

60 inch Telescope Log
 Observer: CALKINS Barton
 PI: All, Kishner, Kenyon, Mahdavi
 Spectrograph: FAST
 Grating: 3000
 Date: 6/4/99
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Number	Object	R. A.	Dec.	L/R	Exp	Comments
1-6	DARK				20m	binby 3
7,8	DARK				15m	binby 4
9-18	BIAS				0s	
19-28	FLAT				6s	
29-38	BIAS				0s	binby 2
39-48	FLAT				12s	
49-50	HZ 44	13 23	36 08	#56	2m	
51	comp			↑		
52-53	HZ 44	13 23	36 08	#56	2m	PA = -51°
54	comp			↑		
55-56	sn1999by	9 21	51 00	#2	10m	PA = 90°
57	comp			↑		
58-59	sn1999ci	12 32	19 25	#2	10m	PA = 35° BOOM!!
60	comp			↑		(red)
61	sn1999cf	13 33	33 03	#2	15m	PA = 100° (blue)
62	comp			↑		
63-64	RW Hya	13 34	-25 22	#12	5,6s	PA = 90°
65	comp			↑		
66	ngc1770 344/345	12 05	20 33	#59	5m	344 is to the west of 345
67	comp			↑		
68	ngc1770 343	12 05	20 28	#59	20m	
69	comp			↑		
70	177-346	12 05	19 42	#59	17m	
71	comp			↑		
72	177-347	12 05	19 46	#59	17m	
73	comp			↑		
74	ngc1-431	15 11	11 23	#73	20m	
75	comp			↑		
76	ngc1-432	15 11	11 23	#73	20m	
77	comp			↑		

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PI: Darton, Kirshner, Kenyon

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Number	Object	R.A.	Dec.	L/R	Exp	Comments
78	NGC 435	15 19	9 47	# 73	20m	
79	comp			↑		
80	NGC 436	15 19	9 46	# 73	20m	
81	comp			↑		
82	SN 1999cc	16 02	37 21	# 2	15m	PA = 110°
83	comp			↑		
84, 85	Her 1341	17 08	-17 26	# 12	23, 5m	
86	comp			↑		
87	Draco 61	17 19	43 49	# 12	10m	
88	comp			↑		
89, 90	M 1m 21	17 39	-19 09	# 12	10, 100s	comp visible?
91	comp			↑		
92, 93	RT Ser	17 39	-11 55	# 12	10, 100	
94	comp			↑		
95, 96	W Ser	17 42	-15 25	# 12	30, 300	
97	comp			↑		
98, 99	RSO ph	17 50	-6 41	# 12	5, 60	
100	comp			↑		
101, 102	V 2416 Sgr	17 57	-21 41	# 12	23, 200	
103	comp			↑		
104, 105	AS 270	18 05	-20 19	# 12	30, 400	
106	comp			↑		
107, 108	AS 289	18 12	-11 39	# 12	5, 60	
109	comp			↑		
110, 111	YY Her	18 14	20 58	# 12	10, 200	
112	comp			↑		
113, 114	V 443 Her	18 22	23 27	# 12	24, 200	
115	comp			↑		
116, 117	V 2601 Sgr	18 38	-22 41	# 12	20, 200	
118	comp			↑		

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PI: Kenyon

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Grating: 200L

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Number	Object	R. A.	Dec.	L/R	Exp	Comments
119, 120	AS316	18 42	-21 16	¹⁵ 12	20,000	
121	comp			↑		
122, 123	MWC960	18 47	-20 04	¹⁰ 12	10,000	object east
124	comp			↑		
125, 126	AS327	18 53	-24 23	¹⁵ 17	30,500	
127	comp			↑		
128, 129	FN59r	18 53	-18 57	¹⁵ 12	10,000	
130	comp			↑		
131, 132	V919Sgr	19 03	-16 58	¹¹ 12	10,000	object east
133	comp			↑		
134, 135	CMAql	19 03	-3 02	¹¹ 12	30,300	
136	comp			↑		
137-139	BFCyg	19 23	29 38	¹¹ 12	10,600	
140	comp			↑		
141-143	CHCyg	19 24	50 12	¹¹ 12	1,5,30	
144	comp			↑		
145-147	HMSge	19 41	16 42	¹¹ 12	10,600	much brighter than in Dec !!
148	comp			↑		
149, 150	AS360	19 45	18 37	¹¹ 12	5,100	← 8 -
151	comp			↑		
152-154	CICyg	19 50	35 40	¹¹ 12	10,600	
155	comp			↑		
156-158	PVVul	20 21	21 34	¹¹ 12	10,600	
159	comp			↑		
160-162	V1016Cyg	19 57	39 49	¹¹ 12	10,600	
163	comp			↑		
164, 165	He2m467	20 35	20 11	¹¹ 12	100,600	
166	comp			↑		
167-168	He2m468	20 41	34 44	¹¹ 12	100,600	
169	comp			↑		

