMP			↓		
2551-53	F34	10:36:41.2	+43:21:50	7	3m	z=1.07
2554	COMP			↓		
2555-56	F67	12:39:18.9	+17:47:24	7	3m	z=1.03
2557	COMP			↓		
2558-60	LBQS1210p1324	12:10:59.2	+13:24:10	7	15m	z=1.07
2561	COMP			↑		
2562	COMP			↓		
2563-65	Q1241p176	12:41:41	+17:37:29	7	10m	z=1.05
2566	COMP			↑		
2567	COMP			↓		
2568-69	F67	12:39:18.9	+17:47:24	7	3m	z=1.08
2570	COMP			↓		
2571-72	F34	10:36:41.2	+43:21:50	7	3m	z=1.33
2573	COMP			↓		3" slit
2574	13583p0643	13:58:18	+06:43:10	1	10m	H α
2575	COMP			↓		
2576	13597p0449	13:59:42	+04:49:10	1	5m	
2577	COMP			↓		

60 inch Telescope Log

Observer: J PetersPI: J HutchaceSpectrograph: FastGrating: 300Page: 2763Date: 2/9/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
2650 to 2654	FLAT					← These were in this dir when I started.
2655 to 2669	FLAT			↓	62	
2670 to 2680	Bias			↓		
2682	COMP					
2683	COMP					Late start was getting up by the numbers with IRAF.
2684	COMP					
2685	COMP					
2686	COMP					COMP set to
2687	COMP				10 ^s	10 sec.
2688	COMP			↓	10 ^s	
2689	A0553 A	06 12 41	48 35 44	11	10 ^m	2000. Cards warpfire.
2690	A0553 A	↓	↓	11	10 ^m	
2691	COMP	↓	↓	↓	10 ^s	
2692	A0553 B	↓	↓	11	10 ^m	
2693	A0553 C	↓	↓	11	10 ^m	Seeing ≈ 2-3"
2694	A0553 C	↓	↓	11	10 ^m	
2695	A0553 D	↓	↓	11	10 ^m	
2696	COMP			↓	10 ^s	
2697	AGK2P14	07 17 48	15 01 00	0	2 ^s	STD
2698	COMP			↓	10 ^s	
2699	BDP82015	08 13 01	07 46 28	0	5 ^s	
2700	COMP			↓	10 ^s	
2701	A0592 A	07 42 43	09 22 06	11	10 ^m	Warp fire (2000, cards
2702	A0592 C	07 42 52	09 14 51	11	10 ^m	" " " "
2703	COMP			↓	10 ^s	
2704	0754P1431	07 54 12	14 31 00	6	15 ^m	Shooting Blind.
2705	COMP			↓	10 ^s	
2706	09208P6837	09 20 48	68 37 00	6	15 ^m	Redshift Survey
2707	COMP			↓	10 ^s	
2708	AGKP44	09 49 18	43 42 00	0	3 ^s	STD

3" SLIT used on warpfire

60 inch Telescope Log

Observer: Jim PetersPI: J. AuckhaSpectrograph: FASTGrating: 300Page: 2764Date: 2/9/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
2709	COMP			0 ↓	10 ^s	Thin clouds ?
2710	10061 P5842	10 06 06	58 42 00	6	15 ^M	
2711	COMP			0 ↓	10 ^s	
2712	10212 P5739	10 21 12	57 39 00	6	15 ^M	
2713	COMP			0	10 ^s	Thin clouds
2714	10339 P6905	10 33 54	69 05 00	6	15 ^M	
2715	COMP			0	10 ^s	
2716	1141 P 2022	11:41:48	20:22:00	6	10 ^M	
2717	1141 P 2022 B	11:41:48	20:22:00	6	10 ^M	
2718	COMP			0	10 ^s	
2719	1149 P 1410	11:51:33.5	13:56:39	6	10 ^M	
2720	COMP			0	10 ^s	20
2721	R1226 P 1252	12:25:58.9	12:52:58.1	6	5 ^M	2000 Co-ord
2722	COMP	12 33		0	10 ^s	
2723	R1232 P 1245A	12 32 24.1	12:45:12.2	6	5 ^M	2000 Co-ord
2724	R1232 P 1245B	↓	↓	6	10 ^M	
2725	COMP			0	10 ^s	
2726	R1230 P 1232A	12:30:26.2	12:32:11.8	6	10 ^s	
2727	COMP			0	10 ^s	
2728	R1257 P 2201 A	12:57:02.2	22:01:57.6	6	15 ^s	
2729	↓	↓	↓	6	60 ^s	
2730	COMP			0	10 ^s	
2731	R1257 P 0916 A	12:57:34.3	09:16:40.4	6	60 ^s	Star "H" on right side of slit
2732	R1257 P 0916 H	↓	↓	6	120 ^s	Star "A" on left side of slit
2733	COMP			0	10 ^s	
2734	R1301 P 2252 A	13:01:10.3	27:52:53	6	5 ^M	
2735	R1301 P 2252 B	↓	↓	6	5 ^M	
2736	COMP			0	10 ^s	
2737	R1423 P 41015	14:23:53.8	40:15:16.2	6	15 ^M	
2738	COMP			0	10 ^s	

60 inch Telescope Log

Observer: J. Peters/S. Muscarella

PI: J. Kuchra

Spectrograph: FAST

Grating: 300

Date: 2/10/94

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
2753	COMP			0	105	
2754	BIAS					
756-2770	FLAT			0	.25	these are NOT flats (bias)
771-2780	BIAS					
2781	COMP			0	105	
2782	EG247	05:01:31.5	52:45:18	0	605	
2783	EG247	↓	↓	0	1205	
2784	COMP			0	105	
2785	A262A89	01:48:20.6	37:11:52	9	10M	
2786	A262A89	↓	↓	9	10M	
2787	COMP			0	105	
2788	A262A78	01:48:00	37:11:47	9	10M	← These are 2 obj in CANINE
2789	A262A78	↓	↓	9	10M	← SLIT here close. SERPENA.
2790	COMP			0	105	
2791	A262A159N	01:50:23	36:53:50	9	10M	Two objects - trying to do N + south objects
2792	A262A159S	↓	↓	9	10M	separately. Very close together.
2793	COMP			0	105	
2794	R0344P2447-1	03:44:21	24:47:14	1	10M	
2795	R0344P2447-1	↓	↓	1	10M	
2796	R0344P2447-4	↓	↓	1	10M	
2797	R0344P2447-4	↓	↓	1	10M	
2798	COMP			0	105	
2799	AGK2P14	07:17:48	15:01:00	0	35	
2800	COMP			0	105	
2801	AGK2P43	09:44:18	43:42:00	0	35	Clouds Thickening
2802	COMP			0	105	
2803	0936P0638-021	09:36:42	06:38:00	1	10M	See chart for obj None
2804	COMP			↓	105	
2805	10037P0404A	10 07 42	04 04 00	1	10M	Clouded out 11:45PM
2806	COMP			0	105	

2755 missing

2791 + 2792 look like the same object can see no difference between them - nor is there another object in slit

60 inch Telescope Log

Observer: Jim / StevePI: J. HuchraSpectrograph: FASTGrating: 300Page: 2767Date: 2/10/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
2807	10048P0419 B	10 04 48	04 19 00	1	10 ^m	THRU CLOUDS BL 125
2808	COMP			0 ↓	10 ^s	BL 80
2809	10057N0314	10 05 18	-03 14 00	1	10 ^m	DOME RAN AWAY
2810	COMP			0 ↓	10 ^s	
2811	10079P0625	10 07 54	06 25 00	0	10 ^m	
2812	COMP			0 ↓	10 ^s	
2813	10080P0523	10 08 00	05 23 00	1	10 ^m	
2814	COMP			0 ↓	10 ^s	
2815	10087P0608	10 08 42	06 08 00	1	10 ^m	
2816	COMP			0 ↓	10 ^m	
2817	10094P0335	10 09 24	03 35 00	1	10 ^m	
2818	COMP			0 ↓	10 ^s	
2819	10080P0749 A	10:08:00	07:49:00	1	10 ^m	
2820	COMP			0 ↓	10 ^s	
2821	10085P0801	10:08:30	08:01:00	1	10 ^m	
2822	COMP			0 ↓	10 ^s	
2823	10101P0504	10:10:06	05:04:04	1	10 ^m	
2824	COMP			0 ↓	10 ^s	
2825	10103P0502	10:10:18	05:02:00	1	10 ^m	
2826	10103P0502	↓	↓	1	10 ^m	
2827	COMP	12:39:18	17:47:24	0 ↓	10 ^s	
2828	Feige 67	12:39:18	17:47:24	0	60 ^s	Doing standards now because clouds are obstructing most faint objects
2829	COMP			0 ↓	10 ^s	
2830	HZ44	13:21:19.1	36:23:38	0	120 ^s	
2831	HZ43 COMP			0 ↓	10 ^s	
2832	HZ43	13 14 00	29 21 49	0	2 ^m	
2833	COMP			0 ↓	10 ^s	CLOUDS ALL OVER
2834	N5548	14 15 43	25 22 01	6	7 ^m	" " "
2835	COMP			0 ↓	10 ^s	
2836	N4486 B	12 28 00	12 45 54	0	6 ^m	THRU CLOUDS

60 inch Telescope Log

Observer: Jim PetersPI: J. HuchraSpectrograph: FASTGrating: 300Page: 2769Date: 2/12/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
2906	Comp	Test				Flats, Bias Frame
2907	Comp	Test				were combined
2908	Test	Test				
2909	Comp	Test				
2910	Comp			0↓	10 ^s	
2911	HZ 15	04 37 56	08 35 00	0	2 ^m	THRU Clouds
2912	Comp			0↓	10 ^s	
2913	J0217P1312	02 17 41	13 12 29	1	10 ^m	May be Too many Clouds
2914	J0217P1312	↓	↓	1	10 ^m	Clouded out, No Again
2915	Comp	Test				
2916	Comp			0↓	10 ^s	
2917	A0595A	07 48 36	52 19 19	9	10 ^m	
2918	A0595A	↓	↓	9	10 ^m	
2919	Comp			0↓	10 ^s	
2920	A0612A	08 01 05	34 49 39	9	10 ^m	STAR in left side of
2921	Comp			0↓	10 ^s	SLIT (EAST)
2922	10202P0400	10 20 12	04 00 00	1	10 ^m	Closed Hum = 94%
2923	COMP			0↓	10 ^s	Cloud going UP 10:30PM
2924	12018p0719	12 01 48	07 19 00	5	10 ^m	
2925	12018p0719	12 01 48	07 19 00	5	10 ^m	
2926	COMP			0↓	10 ^s	
2927	12111p0228	12 11 06	02 28 00	5	10 ^m	
2928	12111p0228	12 11 06	02 28 00	5	10 ^m	
2929	COMP			0↓	10 ^s	
2930	AGK-2+43928	09 49 18	43 42 00	0	3 ^s	
2931	COMP			0↓	10 ^s	
2932	12148p0252	12 14 48	02 52 00	5	10 ^m	
2933	COMP			0↓	10 ^s	
2934	UGC 7531	12 23 42	-01 01 00	5	10 ^m	NB
2935	UGC 7531	↓	↓	5	10 ^m	

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60 inch Telescope Log

Observer: G. HazenbergPI: G. HazenbergSpectrograph: FASTGrating: 300Page: 2771Date: 02/12/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
2970	HD 12623	02 02 12	62 55 00	0	20 ^s	
2971	COMP			0↓	10 ^s	
2972	HD 12623	02 02 12	62 55 00	0	20 ^s	
2973	HD 12623	02 02 12	62 55 00	0	20 ^s	
2974	COMP			0↓	10 ^s	
2975	HD 52071	06 59 30	27 11 00	0	10 ^s	
2976	COMP			0↓	10 ^s	
2977	AKN 120	05 13 38	-0° 12 16	6	4 ^m	
2978	COMP			0↓	10 ^s	
2979	#Z15	04 37 55	08 34 50	6	4 ^m	Standard for AKN 120
2980	COMP			0↓	10 ^s	
2981	0829 p 0348	08 29 30	03 48 00	1	5 ^m	bird spectrum got a star just to
2982	0829 p 0348	↓	↓	1	5 ^m	trying again
2983	0829 p 0348	↓	↓	1	5 ^m	and again
2984	COMP			0↓	10 ^s	
2985	08365 p 0444	08 36 30	04 44 00	1	10 ^m	
2986	COMP			0↓	10 ^s	
2987	08528 p 0747	08 52 48	07 47 00	1	5 ^m	
2988	08528 p 0747	↓	↓	1	10 ^m	
2989	COMP			0↓	10 ^s	couldn't find object so
2990	COMP			0↓	10 ^s	did another one @ another
2991	09022 p 0814	09 02 12	08 14 00	1	10 ^m	Seeing ~ 10" <small>COMP</small>
2992	COMP			0↓	10 ^s	
2993	09033 p 0724	09 03 18	07 24 00	1	10 ^m	
2994	09033 p 0724	09 03 18	07 24 00	1	10 ^m	
2995	COMP			0↓	10 ^s	
2996	IC 2432	09 02 00	05 43 00	1	10 ^m	
2997	COMP			0↓	10 ^s	
2998	09466 + 0243	09 46 36	02 43 00	1	10 ^m	appears to be a (*)
2999	COMP			0↓	10 ^s	

60 inch Telescope Log

Observer: G. HazenbergsPI: G. HazenbergsSpectrograph: FASTGrating: 300Page: 2772Date: 02/12/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
3000	11336 n 0249	11 33 36	-02 49 00	5	10 ^m	
3001	COMP			0↓	10 ^s	
3002	11337 n 0235	11 33 42	-02 35 00	5	10 ^m	*
3003	11339 n 0232	11 33 54	-02 32 00	5	5 ^m	} Got H α
3004	11339 n 0232	11 33 54	-02 32 00	5	5 ^m	
3005	11338 n 0234	11 33 48	-02 34 00	5	5 ^m	H α
3006	COMP			0↓	10 ^s	
3007	11360 p 0714	11 36 00	+07 14 00	5	5 ^m	
3008	11360 p 0714	↓	↓	5	5 ^m	
3009	COMP			0↓	10 ^s	
3010	NGC 6750	11 44 06	-01 43 00	5	5 ^m	
3011	NGC 6750	11 44 06	-01 43 00	5	10 ^m	
3012	COMP			0↓	10 ^s	
3013	12247 n 0145	12 24 42	-01 45 00	5	10 ^m	not much signal; I think I wasn't on it.
3014	COMP			0↓	10 ^s	
3015	NGC 3976	11 53 18	07 02 00	0	2 ^m	(to get good galaxy template)
3016	NGC 3976 A	11 53 24	06 58 00	5	5 ^m	
3017	NGC 3976 A	11 53 24	06 58 00	5	5 ^m	Starting to get really
3018	COMP			0↓	10 ^s	cloudy; tough to
3019	11369 p 0802	11 36 54	08 02 00	5	10 ^m	find objects on TV
3020	COMP			0↓	10 ^s	
3021	12003 p 0553	12 00 18	05 53 00	5	5 ^m	
3022	12003 p 0553	↓	↓	5	5 ^m	
3023	12003 p 0553	↓	↓	5	10 ^m	
3024	COMP			0↓	10 ^s	
3025	12320 s 0617	12 32 00	06 17 00	5	10 ^m	
3026	12320 p 0617	↓	↓	5	10 ^m	
3027	COMP			0↓	10 ^s	
3028	12523 p 0408	12 52 18	04 08 00	5	10 ^m	
3029	COMP			0↓	10 ^s	

60 inch Telescope Log

Observer: G. Hazenbars

PI: G. Hazenbars

Spectrograph: FAST

Grating: 300

Date: 02/13/94

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oops! there are now page 27
Sorry

Number	Object	R. A.	Dec.	L/R	Exp	Comments
3069	COMP			0	10 ^s	For qfast use
3070	COMP			0↓	10 ^s	
3071	AKN 120	05 13 37.9	-0° 12 15.8	6	10 ^m	Through heavy cloud; 2 stars just off slit
3072	COMP			0↓	10 ^s	↑ NB Spectrum is in center of aperture
3073	HZ 15	04 37 55.1	08 34 50	6	5 ^m	Standard for AKN 120
3074	COMP			0↓	10 ^s	
3075	BD p26595	03 36 54	26 47 00	0	20 ^s	
3076	COMP			0↓	10 ^s	
3077	AGKp14783	07 17 48	15 01 00	0	20 ^s	
3078	COMP			0↓	10 ^s	totally obscured by cloud at 6 minute
3079	AKN 120	05 13 37.9	-00 12 15.8	6	10 ^m	Less cloud than earlier; galaxy is <u>reminiscently</u> centred.
3080	HZ 15	04 37 55.1	08 34 50	6	5 ^m	
3081	COMP			0↑	10 ^s	These 2 spectra both have both galaxies on slit
3082	COMP			0↓	10 ^s	
3083	A0732p1423W	07 32 27.2	14 23 08	1	10 ^m	Tons of clouds again
3084	A0732p1423E	07 32 27.2	14 23 08	1	10 ^m	A0732p1423W is on slit; look to right of it
3085	COMP		centre of cluster	0↓	10 ^s	E component is near pixel row 90
3086	105 M67	08 48 27	12 00 00	10	10 ^m	Clouded out 30 ^s into exposure
3087	105 M67	↓	↓	10	10 ^m	Got 10x more counts.
3088	COMP			0↓	10 ^s	
3089	81 M67			10	5 ^m	Cleared up again
3090	COMP			0↓	10 ^s	
3091	136 M67	↓	↓	10	2 ^m	Clouded over
3092	136 M67	↓	↓	10	2 ^m	Realized that I'm using 3" instead of 4" slit.
3093	136 M67	↓	↓	10	2 ^m	don't know how to change gratings
3094	COMP			0↓	10 ^s	
3095	131 M67			10	5 ^m	Badly clouded out
3096	131 M67	↓	↓	10	5 ^m	Zero counts; cloud up
3097	COMP			0↓	10 ^s	Started up again
3098	131 M67	08 48 27	12 00 00	10	5 ^m	Heavy clouds again

NO FLATS
(Combined -
subtracted)

60 inch Telescope Log

Observer: G. Hazenberg

PI: G. Hazenberg

Spectrograph: FAST

Grating: 300

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Date: 02/14/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
3104-3134	FLATS & BIASES					NOT here
3135	COMP	(1994.5)	(1994.5)	OV	10 ^s	
3136	α Tau	4 35 36.3	16 29 55	5	5 ^s	Messy around in a bright sky
3137	α Tau	↓	↓	5	0.5 ^s	
3138	COMP			OV	10 ^s	
3139	BP p26 595	03 36 54	26 47 00	0	120 ^s	Star template
3140	COMP			OV	10 ^s	
3141	HD 12623	02 02 12	62 55 00	0	30 ^s	template
3142	COMP			OV	10 ^s	
3143	209 A 262	01 51 54.5	36 13 06	9	5 ^m	look out for faint star
3144	209 A 262	↓	↓	9	5 ^m	to right of galaxy on slit (galaxy is in dead center)
3145	COMP			OV	10 ^s	
3146	221 A 262	01 52 03.3	36 09 55	9	5 ^m	
3147	221 A 262	↓	↓	9	5 ^m	H α (?) (6845 Å?)
3148	COMP			OV	10 ^s	
3149	214 A 262	01 51 57.4	36 04 38	9	5 ^m	Seeing deteriorating (Think I missed it)
3150	214 A 262	↓	↓	9	5 ^m	Different offset from 3149
3151	COMP	(2000)	(2000)	OV	10 ^s	
3152	A0514A	04 47 06.5	-20 28 52	9	10 ^m	Got 500 cts at peak
3153	COMP	(2000)	(2000)	OV	10 ^s	
3154	A0536 A	05 07 44.5	-09 15 27	9	10 ^m	H α (6872 Å)?
3155	A0536 A	↓	↓	9	10 ^m	
3156	A0536 A	↓	↓	9	10 ^m	Ugly spectrum
3157	COMP	(2000)	(2000)	OV	10 ^s	I was shooting blind; I think I missed
3158	A0536 D	05 07 44.5	-09 15 27	9	5 ^m	Star on slit (look to right)
3159	A0536 D	↓	↓	9	5 ^m	Garbage; offset from star
3160	COMP	(2000)	(2000)	OV	10 ^s	
3161	A 0680 A	08 35 21.9	36 55 53	9	5 ^m	Cloudy; got no signal
3162	COMP			OV	10 ^s	
3163	08485 POSS	08 48 30	05 15 00	#	5 ^m	

60 inch Telescope Log

Observer: G. HazenbergPI: HazenbergSpectrograph: FASTGrating: 300Page: 2776Date: 02/14/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
3164	COMP			0V	10 ^s	
3165	08497 p 0607	08 49 42	06 07 00	1	5 ^m	H α at 6800?
3166	08497 p 0607	↓	↓	1	5 ^m	Yup
3167	COMP			0V	10 ^s	
3168	08575 +0755	08 57 30	07 55 00	1	5 ^m	H α at 6760?
3169	COMP			0V	10 ^s	
3170	08363 p 0334 W	08 36 18	03 34 00	1	5 ^m	H α at 6890?
3171	COMP			0V	10 ^s	
3172	IC 2420	08 48 54	03 16 00	1	5 ^m	Great spectrum
3173	COMP			0V	10 ^s	
3174	08515 p 0710 E	08 51 30	07 10 00	1	5 ^m	H α at 7000?
3175	COMP			0V	10 ^s	started getting lots of noise on TV
3176	08533 p 0356	08 53 18	03 56 00	1	5 ^m	Hα at 6750 H α at 6750
3177	COMP			0V	10 ^s	
3178	08552 p 0756	08 55 12	07 56 00	1	5 ^m	H α at 6960?
3179	COMP			0V	10 ^s	Hα (H α at 6900?)
3180	08529 p 0651	08 52 54	06 51 00	1	5 ^m	Star on far right end of slit
3181	08529 p 0651	↓	↓	1	5 ^m	Insurance shot (H α at 6910)
3182	COMP			0V	10 ^s	
3183	08585 p 0618	08 58 30	06 18 00	1	5 ^m	600 counts at peak
3184	COMP			0V	10 ^s	
3185	09106 p 0549	09 10 36	05 49 00	1	5 ^m	Add to 2088/16,17 (04/16/93)
3186	COMP			0V	10 ^s	
3187	11361 p 0404	11 36 06	04 04 00	5	5 ^m	
3188	11361 p 0404	11 36 06	04 04 00	5	5 ^m	H α at 6760
3189	COMP			0V	10 ^s	
3190	11369 n 0225	11 36 54	-02 25 00	5	5 ^m	H α at 6850
3191	COMP			0V	10 ^s	
3192	11378 n 0226	11 37 48.0	-02 26 00	5	5 ^m	H α at 6720?
3193	11378 n 0226	11 37 48	-02 26 00	5	5 ^m	Yes! ↑

60 inch Telescope Log

Observer: G. HazenbergPI: G. HazenbergSpectrograph: FASTGrating: 300Page: 2777Date: 02/14/94 ♡ ←

Number	Object	R.A.	Dec.	L/R	Exp	Comments
3194	COMP			0↓	10 ^s	
3195	11369 p 0345	11 36 54	03 45 00	5	5 ^m	H α at 6690?
3196	COMP			0↓	10 ^s	
3197	11 369 p 0802	11 36 54	08 02 00	5	5 ^m	H α at 6710?
3198	COMP			0↓	10 ^s	
3199	11 374 n 0036	11 37 24	-00 36 00	5	5 ^m	
3200	COMP			0↓	10 ^s	
3201	11 376 n 0034	11 37 36	-00 34 00	5	5 ^m	
3202	COMP			0↓	10 ^s	
3203	11 376 n 0037	11 37 36	-00 37 00	5	5 ^m	H α at 6755?
3204	COMP			0↓	10 ^s	
3205	11 382 p 0525	11 38 12	05 25	5	5 ^m	H α at 6705?
3206	COMP			0↓	10 ^s	
3207	11 385 p 0532 N	11 38 30	05 32	5	5 ^m	H α at 6775
3208	COMP			0↓	10 ^s	↑ same z
3209	11 385 p 0532 S	11 38 30	05 32	5	10 ^m	H α at 6775
3210	COMP			0↓	10 ^s	
3211	11 425 n 0123	11 42 30	-01 23	5	5 ^m	
3212	COMP			0↓	10 ^s	
3213	11 427 n 0125	11 42 42	-01 25	5	5 ^m	
3214	COMP			0↓	10 ^s	
3215	11 426 n 0129	11 42 36	-01 29	5	3 ^m	
3216	COMP			0↓	10 ^s	
3217	11 428 n 0136	11 42 48	-01 36	5	3 ^m	
3218	COMP			0↓	10 ^s	
purged → 3219	11 449 p 0303	11 44 54	03 03	5	5 ^m	Oops; I seem to have missed!
3220	11 449 p 0303	11 44 54	03 03	5	5 ^m	Got it second time
3221	COMP			0↓	10 ^s	H α at 6700
3222	11 437 n 0254	11 43 42	-02 54	5	5 ^m	Tough to get; perpendicular to slit
3223	11 437 n 0254	↓	↓	5	5 ^m	

60 inch Telescope Log

Observer: G. HazenbergPI: HazenbergSpectrograph: FASTGrating: 300Page: 2778Date: 02/14/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments <small>look out for star to right</small>
3224	11437 n 0254	11 43 42	-02 54	5	5 ^m	Moved to different part of disk
3225	COMP			0↓	10 ^s	
3226	11437 n 0254	11 43 42	-02 54	5	10 ^m	Damn vertical galaxy! <small>watch out for star spectrum!</small>
3227	COMP			0↓	10 ^s	
3228	11463 p 0120	11 46 18	01 20	5	5 ^m	Na at 6270Å?
3229	COMP			0↓	10 ^s	
3230	GD 140	11 34 28	30 04 35	6	5 ^m	Standard star for NGC 4151
3231	COMP			0↓	10 ^s	Magnification
3232	NGC 4151	12 08 01	39 41 02	6	5 ^m	
3233	COMP			0↓	10 ^s	
3234	NGC 4486B	12 28 00	12 45 59	0	5 ^m	Velocity template
3235	COMP			0↓	10 ^s	
3236	Fe 67	12 39 18	17 47 24	0	5 ^s	Standard
3237	COMP			0↓	10 ^s	
3238	HZ 44	13 21 19	36 23 38	0	5 ^s	Standard
3239	COMP			0↓	10 ^s	
3240	UGC 7411	12 19 00	05 03	5	5 ^m	H α at 6605
3241	COMP			0↓	10 ^s	
3242	UGC 7422	12 19 24	05 23	5	5 ^m	H α at 6605
3243	COMP			0↓	10 ^s	
3244	12186 n 0245	12 18 36	-02 45	5	5 ^m	
3245	COMP			0↓	10 ^s	
3246	12203 p 0324	12 20 18	03 24	5	5 ^m	
3247	COMP			0↓	10 ^s	
3248	12201 p 0630	12 20 06	06 30	5	5 ^m	
3249	12201 p 0630	↓	↓	5	5 ^m	
3250	12201 p 0630			5	10 ^m	
3251	COMP			0↓	10 ^s	
3252	12204 p 0302	12 20 24	03 02 00	5	5 ^m	
3253	COMP			0↓	10 ^s	

60 inch Telescope Log

Spectrograph: FAST

Observer: Hazenberg

Grating: 300

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PI: Hazenberg

Date: 02/14/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
3254	12208 p0146	12 20 48	01 46	5	5 ^m	
3255	12208 p0146	+	↓	5	5 ^m	
3256	COMP			0↓	10 ^s	
3257	12211 p0137	12 21 06	01 37	5	10 ^m	H _α at 6730
3258	COMP			0↓	10 ^s	
3259	IC IC 873	13 15 48	04 44	5	5 ^m	
3260	COMP			0↓	10 ^s	
3261	IC 876	13 16 00	04 45	5	5 ^m	
3262	COMP			10 0↓	10 ^s	
3263	NGC 5548	14 15 44	25 22 01	20 6	2 ^m	
3264	COMP			10 0↓	10 ^s	
3265	HZ 43	13 14 01	29 21 49	60 6	1 ^m	
						To bed
						45 new radial velocities!

Flit NO
good



60 inch Telescope Log

Observer: Hazenberg

PI: Hazenberg

Spectrograph: FAST

Grating: 300

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Date: 02/15/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
3266-3295	FLATS, BUSES					NOT here
3296	COMP			OV	10 ^s	
3297	BD p 26595	03 36 54	26 47	O	30 ^s	template
3298	COMP			OV	10 ^s	
3299	HD 12623	02 02 12	62 55	O	10 ^s	template
3300	COMP			OV	10 ^s	
3301	AGK 2 p 14783	07 17 48	15 01	O	10 ^s	template
3302	COMP			OV	10 ^s	
3303	AKN 120	05 13 37.9	-00 12 16	6	3 ^m	star on left end of slit
3304	AKN 120 HZ15	04 37 55	08 34 50	6	1 ^m	
3305	AKN 120 COMP			OT	10 ^s	↑ standard for AKN 120
3306	COMP			OV	10 ^s	
3307	160 A262.	01 50 24.8	36 06 52	9	5 ^m	Shot blind; missed it
3308	COMP			OV	10 ^s	
3309	193 A262	01 51 14.5	36 16 02	9	5 ^m	Hx at 6710 (maybe)
3310	193 A262	↓	↓	9	5 ^m	slipped off slit
3311	193 A262	↓	↓	9	5 ^m	
3312	193 A262			9	5 ^m	Absorption at 6270 (Na ^D)
3313	COMP			OV	10 ^s	
3314	160 A262	01 50 24.8		9	5 ^m	Trying again; garbage again
3315	COMP			OV	10 ^s	hope it's centered
3316	M1			Latham	5 ^m	lots of counts all over
3317	M1 west			Latham	3 ^m	pulsar (?) at right end
3318	M1 east			Latham	3 ^m	pulsar at left end
3319	COMP	(2000)	(2000)	OV	10 ^s	
3320	A0644A	08 17 25.6	-07 30 46	9	5 ^m	
3321	A0644A	↓	↓	9	10 ^m	tons of guide TV noise
3322	COMP			OV	10 ^s	
3323	08530 p 0510	08 53 00	05 10	1	5 ^m	} aiming blind, I got the } nebulae NW of the galaxy; oops!
3324	08530 p 0510	↓	↓	1	5 ^m	

3300

purged

purged



purged

This night was
really NOT
worth
reducing

~~AKN 120~~

60 inch Telescope Log

Observer: HazenbersPI: HazenbersSpectrograph: FASTGrating: 300Date: 02/15/94Page: 2781

Number	Object	R. A.	Dec.	L/R	Exp	Comments
3325	08530 p 0510	08 53 00	05 10 00	1	5 ^m	Got the galaxy. ^P Nope
3326	COMP			0↓	10 ^s	
3327	08530 p 0510	08 53 00	05 10 00	1	5 ^m	Found the damn thing!
3328	COMP			0↓	10 ^s	
3329	08595 p 0340	08 59 30	03 40	1	5 ^m	counts; ^{companion galaxy} on left of slit.
3330	COMP			0↓		
3331	08596 p 0321	08 59 36	03 21	1	5 ^m	Here come the clouds
3332	08596 p 0321	↓	↓	1	5 ^m	Where is it?
3333	08596 p 0321	↓	↓	1	10 ^m	Found it
3334	COMP			0↓	10 ^s	* - prob in ^{right} eye
3335	08598 p 0334	08 59 48	03 34	1	5 ^m	Cloudy as hell
3336	COMP			0↓	10 ^s	
3337	09504 p 0805	09 50 24	08 05	1	5 ^m	Got no signal; clouds.
3338	09504 p 0805	↓	↓	1	10 ^m	Loads of signal * ^{prob} bright
3339	COMP			0↓	10 ^s	
3340	09508 p 0718	09 50 48	07 18	1	5 ^m	Seeing's getting bad
3341	09508 p 0718	↓	↓	1	5 ^m	
3342	COMP			0↓	10 ^s	
3343	08588 p 0713	08 58 48	07 13	1	10 ^m	Dodging between 2 stars.
3344	COMP			0↓	10 ^s	
3345	09043 p 0323	09 04 18	03 23	1	5 ^m	H α at 6740?
3346	09043 p 0323	09 04 18	03 23	1	10 ^m	Yes
3347	COMP			0↓	10 ^s	
3348	09078 p 0335	09 07 48	03 35	1	5 ^m	H α at 6950 110
3349	COMP			0↓	10 ^s	
3350	09053 p 0329	09 05 18	03 29	1	5 ^m	H α at 6740
3351	COMP			0↓	10 ^s	
3352	09062 p 0339	09 06 12	03 39 00	1	5 ^m	H α @ 6650
3353	COMP			0↓	10 ^s	
3354	11465 n 0050	11 46 30	-00 50	5	5 ^m	

purged

60 inch Telescope Log

Observer: HazenbergPI: HazenbergSpectrograph: FASTGrating: 300Page: 2782Date: 02/15/94

Number	Object	R. A.	Dec.	L/R	Exp	Comments
3355	COMP			0↓	10 ^s	
3356	11470 n 0110	11 47 00	-01 10	5	5 ^m	
3357	COMP			0↓	10 ^s	
3358	12115 p 0700	12 11 30	07 00	5	5 ^m	
3359	12115 p 0700	↓	↓	5	5 ^m	
3360	COMP			0↓	10 ^s	
3361	12210 n 0011	12 21 00	-00 11	5	5 ^m	H α 6740
3362	COMP			0↓	10 ^s	
✓ 3363	IC 3153	12 17 00	05 40	5	5 ^m	H α 6830
3364	COMP			0↓	10 ^s	
✓ 3365	NGC 4266	12 17 06	05 49	5	3 ^m	tons o' counts
3366	COMP			0↓	10 ^s	
✓ 3367	# 12172 n 0028	12 17 12	-00 28	5	5 ^m	H α 6770
3368	COMP			0↓	10 ^s	
✓ 3369	12173 n 0035	12 17 18	-00 35	5	5 ^m	
3370	COMP			0↓	10 ^s	
out of sight ✓ 3371	12178 p 0040	12 17 48	00 40	5	5 ^m	Totally NOT missed; garbage
✓ 3372	12178 p 0040	12 17 48	00 40	5	5 ^m	Fingers crossed; got a weak signal
✓ 3373	12178 p 0040	12 17 48	00 40	5	10 ^m	H α at 6580
3374	COMP			0↓	10 ^s	
✓ 3375	12213 p 0422	12 21 18	04 22	5	5 ^m	raging H α Ⓢ
3376	COMP			0↓	10 ^s	
✓ 3377	12247 n 0145	12 24 42	-01 45	5	5 ^m	
✓ 3378	12247 n 0145	12 24 42	-01 45	5	5 ^m	
3379	COMP			0↓	10 ^s	
✓ 3380	12213 p 0422	12 21 18	04 22	5	5 ^m	H α (6705)
3381	COMP			0↓	10 ^s	
✓ 3382	12216 p 0129	12 21 30	01 29	5	5 ^m	H α 6740
3383	COMP			0↓	10 ^s	
✓ 3384	12217 p 0130	12 21 42	01 30	5	5 ^m	H α 6800?

this, it
seems, is
actually
12217 p 0130;
I screwed up

60 inch Telescope Log

Observer: HazenbergPI: HazenbergSpectrograph: FASTGrating: 300Page: 2783Date: 02/15/94

Number	Object	R.A.	Dec.	L/R	Exp	Comments
√3385	12217 p 0130	12 21 42	01 30	5	5 ^m	H α 6740
3386	COMP			0↓	10 ^s	
√3387	12216 p 0129	12 21 36	01 29	5	5 ^m	H α 6725
3388	COMP			0↓	10 ^s	
√3389	12220 p 0700	12 22 00	07 00	5	5 ^m	H α (P)
3390	COMP			0↓	10 ^s	
→ purged 3391	12223 p 0702	12 22 18	07 02	5	5 ^m	(★) dammit; missed again
√3392	12 223 p 0702	12 22 18	07 02	5	5 ^m	
√3393	12 223 p 0702	12 22 18	07 02	5	5 ^m	
3394	COMP			0↓	10 ^s	
√3395	12226 p 0445	12 22 36	04 45	5	5 ^m	
3396	COMP			0↓	10 ^s	
√3397	12230 n 0237	12 23 00	-02 37	5	5 ^m	(★) P (maybe)
3398	COMP			0↓	10 ^s	
√3399	12 230 n 0233S	12 23 00	-02 33	5	5 ^m	Southern component
√3400	12 230 n 0233N	12 23 00	-02 33	5	10 ^m	Northern component; H α
3401	COMP			0↓	10 ^s	
√3402	UGC 7564	12 24 48	03 34	5	5 ^m	Very red spectrum
√3403	UGC 7564	↓	↓	5	5 ^m	
3404	COMP			0↓	10 ^s	
√3405	12249 p 0332	12 24 54	03 32	5	5 ^m	
3406	COMP			0↓	10 ^s	
√3407	NGC 4486B	12 28 00	12 45 59	0	3 ^m	Template galaxy
3408	COMP			0↓	10 ^s	
√3409	12263 n 0146	12 26 18	-01 46	5	5 ^m	
3410	COMP			0↓	10 ^s	
√3411	12249 p 0332	12 24 54	03 32	5	5 ^m	
3412	COMP			0↓	10 ^s	
√3413	12 332 n 0238	12 33 12	-02 38	5	5 ^m	Needs more; out of line
3414	COMP			0↓	10 ^s	

float ok

60 inch Telescope Log

Spectrograph: Fast

Observer: Hazenberg / Muscarella

Grating: 300

Page: 2785

PI: Hazenberg

Date: 02/16

Purged

Number	Object	R.A.	Dec.	L/R	Exp	Comments
3424- 3433	bias			0		
3434- 3438	flats			0	.15	
3439- 3443	flats			0	.25	
3444	COMP			0	10 ^s	
3445	flat			0	.15	
3446 3450	flats			0	.15	
3451 3455	flats			0	.25	
3456	COMP			0	10 ^s	Cloudy
3457	COMP			OV	10 ^s	
3458	UGC 4900			1	10 ^m	Through clouds: no signal
3459	COMP			OV	10 ^s	
3460	UGC 4900			1	10 ^m	More clouds; brighter sky
3461	COMP					
3462	Sirius					Why not; can't see galaxies
3463	COMP			0	10 ^s	
3464	136 M67	08:48:37	12:02:37	10	1M	
3465	136 M67	↓	↓	10	3M	
3466	COMP			0	10 ^s	
3467	131 M67	08:48:37	12:02:37	10	2M	
3468	COMP			0	10 ^s	
3469	156 M67	08:48:37	12:02:37	10	1M	
3470	COMP			0	10 ^s	
3471	09163p0606	09:16:18.2	06:06:00	1	5M	
3472	09163p0606	↓	↓	1	5M	Clouded - just noise CLOSED UP