

Sheet #: 7

Frame prefix: SP98C

Telescope: 61"

Date: 98 April 16/1601

TH night

Focus: 4340
Iris: 3.0
Tailpiece: N-5
Balance: 350

Humidity:

Temp:

Observers: Fink, Fink, Collins

Guidepoint: S424 376-4
S424 R 587

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	Tsuchichin	953	0.5P	Net ~ 260 2 / 250/1420	04:01:05 04:01:07	01:49:40.3 Moon is near comet	43:13	2.18	Close approach to star. Darkside in @ 905 out @ 658 LHA = 14.55 PA = 66 Net Peak 950 Filter 60K in 12 Dec +0.117 Star PA + 69 Darkside in @ 581 out @ 356 → 360 05:36
002	"	975	1	Net ~ 230 1200/1420	04:01:07	43:19	43:13	3.06	+63
003	"	600	1	222/1430	04:04:03	43:19	43:19	3.06	PA Peak 1000 Filter 60K in 12 Dec -02:41 -66.2
004	Struchane	600	1	Net 1400 2912/1500/1400	05:03	14:57:41.4	+22:44:55	1.25	PA Peak 1000 Filter 60K in 12 Dec -02:41 -66.2
005	"	1200	1	Net ~ 280 4400/1430/1400	05:14	14:57:41.4	10:56	1.21	good exposure -02:30 -66 Moon in 12 Dec Close approach to star. Darkside in @ 840 out @ 571
006	"	931	1	Net 2500 3840/1500/1400	05:44	14:57:41.4	52:47	1.13	-01:57 -61 Jungfrau East -01:57 -64
007	"	1200	1	390/150/140	06:05	14:57:41.4	55:46	1.09	PA -00:39 -12
008	1918 HES	1200	1	Net ~ 700 2320/1600/1430	06:36	14:57:41.4	-02:14:26	1.24	PA -00:39 -12
009	"	"	"	Net ~ 600 2220/1640/1430	06:57	14:57:41.4	17:28	1.23	-00:17 -95
010	"	"	"	Net ~ 700 2360/1670/1510	7:17	14:57:41.4	12:32	1.23	+00:07 +2.8
011	"	"	"	Net ~ 700 2360/1600/1490	7:38	14:57:41.4	11:35	1.24	+00:27 +10.1
012	"	"	"	Net ~ 650 2380/1710/1430	7:59	14:57:41.4	10:40	1.26	+00:48 +17.2 Jungfrau East Net = 0 8102
013	"	"	"	Net ~ 600 2260/1670/1410	8:22	14:57:41.4	09:38	1.29	+01:12 +24.6
014	"	"	"	Net ~ 600 2240/1650/1410	8:43	14:57:41.4	08:41	1.34	+01:33 +30.4
015	Comp BS 5183	2	1.0	21K	9:12	13:46:51.4	+06:22:07	1.42	+02:39 +49.9
016	"	"	"	19K	9:13			1.42	
017	"	"	"	18K	9:14			1.43	
018	"	"	"	22K	9:15			1.43	
019	"	"	"	22K	9:16			1.44	
020	"	"	"	22K	9:17			1.45	
021	"	"	"	20K	9:18			1.45	

Sheet #: 2

Telescope: 61"

Frame prefix: SP98C

Focus: 4340

Humidity:

Iris: 300

Tailpiece: N-S

Date: 98 April 30/May 01

Thursday night

Guidepoint: 342.9, 396.4

Temp:

Balance: 3000/550

Observers: Fevig, Collins, Fink

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.
022	Comp BS5968	0.8	1.0	20K	9:26	16:00:58.7	+33:19:09	1.01	
023	"	"	"	19K	9:27			1.01	
024	"	"	"	21K	9:27			1.01	
025	"	"	"	21K	9:29			1.01	
026	"	"	"	18K	9:29			1.01	
027	"	"	"	24K	9:30			1.01	
028	"	"	"	19K	9:31			1.01	
029	Comp BS4277	0.9	1.0	22K	9:40	10:59:22.4	+40:26:52	2.77	
030	"	"	"	20K	9:41			2.79	
031	"	"	"	26K	9:42			2.81	
032	"	"	"	23K	9:45			2.89	
033	"	"	"	23K	9:47			2.98	
034	"	"	"	24K	9:50			2.99	
035	"	"	"	21K	9:50			3.01	
036	"	"	"	22K	9:53			3.09	
037	"	"	"	21K	9:54			3.11	
038	"	"	"	20K	9:57			3.19	
039	"	"	"	25K	9:58			3.21	
040	Standard BS6629	0.25	1.0	18K	10:10	17:47:49.1	+02:42:50	1.16	
041	"	"	"	21K	10:11			1.15	
042	"	"	"	19K	10:12			1.15	
043	"	"	"	24K	10:12			1.15	
044	"	"	"	22K	10:13			1.15	
045	1036 Gaunymed	300	1.0	11K	10:22	20:04:55	+08:45:34	1.34	LHA FA -02:28 -50.2 Star may have interloper -02:18 -48.8
046	"	300	0.5	19K	10:32	20:04:56.4	+08:45:46	1.30	Did not change slit width slit width changed
X	Waited	for Gaunymed to pass through a star							
047	1036 Gaunymed	300	0.5	20K	10:48	20:04:57.3	+08:46:07	1.25	-02:02 -45.9
048	"	"	"	18K	10:54	20:04:57.7	+08:46:15	1.23	-01:56 -44.8

Fo 1400
So 1400

Sheet #: 3

Telescope: 61"

Frame prefix: SP98C

Date: 98 Apr 30 / May 01

Focus: 4340

Iris: 300

Humidity: 55%

Tailpiece: N-S

Balance: 3000/350

Temp: 46/50

Guidepoint:

Observers: Fevig, Collins, Fink

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.
049	1036 Gargamel	300	0.5	18K	10:59	20:04:58.1	+08:46:22	1.22	LHA PA -01:51 -43.6
050	"	"	"	17K	11:05	20:04:58.6	+08:46:30	1.20	-01:45 -42.3 Approaching stars
051	"	"	"	18K	11:11	58.9	45:37	1.19	-01:38 -40.7
Fink, Fevig									
Fridg night 12/11/02									
realign good: 2" FWHM									
~15" FW									
052	Tsuphichen	120	0.5	2/230/130	05:23	06:23:03.6	+27:45:44	1.74	PA - bright star check +4:17 +68
053	"	"	"	2/200/130	03:44	06.8	45:53	1.95	4:17 +67.1 ever exp trouble after 20 minutes
054	"	"	"	2/200/120	04:05	09.9	45:57	2.24	4:15 +65.7
055	"	"	"	2/200/120	04:27	13.2	46:01	2.62	5:15 +14.2
056	Sprouchen	1200	0.5	410/140/120	4:30	-2000 2000	+24:16:57	1.28	-2:31 -68
057	"	"	"	420/140/120	5:22	50:59.1	59:21	1.14	-2:05 -68
058	"	"	"	580/140/120	5:30	52.6	25:01:17	1.09	-1:42 Jump in east - PA Darkslide in @ 507
059	"	993	"	380/140/120	6:14	dark hour pass 42.9	Thrup limit 05:06	1.06	-1:22 PA out @ 300
060	1948 HE3	1200	"	220/150/120	6:14	141:12:44.5	-02:07:12	1.21	-0:10 PA Darkslide in @ 262 out @ 162
061	"	1200	"	230/150/120	7:05	23.7	06:08	1.21	+6:10 +4
062	"	"	"	230/140/120	7:26	26.1	05:09	1.22	+0:31 +11
063	"	1064	"	2170/140/120	7:47	14.3	04:30	1.24	01:52 +14 Darkslide in out 461 out out 325

WATS

Telescope: 61"
 Date: 98 May 01/02
 Focus: 4430
 Iris: 3.0
 Tailpiece: N-S
 Balance: 350

Humidity: 58%
 Temp: 39/44
 Guidepoint:

Frame prefix: SP98c

Observers: Fink, Fay

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.
069	1998 HEZ	1085	0.5D	Net ~ 700 2270/1470/1260	8:06	14:12:02.7	-02:02:57	1.28	+1:13 +28.5 PA Darkslide in @ 200
065	"	1200	"	Net ~ 700 2230/1490/1240	8:28	11:50:08	01:53	1.32	+1:34 +31.2
066	1998 FXZ	1200	"	Net ~ 1500 3000/1410/1250	9:02	16:18:48.1	+29:49:48	1.00	+00:01 +7.7
067	"	"	"	Net ~ 1600 3050/1400/1250	9:23	16:18:50.2	+29:49:38	1.00	+00:22 +61.8
068	"	"	"	Net ~ 1500 3000/1420/1280	9:44	16:18:52.1	+29:49:29	1.01	+00:43 +72.9
069	"	"	"	Net ~ 1300 2850/1430/1260	10:04	16:18:54.0	+29:49:20	1.03	+01:03 +75.9
070	"	"	"	Net ~ 1300 2810/1420/1200	10:24	16:18:55.9	+29:49:11	1.05	+01:24 +77.0
071	Comp. 615 BS6538	2	1.0	21K	10:55	17:31:57	+34:16:59	1.01	
072	"	"	"	19K	10:56			1.01	
073	"	"	"		10:56			1.01	
074	"	"	"	21K	10:57			1.01	
075	"	"	"	19K	10:58			1.01	
076	"	"	"	16K	10:59			1.01	
077	"	"	"	18K	10:59			1.01	
078	Comp 619 BS5911	1.5	"	25K	11:04	15:53:06.3	+13:12:35	1.29	
079	"	"	"	22K	11:05			1.29	
080	"	"	"	22K	11:06			1.29	
081	"	"	"	24K	11:06			1.30	
082	"	"	"	25K	11:07			1.30	
083	"	"	"	18K	11:08			1.30	
084	"	"	"	22K	11:09			1.30	
085	Comp 517 BS8283	0.8	"	21K	11:15	21:41:27.3	-14:03:21	2.33	
086	"	"	"	21K	11:16			2.32	
087	"	"	"	24K	11:17			2.31	
088	"	"	"	24K	11:17			2.30	
089	"	"	"	25K	11:18			2.29	
090	"	"	"	24K	11:19			2.28	
091	"	"	"	23K	11:19			2.27	

85

Sheet #: 6

Telescope: 6"

Frame prefix: SP89C

Focus: 4930
Iris: 3.0
Tailpiece: N-S
Balance: 3.50

Humidity:

Guidepoint:

Date: May 12/03

Start night

Observers: Fink, Collins, Fung, Scott, Tuck

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Photo	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
157-176	BS 4594	0.05	1.0	15 174 175 116 24 14 19 20K	5:46	11 48 58.0	+13 35 24	1-10	2.14 2.43 2.58 2.82 5.96 4.25 4.25 4.4P 6-32 6.55 2.68 6-20 6.41 3-72 5.89 4.8
157-160	BS 4594	0.07	1.0	15 174 175 116 17 21 21 17	5:52	11 53 44.1	+15 44 40	1.11 ^{→112}	PA 12:15 +9P Spc Spt
161-164	BS 4602	0.07	1.0	101 102 103 104 104 106 107 108	6:04	12 15 45.2	-17 31 28	1-64	1.10 +18 Spc Spt, PA 1.11 +18 Spc Spt, PA
165-168	BS 3951	0.20	1.0	165 166 167 168 20 24 25 25		10 00 54.8	+18 15 54	1.47	2:44 +74 AM Cnr
169-172	BS 4691	1.40	1.0	169 170 171 172 28 29 20 20K	6:25	12 20 05.9	-22 09 58	1.92 ^{→114}	1.23 +126 1.25 +111 1.25 +111 0.1P +67
173-176	BS 4785	0.30	1.0	173 174 175 176 22 23 23 26		12 33 38.6	+41 25 37	1-06	1.25 +111
177-180	BS 4983	0.30	1.0	177 178 179 180 31 29 31 28		13 11 47	+27 05 41	1.02 →1.05	0.1P +67
181-184	BS 5072	0.40	1.0	181 182 183 184 17 17 17 17		13 28 20.8	+13 47 19	1-07	0:47 +88
185-188	BS 5148	2.0	1.0	185 186 187 188 27 28 27	7:02	13 40 18.9	+50 32 22	1-06	0:43 +102
189-192	BS 5183	1.20	1.0	189 190 191 192 22 26 25 27	7:04	13 46 52.0	+06 21 31	1.13	0:41 +19
193-196	BS 5235	1.00	1.0	193 194 195 196 34 30 32 29K	7:15	13 54 33.4	+18 24 55	1-04	0:41 +21
197-200	BS 5270	1.80	1.0	197 198 199 200 ? 53 32 31K	7:23	14 02 26.8	+09 41 39	1.10	0:39 +20
201-204	BS 5357	0.20	1.0	201 202 203 204 18 22 17 19		10 00 59.4	+31 56 22	2.05 ^{→2.06}	2.05 3:15 +68 AM Cnr
205-208	BS 5423	2.0	1.0	205 206 207 208 24 22 24 20K	7:34	14 24 32	+41 44 52	1-02	0:28 +146
209-212	BS 5511	0.20	1.0	209 210 211 212 21 21 18 19		14 46 09	+01 59 25	1-16	0:21 +08
213-216	BS 5554	1.30	1.0	213 214 215 216 14 20 23 20K	7:57	14 50 10	+23 55 37	1-02	0:26 +33
217-220	BS 3151	0.20	1.0	217 218 219 220 20 18 18 20	8:02	10 00 54	+31 56 20	2.58 ^{→2.59}	2.58 5:23 +65 AM Cnr
221-224	BS 5619	0.40	1.0	221 222 223 224 19 17 19 17		15 03 43	+47 41 21	1-04	0:28 957

589

1.64
+97
261

Sheet #: 7

Telescope: 61"
 Date: May 02/13
 Observers: Fink, Fong, Collins, Scott

Humidity:
 Temp:
 Guidepoint:

Focus: 9430
 Iris: 3.5
 Tailpiece: N-5
 Balance: 8.00

Frame prefix: SP89C

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.
225-228	BS 5659	2.50	1.0	25 26 27 28	8:20	15 12 38.6	19 18 00	1.03	0:38 a 2nd vtr peak-in-which 2:36 PA
229-232	BS 5685	0.07	1.1	26 24 22 24K 22 20 18 21 22	8:27	15 16 00.0	-09 22 12	1.35	2:07 PA 0:31 10 SFA
233-236	BS 5727	1.30	1.1	25 19 21 15 25 24 23 26 41 32 31 28 24 23 22 20	8:55	15 23 08	+30 18 10	1.01	0:32 72
237-240	BS 5734	2.0	1.1	15 16 15	9:57	15 24 26	+37 22 40	1.02	0:48 114
241-244	BS 5805	3.0	1.1	241 242 243 244 16 15 14 14	9:10	15 43 06	02 31 12	1.16	0:35 19
245-248	BS 5868	0.40	1.1	245 246 247 248 32 33 32 30K		15 46 21	+07 21 59	1.12	0:39 19
249-252	BS 5911	1.30	1.1	244 245 246 247 20 22 20 21K		15 53 07	13 12 06	1.07	0:38 23
253-256	BS 5743	0.06	1.1	253 254 255 256 24 24 22 20		15 34 36	26 43 40	1.04	4:05 64 136h SFA
257-260	BS 5168	0.60	1.1	257 258 259 260 20 18 17 16	9:25	16 00 58	33 18 31	1.01	0:44 93
261-264	WFFts SP88C 099			-148					
265-268	BS 6441	3.0	1.1	261 262 263 264 75 29 27 24	10:14	17 20 28.2	-19 19 52	1.61	0:13 03
269-272	BS 648	1.50	1.1	265 266 247 268 16 22 25 21	10:22	17 20 35.5	32 28 42	1.00	0:23 491
273-276	BS 6538	3.0	1.1	269 270 271 272 26 29 30	10:24	17 31 57.2	34 16 06	1.00	0:19 415
277-280	BS 6623	1.40	1.1	273 274 275 276 38 30 26 28	10:36	17 40 25.5	27 43 48	1.00	6:11 428
281-284	BS 6629	0.20	1.1	277 278 279 280 17 15 15 17		17 47 48.5	02 42 10	1.15	0:17 407 SFA
285-288	BS 6836	3.0	1.1	281 282 283 284 26 28 29 24	10:52	18 17 17	-28 17 23	2.03	-0:03 -01
289-292	BS 6847	2.50	1.1	285 286 287 288 32 29 30 28	11:01	18 15 24	45 12 32	1.03	0:05 474

quickly complete clouds; reobser for quite a while:
 Sharp peak S stars to catch up: 5946, 6060, 6055, 6219, 6269

5
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Sheet #: 8

Telescope: 61"

Frame prefix: SP18C

Focus:
Iris:
Tailpiece:
Balance:

Date: May 02/03
Sat-mid

Humidity:
Temp:

Observers: Fink, Fox, Scott

Guidepoint:

5-86
0-02
2-99
5-98
6-20
6-75

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Photo	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
289-292	RS 688	1.0	1.0	28 20 21 22	11:13	18 38 47	-21 02 59	1-67	-00203 -1
293-296	RS 701	0.01	1	29 24 21 26	11:25	18 36 52.6	+38 48 27	1-01	+00109 +161.6 Sta Vega
297-300	RS 7235	0.10	1	24 28 24 30	11:52	19 05 19.9	+13 52 05	1-05	-00211 -7 87d
301-304	RS 7503	1.5	1	20 18 18		19 41 46.0	+50 32 51	1-06	-00236 -15
305-308	7504	1.8	1	20 20 20 24	11:48	19 41 49.0	32 24	1-06	-00232 -119
308-311	7243 + 7244	2.15	1	25 25 25		19 12 01.5	49 02 02	1-05	-00202 +117 2 stars merged!
98 May 03/04 Sunday Night									
312-316	Dome Flats	11	2.0	Peak 27K	-	-	-	-	
	WFFs	299-339					299-311 ✓		
							312-339		

405 = 245

140

Sheet #: 9

Frame prefix: SP98C

Telescope: 61"

Focus:

Iris: 300

Tailpiece: N-S

Balance: 3000/350

Humidity:

Temp:

Observers: Ferguson, Fink Collins

Guidepoint: 342.9, 396.4

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.
317	1998 HT31	1200	0.5	Net ~ 300 5700/1840/1450	6:35	15:13:13.5	+04:59:27	1.18	LHA PA -01:12 -29.8 LEO on cross-hairs on
318	"	"	"	Net ~ 350 5620/1820/1400	6:55	:23.9	+05:04:10	1.15	-00:51 -22.5 LEO on cross-hairs on
319	"	"	"	Net ~ 270 4600/1830/1400	7:16	:33.3	08:33	1.13	-00:31 -14.2 LED on cross-hairs on
320	"	"	"	Net ~ 250 4530/1910/1400	7:37	:42.1	12:56	1.12	LED on cross-hairs on for first 5 minutes
321	"	1080	"	Net ~ 250 4510/1920/1380	7:58	:52.8	17:25	1.12	Darkslide in @ 385
322	"	1200	"	Net ~ 3350 5160/1740/1370	8:19	:02.8	21:54	1.13	+00:31 +14.3
323	"	"	"	480/120/130	8:40	:12.7	26:27	1.15	+00:51 +22.7
324	"	1200	"	430/170/190	9:02	14:23.2	31:10	1.17	+1:14 t31 Dim star passed rapidly through asteroid
325	B55968	0:30	1-0	13K	9:30	15:46.21	+07:21 50	1.15	+1:08 t30 the object is pretty blank.
326	"	"	"	12K		"	"		
327	"	0:60	"	21K		"	"		
328	"	"	"	22K		"	"		
329	"	"	"	28K		"	"		
330	"	"	"	25K	9:57	"	"	1.16	1:16
331	"	"	"	20K	9:45	16:20.58	+33 18:18	1.03	1:08 t40
332	B55968	1:20	"	24K	9:45				
333	"	"	"	25K	9:45				
334	"	"	"	22K					
335	"	"	"	27K					
336	"	"	"	30K	9:48			1.04	1:13 PA
337	1918 FT2	1200	0.0	Net ~ 1200 2800/1620/1300	9:58	16:24 10.5	29 28:20	1.03	1:10 t79
338	"	"	"	2700/1680/1360	10:19	12.5	08	1.05	1:21 76
339	"	1	"	2000/1880/1330	10:41	14.1	27:56	1.02	1:42 t76 clouds & cirrus
340	"	"	"	2000/2060/1350	11:02 (pull forward)	15.9	46	1.12	2:04 t76 } gently heating

seeing ~ "

Sheet #: 1

Telescope: 61"

Frame prefix: TI98C

Focus: 434D

Humidity:

Date: Apr 30/May 01

Iris: 300

Tailpiece: N-S

Balance: 3000/350

Temp:

Guidepoint: 342.9, 396.4

Observers: Fevig, Fink

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	Tsushima	120	B/Di	600K 971/478	4:00	6:19:42.6	+27:43:12	~2.2	
001	"	"	"		~4:20			~2.5	
002	"	"	"		~4:24			~2.6	
003	"	"	"		~4:36			~2.8	
004	"	"	"		~4:41			~3.0	
X	Storehouse	30	B/Di	100K 1000/1000	5:00	14:57:37.3	+22:49:07	1.26	
005	"	"	"		5:08	14:57:40.0	+22:50:22	1.23	
006	"	"	"		5:10			1.22	
007	"	"	"		5:15	14:57:37.9	+22:51:03	1.21	
008	"	"	"		5:56	14:57:25.3	+22:54:56	~1.11	
009	"	"	"	"	6:06	14:57:22.3	+22:55:32	1.09	
X	1998 HE3	45	B/Di	6500 273/938	6:36	14:24:46.4	-03:15:06	1.24	
009	"	60	B/Di		6:39	14:24:41.8	-03:14:16	1.24	Name in header incorrect
010	"	"	"	8700 400/1000	6:42			1.24	Name in header correct
→071									
072→ 076	B5 5183	0.2	"	800K 324/817					Note: 00045 = Jump in the East MAY-08:02
077→ 081	B5 5968 Comp	0.1	"	800K 47478/785					
082→ 086	B5 4277	0.08	"	675K 3641/817					

1.74 seeing < " "

Sheet #: 3

Focus: 4430
 Iris: 300
 Tailpiece: N-5
 Humidity: 55%
 Balance: 3000/350
 Temp: 46°/50°
 Guidepoint: 342.9, 396.4

Telescope: 61 "

Date: 98 May 01/02
 Friday Night

Frame prefix: TI98C

Observers: Fevig, Fink

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	Pfirschingshan 1	120	B/Di	157K 1000/5000	3:20	6:23:03.5	+27:45:49	1.74	
0127	"	"	"		~3:30			~1.82	
0128	"	"	"		3:39	6:23:05.9	+27:45:53	1.90	
0129	"	"	"	215K 920/4700	3:48	6:23:07.4	+27:45:54	2.00	
0130	"	"	"	282K 850/4800	4:04	6:23:09.8	+27:45:57	2.22	
X	Refocused, new			4390					
X	c/Stonehaus 30		B/Di	90K 1100/1170	5:02	14:51:08.7	+24:57:05	1.21	
0131	"	"	"		5:16	14:51:02.5	+24:58:19	1.17	
0132	"	"	"	96K 1100/1100	5:54	14:50:51.5	+25:01:37	1.09	
0133	"	"	"		6:15	14:50:41.6	+25:03:30	1.05	
0134	"	"	"		6:28	14:50:37.9	+25:04:55	1.04	
X	1998 HE3 60		B/Di		6:46	14:12:51.3	+02:07:24	1.21	
1341 → 2787	"	"	"	10K 600/1280	6:44			1.21	
X	1998 FX2 45		B/Di		9:00	16:18:47.8	+29:49:49	1.00	
0188 → 257	"	"	"	16K 320/1000	9:02	16:18:48.3	+29:49:46	1.00	
238 → 241	B56538	0.2		715K 872/2689					
242 → 246	B55911	"		1.03x10 ⁶ 901/36K					
247 → 251	B58283	0.1		924K 849/33460	11:16	21:41:30	+14:05:25	2.28	

