

GOMOS Daily Report 22-JUN-2010

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	25JUN2010 04:50:46
Data source version	GOMOS/5.01
Start time of products	22JUN2010 00:13:55
Stop time of products	22JUN2010 23:59:56
Store outputs in DB	Yes
Nb of level 1b prods	120
Nb of prods with errors	0

2. Summary of products arrived in PCF (Product Control Facility)

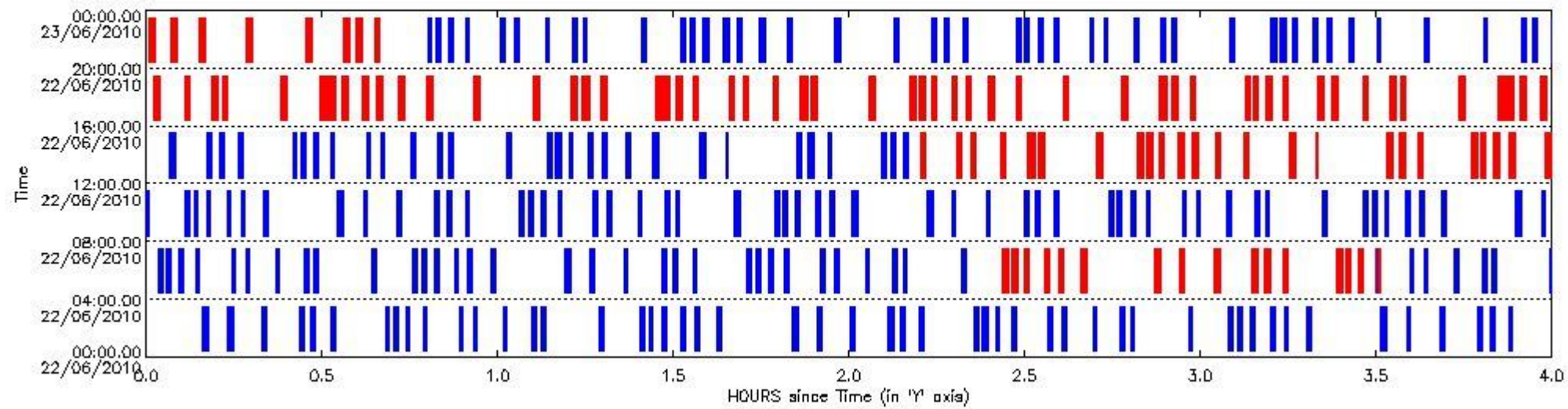
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
22-JUN-2010 06:26:11	11BetCas	74	43446
22-JUN-2010 06:27:42	18AlpCas	68	43446
22-JUN-2010 06:29:51	23GamPer	160	43446
22-JUN-2010 06:33:17	57Gam1And	73	43446
22-JUN-2010 06:35:40	4BetTri	173	43446
22-JUN-2010 06:39:28	13AlpAri	50	43446
22-JUN-2010 06:52:12	DSA1066	0	43446
22-JUN-2010 06:56:33	16BetCet	52	43446
22-JUN-2010 07:02:17	AlpPhe	84	43446
22-JUN-2010 07:08:43	BetGru	63	43447
22-JUN-2010 07:10:46	AlpGru	31	43447
22-JUN-2010 07:14:00	AlpPav	45	43447
22-JUN-2010 07:23:19	20EpsSgr	38	43447
22-JUN-2010 07:24:45	19DelSgr	116	43447
22-JUN-2010 07:26:56	41PiSgr	155	43447

22-JUN-2010 07:29:47	35EtaOph	86	43447
22-JUN-2010 14:12:11	35EtaOph	86	43451
22-JUN-2010 14:18:17	60BetOph	126	43451
22-JUN-2010 14:20:42	55AlpOph	59	43451
22-JUN-2010 14:25:54	40ZetHer	133	43451
22-JUN-2010 14:30:31	3AlpLyr	5	43451
22-JUN-2010 14:32:22	23BetDra	130	43451
22-JUN-2010 14:42:15	5AlpCep	89	43451
22-JUN-2010 14:49:09	11BetCas	74	43451
22-JUN-2010 14:50:40	18AlpCas	68	43451
22-JUN-2010 14:52:51	23GamPer	160	43451
22-JUN-2010 14:56:17	57Gam1And	73	43451
22-JUN-2010 14:58:40	4BetTri	173	43451
22-JUN-2010 15:02:29	13AlpAri	50	43451
22-JUN-2010 15:07:18	92AlpCet	94	43451
22-JUN-2010 15:15:15	DSA1066	0	43451
22-JUN-2010 15:19:39	16BetCet	52	43451
22-JUN-2010 15:31:48	BetGru	63	43452
22-JUN-2010 15:33:50	AlpGru	31	43452
22-JUN-2010 15:37:03	AlpPav	45	43452
22-JUN-2010 15:46:20	20EpsSgr	38	43452
22-JUN-2010 15:47:46	19DelSgr	116	43452
22-JUN-2010 15:49:57	41PiSgr	155	43452
22-JUN-2010 15:52:47	35EtaOph	86	43452
22-JUN-2010 15:58:52	60BetOph	126	43452
22-JUN-2010 16:01:17	55AlpOph	59	43452
22-JUN-2010 16:06:30	40ZetHer	133	43452
22-JUN-2010 16:11:07	3AlpLyr	5	43452
22-JUN-2010 16:12:58	23BetDra	130	43452
22-JUN-2010 16:22:50	5AlpCep	89	43452
22-JUN-2010 16:29:44	11BetCas	74	43452
22-JUN-2010 16:31:16	18AlpCas	68	43452
22-JUN-2010 16:33:27	23GamPer	160	43452
22-JUN-2010 16:36:53	57Gam1And	73	43452
22-JUN-2010 16:39:16	4BetTri	173	43452
22-JUN-2010 16:43:05	13AlpAri	50	43452
22-JUN-2010 16:47:55	92AlpCet	94	43452
22-JUN-2010 16:55:51	DSA1066	0	43452
22-JUN-2010 17:05:58	AlpPhe	84	43452
22-JUN-2010 17:12:24	BetGru	63	43453
22-JUN-2010 17:14:27	AlpGru	31	43453
22-JUN-2010 17:17:39	AlpPav	45	43453
22-JUN-2010 17:26:56	20EpsSgr	38	43453
22-JUN-2010 17:28:22	19DelSgr	116	43453
22-JUN-2010 17:30:33	41PiSgr	155	43453
22-JUN-2010 17:33:23	35EtaOph	86	43453
22-JUN-2010 17:39:28	60BetOph	126	43453
22-JUN-2010 17:41:53	55AlpOph	59	43453
22-JUN-2010 17:47:05	40ZetHer	133	43453
22-JUN-2010 17:51:42	3AlpLyr	5	43453
22-JUN-2010 17:53:34	23BetDra	130	43453
22-JUN-2010 18:03:25	5AlpCep	89	43453
22-JUN-2010 18:10:20	11BetCas	74	43453
22-JUN-2010 18:11:51	18AlpCas	68	43453
22-JUN-2010 18:14:03	23GamPer	160	43453
22-JUN-2010 18:17:29	57Gam1And	73	43453
22-JUN-2010 18:19:52	4BetTri	173	43453
22-JUN-2010 18:23:42	13AlpAri	50	43453
22-JUN-2010 18:28:31	92AlpCet	94	43453

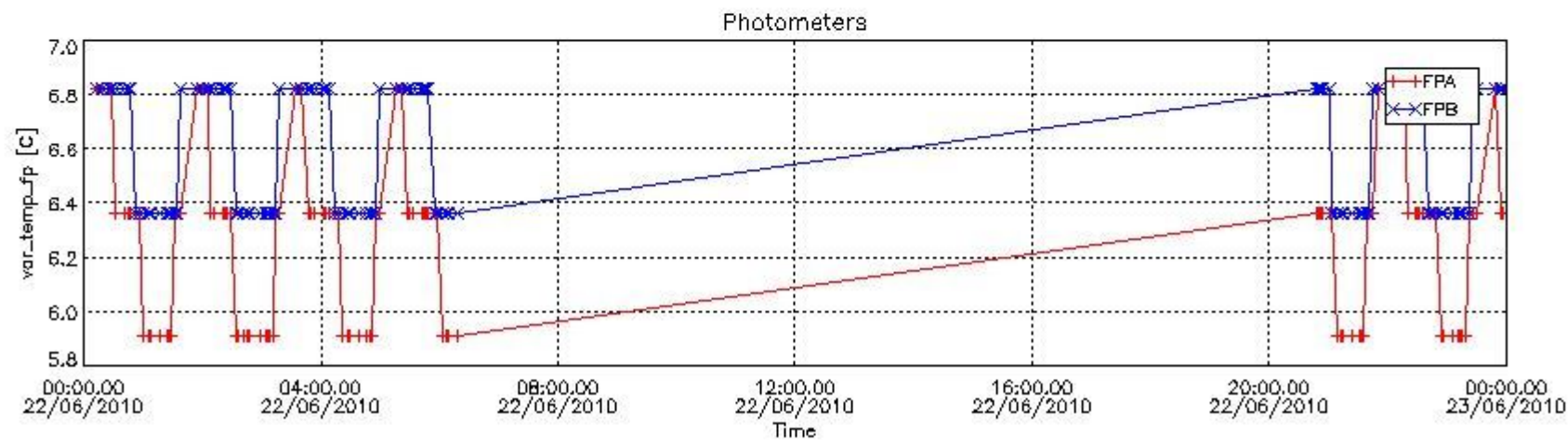
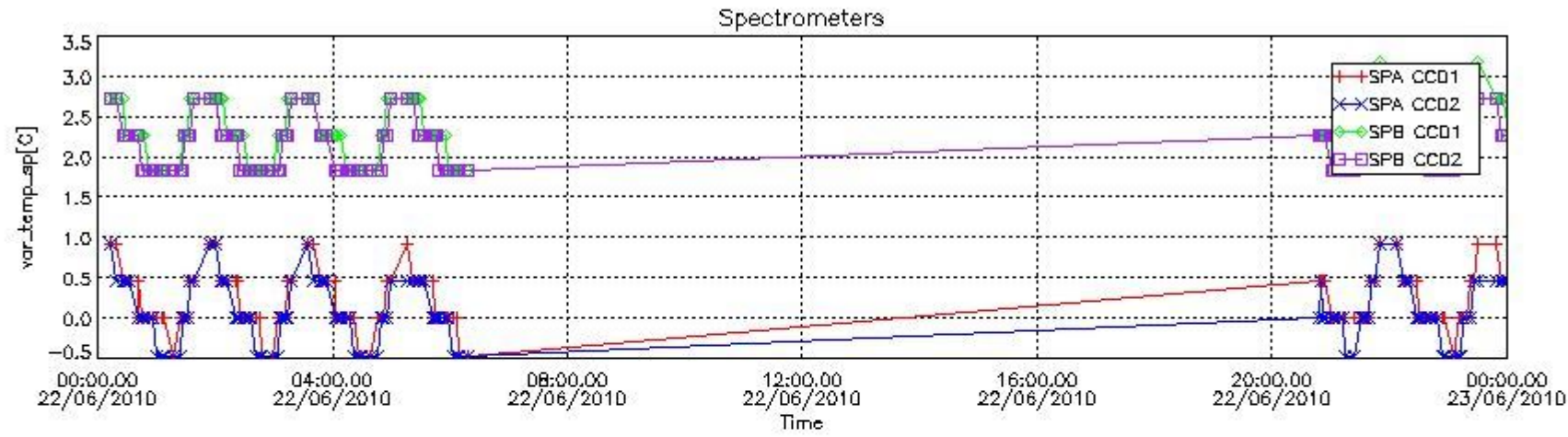
22-JUN-2010 18:36:28	DSA1066	0	43453
22-JUN-2010 18:46:35	AlpPhe	84	43453
22-JUN-2010 18:53:01	BetGru	63	43454
22-JUN-2010 18:55:04	AlpGru	31	43454
22-JUN-2010 18:58:16	AlpPav	45	43454
22-JUN-2010 19:07:33	20EpsSgr	38	43454
22-JUN-2010 19:08:58	19DelSgr	116	43454
22-JUN-2010 19:11:09	41PiSgr	155	43454
22-JUN-2010 19:13:59	35EtaOph	86	43454
22-JUN-2010 19:20:04	60BetOph	126	43454
22-JUN-2010 19:22:29	55AlpOph	59	43454
22-JUN-2010 19:27:41	40ZetHer	133	43454
22-JUN-2010 19:32:17	3AlpLyr	5	43454
22-JUN-2010 19:34:09	23BetDra	130	43454
22-JUN-2010 19:44:00	5AlpCep	89	43454
22-JUN-2010 19:50:55	11BetCas	74	43454
22-JUN-2010 19:52:27	18AlpCas	68	43454
22-JUN-2010 19:54:39	23GamPer	160	43454
22-JUN-2010 19:58:05	57Gam1And	73	43454
22-JUN-2010 20:00:28	4BetTri	173	43454
22-JUN-2010 20:04:18	13AlpAri	50	43454
22-JUN-2010 20:09:07	92AlpCet	94	43454
22-JUN-2010 20:17:05	DSA1066	0	43454
22-JUN-2010 20:27:12	AlpPhe	84	43454
22-JUN-2010 20:33:38	BetGru	63	43455
22-JUN-2010 20:35:41	AlpGru	31	43455
22-JUN-2010 20:38:52	AlpPav	45	43455

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100622_001355_000000522090_00302_43442_1108.N1	22-JUN-2010 00:13:55	Dark	52.000	52	16Bet Cet	2.0370	4500.0	104	43442	No
2	GOM_TRA_1PNPDE20100622_001940_000000452090_00302_43442_1109.N1	22-JUN-2010 00:19:40	Dark	44.500	84	Alp Phe	2.3970	4500.0	89	43442	No
3	GOM_TRA_1PNPDE20100622_002606_000000512090_00303_43443_1110.N1	22-JUN-2010 00:26:06	Dark	51.000	63	Bet Gru	2.1500	2800.0	102	43443	No
4	GOM_TRA_1PNPDE20100622_002809_000000482090_00303_43443_1111.N1	22-JUN-2010 00:28:09	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	43443	No
5	GOM_TRA_1PNPDE20100622_003125_000000492090_00303_43443_1112.N1	22-JUN-2010 00:31:25	Straylight	48.500	45	Alp Pav	1.9400	26000.	97	43443	No
6	GOM_TRA_1PNPDE20100622_004045_000000482090_00303_43443_1113.N1	22-JUN-2010 00:40:45	Twilight	47.500	38	20Eps Sgr	1.8360	11000.	95	43443	No
7	GOM_TRA_1PNPDE20100622_004211_000000512090_00303_43443_1114.N1	22-JUN-2010 00:42:11	Twilight	51.000	116	19Del Sgr	2.7000	4100.0	102	43443	No
8	GOM_TRA_1PNPDE20100622_004422_000000382090_00303_43443_1115.N1	22-JUN-2010 00:44:22	Bright	38.000	155	41Pi Sgr	2.9000	6600.0	76	43443	No
9	GOM_TRA_1PNPDE20100622_004714_000000392090_00303_43443_1116.N1	22-JUN-2010 00:47:14	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	43443	No
10	GOM_TRA_1PNPDE20100622_005321_000000412090_00303_43443_1117.N1	22-JUN-2010 00:53:21	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	43443	No
11	GOM_TRA_1PNPDE20100622_005546_000000402090_00303_43443_1118.N1	22-JUN-2010 00:55:46	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	43443	No
12	GOM_TRA_1PNPDE20100622_010058_000000362090_00303_43443_1119.N1	22-JUN-2010 01:00:58	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	43443	No
13	GOM_TRA_1PNPDE20100622_010540_000000522090_00303_43443_1120.N1	22-JUN-2010 01:05:40	Bright	51.500	5	3Alp Lyr	0.033000	11000.	103	43443	No
14	GOM_TRA_1PNPDE20100622_010728_000000382090_00303_43443_1121.N1	22-JUN-2010 01:07:28	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	43443	No
15	GOM_TRA_1PNPDE20100622_011723_000000482090_00303_43443_1122.N1	22-JUN-2010 01:17:23	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	43443	No
16	GOM_TRA_1PNPDE20100622_012416_000000472090_00303_43443_1123.N1	22-JUN-2010 01:24:16	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	43443	No
17	GOM_TRA_1PNPDE20100622_012546_000000462090_00303_43443_1124.N1	22-JUN-2010 01:25:46	Bright	46.000	68	18Alp Cas	2.2250	4500.0	92	43443	No
18	GOM_TRA_1PNPDE20100622_012754_000000532090_00303_43443_1125.N1	22-JUN-2010 01:27:54	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	43443	No
19	GOM_TRA_1PNPDE20100622_013120_000000462090_00303_43443_1126.N1	22-JUN-2010 01:31:20	Bright	45.500	73	57Gam1And	2.2600	13100.	91	43443	No
20	GOM_TRA_1PNPDE20100622_013343_000000452090_00303_43443_1127.N1	22-JUN-2010 01:33:43	Twilight	44.500	173	4Bet Tri	3.0040	8900.0	89	43443	No
21	GOM_TRA_1PNPDE20100622_013731_000000482090_00303_43443_1128.N1	22-JUN-2010 01:37:31	Twilight	47.500	50	13Alp Ari	2.0070	4250.0	95	43443	No
22	GOM_TRA_1PNPDE20100622_015432_000000522090_00303_43443_1129.N1	22-JUN-2010 01:54:32	Dark	52.000	52	16Bet Cet	2.0370	4500.0	104	43443	No
23	GOM_TRA_1PNPDE20100622_020017_000000462090_00303_43443_1130.N1	22-JUN-2010 02:00:17	Dark	46.000	84	Alp Phe	2.3970	4500.0	92	43443	No
24	GOM_TRA_1PNPDE20100622_020643_000000502090_00304_43444_1131.N1	22-JUN-2010 02:06:43	Dark	50.000	63	Bet Gru	2.1500	2800.0	100	43444	No
25	GOM_TRA_1PNPDE20100622_020846_000000522090_00304_43444_1132.N1	22-JUN-2010 02:08:46	Straylight	51.500	31	Alp Gru	1.7340	15200.	103	43444	No
26	GOM_TRA_1PNPDE20100622_021202_000000442090_00304_43444_1133.N1	22-JUN-2010 02:12:02	Straylight	44.000	45	Alp Pav	1.9400	26000.	88	43444	No
27	GOM_TRA_1PNPDE20100622_022121_000000462090_00304_43444_1134.N1	22-JUN-2010 02:21:21	Twilight	45.500	38	20Eps Sgr	1.8360	11000.	91	43444	No

87	GOM_TRA_1PNPDE20100622_211436_000000412090_00315_43455_1310.N1	22-JUN-2010 21:14:36	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	43455	No
88	GOM_TRA_1PNPDE20100622_212426_000000492090_00315_43455_1311.N1	22-JUN-2010 21:24:26	Bright	48.500	89	5Alp Cep	2.4510	8000.0	97	43455	No
89	GOM_TRA_1PNPDE20100622_213122_000000472090_00315_43455_1312.N1	22-JUN-2010 21:31:22	Bright	46.500	74	11Bet Cas	2.2680	6600.0	93	43455	No
90	GOM_TRA_1PNPDE20100622_213253_000000492090_00315_43455_1313.N1	22-JUN-2010 21:32:53	Bright	48.500	68	18Alp Cas	2.2250	4500.0	97	43455	No
91	GOM_TRA_1PNPDE20100622_213506_000000542090_00315_43455_1314.N1	22-JUN-2010 21:35:06	Bright	54.000	160	23Gam Per	2.9300	4700.0	108	43455	No
92	GOM_TRA_1PNPDE20100622_213831_000000552090_00315_43455_1315.N1	22-JUN-2010 21:38:31	Bright	55.000	73	57Gam1And	2.2600	13100.	110	43455	No
93	GOM_TRA_1PNPDE20100622_214055_000000432090_00315_43455_1316.N1	22-JUN-2010 21:40:55	Twilight	43.000	173	4Bet Tri	3.0040	8900.0	86	43455	No
94	GOM_TRA_1PNPDE20100622_214445_000000512090_00315_43455_1317.N1	22-JUN-2010 21:44:45	Dark	51.000	50	13Alp Ari	2.0070	4250.0	102	43455	No
95	GOM_TRA_1PNPDE20100622_214934_000000392090_00315_43455_1318.N1	22-JUN-2010 21:49:34	Dark	39.000	94	92Alp Cet	2.5260	3100.0	78	43455	No
96	GOM_TRA_1PNPDE20100622_220739_000000532090_00315_43455_1323.N1	22-JUN-2010 22:07:39	Dark	53.000	84	Alp Phe	2.3970	4500.0	106	43455	No
97	GOM_TRA_1PNPDE20100622_221406_000000502090_00316_43456_1324.N1	22-JUN-2010 22:14:06	Dark	49.500	63	Bet Gru	2.1500	2800.0	99	43456	No
98	GOM_TRA_1PNPDE20100622_221609_000000502090_00316_43456_1325.N1	22-JUN-2010 22:16:09	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	43456	No
99	GOM_TRA_1PNPDE20100622_221920_000000502090_00316_43456_1326.N1	22-JUN-2010 22:19:20	Straylight	50.000	45	Alp Pav	1.9400	26000.	100	43456	No
100	GOM_TRA_1PNPDE20100622_222836_000000462090_00316_43456_1327.N1	22-JUN-2010 22:28:36	Twilight	45.500	38	20Eps Sgr	1.8360	11000.	91	43456	No
101	GOM_TRA_1PNPDE20100622_223002_000000472090_00316_43456_1328.N1	22-JUN-2010 22:30:02	Bright	47.000	116	19Del Sgr	2.7000	4100.0	94	43456	No
102	GOM_TRA_1PNPDE20100622_223213_000000522090_00316_43456_1329.N1	22-JUN-2010 22:32:13	Bright	51.500	155	41Pi Sgr	2.9000	6600.0	103	43456	No
103	GOM_TRA_1PNPDE20100622_223503_000000392090_00316_43456_1330.N1	22-JUN-2010 22:35:03	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	43456	No
104	GOM_TRA_1PNPDE20100622_224106_000000402090_00316_43456_1331.N1	22-JUN-2010 22:41:06	Bright	40.000	126	60Bet Oph	2.7700	4250.0	80	43456	No
105	GOM_TRA_1PNPDE20100622_224331_000000392090_00316_43456_1332.N1	22-JUN-2010 22:43:31	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	43456	No
106	GOM_TRA_1PNPDE20100622_224844_000000372090_00316_43456_1333.N1	22-JUN-2010 22:48:44	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	43456	No
107	GOM_TRA_1PNPDE20100622_225318_000000442090_00316_43456_1334.N1	22-JUN-2010 22:53:18	Bright	44.000	5	3Alp Lyr	0.033000	11000.	88	43456	No
108	GOM_TRA_1PNPDE20100622_225511_000000362090_00316_43456_1335.N1	22-JUN-2010 22:55:11	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	43456	No
109	GOM_TRA_1PNPDE20100622_230502_000000452090_00316_43456_1336.N1	22-JUN-2010 23:05:02	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	43456	No
110	GOM_TRA_1PNPDE20100622_231157_000000672090_00316_43456_1337.N1	22-JUN-2010 23:11:57	Bright	67.000	74	11Bet Cas	2.2680	6600.0	134	43456	No
111	GOM_TRA_1PNPDE20100622_231329_000000652090_00316_43456_1338.N1	22-JUN-2010 23:13:29	Bright	65.000	68	18Alp Cas	2.2250	4500.0	130	43456	No
112	GOM_TRA_1PNPDE20100622_231541_000000542090_00316_43456_1339.N1	22-JUN-2010 23:15:41	Bright	54.000	160	23Gam Per	2.9300	4700.0	108	43456	No
113	GOM_TRA_1PNPDE20100622_231907_000000462090_00316_43456_1340.N1	22-JUN-2010 23:19:07	Bright	45.500	73	57Gam1And	2.2600	13100.	91	43456	No
114	GOM_TRA_1PNPDE20100622_232131_000000472090_00316_43456_1341.N1	22-JUN-2010 23:21:31	Twilight	46.500	173	4Bet Tri	3.0040	8900.0	93	43456	No
115	GOM_TRA_1PNPDE20100622_232521_000000532090_00316_43456_1342.N1	22-JUN-2010 23:25:21	Dark	52.500	50	13Alp Ari	2.0070	4250.0	105	43456	No
116	GOM_TRA_1PNPDE20100622_233010_000000382090_00316_43456_1343.N1	22-JUN-2010 23:30:10	Dark	38.000	94	92Alp Cet	2.5260	3100.0	76	43456	No
117	GOM_TRA_1PNPDE20100622_234816_000000482090_00316_43456_1340.N1	22-JUN-2010 23:48:16	Dark	48.000	84	Alp Phe	2.3970	4500.0	96	43456	No
118	GOM_TRA_1PNPDE20100622_235443_000000532090_00317_43457_1341.N1	22-JUN-2010 23:54:43	Dark	53.000	63	Bet Gru	2.1500	2800.0	106	43457	No
119	GOM_TRA_1PNPDE20100622_235645_000000512090_00317_43457_1342.N1	22-JUN-2010 23:56:45	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	43457	No
120	GOM_TRA_1PNPDE20100622_235956_000000422090_00317_43457_1343.N1	22-JUN-2010 23:59:56	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	43457	No

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

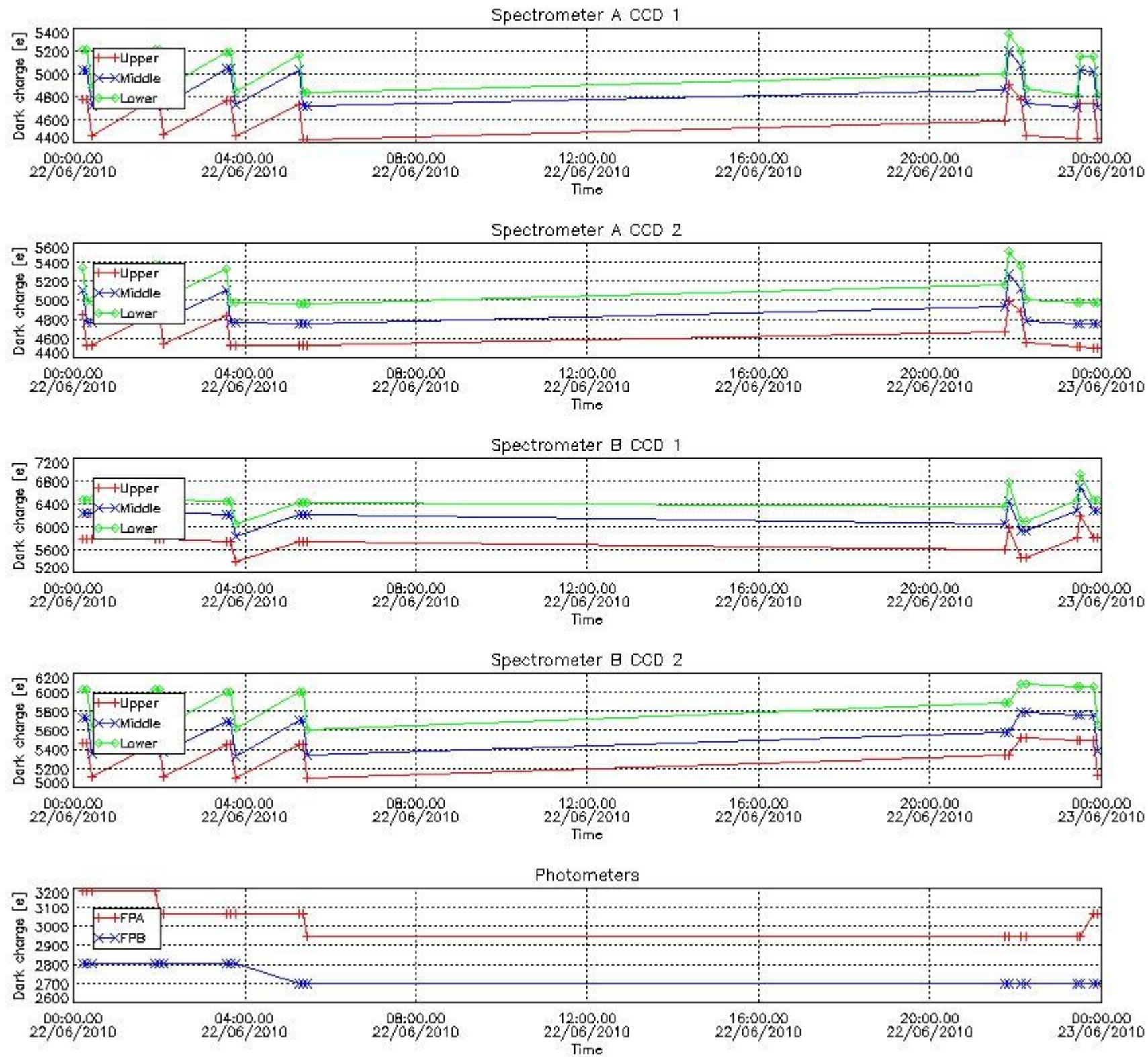
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20100622_204800_000000452090_00315_43455_1302.N1	DC map used
GOM_TRA_1PNPDE20100622_204926_000000462090_00315_43455_1303.N1	DC map used
GOM_TRA_1PNPDE20100622_205136_000000512090_00315_43455_1304.N1	DC map used
GOM_TRA_1PNPDE20100622_205426_000000382090_00315_43455_1305.N1	DC map used
GOM_TRA_1PNPDE20100622_210031_000000402090_00315_43455_1306.N1	DC map used
GOM_TRA_1PNPDE20100622_210256_000000422090_00315_43455_1307.N1	DC map used
GOM_TRA_1PNPDE20100622_210808_000000362090_00315_43455_1308.N1	DC map used
GOM_TRA_1PNPDE20100622_211243_000000442090_00315_43455_1309.N1	DC map used
GOM_TRA_1PNPDE20100622_211436_000000412090_00315_43455_1310.N1	DC map used
GOM_TRA_1PNPDE20100622_212426_000000492090_00315_43455_1311.N1	DC map used
GOM_TRA_1PNPDE20100622_213122_000000472090_00315_43455_1312.N1	DC map used
GOM_TRA_1PNPDE20100622_213253_000000492090_00315_43455_1313.N1	DC map used
GOM_TRA_1PNPDE20100622_213506_000000542090_00315_43455_1314.N1	DC map used
GOM_TRA_1PNPDE20100622_213831_000000552090_00315_43455_1315.N1	DC map used

GOM_TRA_1PNPDE20100622_214055_000000432090_00315_43455_1316.N1	DC map used
GOM_TRA_1PNPDE20100622_214445_000000512090_00315_43455_1317.N1	DC map used
GOM_TRA_1PNPDE20100622_214934_000000392090_00315_43455_1318.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



5. Demodulation flag and quality information monitoring

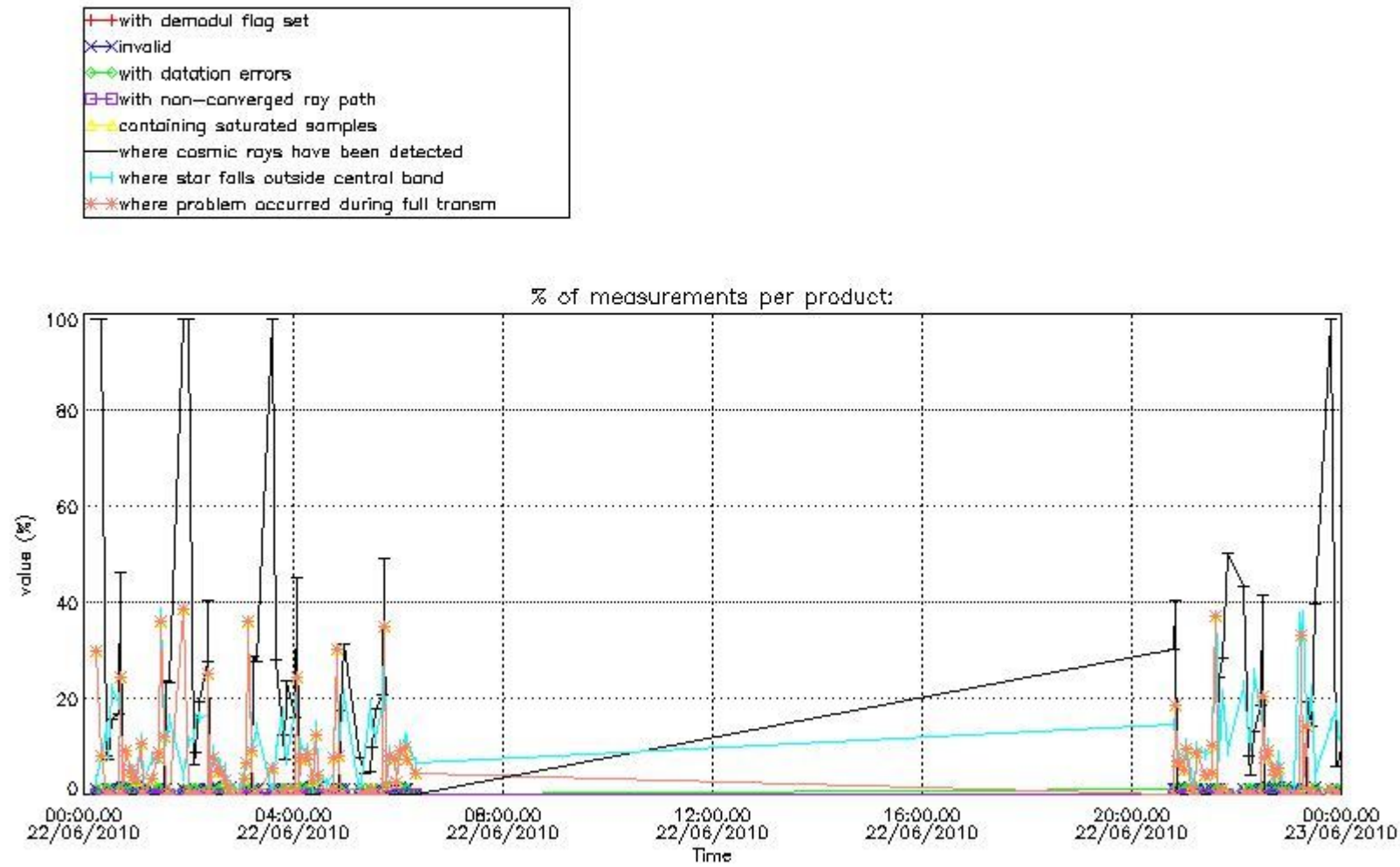
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors

(error flag in the MPH set to "0") are used.

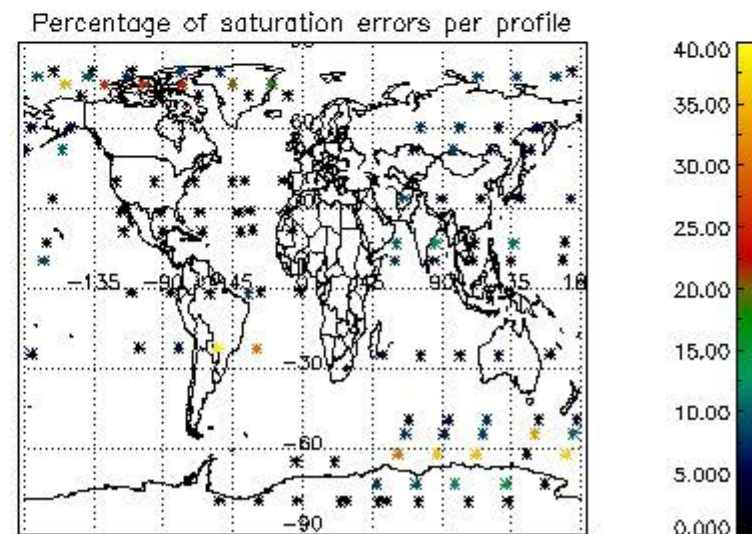
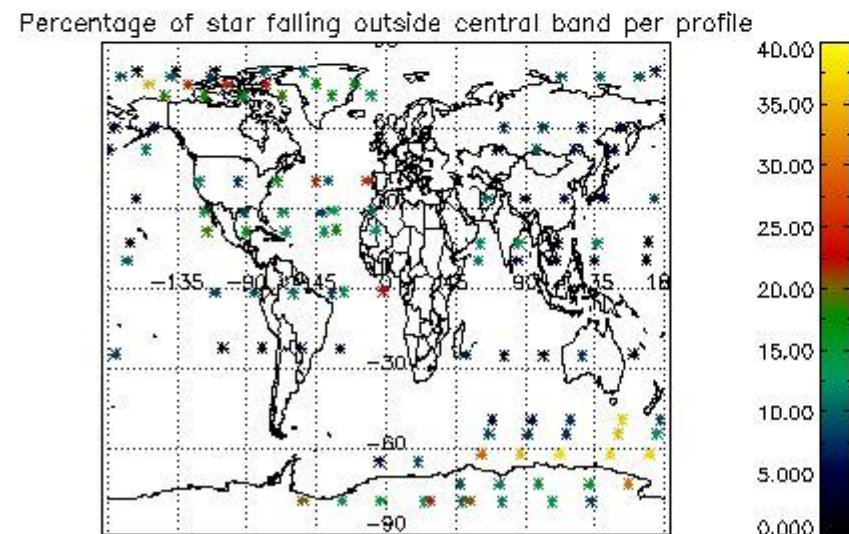
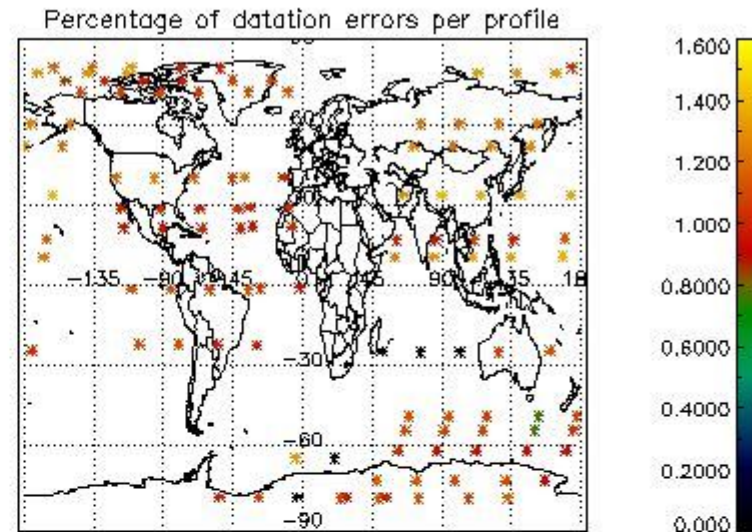
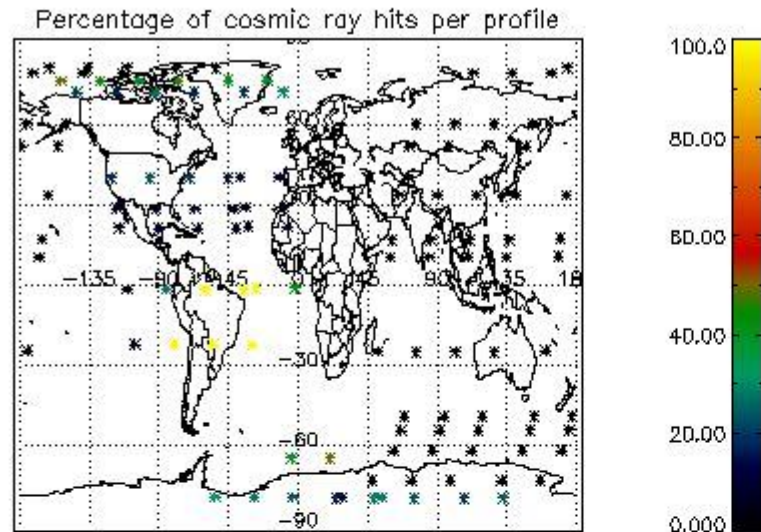
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	35.8333 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



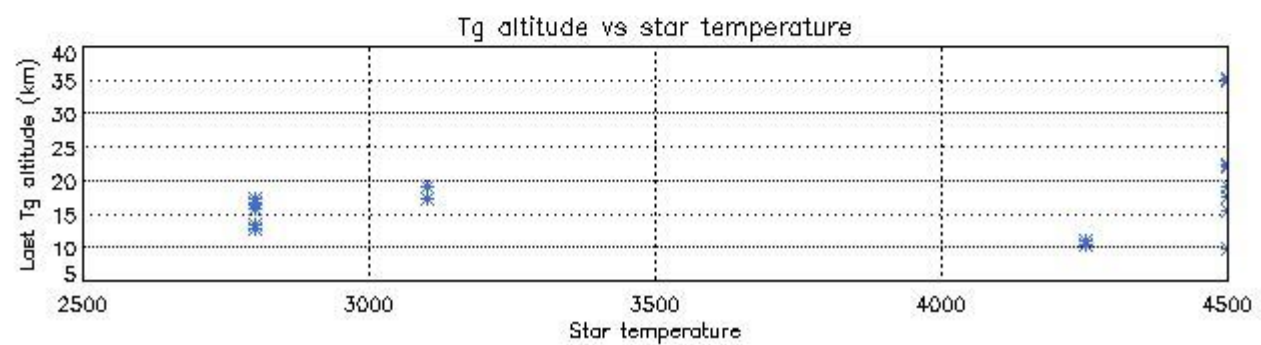
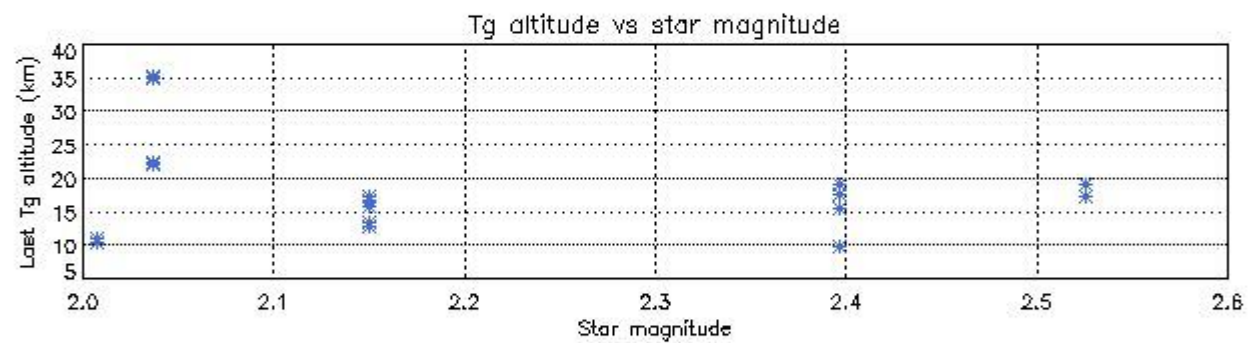
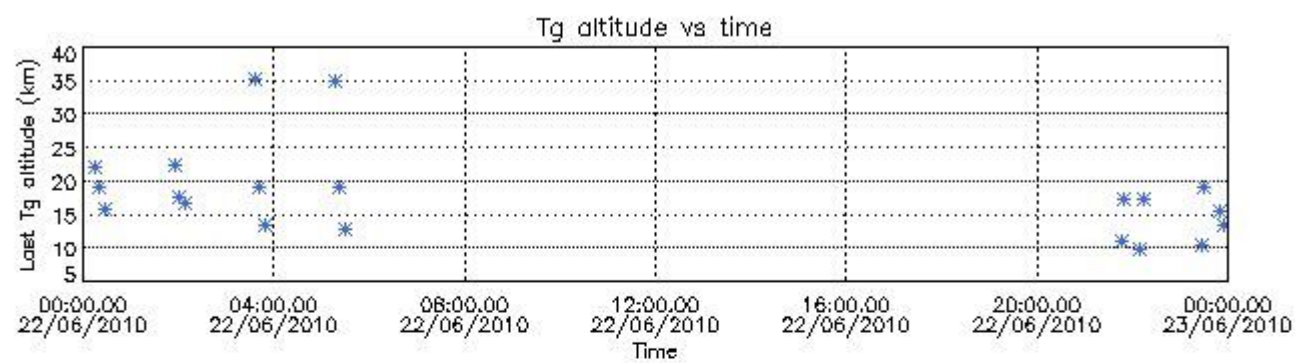
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.066	19.184	12.924
St. deviation:	6.7829	7.3163	1.5464
Maximum:	35.097	44.732	13.856
Minimum:	9.7650	3.6874	11.139
Number of data:	20.000	70.000	3.0000

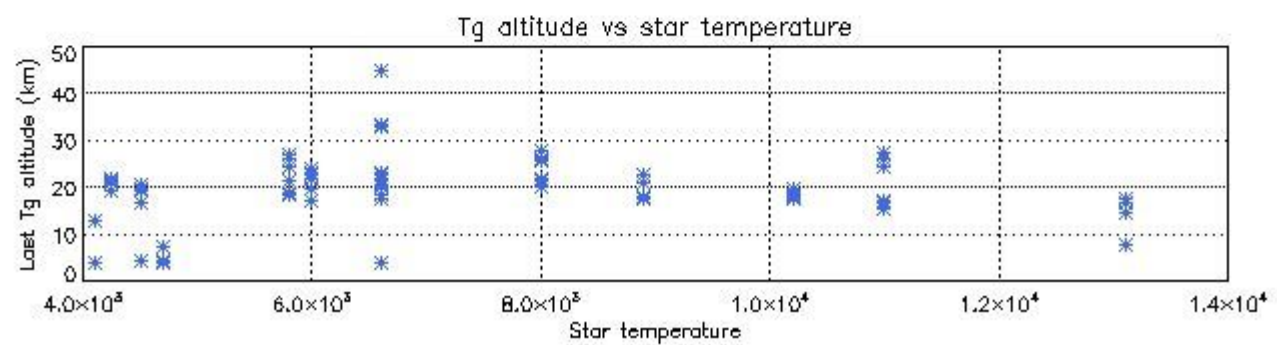
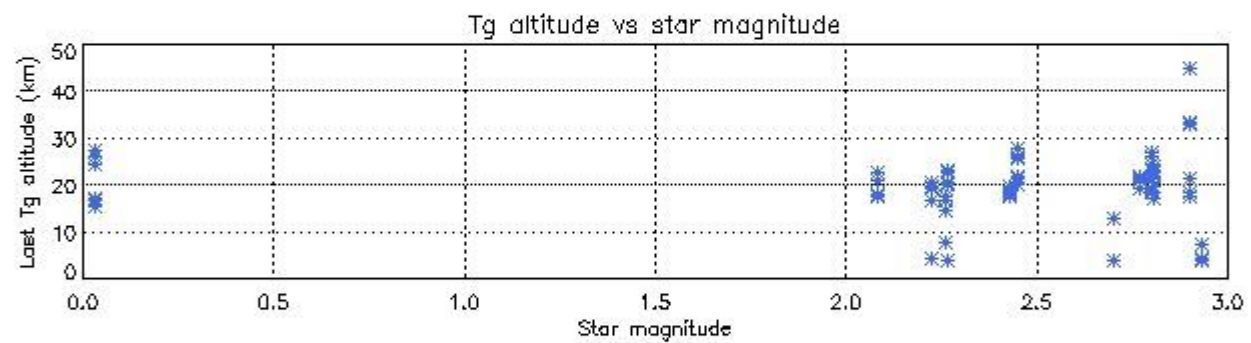
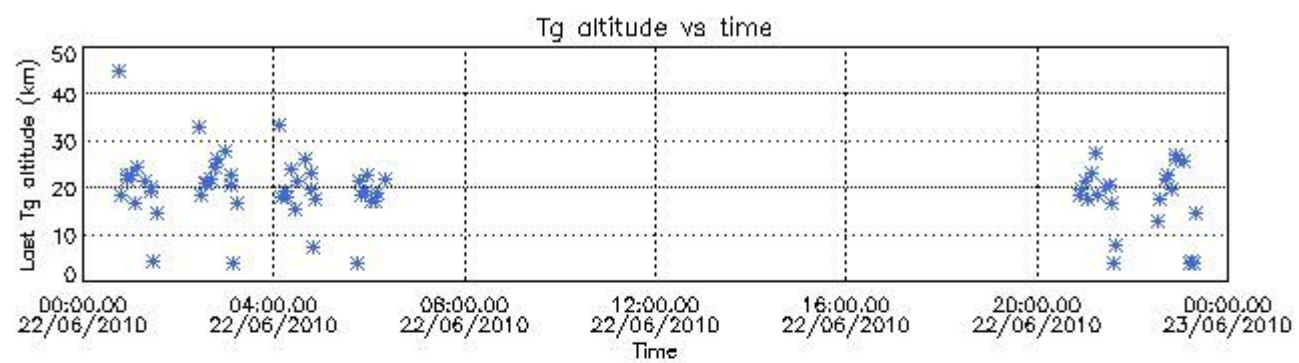
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



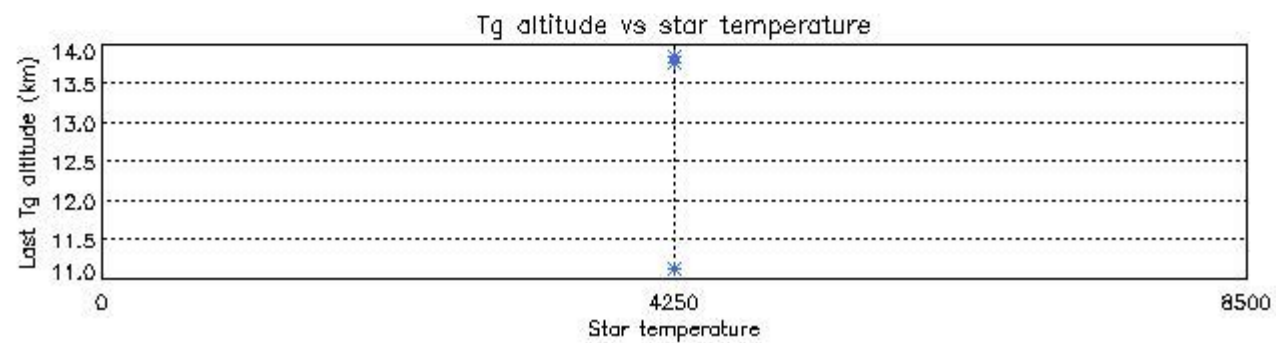
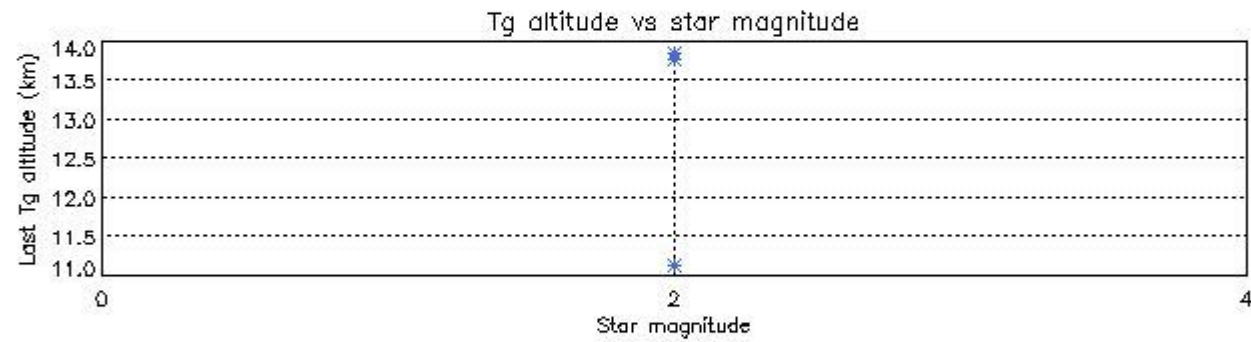
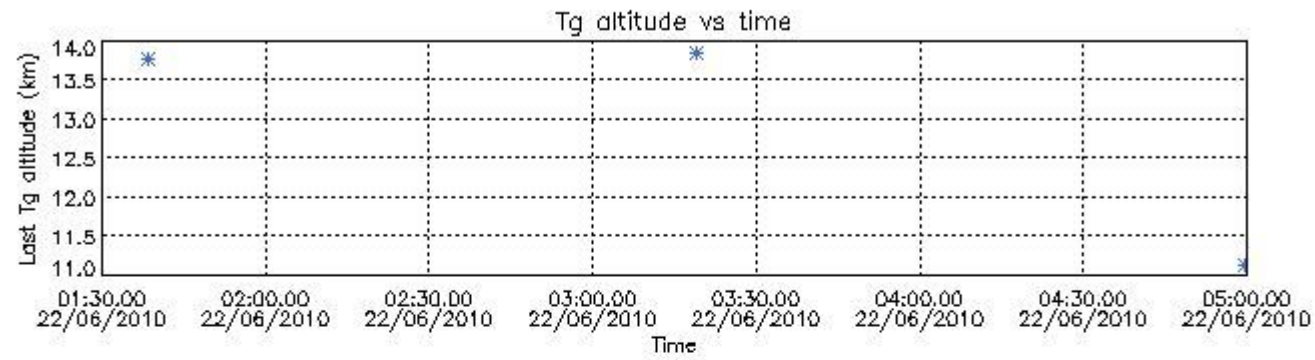
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

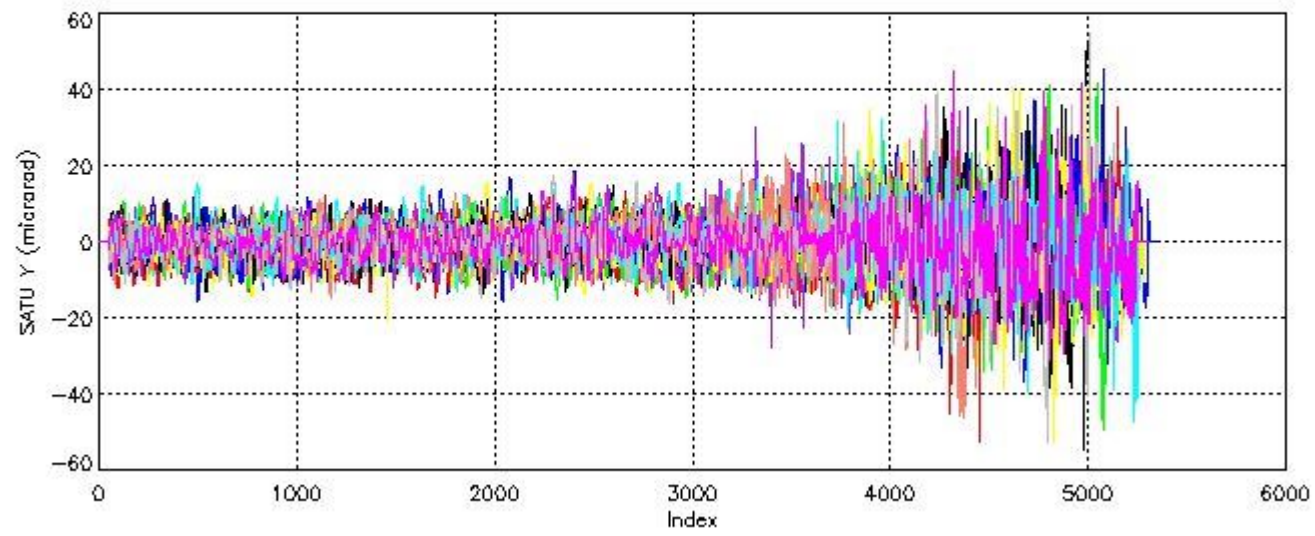
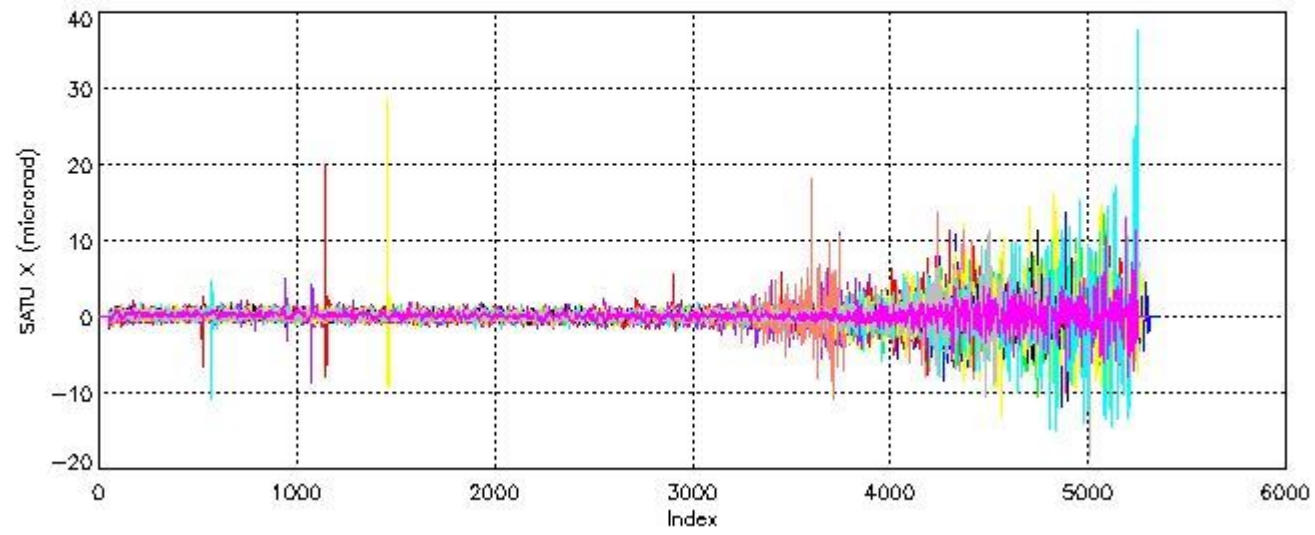


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.20079	-0.64992	0.23634	-0.63706
St. deviation:	0.39960	3.9079	0.74890	3.7134
Maximum:	20.000	15.300	4.6000	13.900
Minimum:	-10.900	-15.900	-3.7000	-17.100

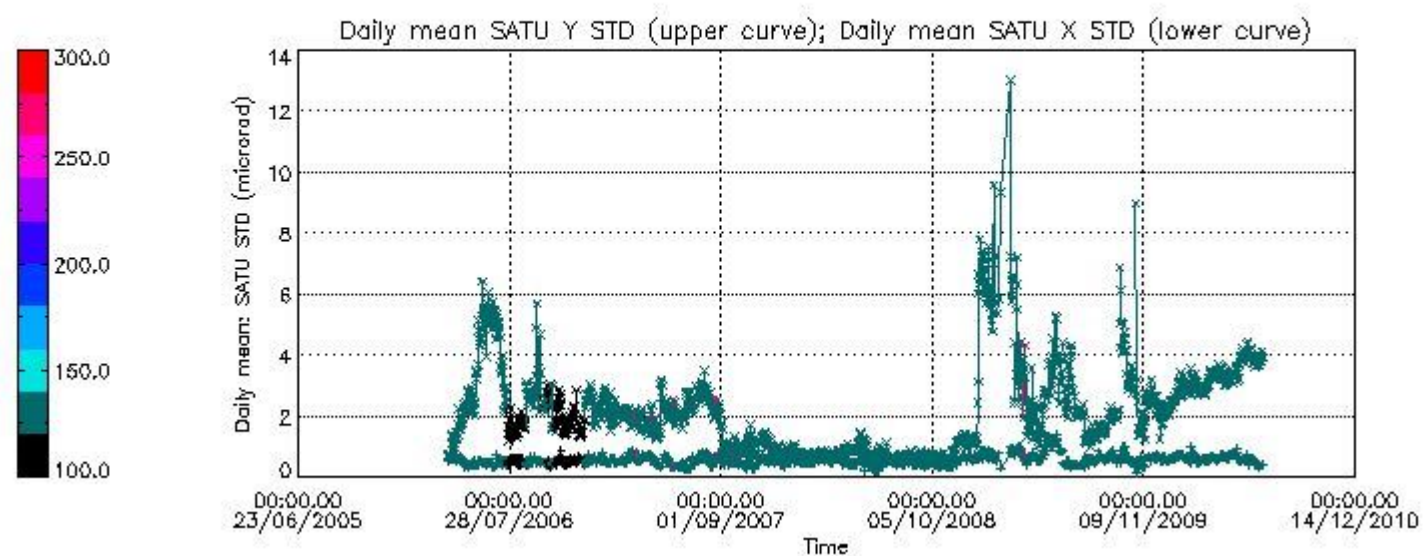
Number of data:	22150.	22150.	70950.	70950.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

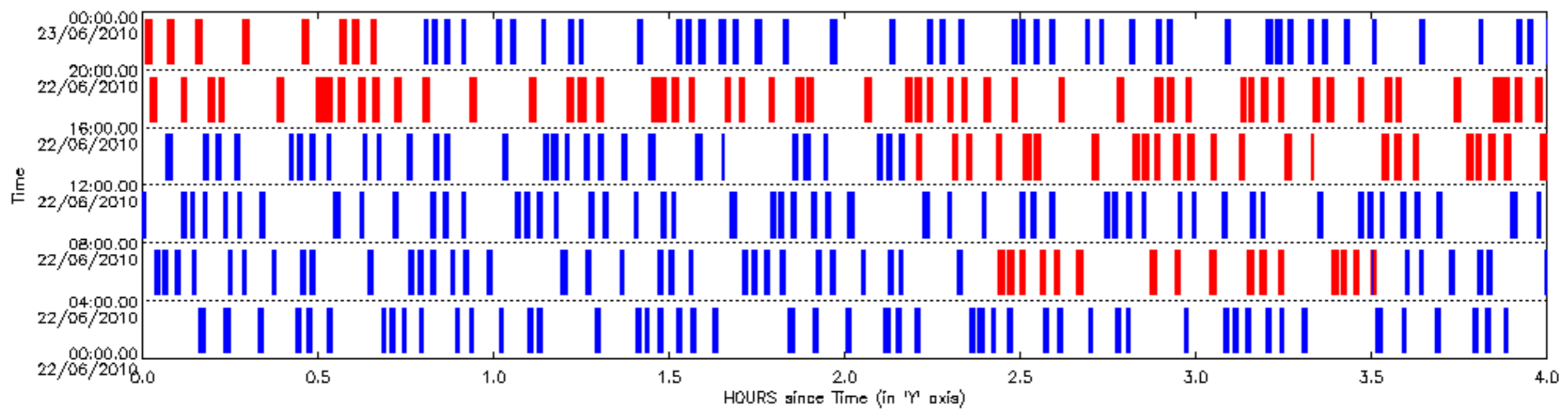
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

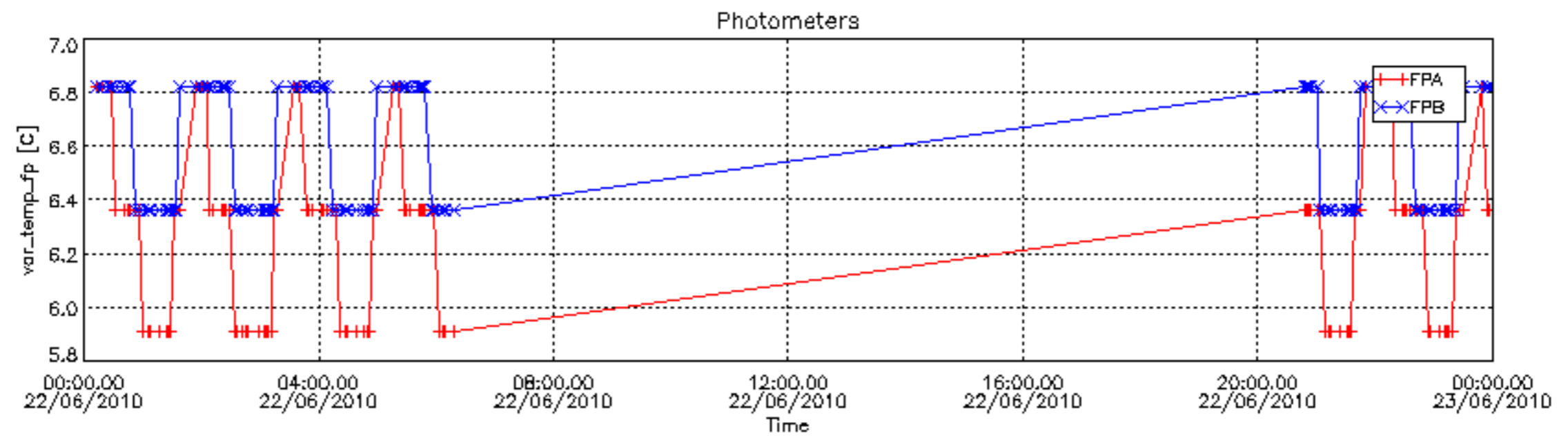
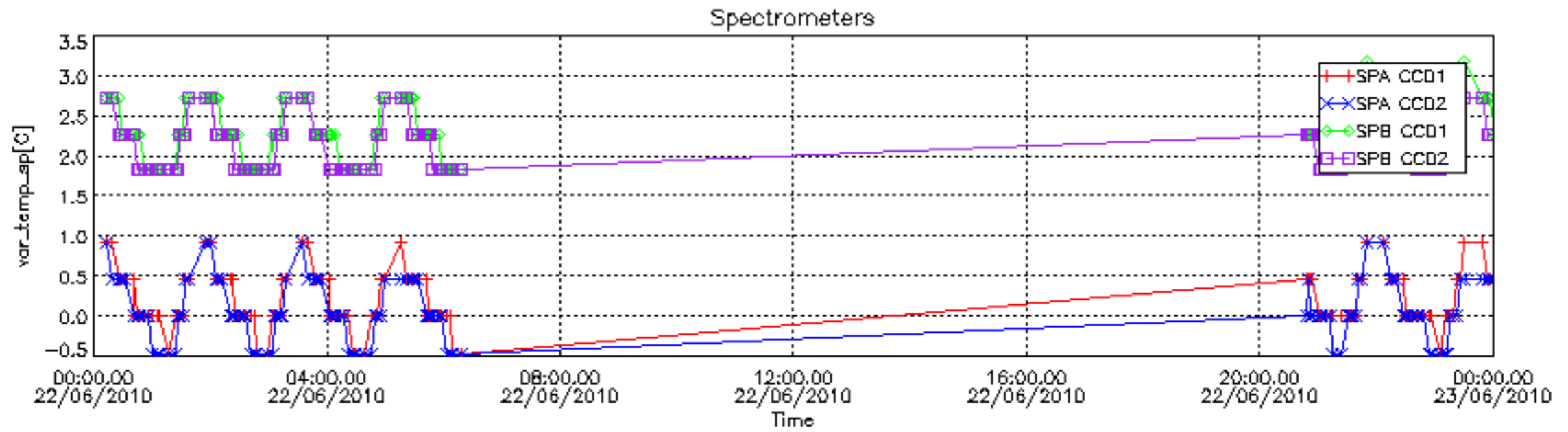


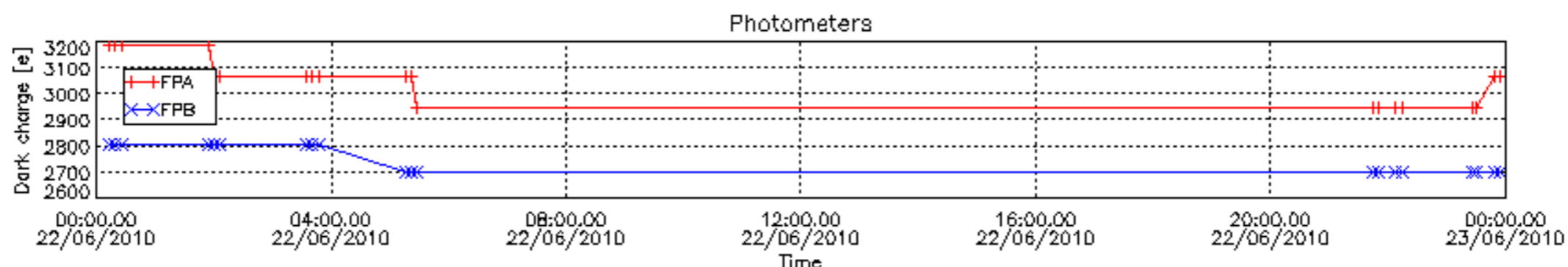
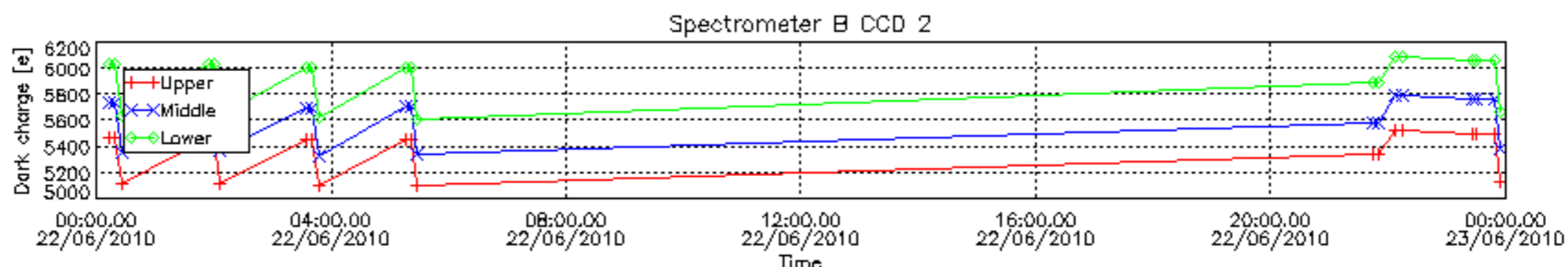
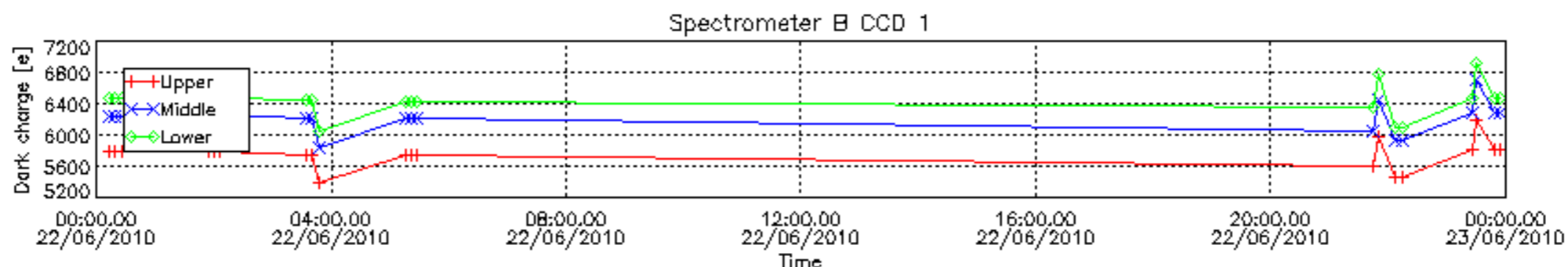
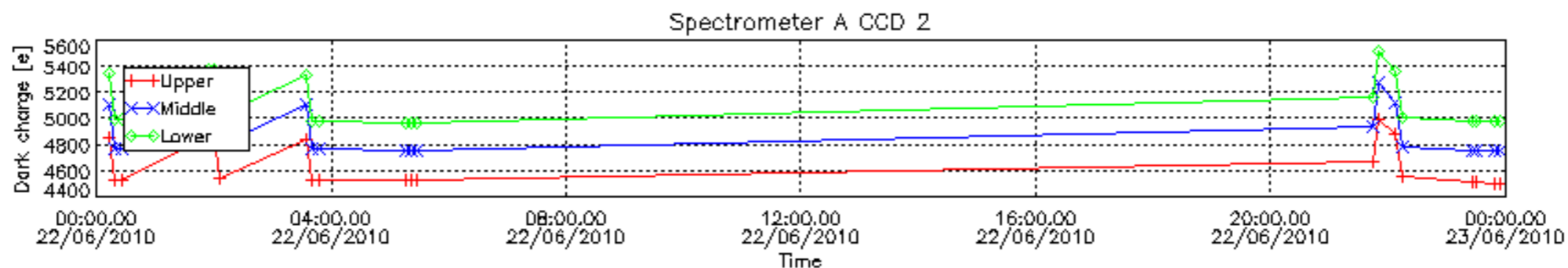
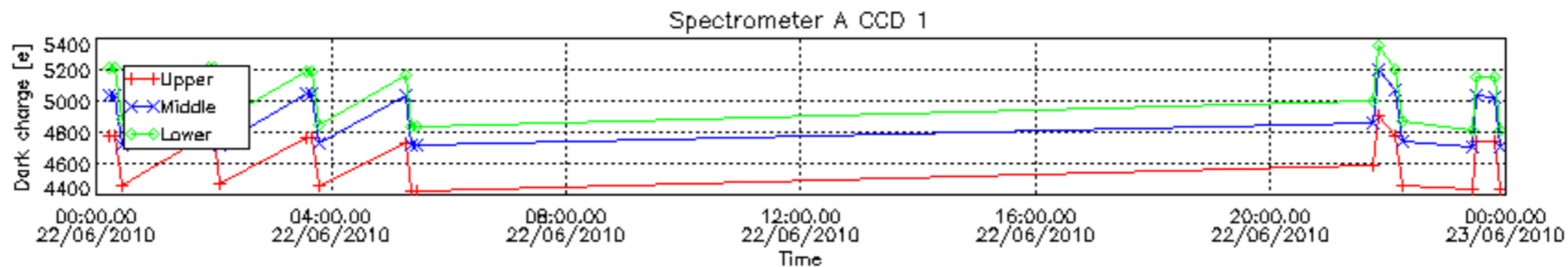
8. Auxiliary Data Files used for the production reported in section 2.4

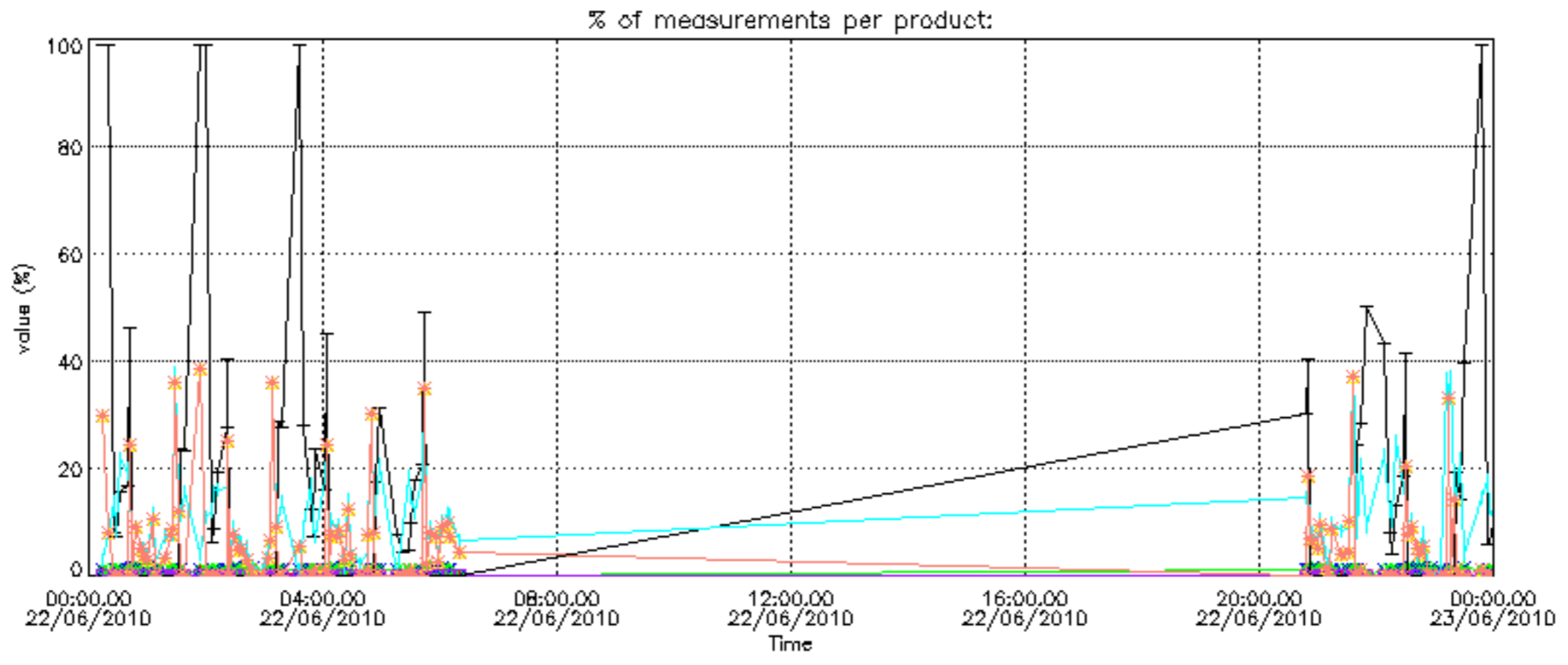
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-JUN-2010 00:13:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100615_083814_20100613_000000_20500101_000000	1	22-JUN-2010 00:13:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	22-JUN-2010 00:13:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-JUN-2010 00:13:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	22-JUN-2010 00:13:55
ECMWF_FILE	AUX_ECF_AXNECM20100621_053554_20100621_210000_20100622_090000	1	22-JUN-2010 00:13:55
ECMWF_FILE	AUX_ECF_AXNECM20100621_171557_20100622_030000_20100622_150000	37	22-JUN-2010 03:04:51
ECMWF_FILE	AUX_ECA_AXNECM20100622_052112_20100621_210000_20100622_090000	58	22-JUN-2010 04:45:27
ECMWF_FILE	AUX_ECF_AXNECM20100622_052113_20100622_150000_20100623_030000	79	22-JUN-2010 20:48:00
ECMWF_FILE	AUX_ECF_AXNECM20100622_054113_20100622_210000_20100623_090000	96	22-JUN-2010 22:07:39
OPTIONAL_ECMWF_FILE	MISSING	1	22-JUN-2010 00:13:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100622_000511_000057382090_00302_43442_0601.N1	1	22-JUN-2010 00:13:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100622_014608_000041442090_00303_43443_0602.N1	22	22-JUN-2010 01:54:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100622_030032_000057382090_00304_43444_0603.N1	37	22-JUN-2010 03:04:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100622_044128_000057382090_00305_43445_0604.N1	58	22-JUN-2010 04:45:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100622_203751_000041442090_00315_43455_0605.N1	79	22-JUN-2010 20:48:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100622_215214_000057382090_00315_43455_0606.N1	96	22-JUN-2010 22:07:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100622_233311_000057382090_00316_43456_0607.N1	117	22-JUN-2010 23:48:16

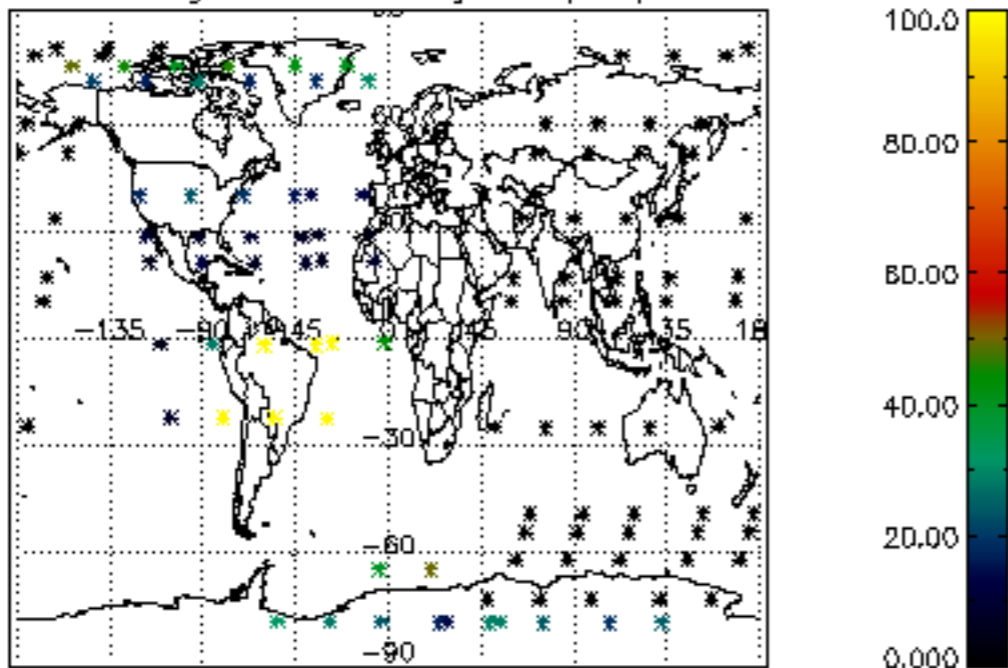




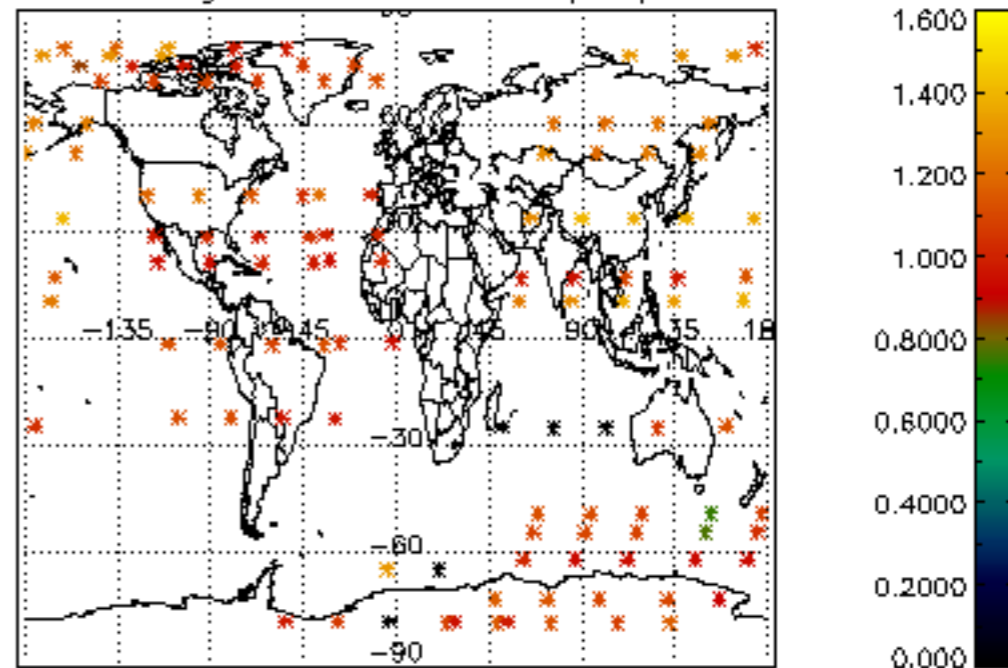




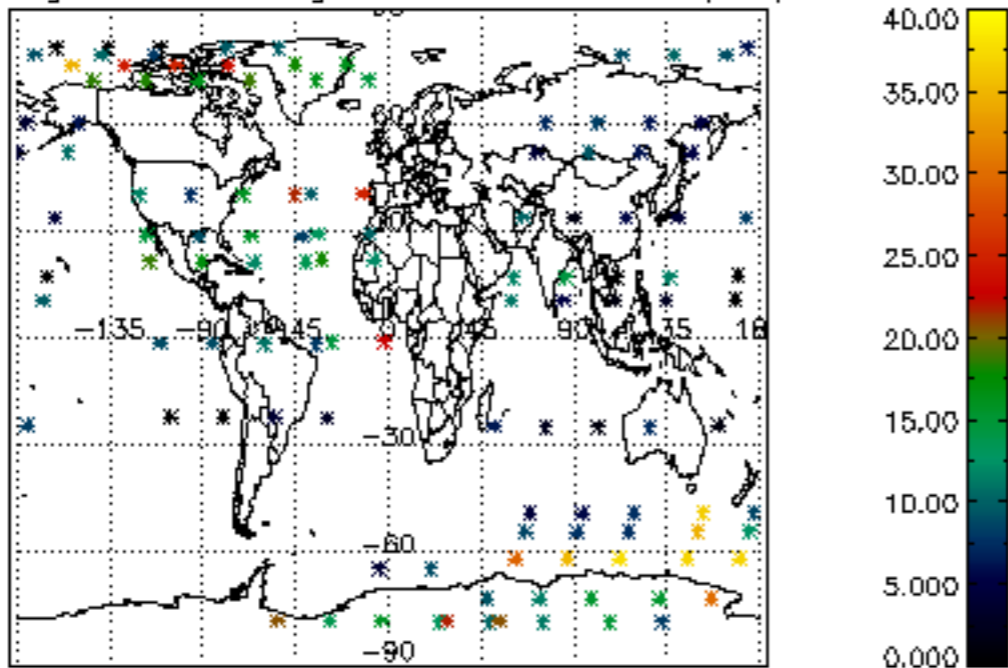
Percentage of cosmic ray hits per profile



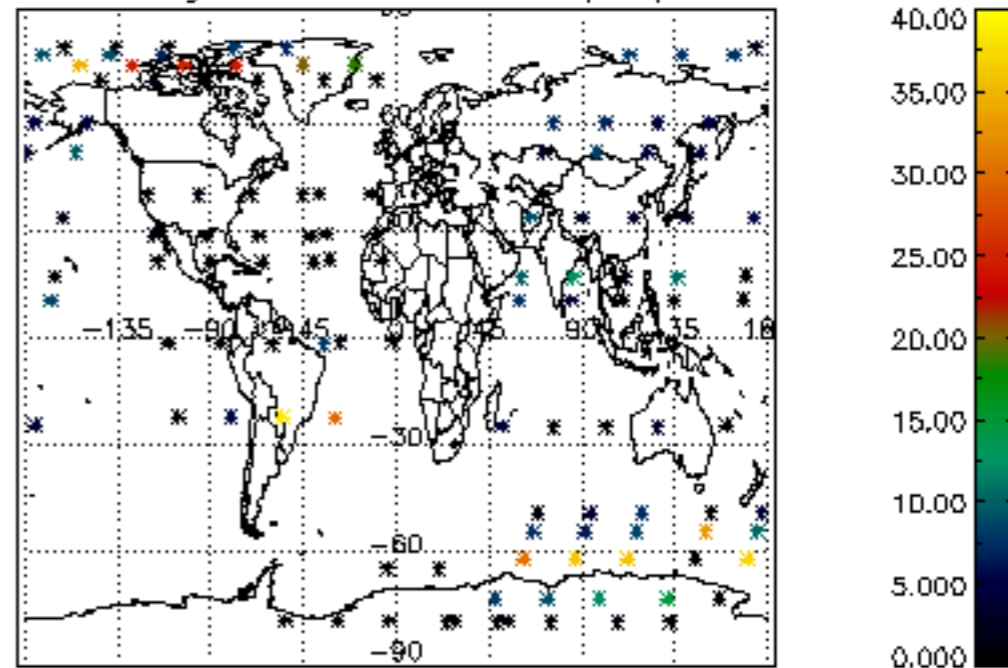
Percentage of datation errors per profile



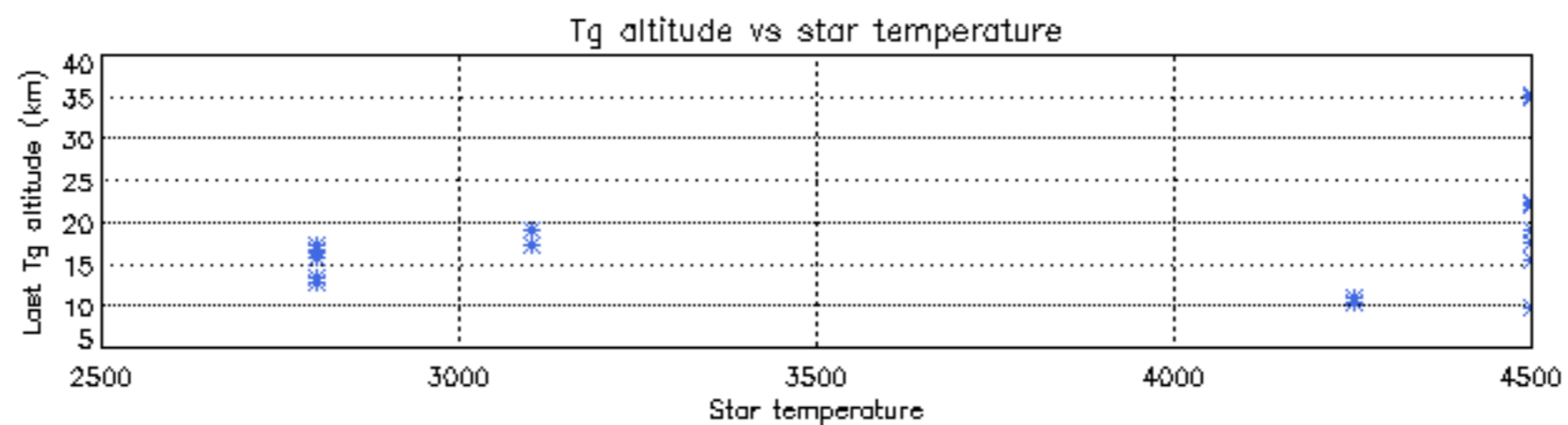
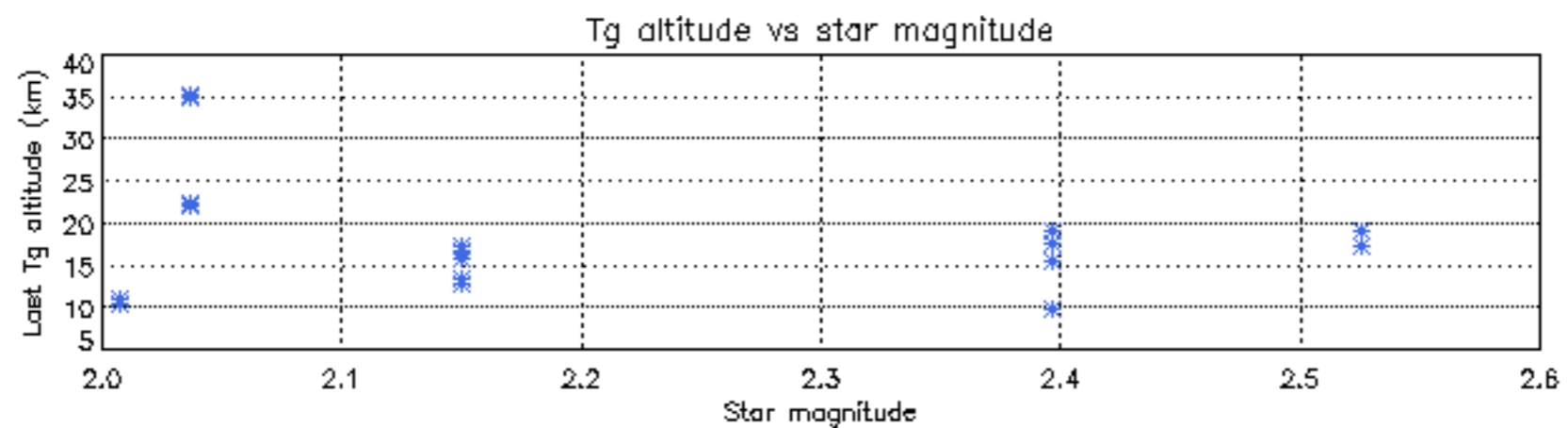
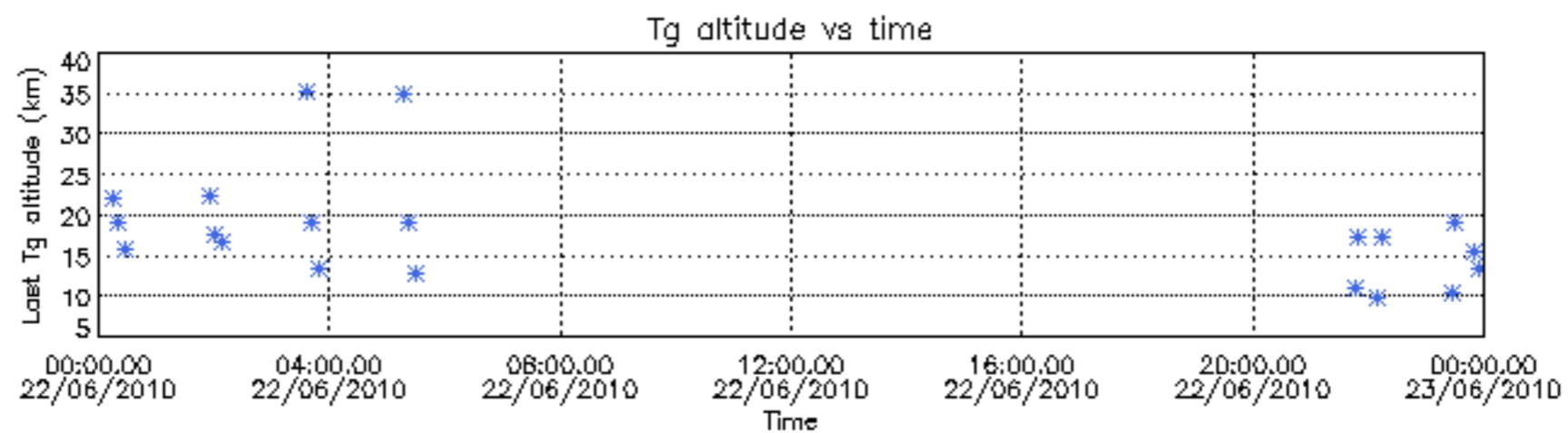
Percentage of star falling outside central band per profile



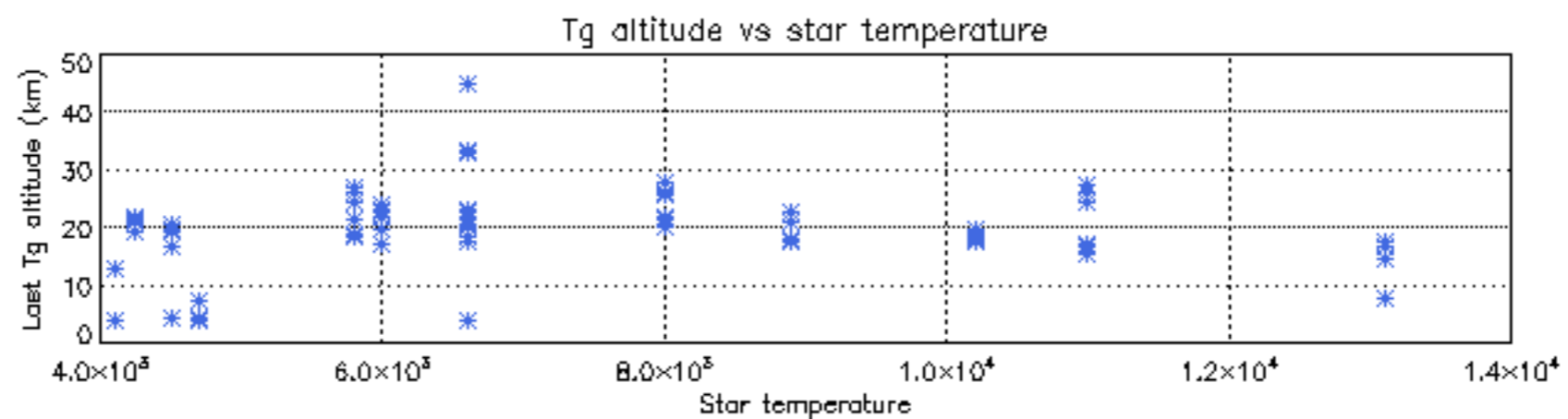
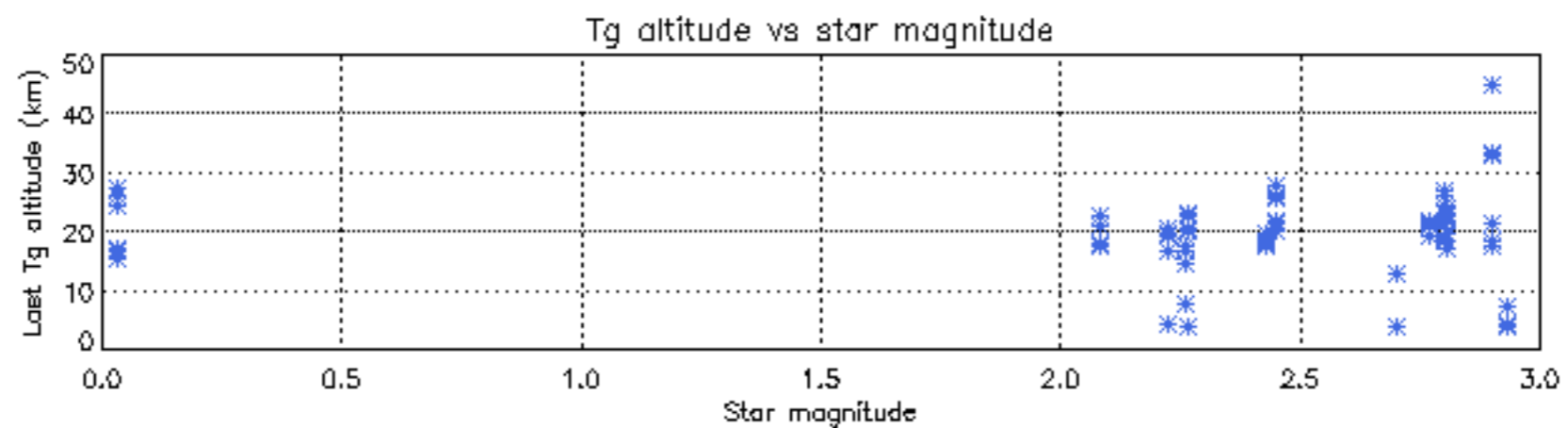
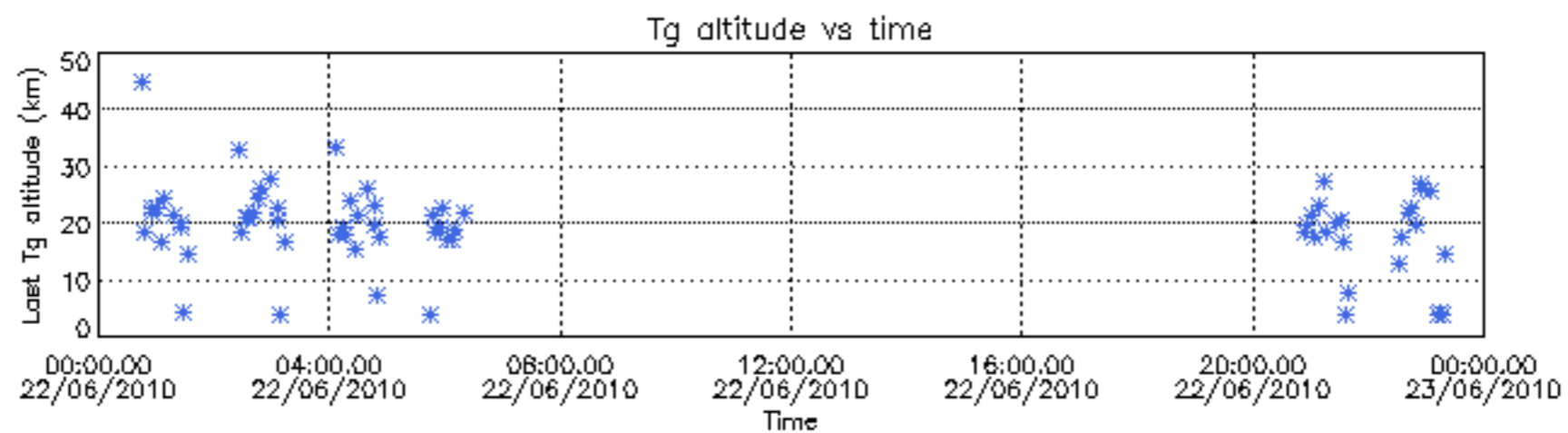
Percentage of saturation errors per profile



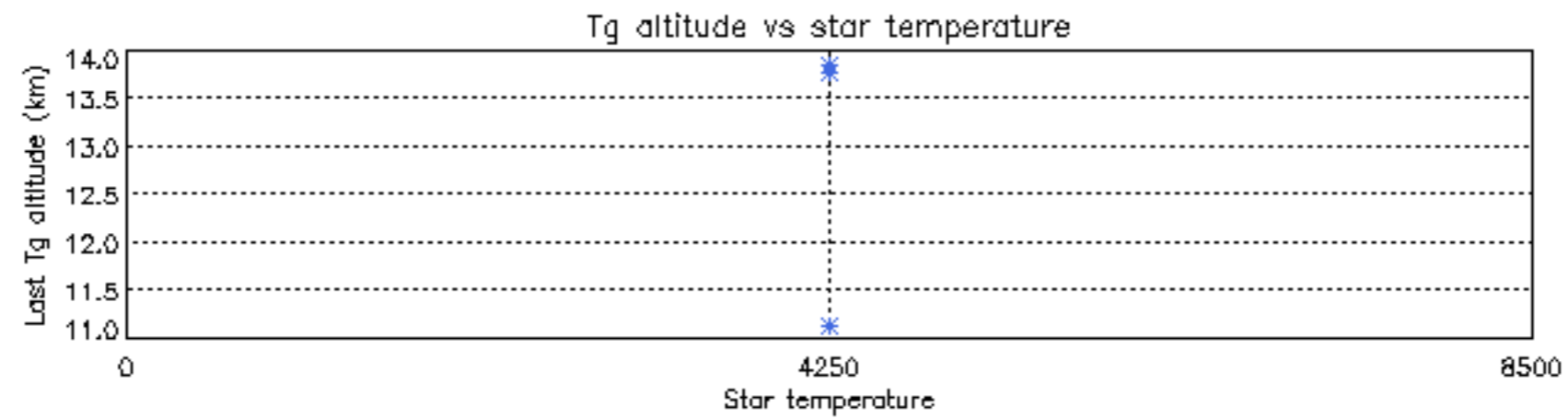
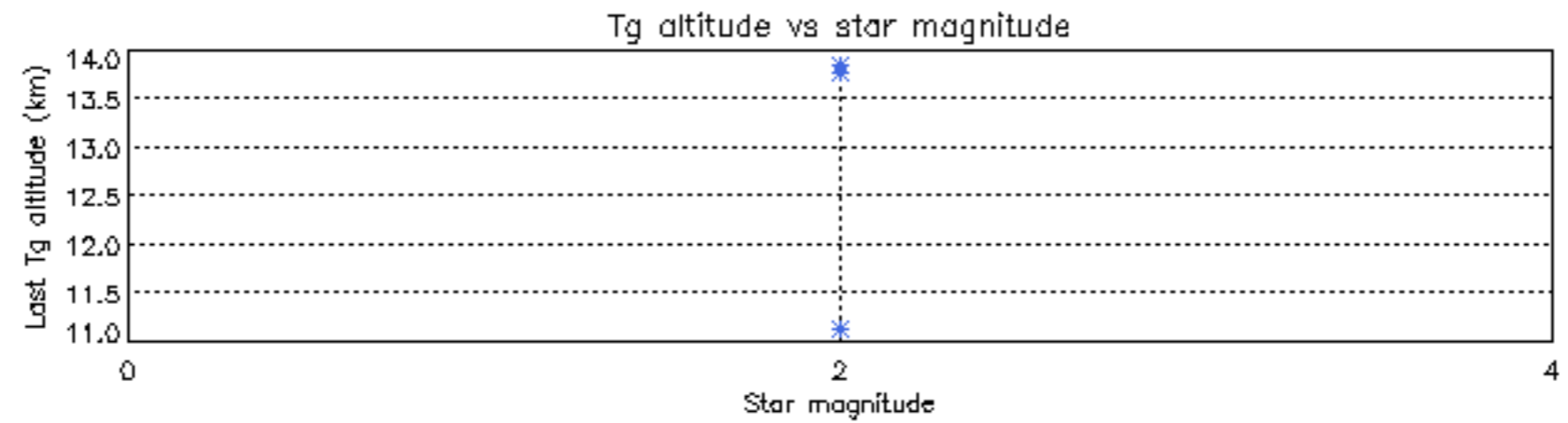
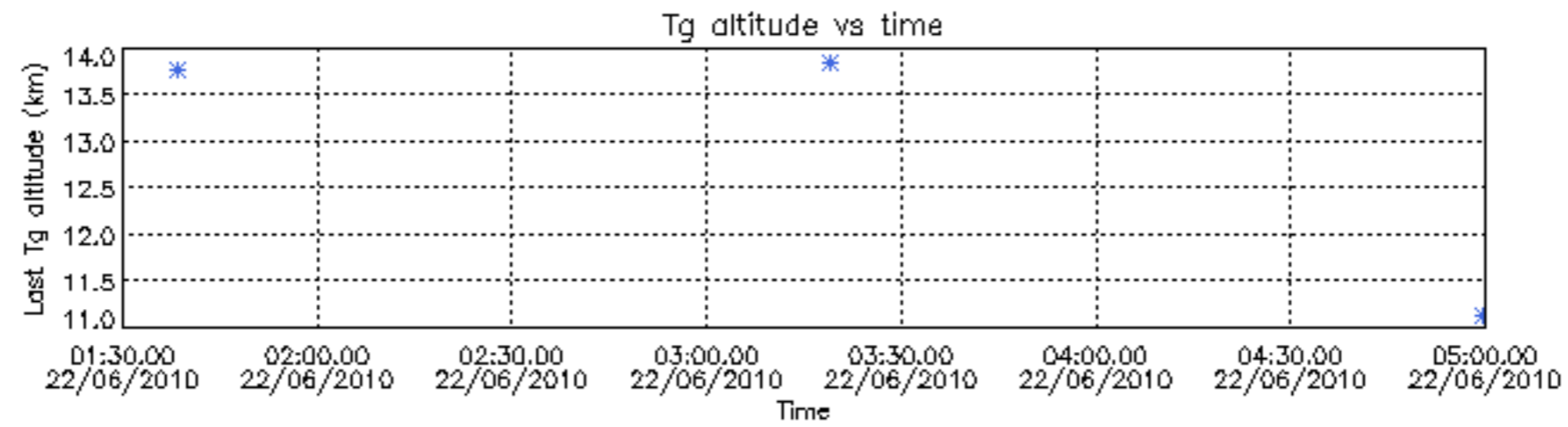
Tangent altitude at which the star is lost

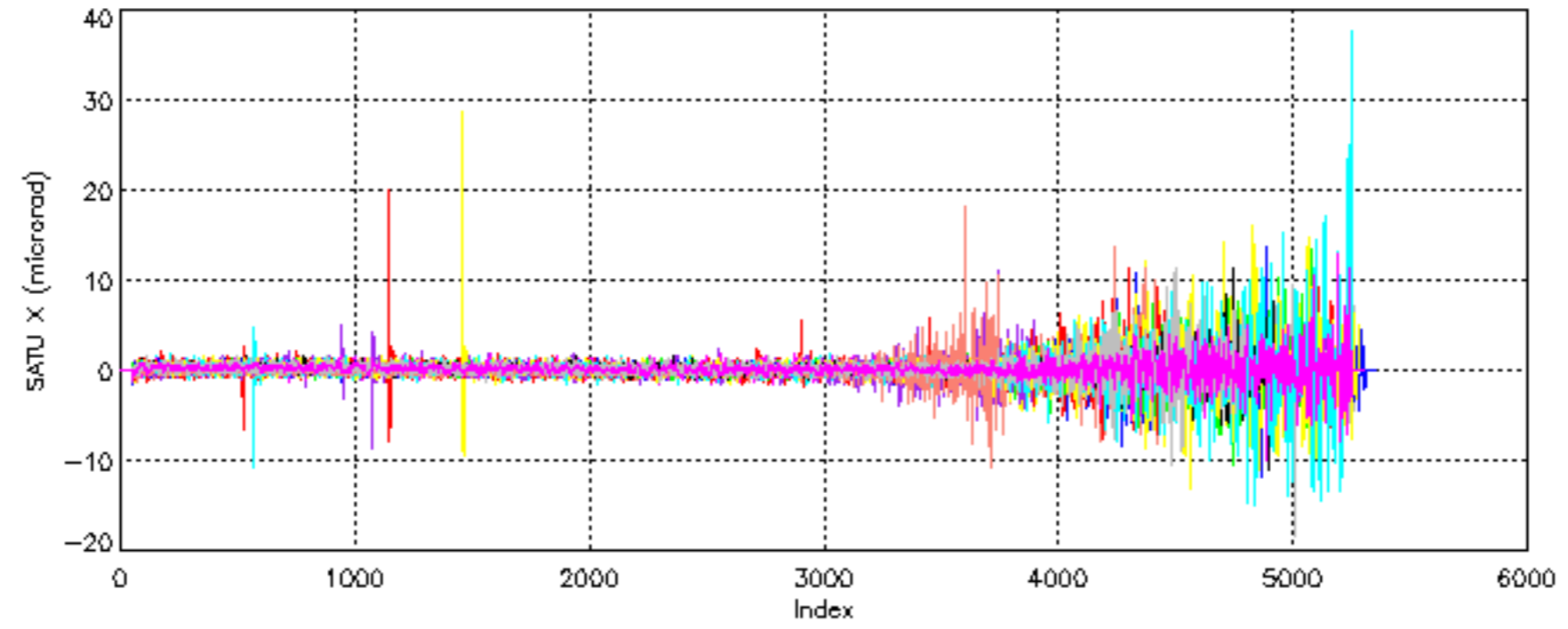


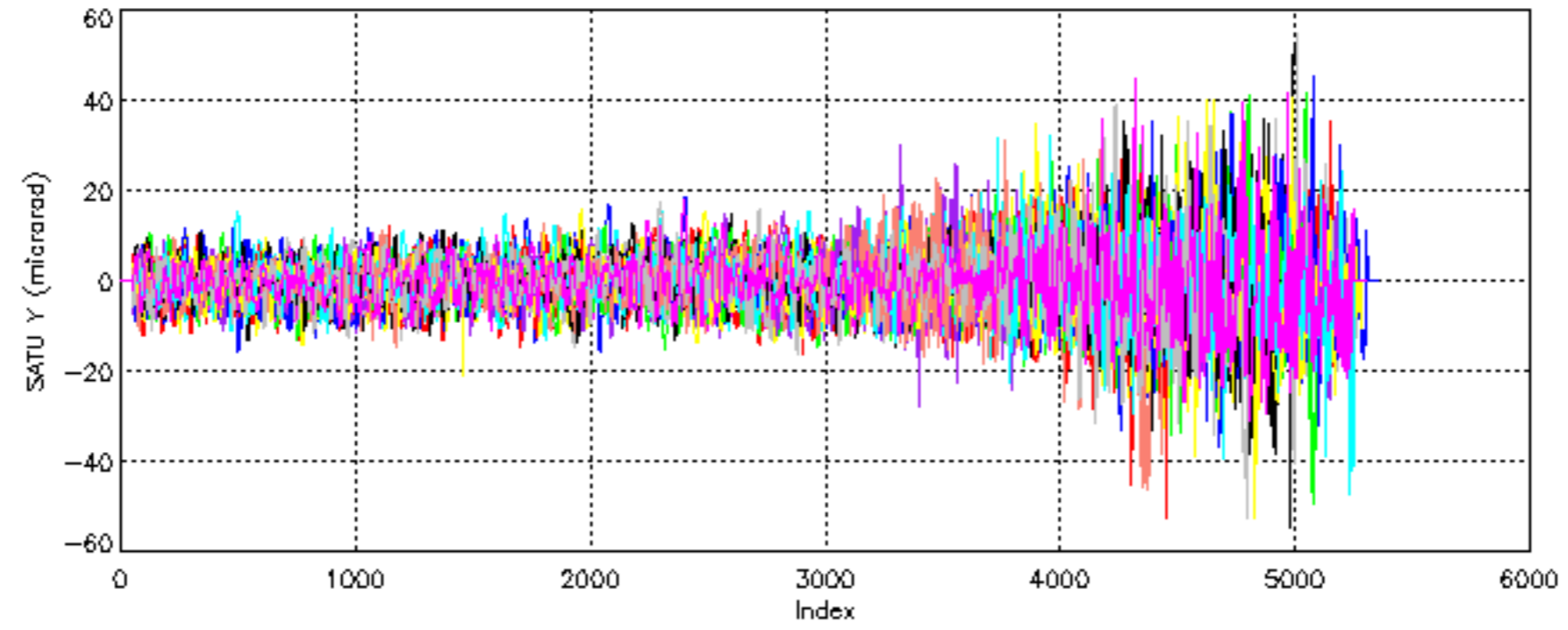
Tangent altitude at which the star is lost

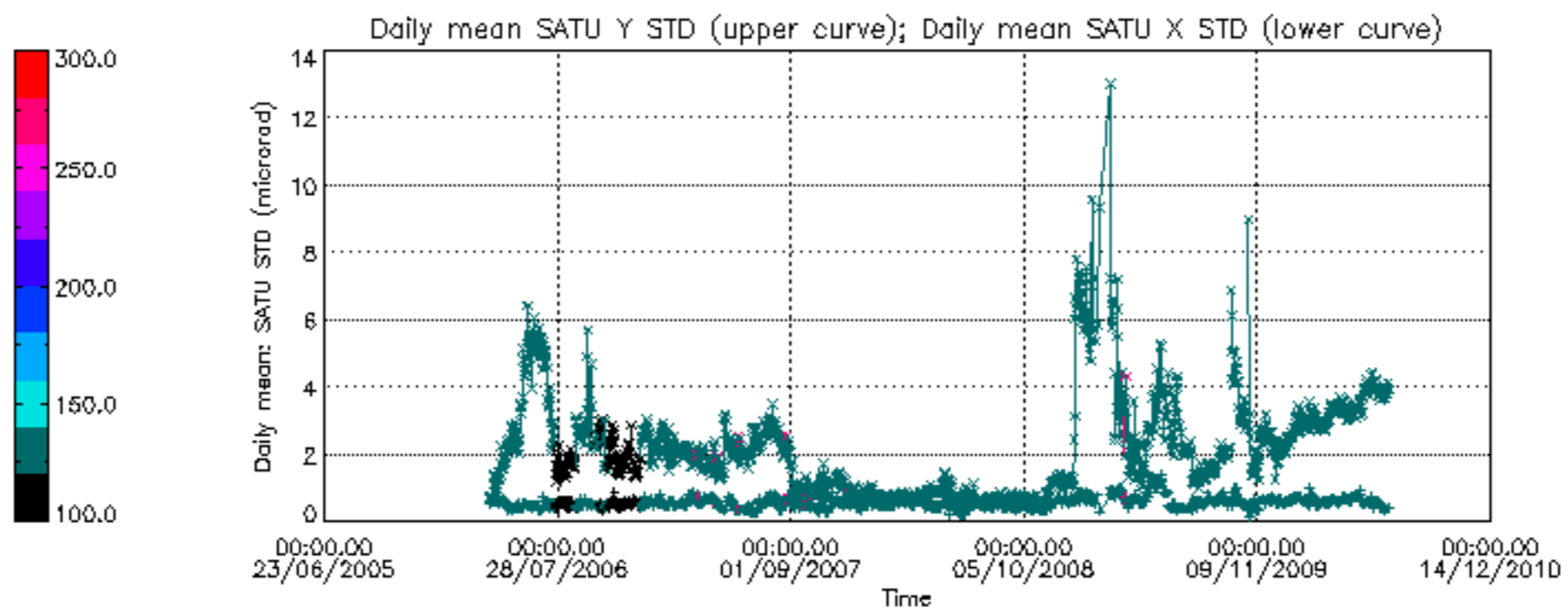


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL_0P/GOM_NL_0PNPDE20100601_010946_000092532090_00002_43142_0163.N1

1;	-645.7;	01-JUN-2010	01:09:46;	Dark	;	46.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	92;	0;	43142
2;	-125.5;	01-JUN-2010	01:18:26;	Dark	;	55.0;	18;	24Alp	PsA	;	1.17;	9700;	occ;	110;	0;	43142
3;	74.8;	01-JUN-2010	01:21:46;	Dark	;	56.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	113;	0;	43143
4;	187.0;	01-JUN-2010	01:23:38;	Dark	;	46.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	92;	0;	43143
5;	486.0;	01-JUN-2010	01:28:37;	Dark	;	44.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	88;	0;	43143
6;	933.8;	01-JUN-2010	01:36:05;	Dark	;	40.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	80;	0;	43143
7;	1034.9;	01-JUN-2010	01:37:46;	Dark	;	46.5;	40;	The	SCO	;	1.86;	7100;	occ;	93;	0;	43143
8;	1142.8;	01-JUN-2010	01:39:34;	Dark	;	49.5;	25;	35Lam	SCO	;	1.62;	28000;	occ;	99;	0;	43143
9;	1249.5;	01-JUN-2010	01:41:21;	Dark	;	47.5;	75;	26Eps	SCO	;	2.29;	4250;	occ;	95;	0;	43143
10;	1372.0;	01-JUN-2010	01:43:23;	Dark	;	43.0;	136;	23Tau	SCO	;	2.82;	30000;	occ;	86;	0;	43143
11;	1497.2;	01-JUN-2010	01:45:29;	Bright;	;	40.0;	80;	7Del	SCO	;	2.32;	30000;	occ;	80;	0;	43143
12;	1590.7;	01-JUN-2010	01:47:02;	Bright;	;	46.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	93;	0;	43143
13;	1702.4;	01-JUN-2010	01:48:54;	Bright;	;	42.5;	98;	13Zet	Oph	;	2.57;	30000;	occ;	85;	0;	43143
14;	1833.7;	01-JUN-2010	01:51:05;	Bright;	;	40.5;	120;	1Del	Oph	;	2.73;	3200;	occ;	81;	0;	43143
15;	2014.5;	01-JUN-2010	01:54:06;	Bright;	;	37.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	74;	0;	43143
16;	2369.2;	01-JUN-2010	02:00:00;	Bright;	;	38.5;	67;	5Alp	CrB	;	2.22;	11000;	occ;	77;	0;	43143
17;	2529.6;	01-JUN-2010	02:02:41;	Bright;	;	43.0;	133;	40Zet	Her	;	2.81;	6000;	occ;	86;	0;	43143
18;	3005.3;	01-JUN-2010	02:10:37;	Bright;	;	36.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	73;	0;	43143
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21;	4393.4;	01-JUN-2010	02:33:45;	Bright;	;	48.0;	53;	43Bet	And	;	2.05;	3300;	occ;	96;	0;	43143
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 7; 2306.1; 04-JUN-2010 17:10:06; Bright; 43.0; 127; 27Bet Her ; 2.78; 4700;occ; 86; 0;43195
 8; 2506.1; 04-JUN-2010 17:13:26; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;43195
 9; 2946.7; 04-JUN-2010 17:20:46; Bright; 45.0; 130; 23Bet Dra ; 2.80; 5800;occ; 90; 0;43195
 10; 3598.7; 04-JUN-2010 17:31:38; Bright; 48.0; 89; 5Alp Cep ; 2.45; 8000;occ; 96; 0;43195
 11; 3923.6; 04-JUN-2010 17:37:03; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;43195
 12; 4398.5; 04-JUN-2010 17:44:58; Bright; 52.5; 53; 43Bet And ; 2.05; 3300;occ; 105; 0;43195
 13; 4642.3; 04-JUN-2010 17:49:02; Dark ; 41.0; 105; 6Bet Ari ; 2.64; 8900;occ; 82; 0;43195
 14; 4879.7; 04-JUN-2010 17:52:59; Dark ; 54.5; 140; 88Gam Peg ; 2.83; 26000;occ; 109; 0;43195
 15; 5328.2; 04-JUN-2010 18:00:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43195
 16; 5425.0; 04-JUN-2010 18:02:05; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;43195
 17; 5822.9; 04-JUN-2010 18:08:43; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;43195
 18; 5979.7; 04-JUN-2010 18:11:19; Dark ; 56.5; 18; 24Alp PsA ; 1.17; 9700;occ; 113; 0;43195
 19; 6157.2; 04-JUN-2010 18:14:17; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;43196
 20; 6273.7; 04-JUN-2010 18:16:13; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;43196
 21; 6558.3; 04-JUN-2010 18:20:58; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43196
 22; 7093.7; 04-JUN-2010 18:29:53; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;43196

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 3; 1265.4; 04-JUN-2010 20:13:57; Dark ; 44.0; 75; 26Eps Sco ; 2.29; 4250;occ; 88; 0;43197
 4; 1384.8; 04-JUN-2010 20:15:56; Dark ; 39.0; 136; 23Tau Sco ; 2.82; 30000;occ; 78; 0;43197
 5; 1596.0; 04-JUN-2010 20:19:28; Bright; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;43197
 6; 1704.9; 04-JUN-2010 20:21:17; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;43197
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 8; 2305.5; 04-JUN-2010 20:31:17; Bright; 44.0; 127; 27Bet Her ; 2.78; 4700;occ; 88; 0;43197
 9; 2505.2; 04-JUN-2010 20:34:37; Bright; 43.0; 133; 40Zet Her ; 2.81; 6000;occ; 86; 0;43197
 10; 2945.2; 04-JUN-2010 20:41:57; Bright; 45.5; 130; 23Bet Dra ; 2.80; 5800;occ; 91; 0;43197
 11; 3597.4; 04-JUN-2010 20:52:49; Bright; 48.0; 89; 5Alp Cep ; 2.45; 8000;occ; 96; 0;43197
 12; 3923.4; 04-JUN-2010 20:58:15; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;43197
 13; 4398.6; 04-JUN-2010 21:06:10; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;43197
 14; 4566.6; 04-JUN-2010 21:08:58; Dark ; 56.5; 58; 21Alp And ; 2.07; 11000;occ; 113; 0;43197
 15; 4880.9; 04-JUN-2010 21:14:13; Dark ; 54.5; 140; 88Gam Peg ; 2.83; 26000;occ; 109; 0;43197

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 3; -212.0; 04-JUN-2010 21:29:56; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;43197
 4; -53.8; 04-JUN-2010 21:32:34; Dark ; 59.0; 18; 24Alp PsA ; 1.17; 9700;occ; 118; 0;43197

5; 123.0; 04-JUN-2010 21:35:31; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;43198
6; 238.9; 04-JUN-2010 21:37:27; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;43198
7; 523.6; 04-JUN-2010 21:42:11; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43198
8; 1058.5; 04-JUN-2010 21:51:06; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;43198
9; 1165.2; 04-JUN-2010 21:52:53; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;43198
10; 1265.7; 04-JUN-2010 21:54:33; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;43198
11; 1384.9; 04-JUN-2010 21:56:33; Dark ; 50.0; 136; 23Tau Sco ; 2.82; 30000;occ; 100; 0;43198
12; 1596.1; 04-JUN-2010 22:00:04; Bright; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;43198
13; 1704.7; 04-JUN-2010 22:01:52; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;43198
14; 1833.8; 04-JUN-2010 22:04:01; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;43198
15; 2305.1; 04-JUN-2010 22:11:53; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;43198
16; 2504.7; 04-JUN-2010 22:15:12; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;43198
17; 2944.7; 04-JUN-2010 22:22:32; Bright; 45.5; 130; 23Bet Dra ; 2.80; 5800;occ; 91; 0;43198
18; 3596.6; 04-JUN-2010 22:33:24; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43198
19; 3923.3; 04-JUN-2010 22:38:51; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;43198
20; 4398.8; 04-JUN-2010 22:46:46; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;43198
21; 4566.8; 04-JUN-2010 22:49:34; Dark ; 55.0; 58; 21Alp And ; 2.07; 11000;occ; 110; 0;43198
22; 4881.3; 04-JUN-2010 22:54:49; Dark ; 56.0; 140; 88Gam Peg ; 2.83; 26000;occ; 112; 0;43198
23; 5331.1; 04-JUN-2010 23:02:19; Dark ; 45.5; 0; ; 0.00; 0;occ; 91; 0;43198

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3; -211.6; 04-JUN-2010 23:10:32; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;43198
4; -52.2; 04-JUN-2010 23:13:11; Dark ; 58.0; 18; 24Alp PsA ; 1.17; 9700;occ; 116; 0;43198
5; 123.9; 04-JUN-2010 23:16:07; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;43199
6; 240.5; 04-JUN-2010 23:18:04; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;43199
7; 524.3; 04-JUN-2010 23:22:48; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43199
8; 1058.7; 04-JUN-2010 23:31:42; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;43199
9; 1165.6; 04-JUN-2010 23:33:29; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;43199
10; 1266.3; 04-JUN-2010 23:35:10; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;43199
11; 1385.3; 04-JUN-2010 23:37:09; Dark ; 46.0; 136; 23Tau Sco ; 2.82; 30000;occ; 92; 0;43199
12; 1596.1; 04-JUN-2010 23:40:40; Bright; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;43199
13; 1705.1; 04-JUN-2010 23:42:29; Bright; 39.5; 98; 13Zet Oph ; 2.57; 30000;occ; 79; 0;43199
14; 1833.7; 04-JUN-2010 23:44:37; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;43199
15; 2305.2; 04-JUN-2010 23:52:29; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82; 0;43199
16; 2504.3; 04-JUN-2010 23:55:48; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;43199
17; 2944.2; 05-JUN-2010 00:03:08; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;43199
18; 3596.3; 05-JUN-2010 00:14:00; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43199
19; 3923.0; 05-JUN-2010 00:19:26; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;43199
20; 4398.8; 05-JUN-2010 00:27:22; Bright; 48.0; 53; 43Bet And ; 2.05; 3300;occ; 96; 0;43199
21; 4567.3; 05-JUN-2010 00:30:11; Dark ; 56.0; 58; 21Alp And ; 2.07; 11000;occ; 112; 0;43199
22; 4882.0; 05-JUN-2010 00:35:26; Dark ; 55.0; 140; 88Gam Peg ; 2.83; 26000;occ; 110; 0;43199
23; 5332.1; 05-JUN-2010 00:42:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43199

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2; 1164.5; 04-JUN-2010 18:31:40; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;43196
3; 1265.5; 04-JUN-2010 18:33:21; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;43196
4; 1384.6; 04-JUN-2010 18:35:20; Dark ; 45.0; 136; 23Tau Sco ; 2.82; 30000;occ; 90; 0;43196
5; 1595.8; 04-JUN-2010 18:38:52; Bright; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;43196
6; 1704.9; 04-JUN-2010 18:40:41; Bright; 42.5; 98; 13Zet Oph ; 2.57; 30000;occ; 85; 0;43196
7; 1833.6; 04-JUN-2010 18:42:49; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;43196
8; 2306.0; 04-JUN-2010 18:50:42; Bright; 39.5; 127; 27Bet Her ; 2.78; 4700;occ; 79; 0;43196
9; 2505.5; 04-JUN-2010 18:54:01; Bright; 42.5; 133; 40Zet Her ; 2.81; 6000;occ; 85; 0;43196
10; 2946.1; 04-JUN-2010 19:01:22; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;43196
11; 3598.3; 04-JUN-2010 19:12:14; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43196
12; 3923.6; 04-JUN-2010 19:17:39; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;43196
13; 4398.6; 04-JUN-2010 19:25:34; Bright; 48.0; 53; 43Bet And ; 2.05; 3300;occ; 96; 0;43196
14; 4566.4; 04-JUN-2010 19:28:22; Dark ; 55.5; 58; 21Alp And ; 2.07; 11000;occ; 111; 0;43196
15; 4880.1; 04-JUN-2010 19:33:36; Dark ; 54.0; 140; 88Gam Peg ; 2.83; 26000;occ; 108; 0;43196
16; 5329.2; 04-JUN-2010 19:41:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43196
17; 5425.2; 04-JUN-2010 19:42:41; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;43196
18; 5823.2; 04-JUN-2010 19:49:19; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;43196
19; 5981.0; 04-JUN-2010 19:51:57; Dark ; 56.0; 18; 24Alp PsA ; 1.17; 9700;occ; 112; 0;43196
20; 6158.2; 04-JUN-2010 19:54:54; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;43197
21; 6274.1; 04-JUN-2010 19:56:50; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;43197
22; 6558.7; 04-JUN-2010 20:01:35; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;43197
23; 7093.8; 04-JUN-2010 20:10:30; Dark ; 26.5; 40; The Sco ; 1.86; 7100;occ; 53; 0;43197

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 3; -210.9; 05-JUN-2010 00:51:08; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;43199
 4; -50.9; 05-JUN-2010 00:53:48; Dark ; 55.5; 18; 24Alp PsA ; 1.17; 9700;occ; 111; 0;43199
 5; 124.6; 05-JUN-2010 00:56:44; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;43200
 6; 241.2; 05-JUN-2010 00:58:41; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;43200
 7; 524.9; 05-JUN-2010 01:03:24; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43200
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 9; 1165.8; 05-JUN-2010 01:14:05; Dark ; 45.0; 25; 35Lam Sco ; 1.62; 28000;occ; 90; 0;43200
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 13; 1705.0; 05-JUN-2010 01:23:04; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;43200
 14; 1833.9; 05-JUN-2010 01:25:13; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;43200
 15; 2304.7; 05-JUN-2010 01:33:04; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82; 0;43200
 16; 2504.0; 05-JUN-2010 01:36:23; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;43200
 17; 2943.6; 05-JUN-2010 01:43:43; Bright; 45.0; 130; 23Bet Dra ; 2.80; 5800;occ; 90; 0;43200
 18; 3595.4; 05-JUN-2010 01:54:35; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43200
 19; 3922.9; 05-JUN-2010 02:00:02; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;43200
 20; 4398.9; 05-JUN-2010 02:07:58; Bright; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;43200
 21; 4567.4; 05-JUN-2010 02:10:47; Dark ; 56.5; 58; 21Alp And ; 2.07; 11000;occ; 113; 0;43200
 22; 4882.2; 05-JUN-2010 02:16:02; Dark ; 57.0; 140; 88Gam Peg ; 2.83; 26000;occ; 114; 0;43200

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 4; 125.6; 05-JUN-2010 02:37:21; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;43201
 5; 242.3; 05-JUN-2010 02:39:18; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;43201
 6; 525.6; 05-JUN-2010 02:44:01; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43201
 7; 1059.5; 05-JUN-2010 02:52:55; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;43201
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 9; 1266.7; 05-JUN-2010 02:56:22; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;43201
 10; 1385.3; 05-JUN-2010 02:58:21; Dark ; 52.0; 136; 23Tau Sco ; 2.82; 30000;occ; 104; 0;43201
 11; 1596.5; 05-JUN-2010 03:01:52; Bright; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;43201
 12; 1705.2; 05-JUN-2010 03:03:40; Bright; 40.0; 98; 13Zet Oph ; 2.57; 30000;occ; 80; 0;43201
 13; 1833.9; 05-JUN-2010 03:05:49; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;43201
 14; 2304.5; 05-JUN-2010 03:13:40; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;43201
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 16; 2942.9; 05-JUN-2010 03:24:18; Bright; 45.5; 130; 23Bet Dra ; 2.80; 5800;occ; 91; 0;43201
 17; 3595.1; 05-JUN-2010 03:35:10; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;43201

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 9; 126.6; 05-JUN-2010 04:17:58; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;43202
 10; 243.0; 05-JUN-2010 04:19:54; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;43202
 11; 525.9; 05-JUN-2010 04:24:37; Dark ; 44.0; 45; Alp Pav ; 1.94; 26000;occ; 88; 0;43202
 12; 1060.1; 05-JUN-2010 04:33:31; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;43202
 13; 1166.4; 05-JUN-2010 04:35:18; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;43202
 14; 1266.7; 05-JUN-2010 04:36:58; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;43202
 15; 1385.9; 05-JUN-2010 04:38:57; Dark ; 46.0; 136; 23Tau Sco ; 2.82; 30000;occ; 92; 0;43202
 16; 1596.4; 05-JUN-2010 04:42:28; Bright; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;43202
 17; 1705.1; 05-JUN-2010 04:44:16; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;43202
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13; 5907.1; 13-JUN-2010 11:44:58; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;43320

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17;	6639.2;	13-JUN-2010	11:57:10;	Dark	;	43.0;	45;	Alp Pav	;	1.94;	26000;occ;	86;	0;43321
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3;	2016.2;	13-JUN-2010	15:41:55;	Bright;	;	47.0;	126;	60Bet Oph	;	2.77;	4250;occ;	94;	0;43323
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11;	4268.2;	13-JUN-2010	16:19:27;	Bright;	;	56.0;	73;	57Gam1And	;	2.26;	13100;occ;	112;	0;43323
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7; 1325.1; 23-JUN-2010 00:10:38; Dark ; 49.5; 116; 19Del Sgr ; 2.70; 4100;occ; 99; 0;43457
8; 1456.4; 23-JUN-2010 00:12:49; Bright; 50.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 101; 0;43457
9; 1629.7; 23-JUN-2010 00:15:42; Bright; 33.5; 86; 35Eta Oph ; 2.43; 10200;occ; 67; 0;43457
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11; 2134.7; 23-JUN-2010 00:24:07; Bright; 41.5; 59; 55Alp Oph ; 2.08; 8900;occ; 83; 0;43457
12; 2447.3; 23-JUN-2010 00:29:20; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;43457
13; 2720.9; 23-JUN-2010 00:33:53; Bright; 51.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 103; 0;43457
14; 2834.6; 23-JUN-2010 00:35:47; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;43457
15; 3424.4; 23-JUN-2010 00:45:37; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43457
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22; 4934.2; 23-JUN-2010 01:10:47; Dark ; 36.0; 94; 92Alp Cet ; 2.53; 3100;occ; 72; 0;43457

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16; 3931.4; 23-JUN-2010 02:34:40; Bright; 47.5; 68; 18Alp Cas ; 2.22; 4500;occ; 95; 0;43458
17; 4064.8; 23-JUN-2010 02:36:53; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;43458
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19; 4414.7; 23-JUN-2010 02:42:43; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;43458
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21; 4934.6; 23-JUN-2010 02:51:23; Dark ; 36.5; 94; 92Alp Cet ; 2.53; 3100;occ; 73; 0;43458
22; 5413.3; 23-JUN-2010 02:59:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43458
23; 6021.3; 23-JUN-2010 03:09:30; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;43458
24; 6408.2; 23-JUN-2010 03:15:57; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43459
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26; 6720.8; 23-JUN-2010 03:21:09; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;43459
27; 7276.4; 23-JUN-2010 03:30:25; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;43459
28; 7361.8; 23-JUN-2010 03:31:50; Dark ; 51.5; 116; 19Del Sgr ; 2.70; 4100;occ; 103; 0;43459
29; 7492.4; 23-JUN-2010 03:34:01; Bright; 48.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 97; 0;43459
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31; 8169.8; 23-JUN-2010 03:45:18; Bright; 41.5; 59; 55Alp Oph ; 2.08; 8900;occ; 83; 0;43459
32; 8483.4; 23-JUN-2010 03:50:32; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;43459
33; 8755.5; 23-JUN-2010 03:55:04; Bright; 49.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 98; 0;43459
34; 8869.6; 23-JUN-2010 03:56:58; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;43459

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3; 3839.6; 23-JUN-2010 04:13:44; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;43459
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6; 4270.6; 23-JUN-2010 04:20:55; Bright; 49.5; 73; 57Gam1And ; 2.26; 13100;occ; 99; 0;43459
7; 4415.3; 23-JUN-2010 04:23:20; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;43459
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11; 6022.2; 23-JUN-2010 04:50:07; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;43459
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13; 6531.9; 23-JUN-2010 04:58:36; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;43460
14; 6721.3; 23-JUN-2010 05:01:46; Dark ; 48.5; 45; Alp Pav ; 1.94; 26000;occ; 97; 0;43460
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16; 7362.5; 23-JUN-2010 05:12:27; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;43460
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19; 8169.8; 23-JUN-2010 05:25:54; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;43460
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21; 8755.1; 23-JUN-2010 05:35:39; Bright; 52.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 104; 0;43460
22; 8869.5; 23-JUN-2010 05:37:34; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;43460
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4; -1765.4; 23-JUN-2010 06:01:31; Bright; 60.0; 73; 57Gam1And ; 2.26; 13100;occ; 120; 0;43460
5; -1621.0; 23-JUN-2010 06:03:55; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;43460
6; -1390.3; 23-JUN-2010 06:07:46; Dark ; 53.0; 50; 13Alp Ari ; 2.01; 4250;occ; 106; 0;43460
7; -1100.8; 23-JUN-2010 06:12:36; Dark ; 37.0; 94; 92Alp Cet ; 2.53; 3100;occ; 74; 0;43460
8; -621.2; 23-JUN-2010 06:20:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43460
9; -13.3; 23-JUN-2010 06:30:43; Dark ; 59.5; 84; Alp Phe ; 2.40; 4500;occ; 119; 0;43460
10; 374.2; 23-JUN-2010 06:37:10; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;43461
11; 496.6; 23-JUN-2010 06:39:13; Dark ; 53.5; 31; Alp Gru ; 1.73; 15200;occ; 107; 0;43461
12; 685.8; 23-JUN-2010 06:42:22; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43461
13; 1241.1; 23-JUN-2010 06:51:37; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;43461
14; 1326.0; 23-JUN-2010 06:53:02; Dark ; 58.0; 116; 19Del Sgr ; 2.70; 4100;occ; 116; 0;43461
15; 1456.9; 23-JUN-2010 06:55:13; Bright; 52.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 104; 0;43461
16; 1989.3; 23-JUN-2010 07:04:06; Bright; 40.5; 126; 60Bet Oph ; 2.77; 4250;occ; 81; 0;43461
17; 2133.6; 23-JUN-2010 07:06:30; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;43461
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19; 2718.4; 23-JUN-2010 07:16:15; Bright; 48.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 97; 0;43461
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13; 1241.5; 23-JUN-2010 08:32:14; Dark ; 47.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 95; 0;43462
14; 1326.7; 23-JUN-2010 08:33:39; Dark ; 50.5; 116; 19Del Sgr ; 2.70; 4100;occ; 101; 0;43462
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13; 4270.3; 23-JUN-2010 17:45:42; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;43467
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17; 5419.4; 23-JUN-2010 18:04:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43467
18; 6029.6; 23-JUN-2010 18:15:01; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;43467
19; 6417.5; 23-JUN-2010 18:21:29; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;43468
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13; 4270.3; 23-JUN-2010 21:06:54; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;43469
14; 4415.6; 23-JUN-2010 21:09:19; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;43469
15; 4648.1; 23-JUN-2010 21:13:12; Dark ; 55.5; 50; 13Alp Ari ; 2.01; 4250;occ; 111; 0;43469
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13; 2831.1; 23-JUN-2010 22:23:31; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;43470
14; 3415.5; 23-JUN-2010 22:33:15; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43470
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16; 3927.4; 23-JUN-2010 22:41:47; Bright; 47.5; 68; 18Alp Cas ; 2.22; 4500;occ; 95; 0;43470
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19; 4415.9; 23-JUN-2010 22:49:55; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43470
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4; 506.4; 23-JUN-2010 23:25:22; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43471
5; 691.3; 23-JUN-2010 23:28:27; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43471
6; 1244.0; 23-JUN-2010 23:37:40; Dark ; 42.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 85; 0;43471
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15; 1460.1; 24-JUN-2010 06:23:39; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;43475
16; 1987.9; 24-JUN-2010 06:32:27; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;43475
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13; 4417.3; 24-JUN-2010 20:37:44; Dark ; 31.0; 53; 43Bet And ; 2.05; 3300;occ; 62; 0;43483
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 6; 698.4; 24-JUN-2010 21:16:21; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43484
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13; 2827.1; 24-JUN-2010 21:51:50; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43484
14; 3405.4; 24-JUN-2010 22:01:28; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43484
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 5; 519.7; 24-JUN-2010 22:53:58; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43485
 6; 698.8; 24-JUN-2010 22:56:57; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43485
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 9; 1462.1; 24-JUN-2010 23:09:41; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;43485

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