

Frame prefix: SP97E

Telescope: 61"

Sheet #: 1

Date: 1997

Focus: 3860

Iris: 3.0

Humidity: 45%

Tailpiece: 3.0 white +60

Balance: 4.0

Temp: 58/60

Guidepoint:

Observers: Fink, Feny, Collins

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
001	WALAL	600	0.50	2800/1500/1200	6:12	10:25:01.7	13:42:12	2.89	PA=64
002	"	"	"	2000/1500/1200		03.2	21:03	3.26	→ 3.00
003	Standard BS 5685	0.1	1.0	30K	7:05	15:15:19	-9:12:19	1.39	PA = +18.4
004	"	0.07	"	21K	7:07	"	"	1.40	
005	"	0.07	"	21K	7:08	"	"	1.40	
006	"	"	"	22K	7:09	"	"	"	
007	Comp BS 5659	2.0	1.0	22K	7:23	15:10:28	+19:28:05	1.08	} On the bad list
008	"	"	"	"	7:24	"	"	1.09	
009	"	"	"	14K	7:25	"	"	1.09	
010	"	"	"		7:26	"	"	1.09	
011	"	"	"	21K	7:27	"	"	1.09	
012	4341 Poseidon	600	0.50	2400/1640/1560	7:51	16:18:54	+00:08:23	1.20	
013	4341 Poseidon	1200	"	3151/1752/1503	8:03	"	"	1.22	PA = +21
014	"	"	"	3019/1791/1552	8:23	"	"	1.25	PA = +27.2
015	"	"	"	2469/1770/1530	8:44	"	"	→ 1.35	
016	Comp BS 5570	2	1.0	30K	9:39	14:00:04	+09:55:29	2.97	PA = +59.1
017	"	"	"		9:41	"	"	2.99	
018	"	"	"	23K	9:42	"	"	3.02	
019	"	"	"		9:46	"	"	3.17	
020	"	"	"	25K	9:47	"	"	3.20	
021	"	"	"	35K	9:48	"	"	3.23	
022	"	"	"	26K	9:53	"	"	3.40	
023	"	"	"	25K	9:54	"	"	3.46	
024	"	"	"	30K	9:55	"	"	3.49	

Frame prefix: SP97E

Telescope: 61"

Sheet #: 2

Date: May 30/31
Friday night

Focus: 3790
Iris: 300
Tailpiece: +60°
Balance: 400

Humidity: 42%
Temp: 60/62
May 31/June 1

Observers: Fevig, Fink, Collins

Guidepoint:

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
025	Comp BS 5868	0.5	1.0	36K	10:01	15:44:00	+7:30:15	1.71	PA = +55.3
026	"	0.4	"		10:02	"	"	1.72	
027	"	"	"	24K	10:03	"	"	1.73	
028	"	"	"	31K	10:04	"	"	1.74	
029	"	"	"	29K	10:05	"	"	1.74	
030	1943 Antares	1200	0.5	3515 / 1861/1552	10:28	22:05:00	-1:05:48	1.48	PA = -42.6
031	"	"	"	3186 / 1954/1577	10:49	"	"	1.33	
May 31/June 1									
032	P/Nictans	600	0.50	52000 / 1700/1570/1200	3:51:57	08:11:48.0	28:29:48.2	2.18	rather flat on net with 0-100.00000
033	"	1200	"	30000 / 2100/1800/1200	4:05	57.0	58.7	2.36	photo. 1000 in 1200 sec (2000 in 6000)
034	"	"	"	40000 / 1800/1200	4:24	59.7	35.4	2.81	2.36 Nictans is off 3-4 + data but fine PA = 63
035	P/Wild	1200	0.50	4100 / 1700/1200	5:08	10:29:58.6	12:02:56	1.93	PA = 60°
036	"	"	"	4500 / 1700/1200	5:29.0	30:00.5	2.44	2.08	PA = 60.1
037	"	"	"	4300 / 1700/1200	5:10	08.4	2.32	2.42	
038	BS 5685	0.07	1.0	13K	6:59	15:16:52.9	-09:22:38.5	1.39	
039	"	"	"	15K	7:00	"	"	1.39	
040	"	"	"	17K	7:01	"	"	"	
041	"	"	"		7:02	"	"	1.40	
042	BS 5727	1	1.0	44K	7:10	15:23:07	+30:17:38	1.03	
043	"	0.7	1.0	26K	7:13	"	"	1.03	
044	"	"	"	27K	7:15	"	"	"	
045	"	"	"	24K	7:16	"	"	1.04	
046	"	"	"	27K	7:17	"	"	"	

Frame prefix: SP97E

Telescope: 61"

Sheet #: 3

Date: May 31/June 1

Focus: 3800

Iris: 300

Humidity:

Tailpiece: +60°

Balance: 400

Temp:

Observers: Fevig, Collins

Guidepoint:

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
047	4341 Poseidon	1200	0.5	²⁸⁴⁶ / _{1455/1258}	7:44	16:19:00	-00:17:01	1.21	Spectrum terribly adulterated
048	"	"	"	²⁷²³ / _{1435/1233}	8:05	16:18:56.9	-00:17:20.4	1.24	Spectrum terribly adulterated
049	BS 5183	2	1.0	21K	8:42	13:46:49.4	+06:21:34	2.29	
050	"	"	"	21K	8:44	"	"	2.31	
051	"	"	"	23K	8:46	"	"	2.34	
052	"	"	"	26K	8:47	"	"	2.37	
053	"	"	"	24K	8:54	"	"	2.49	
054	"	"	"	26K	8:55	"	"	2.51	
055	"	"	"	23K	8:56	"	"	2.54	
056	"	"	"	24K	8:58	"	"	2.59	
057	"	"	"	24K	9:04	"	"	2.73	
058	"	"	"	24K	9:05	"	"	2.75	
059	"	"	"	21K	9:06	"	"	2.79	
060	"	"	"	22K	9:11	"	"	2.93	
061	"	"	"	22K	9:13	"	"	2.98	
062	BS 6441	2	1.0	21K	9:20	17:20:26.5	-19:20:18	1.73	
063	"	"	"	21K	9:21	"	"	1.74	
064	"	"	"	18K	9:22	"	"	1.74	
065	"	"	"	20K	9:23	"	"	1.74	
066	"	"	"	15K	9:24	"	"	1.75	
067	1943 Antares	1200	0.5	³²⁶³ / _{1867/1643}	9:44	22:08:54.5	-00:21:24.6	1.74	PA = -48.9°
068	"	"	"	³²²⁵ / _{1896/1639}	10:05			1.59	PA = -46.3°
069	"	"	"	³²³⁷ / _{1803/1553}	10:25	22:08:56.1	-00:20:29	1.47	PA = -42.8°
070	"	"	"	²⁵⁸⁹ / _{1835/1549}	10:46	22:08:57.0	-00:20:01	1.39	PA = -39.2° Bright Star Nearby

I think it is due to red light on power supply box

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Frame prefix: SP97E

Telescope: 61"

46 39
37:41

Sheet #: 4

Date: June 1/2
Sunday

Focus: 3790

Iris: 300

Humidity: 42%

Tailpiece: +60°

Balance: 400

Temp: 64/60

Observers: Fevig, Collins

Guidepoint: 346.27, 392.14

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
071	Wirtanen	1200	0.5	2383 ^{480 net} 1962/1388	4:08	8:15:38.1	+28:20:08.8	2.46	PA = +65.0
072	"	"	"		4:28	8:15:42.2	+28:20:05	2.94	PA = +63.3
X	ARGOS	hung-up	@ 6:20 UT.			Rebooted.			Keyboard jack came unplugged.
073	Standard BS5685	0.07	1.0	13K	6:43	15:16:53.2	-9:22:37.0	1.37	PA = +14.6
074	"	"	"	15K	6:45	"	"	1.37	
075	"	"	"	15K	6:46	"	"	1.37	
076	"	"	"	14K	6:47	"	"	1.38	
077	Comp BS 5727	0.7	1.0	20K	6:56	15:23:05.7	+30:17:49.1	1.02	
078	"	"	"	24K	6:57	"	"	1.02	
079	"	"	"	20K	6:57	"	"	1.02	
080	"	"	"	20K	6:58	"	"	1.02	
081	"	"	"	25K	6:59	"	"	1.02	
082	4341 Pegasus	1022	0.5	2729 1998/1413	7:37	16:16:45.0	-0:35:01.7	1.19	PA = +7.8 Dark slide left in for first 2:58
083	"	1600	"	1998/1413	8:10	16:16:42.3	-0:34:24.4	1.24	PA = +23.8 Close approach to star
084	"	1200	"	2618 1635/1450	8:12	16:16:41.3	-0:34:56.7	1.26	PA = +27.5 Close approach to star?
085	"	1200	"		8:34	16:16:39.0	-0:36:13.4	1.31	PA = +33.1
086	Comp. BS 5183	2	1.0	23K	9:04	13:46:49.3	+6:21:47.5	2.84	
087	"	"	"	21K	9:05	"	"	2.86	
088	"	"	"	18K	9:06	"	"	2.88	
089	"	"	"	21K	9:06	"	"	2.91	
090	"	"	"	20K	9:08	"	"	2.95	
091	"	"	"		9:10	"	"	3.03	
092	"	"	"	20K	9:13	"	"	3.11	
093	"	"	"	20K	9:14	"	"	3.15	
094	"	"	"	16K	9:15	"	"	3.18	
095	"	"	"	22K	9:16	"	"	3.22	

Frame prefix: SP97E

Telescope: 61"

Sheet #: 5

Observers: Fevig, Collins

Date: June 1/2
Sunday

Focus: 3778
Iris: 300
Tailpiece: +60°
Balance: 400

Humidity:
Temp:

Guidepoint: Ice/IRAF
(346.58, 392.45)

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Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
096	BS 6441	2	1.0	16K	9:24	17:20:25	-19:19:48.8	1.76	
097	"	4	"	19K	9:25	"	"	1.77	
098	"	2	"	18K	9:26	"	"	1.77	
099	"	"	"	20K	9:27	"	"	1.77	
100	"	"	"	19K	9:28	"	"	1.78	
101	"	"	"	19K	9:30	"	"	1.79	
102	"	"	"	19K	9:31	"	"	1.79	
103	1943 Antennae	1200	0.5	3173 1856/1688	9:51	22:10:21.5	+0:10:56.4	1.65	PA = -48.1
104	"	"	"	3491 2014/1811	10:12	22:10:22.5	+0:10:23.6	1.53	
105	"	"	"	3393 2109/1909	10:32	22:10:23.2	+0:10:50.8	1.43	
106	"	600	"	2358 1633/1498	10:53	22:10:24.0	+0:11:19.2	1.35	PA = -37.4 Sky brightening
June 2/3 Monday									
107	P/Wirtanen	600	0.5	1955 (180 Neb) 1775/1390	3:48	8:19:18.8	+28:10:28.3	2.14	PA = +66.3
108	P/Wild 2	1200	0.5	5147 1928/1401	5:12	10:35:03.9	+12:24:13.0	1.91	Thin cirrus clouds in West
109	"	"	"	5272 1873/1364	5:33	10:35:06.3	+12:23:56.7	2.19	
110	"	"	"	4679 1997/1413	5:53	10:35:08.7	+12:23:47.1	2.58	Thin cirrus in West PA = +60.0
111	1988 XB	1200	0.5	3427 1907/1326	6:29	16:06:39.2	-20:09:03.1	1.64	Thin cirrus in exposure PA = 0.8°
112	"	"	"	3459 1764/1318	6:50	16:06:35.9	-20:09:09.1	1.64	Possibly thin-cirrus
113	"	"	"	3231 2036/1304	7:10	16:06:32.7	-20:09:09.4	1.66	Star in frame Cirrus
114	"	"	"	3539 2023/1302	7:31	16:06:29.5	-20:09:09.8	1.69	"
115	Comp BS 6458	1	1.0	30K	7:58	17:20:35.7	+32:28:04	1.00	

Frame prefix: SP97E

Telescope: 61"

Sheet #: 6

Date: June 2/3
Monday

Focus: 3778
Iris: 300
Tailpiece: +60°
Balance: 400

Humidity:

Temp:

ICE/IRAF

Guidepoint: (346.58, 392.45)

Observers: Fevig, Collins

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
116	BS 6458	1	1.0	28K	7:59	"	"	1.00	
117	"	"	"	25K	8:00	"	"	1.00	
118	"	"	"	26K	8:01	"	"	1.00	
119	"	"	"	26K	8:02	"	"	1.00	
120	Std BS 6629	0.25	1.0	28K	8:08	17:47:47.3	+2:41:58.2	1.15	
121	"	"	"	22K	8:09	"	"	1.15	
122	"	"	"	27K	8:10	"	"	1.15	
123	"	"	"	22K	8:11	"	"	1.15	
124	"	"	"	29K	8:11	"	"	1.15	
125	Comp BS 5183	2	1.0	17K	8:18	13:46:49.3	+06:21:39.6	2.03	
126	"	"	"	19K	8:19	"	"	2.04	
127	"	"	"	22K	8:19	"	"	2.06	
128	"	"	"	22K	8:20	"	"	2.07	
129	"	"	"	19K	8:21	"	"	2.08	
130	"	"	"	20K	8:28	"	"	2.18	
131	"	"	"	19K	8:29	"	"	2.20	
132	"	"	"	24K	8:36	"	"	2.30	
133	"	"	"	19K	8:41	"	"	2.40	
134	"	"	"	22K	8:46	"	"	2.50	
135	"	"	"	19K		"	"	2.60	
136	"	"	"	22K	8:55	"	"	2.70	
137	"	"	"	14K	8:59	"	"	2.80	
138	"	"	"	12K	9:02	"	"	2.90	
139	"	"	"	10K	9:06	"	"	3.01	
140	7482 (1994 P1)	1200	0.5	2081 1614/1245	9:26	20:19:06.4	+32:21:45.8	1.05	Rotated tail piece back to 0° PA = -84.6°
141	"	"	"	2063 1509/1267	9:47	20:19:04.82	+32:21:25.6	1.03	Possible thin cirrus PA = -86.0°
142	"	"	"	2017 1526/1257	10:07	20:19:03.35	+32:21:05.6	1.01	Possible thin cirrus
143	"	"	"	2134 1486/1246	10:28	20:19:01.71	+32:20:45.9	1.00	
144	"	"	"	2287 1593/1263	10:49	20:19:00.23	+32:20:25.1	1.00	PA = -96.4°

3 stars in image
Stars in image
" " " "

Frame prefix: SP97E

Telescope: 61"

Sheet #: 7

Date: June 3/4
Tuesday

Focus: 3740

Iris: 300

Humidity:

Tailpiece: +60°

Balance: 400

Temp:

Observers: Fevig, Collins

Guidepoint:

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
X	cloud cover early in evening prompted us to begin w/ V+R imaging								
145	Wild 2	600	0.5	³⁰¹⁸ 2018/1681	5:30	10:37:37.9	+12:09:24.2	2.20	Heavy cloud cover... junk
X	We discontinued taking spectra @ 5:40 due to the heavy cloud cover.								
146	^{Comp} BS 6458	1	1.0	28K	8:05	17:20:35.63	+32:28:13.9	1.00	
147	"	"	"		8:07	"	"	"	
148	"	"	"	29K	8:08	"	"	"	
149	"	"	"	25K	8:08	"	"	"	
150	"	"	"	25K	8:09	"	"	"	
151	BS 5534	2	1.0		8:20	14:50:08.9	+23:55:19.8	1.30	} exposure too long
152	"	"	"	34K	8:21	"	"	1.31	
153	"	1.5	"	29K	8:23	"	"	1.32	
154	"	"	"	26K	8:23	"	"	1.32	
155	"	"	"	30K	8:24	"	"	1.32	
156	"	"	"	28K	8:25	"	"	1.33	
157	"	"	"	21K	8:26	"	"	1.33	
158	7482 (1994 PC1)	1200	0.5	²⁰⁰⁸ 1483/1277	8:46	20:17:42.5	+31:55:28.2	1.11	Jump in the East!
159	"	"	"	²²¹⁶ 1491/1298	9:06	20:17:37.3	+31:55:08.1	1.08	Stars in frame PA = -83.6°
160	"	"	"	²¹³⁵ 1435/1301	9:27	20:17:35.7	+31:54:48.9	1.05	Stars in frame PA = -84.6°
161	"	"	"	²¹⁵⁸ 1454/1275	9:48	20:17:34.1	+31:54:29.9	1.03	Stars in frame
162	"	"	"	²¹⁴² 1477/1299	10:09	20:17:32.5	+31:54:09.0	1.01	Stars in frame PA = -85.1°
163	"	"	"	²⁰⁹⁰ 1558/1294	10:29	20:17:30.9	+31:53:47.5	1.00	Stars in frame PA = -83.6°
164	"	900	"	²⁰³⁶ 1707/1311	10:50	20:17:29.4	+31:53:25.7	1.00	PA = +47.9
				Dark slide inserted after 15 minutes, sky brightness becoming too great to guide.					

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Star on frame

Stars in frame

Frame prefix: *TI97E*

Telescope: *61"*

Sheet #: *2*

Date: *May 31/June 1*

Focus: *3800*

Humidity: *42%*

Iris: *300*

Tailpiece: *+60°*

Balance: *400*

Temp: *60°/62°*

Observers: *Fevig, Fink, Collins Saturday*

ICE/IRAF
Guidepoint: *(346.03, 391.94)*

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
<i>X</i>	<i>P/Wirtanen</i>	<i>120</i>	<i>B/Di</i>	<i>9K</i>		<i>8:11:48</i>	<i>+28:29:48</i>	<i>2.14</i>	
<i>0001</i>	<i>"</i>	<i>"</i>	<i>V+R</i>		<i>4:50</i>	<i>8:11:59</i>	<i>+28:29:28</i>	<i>3.64</i>	
<i>0001</i>	<i>P/Wirtanen</i>	<i>120</i>	<i>V+R</i>		<i>4:53</i>	<i>8:11:59</i>	<i>+28:29:27</i>	<i>3.76</i>	
<i>0002</i>	<i>"</i>	<i>120</i>	<i>"</i>		<i>4:56</i>	<i>"</i>	<i>"</i>	<i>3.91</i>	
<i>0003</i>	<i>M67</i>	<i>10</i>	<i>"</i>		<i>4:59</i>	<i>8:51:12</i>	<i>+11:46:51</i>	<i>4.20</i>	
<i>0004</i>	<i>"</i>	<i>"</i>	<i>"</i>		<i>5:00</i>	<i>"</i>	<i>"</i>	<i>4.27</i>	
<i>X</i>	<i>P/Wild 2</i>	<i>30</i>	<i>B/Di</i>	<i>26K</i>	<i>5:05</i>	<i>10:29:58</i>	<i>+12:53:16</i>	<i>1.79</i>	
<i>005</i>	<i>Wild 2</i>	<i>30</i>	<i>B/Di</i>	} <i>Basically junk ... I left "autosave" on</i>					
<i>006</i>	<i>"</i>	<i>"</i>	<i>"</i>						
<i>007</i>	<i>"</i>	<i>"</i>	<i>"</i>						
<i>X</i>	<i>P/Hartley 1</i>	<i>180</i>	<i>B/Di</i>			<i>12:38:17.7</i>	<i>-4:44:00.7</i>	<i>1.76</i>	} <i>Also: Image TI97E008 is P/Hartley V+R 2min. @ 1-97 fair mass</i>
<i>008</i>	<i>P/Hartley 1</i>	<i>120</i>	<i>V+R</i>			<i>12:38:07</i>	<i>-4:41:48.7</i>	<i>2.04</i>	
<i>009</i>	<i>"</i>	<i>"</i>	<i>"</i>						
<i>010</i>	<i>BS 5685</i>								<i>→ Junk ... left autosave on</i>
<i>X</i>	<i>BS 5685</i>					<i>15:16:52.87</i>	<i>-04:22:35.1</i>	<i>1.39</i>	
<i>X</i>	<i>BS 5727</i>					<i>15:23:06</i>	<i>+30:17:49.2</i>		
<i>011</i> <i>033</i>	<i>4341 Poseidon</i>				<i>6:48</i>	<i>16:18:59.4</i>	<i>-00:17:03.8</i>	<i>1.21</i>	
<i>X</i>	<i>BS 5193</i>				<i>6:47</i>	<i>13:46:49</i>	<i>+06:21:47</i>	<i>2.37</i>	

Frame prefix: 7197E

Telescope: 61"

Sheet #: 4

Observers: Fevig, Collins

Date: June 1 (June 2
Sunday)

Focus: 3790
Iris: 300
Tailpiece: +60°
Balance: 400

Humidity: 42%
Temp: 67/60

Guidepoint: 346, 27, 392.14

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
X	P/Wirtannen	120	80i		03:32	08:15:31.12	+28:20:43.3	1.94	
0080	M67	10	vtr					4.03	Bad - no tracking
0081	"	"	"						crap - maybe wrong coords
0082	"	"	"					4.16	" <u>wrong coords</u>
0083	"	"	"						good
0084	"	"	"					4.60	good
0085	"	"	"		05:02	08:51:12.2	+11:46:51	4.65	good
0086	P/Wirtannen	120	"		05:04	08:15:45.46	+28:20:00.8	4.41	bias rates off for 1/2 exposure
X	Sun Station went down @ 5:10. A guide was attempted, during which the								
X	error message "pid 7020 killed: parity error" appeared. The entire								
X	system hung, it would not manually reboot, so we had to								
X	cycle power. System was up again @ 6:00 UT.								
0087	Wild 2	60	vtr	9500	6:09	10:32:37.4	+12:38:36.1	2.93	
0088	"	"	"		6:11	"	"	2.98	
0089	"	"	"		6:13	"	"	3.02	
0090	"	"	"		6:14	"	"	3.09	
0091	"	"	"		6:16	"	"	3.14	
0092	"	"	"		6:17	"	"	3.20	
0093	"	"	"		6:19	"	"	3.25	
0094	"	"	"		6:20	"	"	3.31	
0095	"	"	"		6:22	"	"	3.38	
0096	"	"	"		6:24	"	"	3.45	

Frame prefix: *TI97E*

Telescope: *61"*

Sheet #: *5*

Date: *June 1/2*
Sunday

Focus: *3790*
Iris: *300*
Tailpiece: *+60°*
Balance: *400*

Humidity:

Observers: *Collins, Fevig*

Temp:

Guidepoint:

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
<i>X</i>	<i>BS 5685</i>	<i>0.01</i>	<i>6/Di</i>	<i>saturated 68246</i>	<i>06:38</i>	<i>15:16:53</i>	<i>-09:22:37</i>	<i>1.37</i>	
<i>X</i>	<i>BS 5727</i>	<i>0.05</i>	<i>"</i>		<i>06:54</i>	<i>15:23:07</i>	<i>+30:17:43</i>	<i>1.02</i>	
<i>X</i>	<i>4541 Poreidon</i>	<i>45</i>	<i>"</i>	<i>787/12540</i>	<i>07:10</i>	<i>16:16:47</i>	<i>-00:35:09</i>	<i>1.19</i>	<i>Images 097-107(?) incorrectly labeled as P/wild 2</i>
<i>0097-0151</i>	<i>"</i>	<i>"</i>	<i>"</i>		<i>7:10</i>	<i>16:16:47</i>	<i>-00:35:18</i>	<i>1.20</i>	
<i>0152-163</i>	<i>BS5183</i>	<i>0.1</i>	<i>"</i>						
<i>0164-0168</i>	<i>BS6441</i>	<i>0.1</i>	<i>"</i>						
<i>0169-0215</i>	<i>1943 Anteros</i>	<i>45</i>	<i>"</i>	<i>575/11600</i>	<i>~9:45</i>	<i>22:10:21.7</i>	<i>+0:09:59</i>	<i>~1.65</i>	<i>SKY=1180</i>

Images 097-107(?) incorrectly labeled as P/wild 2

Frame prefix: TI97E

Telescope: 61"

Sheet #: 6

Observers: Feng, Collins

Date: June 2/3
Monday

Focus: 3778
Iris: 300
Tailpiece: +60
Balance: 400

Humidity:

Temp:

Guidepoint: 346.58, 392.45

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
X	P/Wirtanen	180	B/Di		03:55	08:19:20	+28:10:24	2.2	
216	"	120	V+R		04:05	08:19:21	+28:10:21.9	2.4	centered on guidepoint
217	"	"	"					-	#217 = Garbage
218	"	"	"					2.59	#218 = $\Delta RA = -1.33 = 20 \text{ arcsec W}$
219	"	"	"		04:15			2.62	$\Delta DEC = +20 \text{ arcsec N}$
220	"	"	"		04:19			2.70	$\Delta RA = +1.33 = 20 \text{ arcsec E}$
221	"	"	"		04:21			2.77	$\Delta DEC = -40 \text{ arcsec}$
222	"	"	"		04:24			2.83	$\Delta RA = +1.33 = 20 \text{ arcsec E}$
223	"	"	"		04:27			2.90	$\Delta DEC = +20 \text{ arcsec N}$
224	"	"	"		04:29			2.97	$\Delta DEC = +20 \text{ arcsec N}$
225	"	"	"		04:32			3.05	$\Delta RA = +1.33 = 20 \text{ arcsec W}$
226	"	"	"		04:35			3.13	$\Delta DEC = -20 \text{ arcsec S}$
227	"	"	"		04:37			3.22	$\Delta DEC = -20 \text{ arcsec S}$
228	"	"	"		04:40			3.31	$\Delta RA = -4.0 = 30 \text{ arcsec W}$
229	Wild 2	60	"		04:46	10:35:02	+12:24:25	1.66	Binary star; incorrect - 0229 is garbage
230	"	"	"		04:49			1.68	
231	"	"	"		04:50			1.69	
232	"	"	"		04:51			1.71	
233	"	"	"		04:53			1.72	
234	"	"	"		04:55			1.73	
235	"	"	"		04:56			1.75	
236	"	"	"		04:58			1.76	
237	"	"	"		05:00			1.78	
238	"	"	"		05:01			1.79	
239	"	"	"		05:02			1.81	
X	"	15	B/Di		05:12			1.92	Starting Spectroscopy!
240 - 301	1988XB	30	"		06:28	16:06:39	-20:09:04	1.64	None on 240, 241 wrong in header 301 = garbage
302 - 305	B56458	0.075	"		7:59	17:20:55	+02:28:04	1.00	
306 - 311	B56629	0.01	"		8:08	17:47:47	+02:41:50	1.15	

Frame prefix: TI 97E

Telescope: 61"

Focus: 3700

Sheet #: 8

Date: June 3/4
Tuesday

Iris: 300
Tailpiece: +60
Balance: 400

Humidity:

Observers: Felig² + Collins

Temp:

Guidepoint: ?

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
383	M67	7	V+R						Junk
384	"	"	"		3:42	8:51:12.2	+11:46:51.2	2.16	
385	"	"	"		3:44	"	"	2.19	
386	"	"	"		3:45	"	"	2.20	
387	"	"	"		3:46			2.25?	
388	"	"	"		3:49			2.27	
389	"	"	"		3:50			2.28	
390	P/Wirtanen	120	"		4:02	08:23:05	+27:59:51	2.39?	centered on guidepoint
391	"	"	"		4:04			2.40	391 = $\Delta RA = -1.33 = 20 \text{ arcsec W}$ → inform the clouds
392	"	"	"		4:08			2.48	392 = $\Delta DEC = +20 \text{ arcsec N}$ → don't see comet in image
393	"	"	"		4:11			2.55	$\Delta RA = +1.33 = 20 \text{ arcsec E}$
394	"	"	"		4:14			2.61	$\Delta DEC = -40 \text{ arcsec S}$
395	"	"	"		4:17			2.67	$\Delta RA = +1.33 = 20 \text{ arcsec E}$
396	"	"	"		4:20			2.74	$\Delta DEC = +20 \text{ arcsec N}$
397	"	"	"		4:23			2.81	$\Delta DEC = +20 \text{ arcsec N}$
398	"	"	"		4:26			2.90	$\Delta RA = +1.33 = 20 \text{ arcsec E}$
399	"	"	"		4:30			3.00	$\Delta DEC = -20 \text{ arcsec S}$
400	"	"	"		4:33			3.09	$\Delta DEC = -20 \text{ arcsec S}$
401									$\Delta RA = -40 = 30 \text{ arcsec W}$
402	Wld 2	60	"						
403	"	"	"		4:46			1.68	
404	"	"	"		4:48			1.69	
405	"	"	"		4:49			1.71	
406	"	"	"		4:52			1.72	
407	"	"	"		4:53			1.74	
408	"	"	"		4:55			1.76	

