

GOMOS Daily Report 05-MAR-2012

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	07MAR2012 07:00:53
Data source version	GOMOS/6.01
Start time of products	05MAR2012 00:51:38
Stop time of products	05MAR2012 23:09:37
Store outputs in DB	Yes
Nb of level 1b prods	21
Nb of prods with errors	0

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

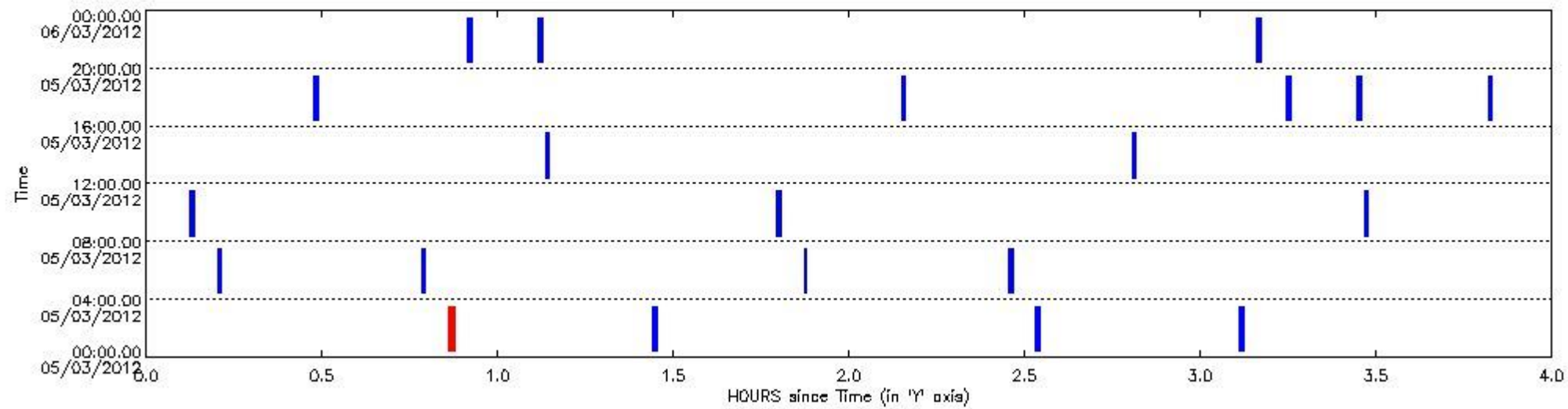
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

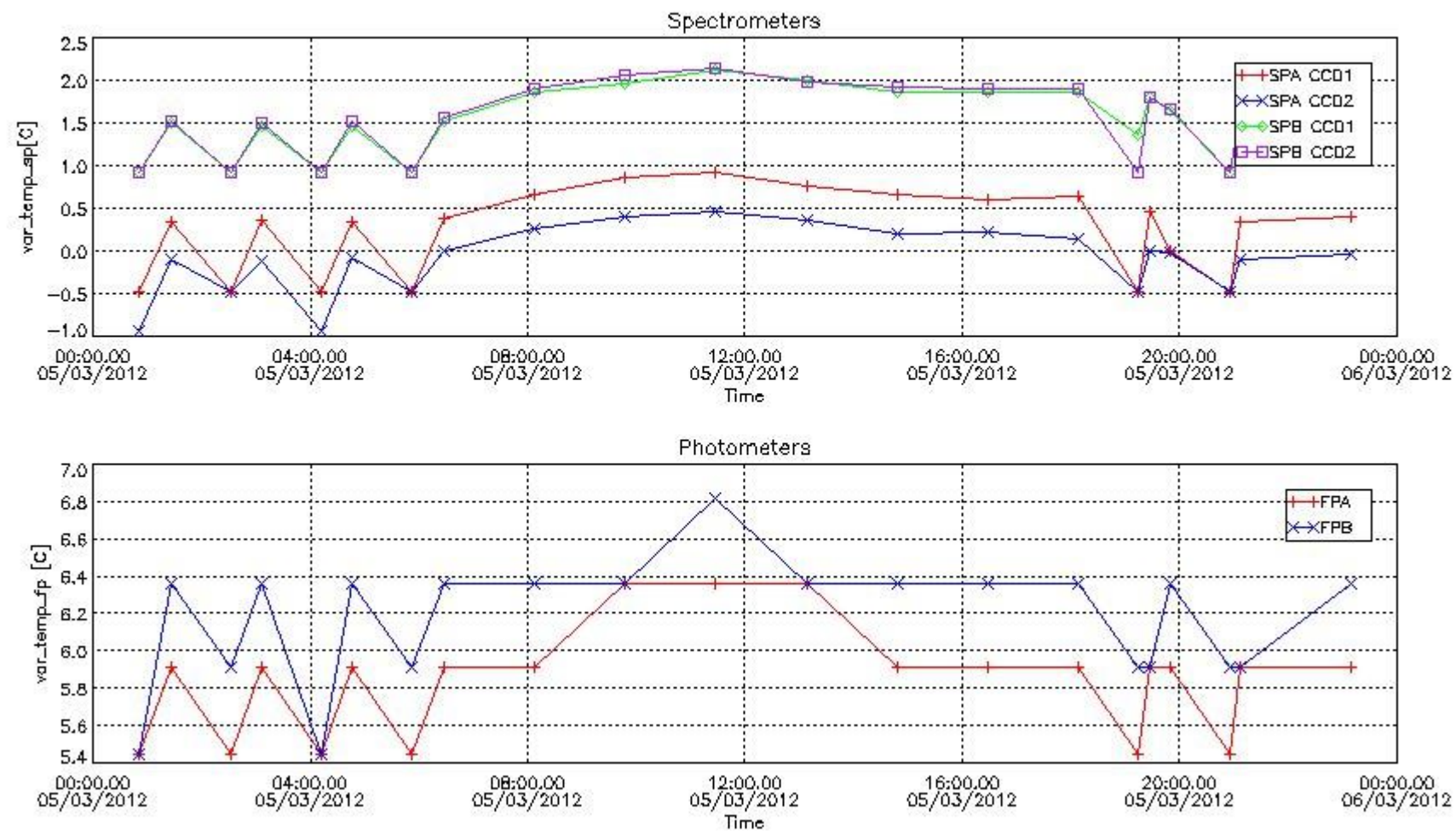
UTC start time	Star name	Star ID	Orbit
05-MAR-2012 00:51:37	50GamAql	118	52386

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_1PNPDE20120305_005138_000000403112_00203_52372_5219.N1	05-MAR-2012 00:51:38	Bright	40.000	118	50Gam Aql	2.7180	4600.0	80	52372	No
2	GOM_TRA_1PNPDE20120305_012630_000000413112_00204_52373_5277.N1	05-MAR-2012 01:26:30	Dark	41.000	99	Del Cen	2.5750	26000.	82	52373	No
3	GOM_TRA_1PNPDE20120305_023153_000000393112_00204_52373_5278.N1	05-MAR-2012 02:31:53	Bright	38.500	118	50Gam Aql	2.7180	4600.0	77	52373	No
4	GOM_TRA_1PNPDE20120305_030644_000000403112_00205_52374_5279.N1	05-MAR-2012 03:06:44	Dark	40.000	99	Del Cen	2.5750	26000.	80	52374	No
5	GOM_TRA_1PNPDE20120305_041207_000000373112_00205_52374_5323.N1	05-MAR-2012 04:12:07	Bright	37.000	118	50Gam Aql	2.7180	4600.0	74	52374	No
6	GOM_TRA_1PNPDE20120305_044658_000000413112_00206_52375_5324.N1	05-MAR-2012 04:46:58	Dark	41.000	99	Del Cen	2.5750	26000.	82	52375	No
7	GOM_TRA_1PNPDE20120305_055221_000000263112_00206_52375_5371.N1	05-MAR-2012 05:52:21	Twilight_stray	26.000	118	50Gam Aql	2.7180	4600.0	52	52375	No
8	GOM_TRA_1PNPDE20120305_062713_000000433112_00207_52376_5372.N1	05-MAR-2012 06:27:13	Straylight	42.500	99	Del Cen	2.5750	26000.	85	52376	No
9	GOM_TRA_1PNPDK20120305_080727_000000413112_00208_52377_9943.N1	05-MAR-2012 08:07:27	Straylight	41.000	99	Del Cen	2.5750	26000.	82	52377	No
10	GOM_TRA_1PNPDK20120305_094742_000000443112_00209_52378_9977.N1	05-MAR-2012 09:47:42	Straylight	43.500	99	Del Cen	2.5750	26000.	87	52378	No

11	GOM_TRA_1PNPDK20120305_112756_000000403112_00210_52379_0015.N1	05-MAR-2012 11:27:56	Straylight	39.500	99	Del Cen	2.5750	26000.	79	52379	No
12	GOM_TRA_1PNPDK20120305_130810_000000393112_00211_52380_0057.N1	05-MAR-2012 13:08:10	Straylight	38.500	99	Del Cen	2.5750	26000.	77	52380	No
13	GOM_TRA_1PNPDK20120305_144825_000000393112_00212_52381_0105.N1	05-MAR-2012 14:48:25	Straylight	39.000	99	Del Cen	2.5750	26000.	78	52381	No
14	GOM_TRA_1PNPDK20120305_162839_000000403112_00213_52382_0133.N1	05-MAR-2012 16:28:39	Straylight	39.500	99	Del Cen	2.5750	26000.	79	52382	No
15	GOM_TRA_1PNPDK20120305_180854_000000403112_00214_52383_0154.N1	05-MAR-2012 18:08:54	Straylight	39.500	99	Del Cen	2.5750	26000.	79	52383	No
16	GOM_TRA_1PNPDK20120305_191440_000000443112_00214_52383_0181.N1	05-MAR-2012 19:14:40	Bright	43.500	11	53Alp Aql	0.76500	8000.0	87	52383	No
17	GOM_TRA_1PNPDK20120305_192643_000000433112_00214_52383_0182.N1	05-MAR-2012 19:26:43	Dark	43.000	103	38Zet Sgr	2.6000	9700.0	86	52383	No
18	GOM_TRA_1PNPDK20120305_194908_000000403112_00215_52384_0183.N1	05-MAR-2012 19:49:08	Straylight	39.500	99	Del Cen	2.5750	26000.	79	52384	No
19	GOM_TRA_1PNPDE20120305_205455_000000413112_00215_52384_5555.N1	05-MAR-2012 20:54:55	Bright	40.500	11	53Alp Aql	0.76500	8000.0	81	52384	No
20	GOM_TRA_1PNPDE20120305_210657_000000403112_00215_52384_5580.N1	05-MAR-2012 21:06:57	Dark	39.500	103	38Zet Sgr	2.6000	9700.0	79	52384	No
21	GOM_TRA_1PNPDE20120305_230937_000000423112_00217_52386_5602.N1	05-MAR-2012 23:09:37	Straylight	42.000	99	Del Cen	2.5750	26000.	84	52386	No

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



4. Overview of dark signal processing per product

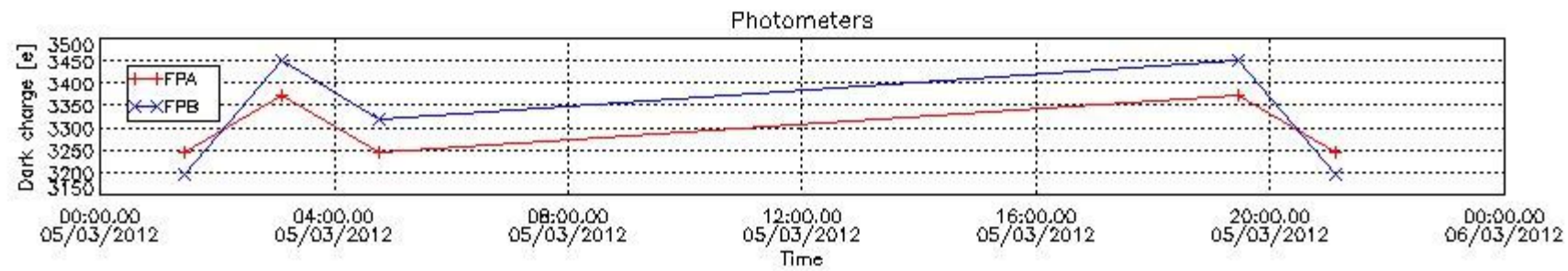
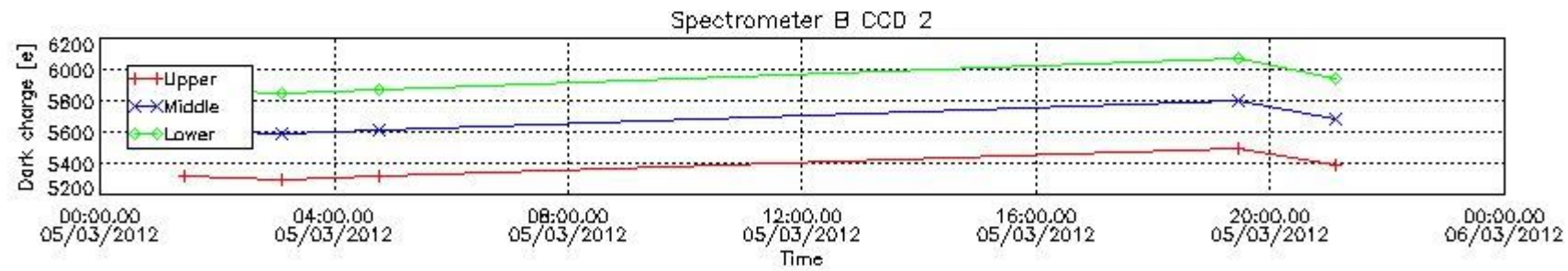
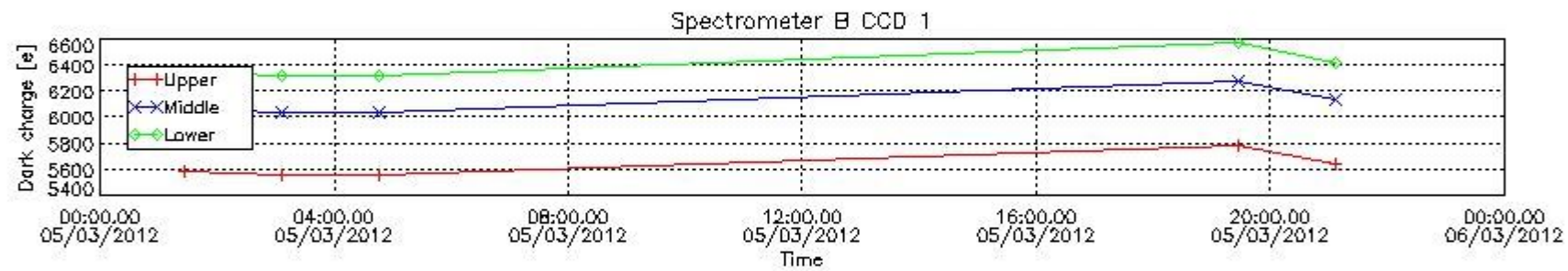
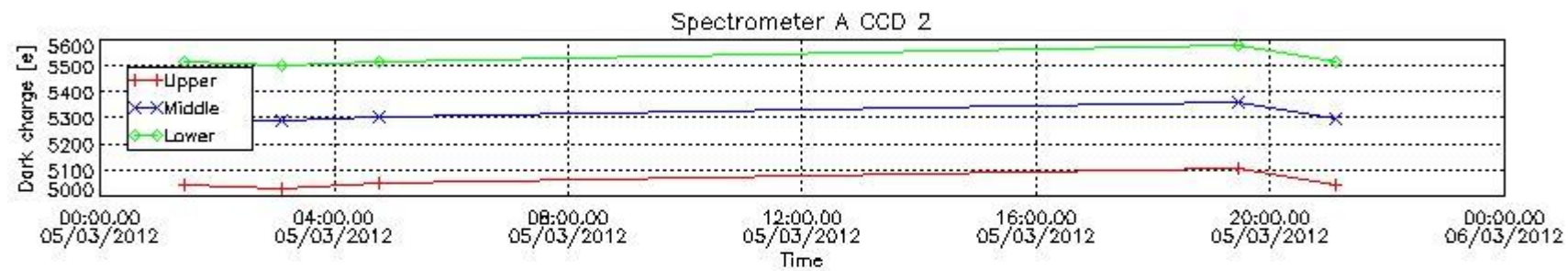
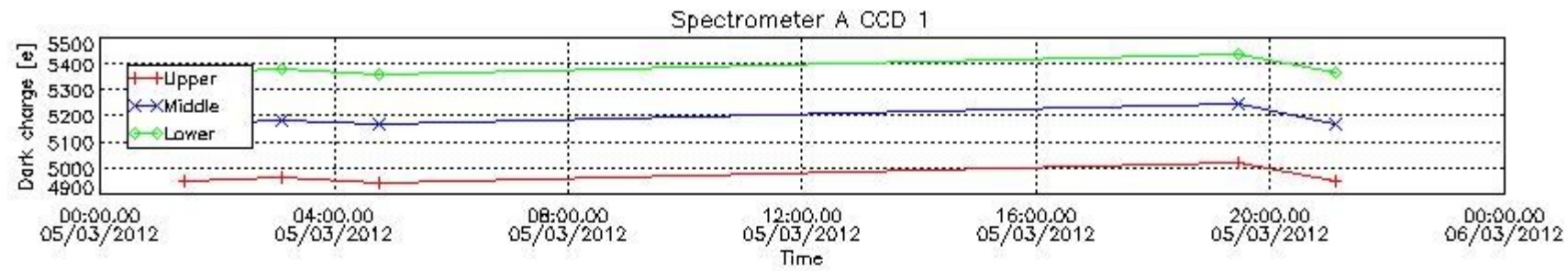
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20120305_005138_000000403112_00203_52372_5219.N1	DC map used
GOM_TRA_1PNPDE20120305_012630_000000413112_00204_52373_5277.N1	DC map used
GOM_TRA_1PNPDE20120305_023153_000000393112_00204_52373_5278.N1	DC map used
GOM_TRA_1PNPDE20120305_030644_000000403112_00205_52374_5279.N1	DC map used
GOM_TRA_1PNPDE20120305_041207_000000373112_00205_52374_5323.N1	DC map used
GOM_TRA_1PNPDE20120305_044658_000000413112_00206_52375_5324.N1	DC map used
GOM_TRA_1PNPDE20120305_055221_000000263112_00206_52375_5371.N1	DC map used
GOM_TRA_1PNPDE20120305_062713_000000433112_00207_52376_5372.N1	DC map used
GOM_TRA_1PNPDK20120305_080727_000000413112_00208_52377_9943.N1	DC map used
GOM_TRA_1PNPDK20120305_094742_000000443112_00209_52378_9977.N1	DC map used
GOM_TRA_1PNPDK20120305_112756_000000403112_00210_52379_0015.N1	DC map used
GOM_TRA_1PNPDK20120305_130810_000000393112_00211_52380_0057.N1	DC map used
GOM_TRA_1PNPDK20120305_144825_000000393112_00212_52381_0105.N1	DC map used
GOM_TRA_1PNPDK20120305_162839_000000403112_00213_52382_0133.N1	DC map used
GOM_TRA_1PNPDK20120305_180854_000000403112_00214_52383_0154.N1	DC map used
GOM_TRA_1PNPDK20120305_191440_000000443112_00214_52383_0181.N1	DC map used
GOM_TRA_1PNPDK20120305_192643_000000433112_00214_52383_0182.N1	DC map used
GOM_TRA_1PNPDK20120305_194908_000000403112_00215_52384_0183.N1	DC map used
GOM_TRA_1PNPDE20120305_205455_000000413112_00215_52384_5555.N1	DC map used
GOM_TRA_1PNPDE20120305_210657_000000403112_00215_52384_5580.N1	DC map used
GOM_TRA_1PNPDE20120305_230937_000000423112_00217_52386_5602.N1	DC map used

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



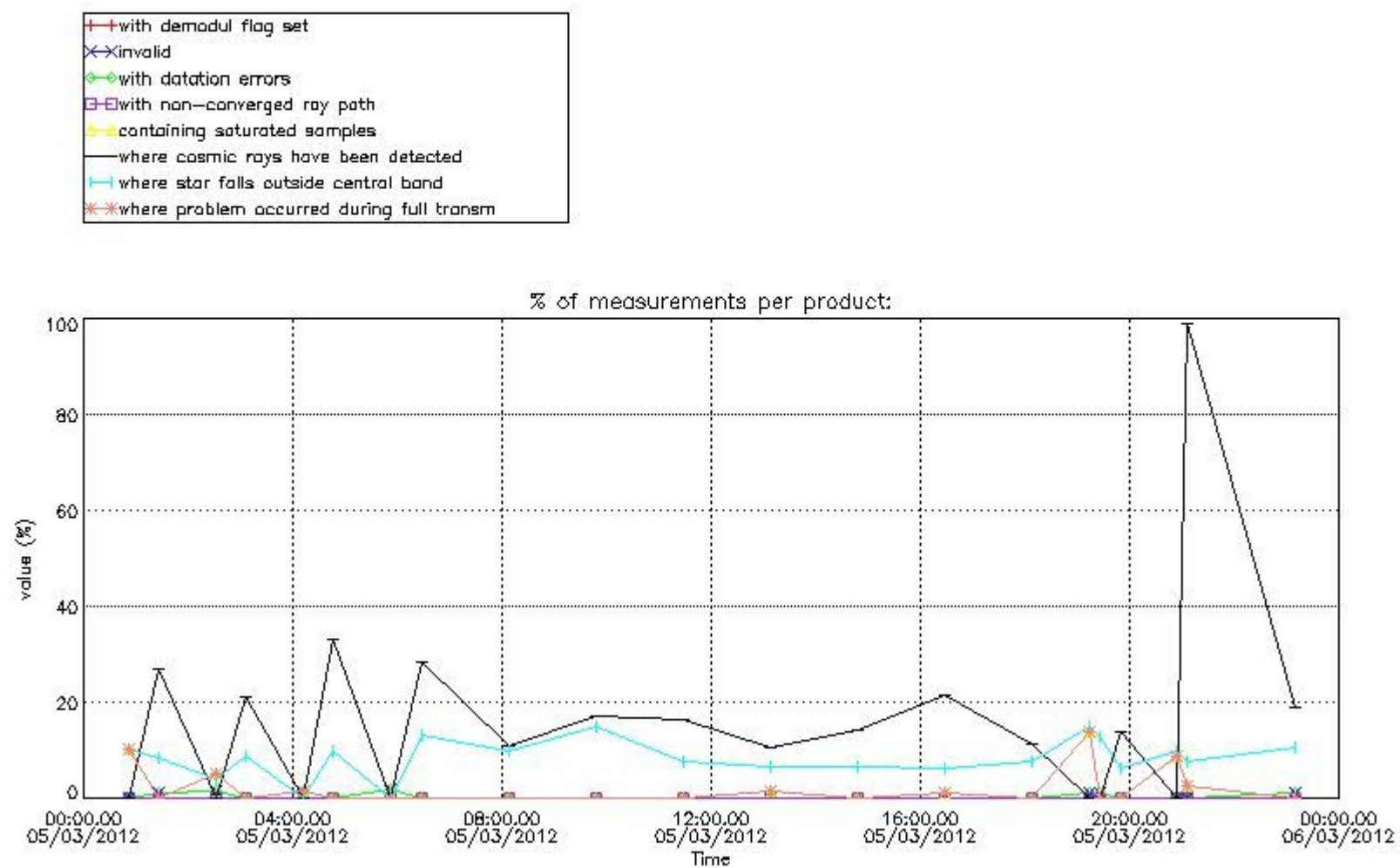
5. Demodulation flag and quality information monitoring

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.

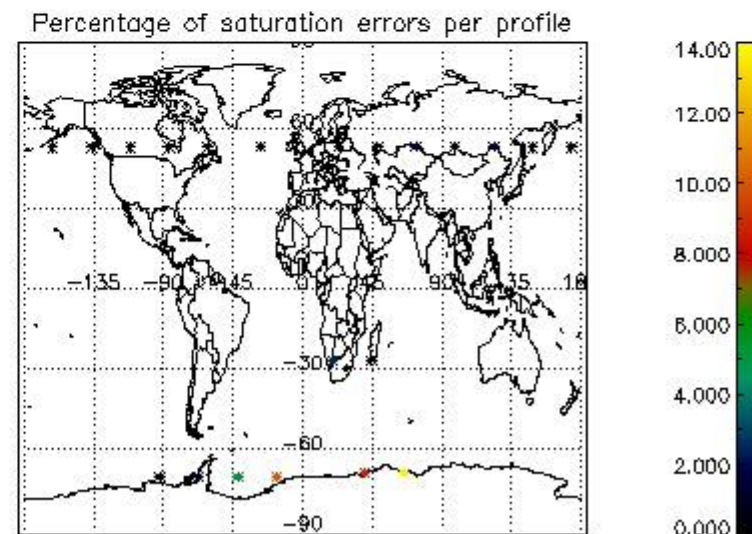
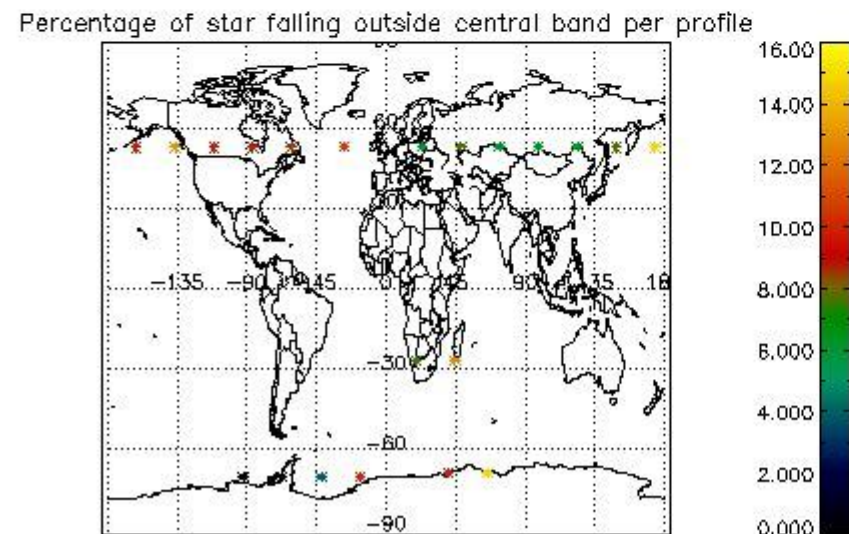
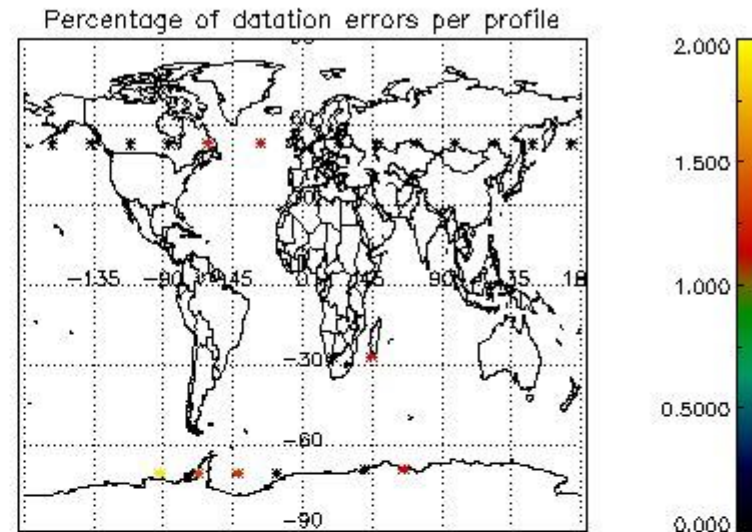
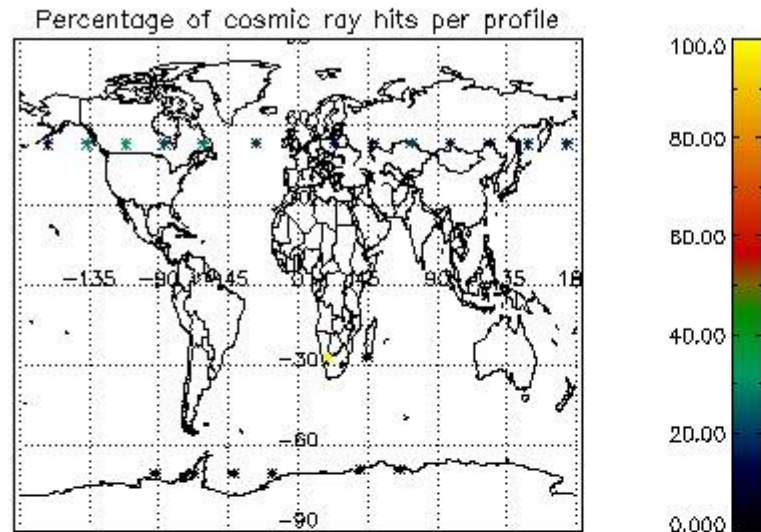
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	61.9048 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	23.8095 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



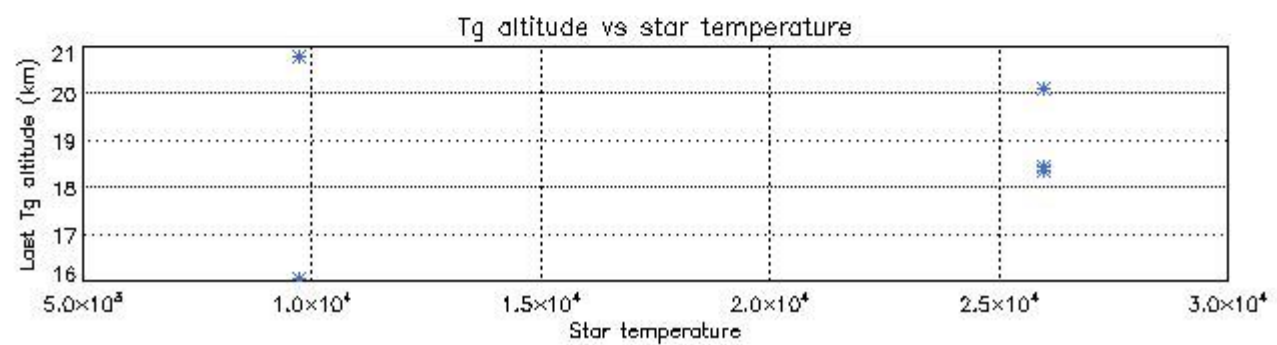
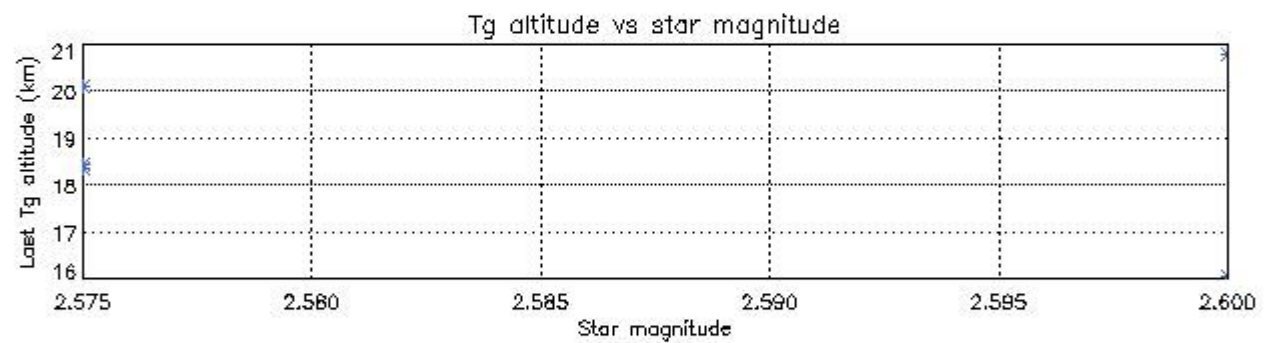
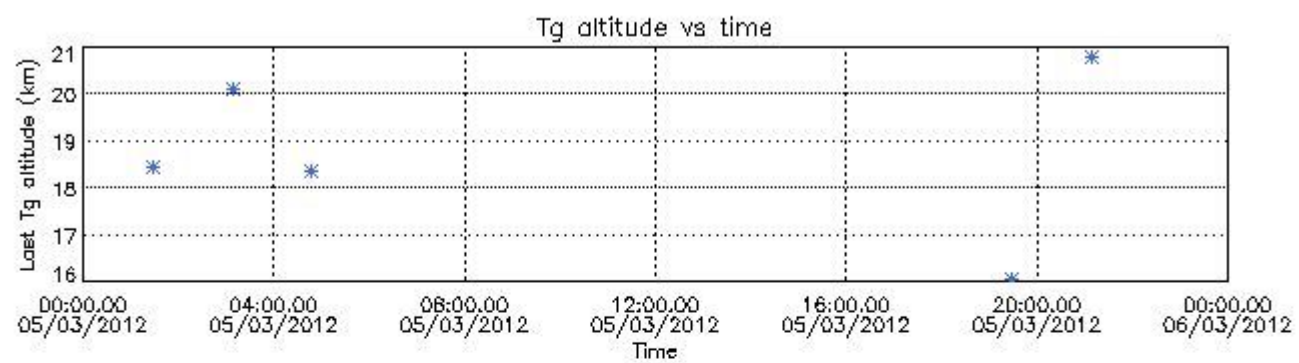
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.739	18.322	NaN
St. deviation:	1.8468	3.9932	NaN
Maximum:	20.776	23.704	NaN
Minimum:	16.024	12.968	NaN
Number of data:	5.0000	5.0000	NaN

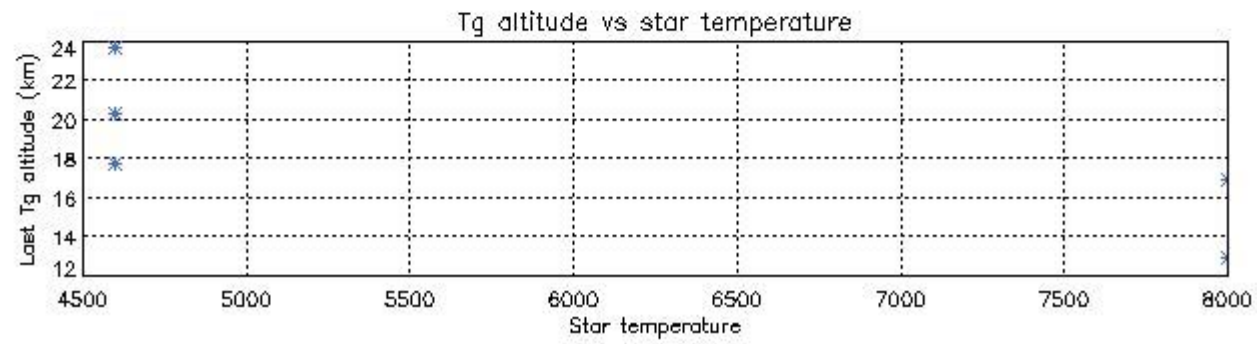
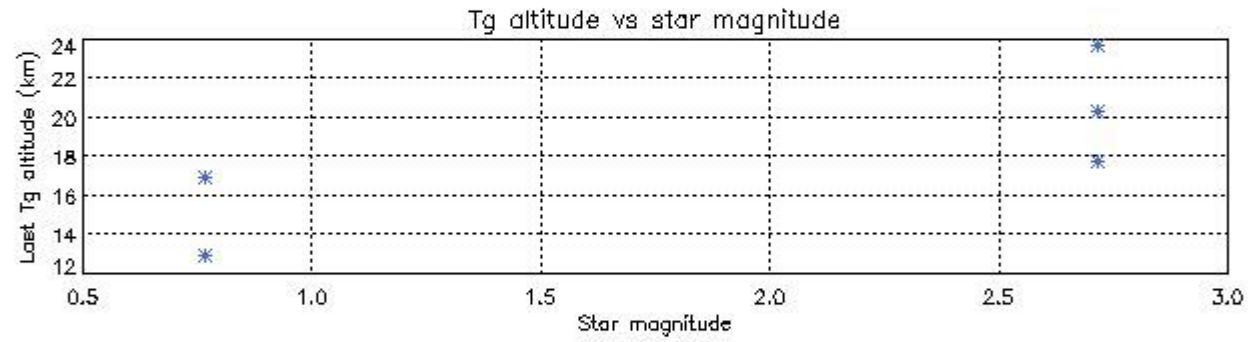
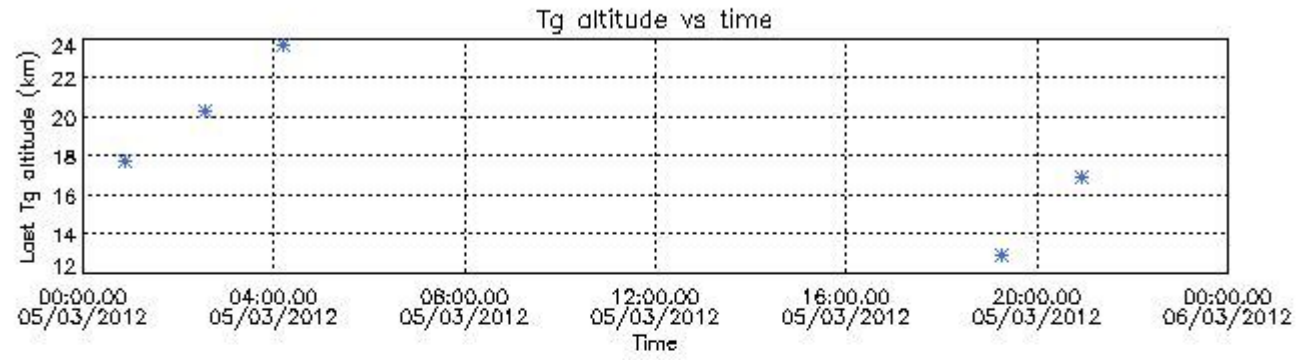
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

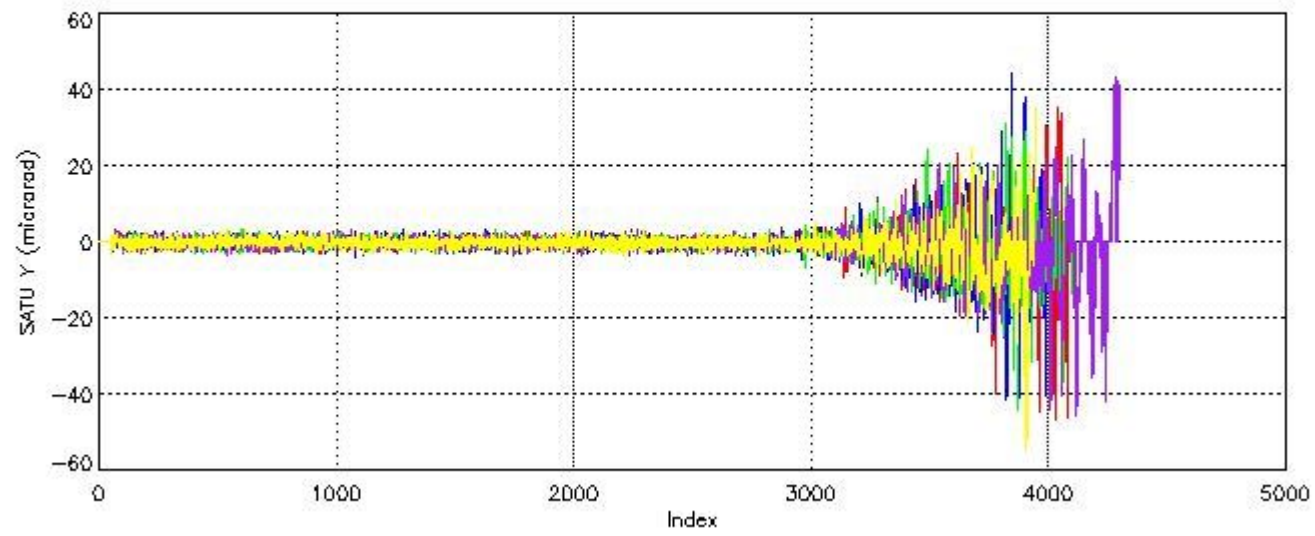
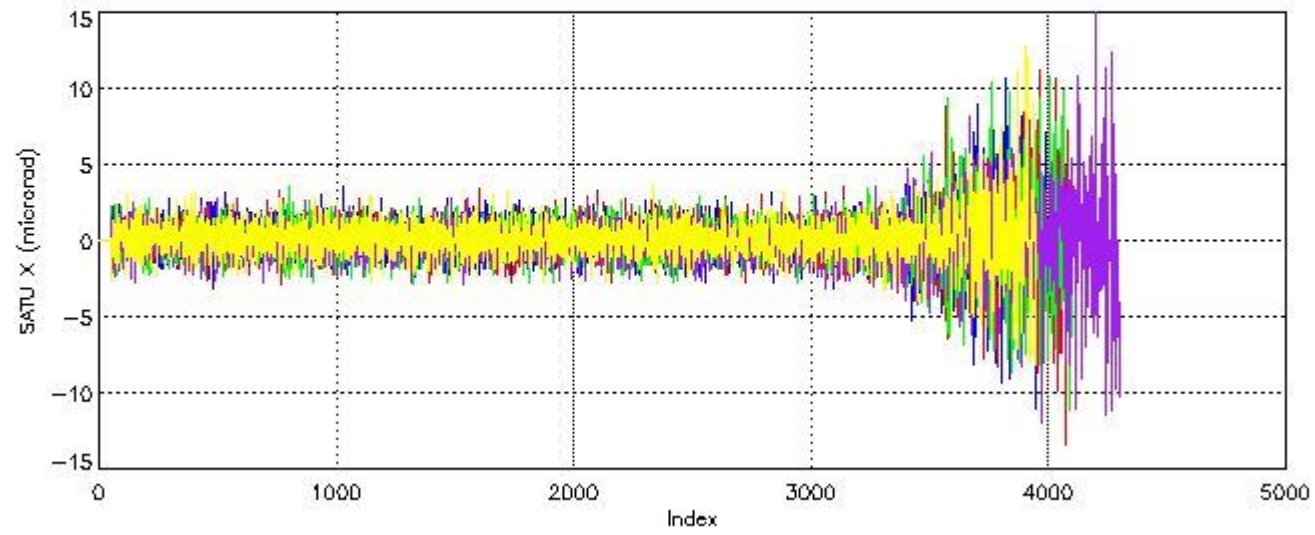


7. Star Acquisition and Tracking Unit (SATU)

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:	0.13228	-0.22349	0.11213	-0.13364
St. deviation:	0.91031	1.0210	0.34723	0.50775
Maximum:	3.5000	3.2000	1.4000	3.1000
Minimum:	-3.1000	-3.6000	-1.4000	-2.5000

Number of data:	4800.0	4800.0	4650.0	4650.0
90Percentile:	1.3000	1.1000	0.60000	0.50000

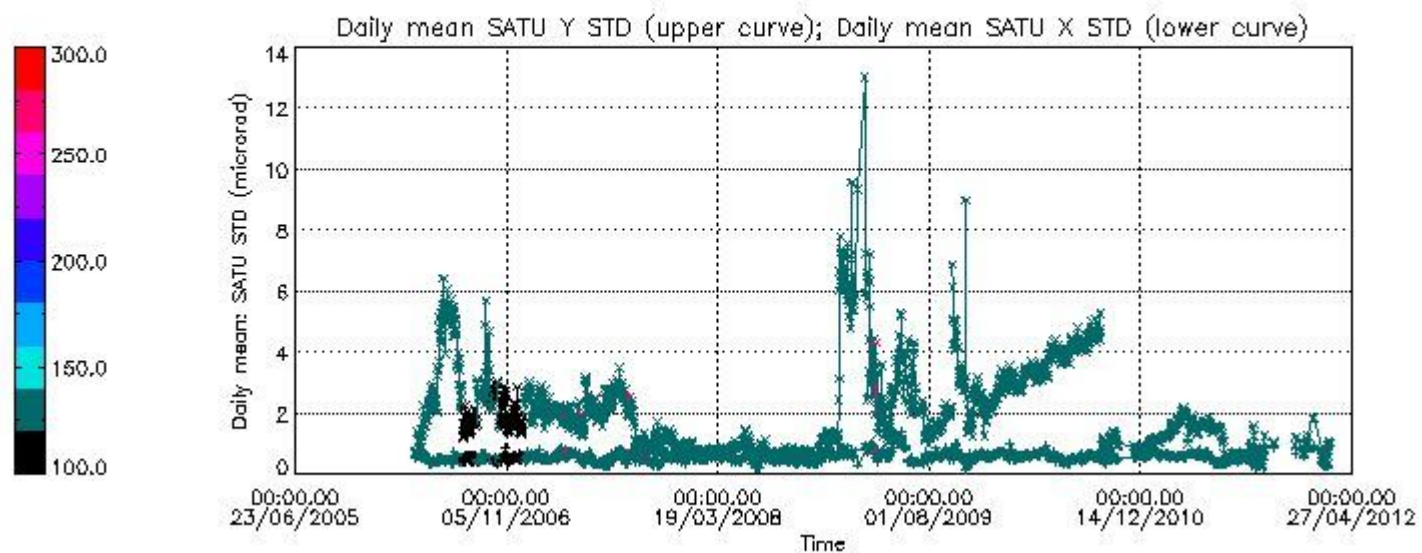
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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.

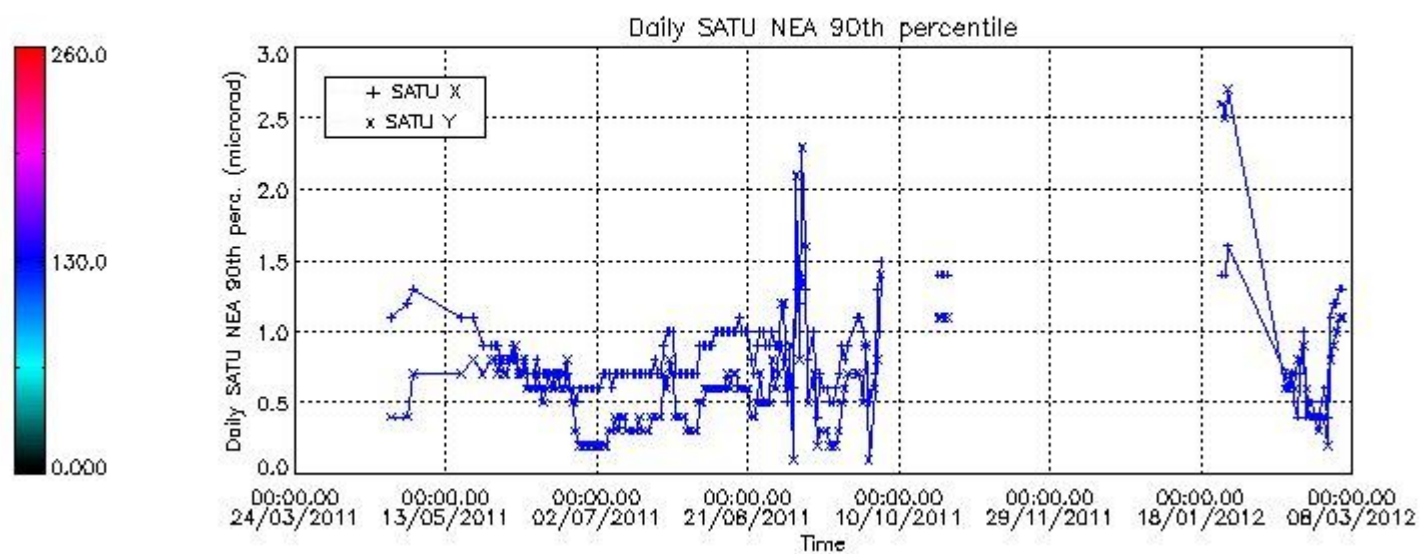
Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis



Lower curve: 90th percentile of SATU Y axis

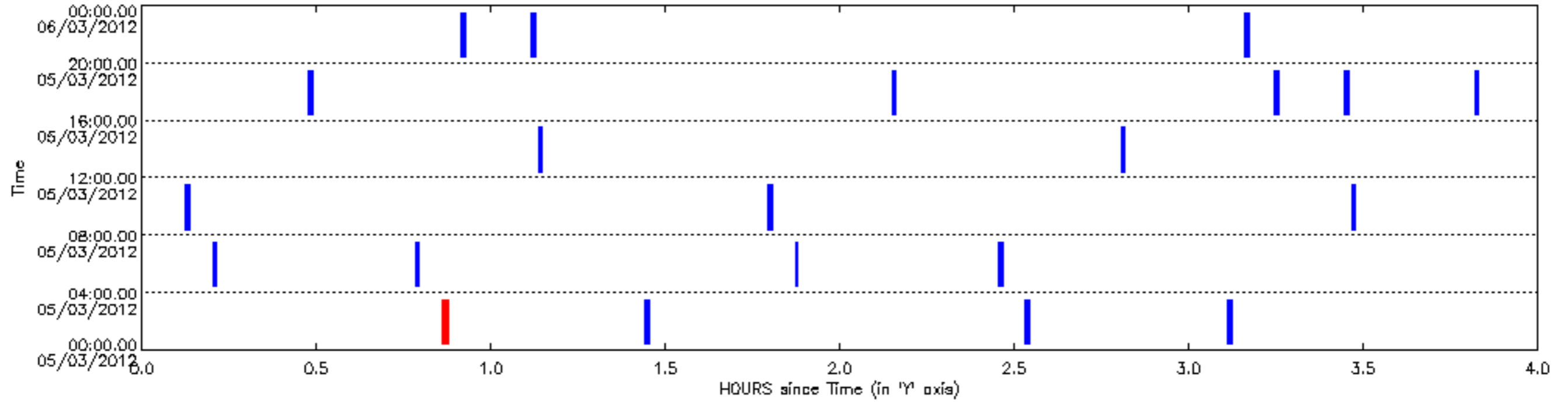
Upper curve: 90th percentile of SATU X axis

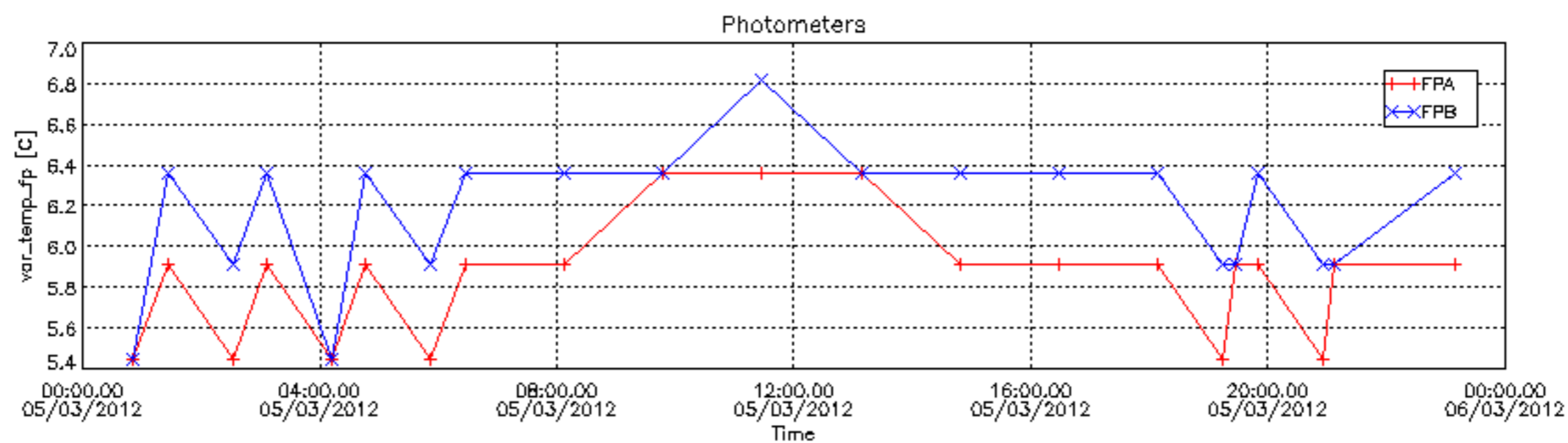
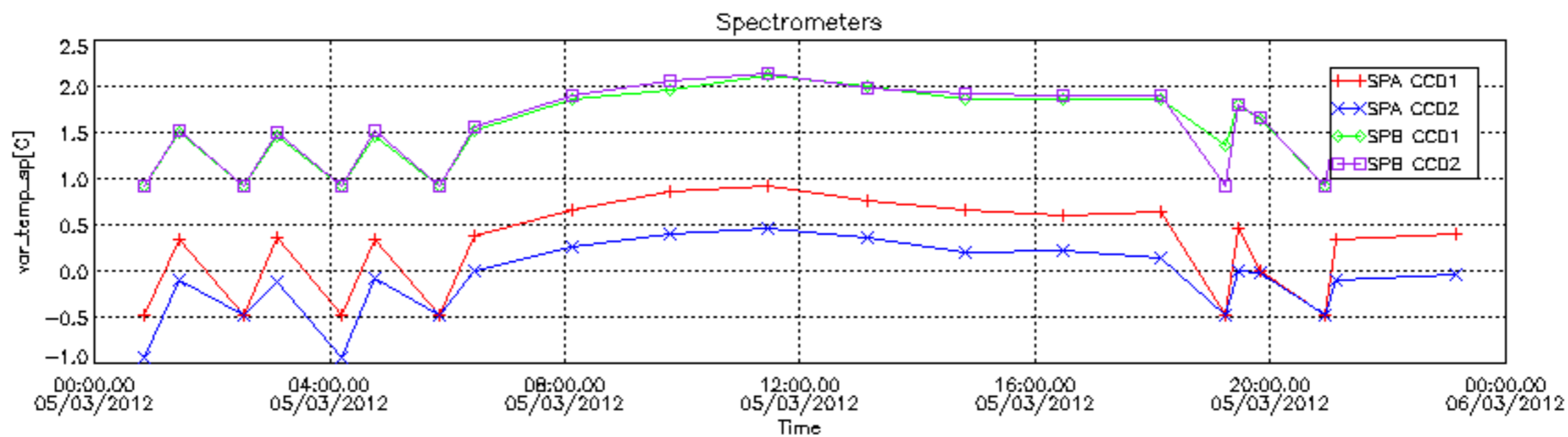


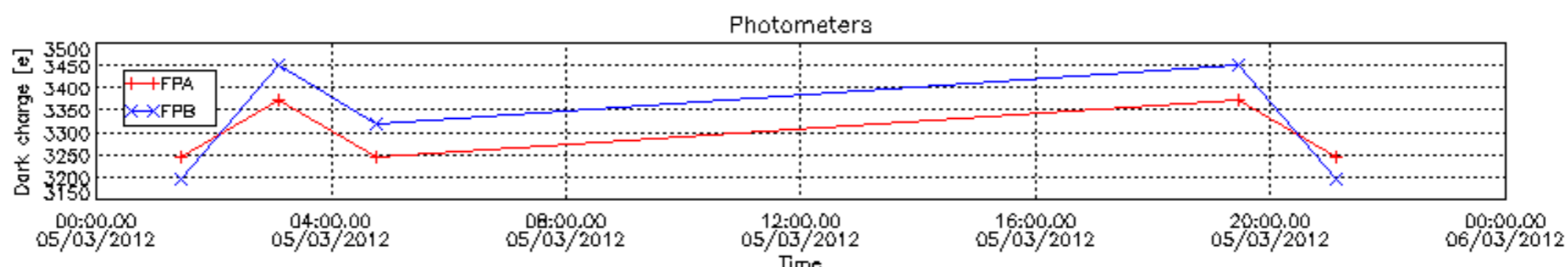
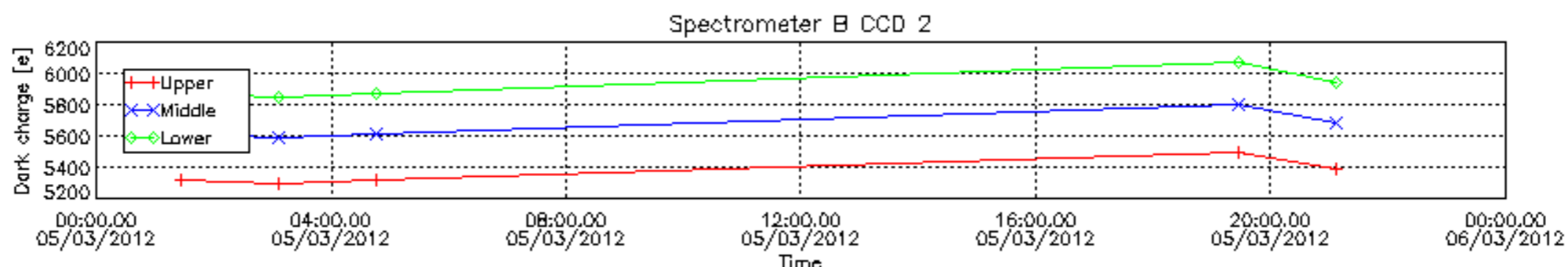
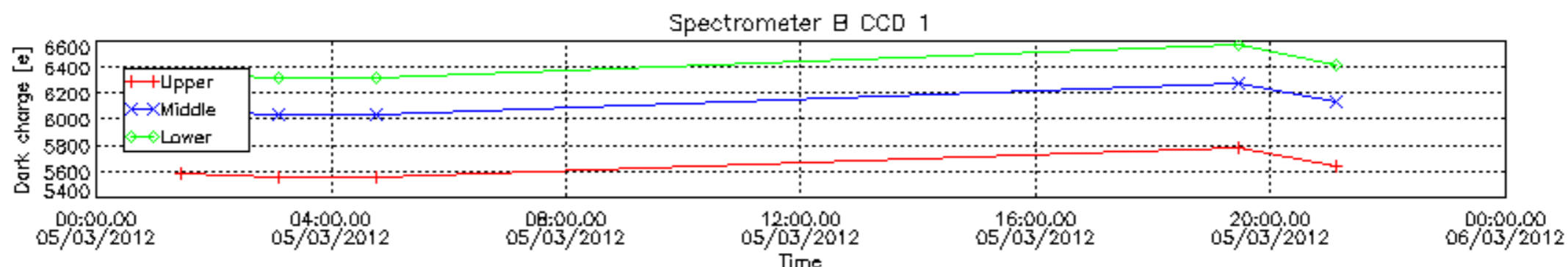
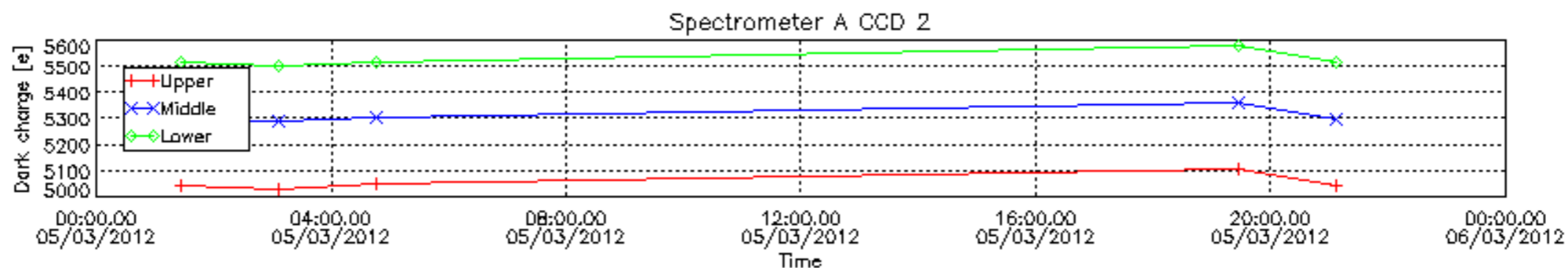
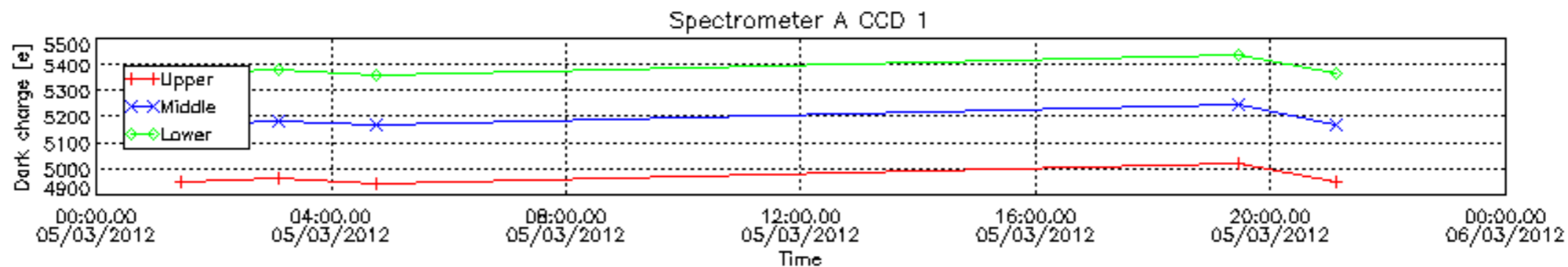
8. Auxiliary Data Files used for the production reported in section 2.4

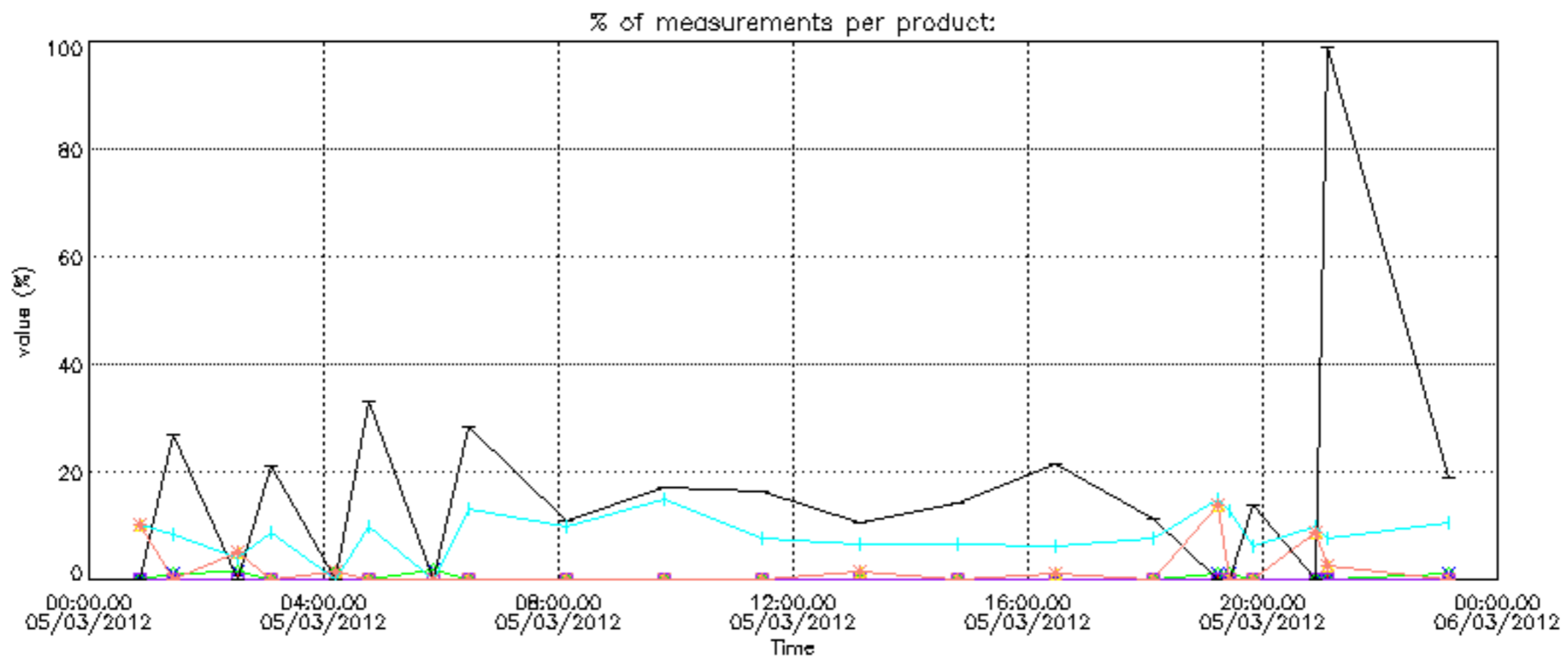
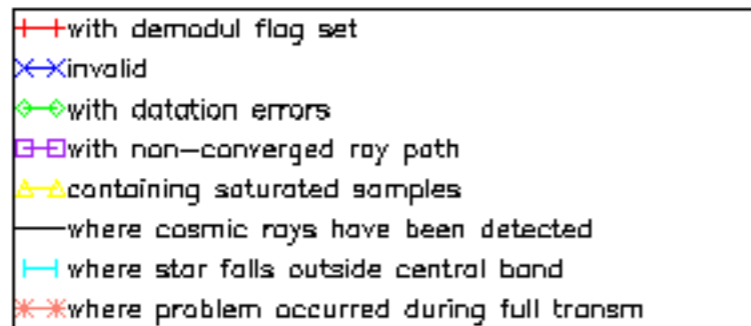
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	05-MAR-2012 00:51:38
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20120130_103112_20120125_000000_20500101_000000	1	05-MAR-2012 00:51:38
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	05-MAR-2012 00:51:38
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-MAR-2012 00:51:38
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	05-MAR-2012 00:51:38
ECMWF_FILE	AUX_ECF_AXNECM20120304_062616_20120304_210000_20120305_090000	1	05-MAR-2012 00:51:38
ECMWF_FILE	AUX_ECF_AXNECM20120304_182614_20120305_030000_20120305_150000	5	05-MAR-2012 04:12:07
ECMWF_FILE	AUX_ECA_AXNECM20120305_062113_20120304_210000_20120305_090000	7	05-MAR-2012 05:52:21
ECMWF_FILE	AUX_ECF_AXNECM20120305_062114_20120305_090000_20120305_210000	10	05-MAR-2012 09:47:42
ECMWF_FILE	AUX_ECF_AXNECM20120305_062114_20120305_150000_20120306_030000	14	05-MAR-2012 16:28:39
ECMWF_FILE	AUX_ECA_AXNECM20120305_185155_20120305_090000_20120305_210000	16	05-MAR-2012 19:14:40
ECMWF_FILE	AUX_ECF_AXNECM20120305_062115_20120305_210000_20120306_090000	20	05-MAR-2012 21:06:57
OPTIONAL_ECMWF_FILE	MISSING	1	05-MAR-2012 00:51:38
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120302_232834_20120301_184045_20120311_205427	1	05-MAR-2012 00:51:38
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120305_233155_20120305_193414_20120315_200740	21	05-MAR-2012 23:09:37

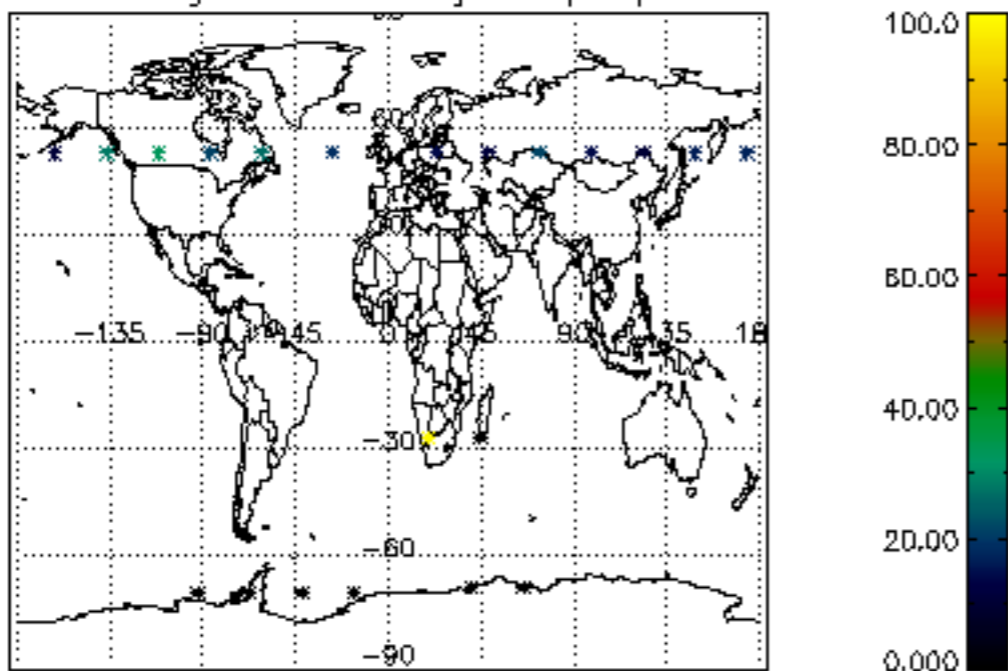




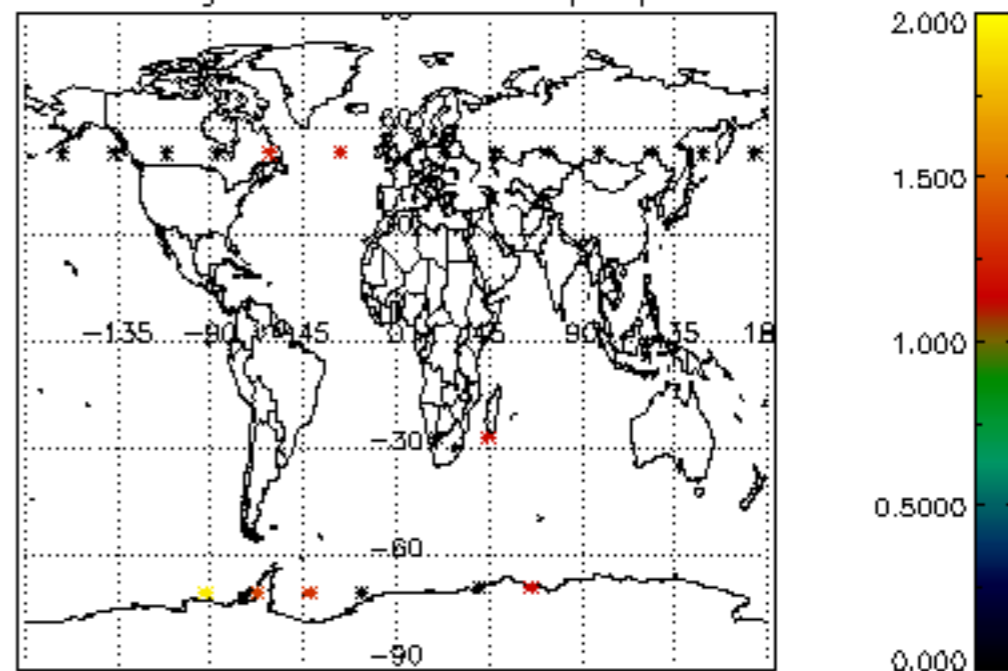




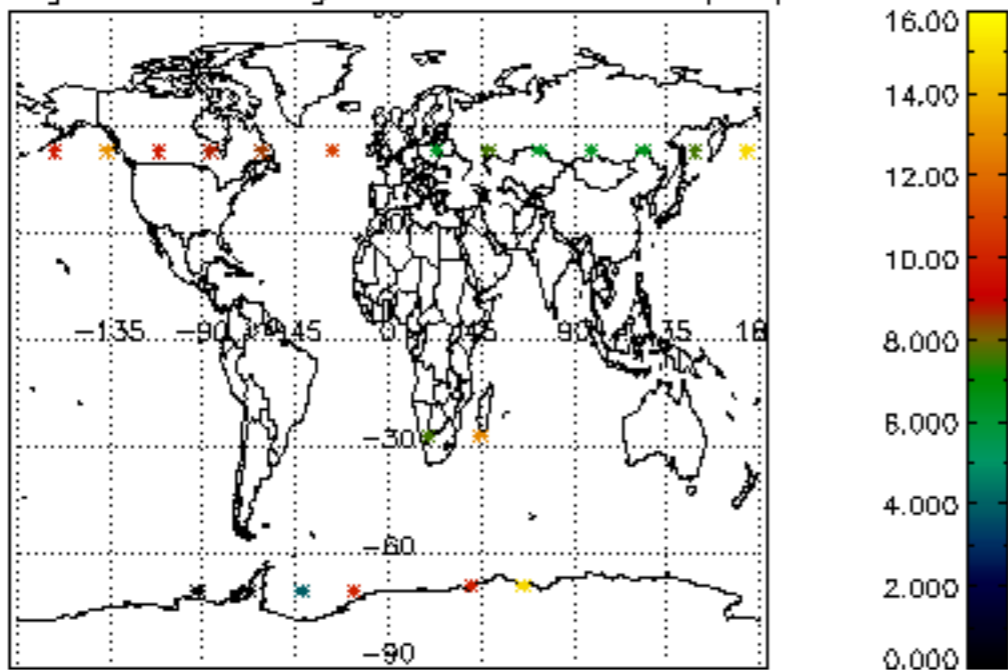
Percentage of cosmic ray hits per profile



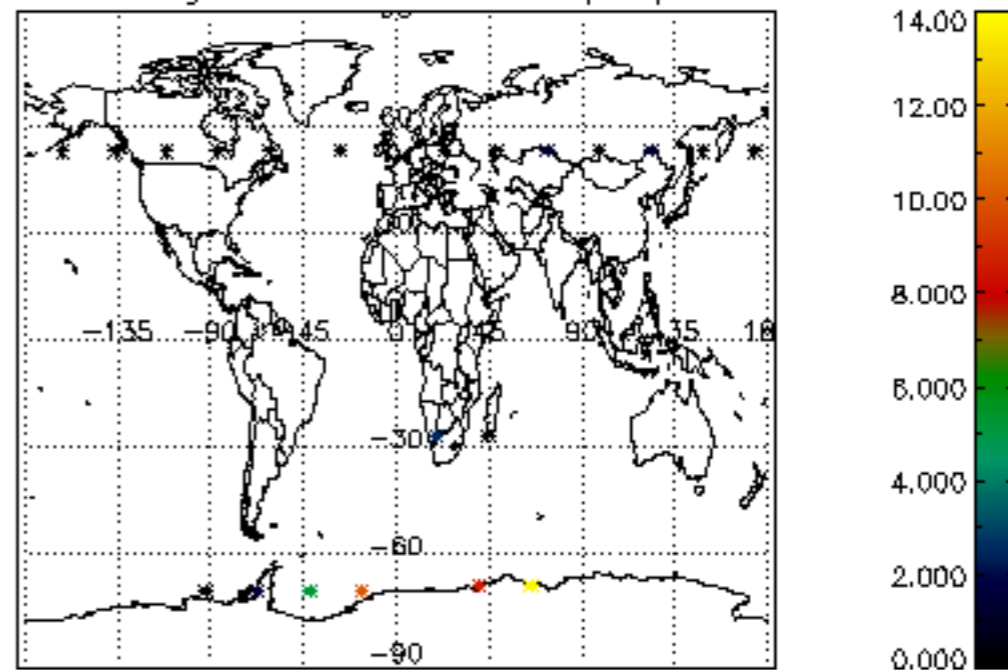
Percentage of datation errors per profile



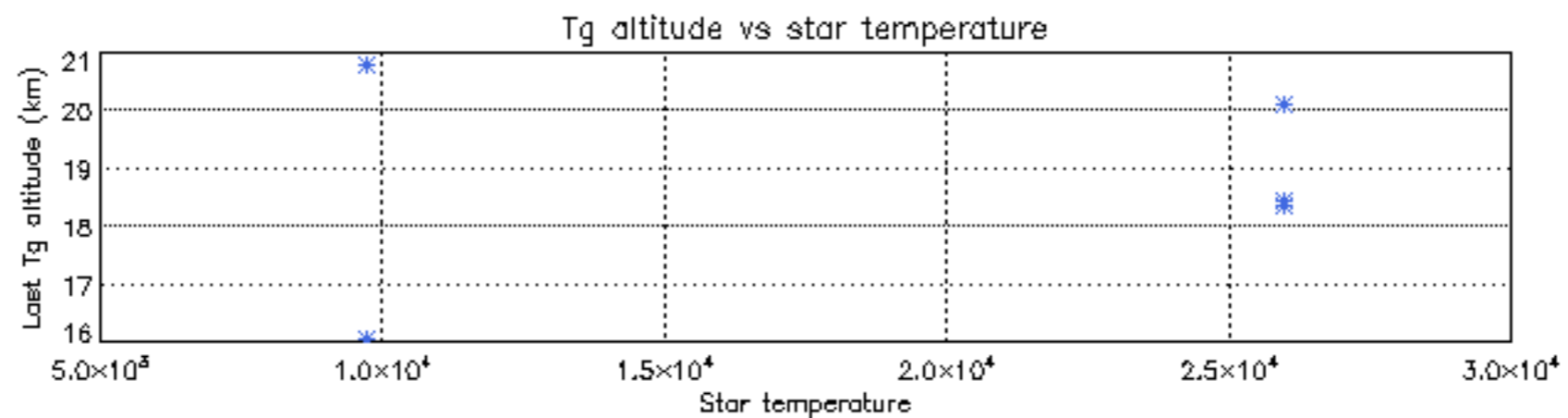
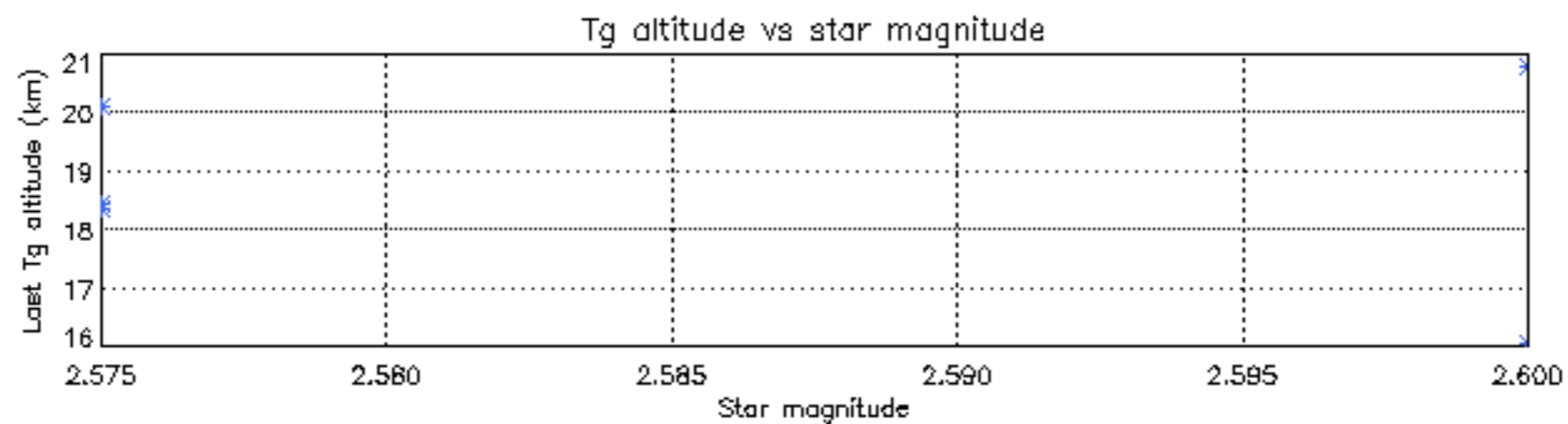
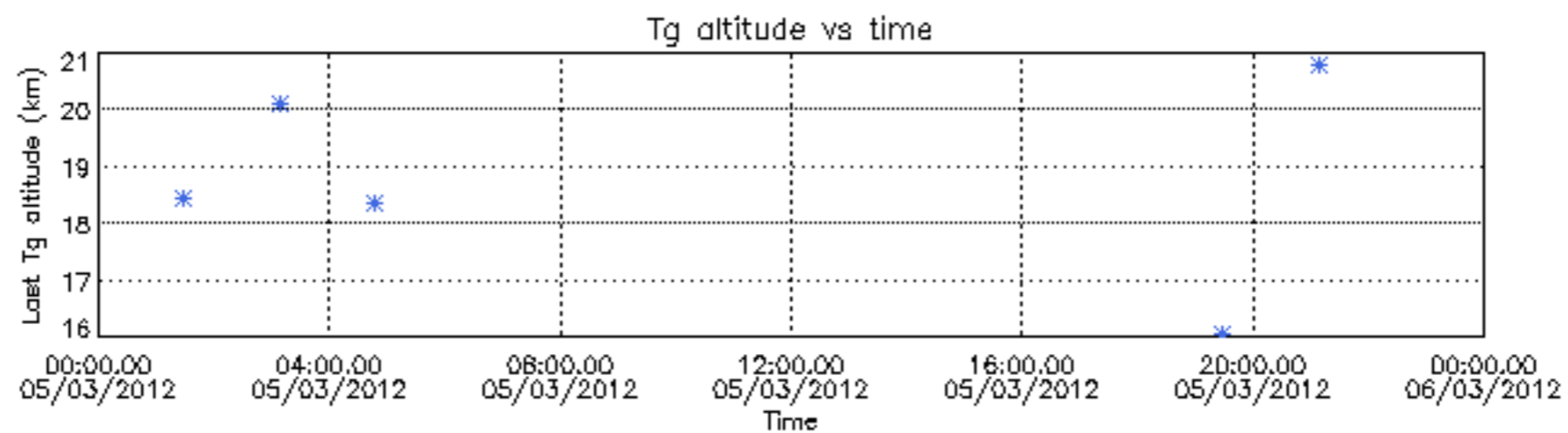
Percentage of star falling outside central band per profile



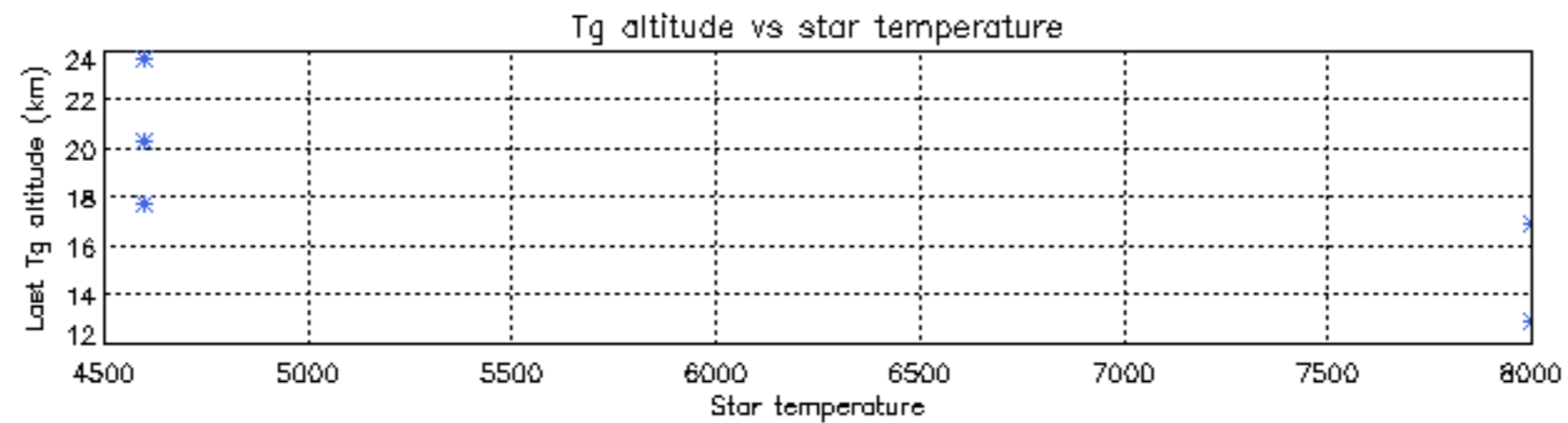
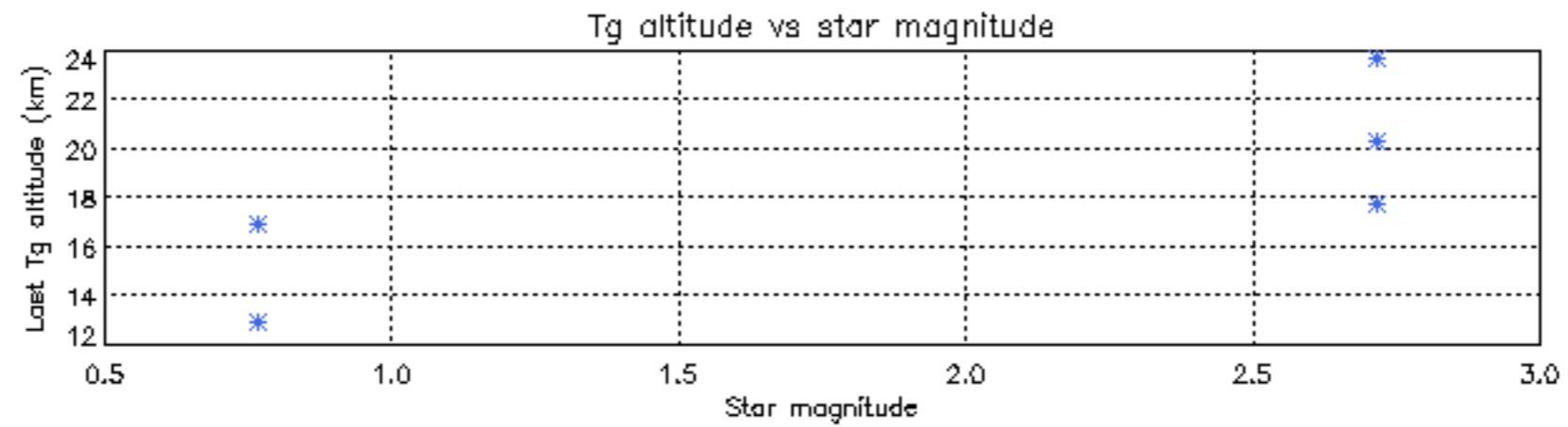
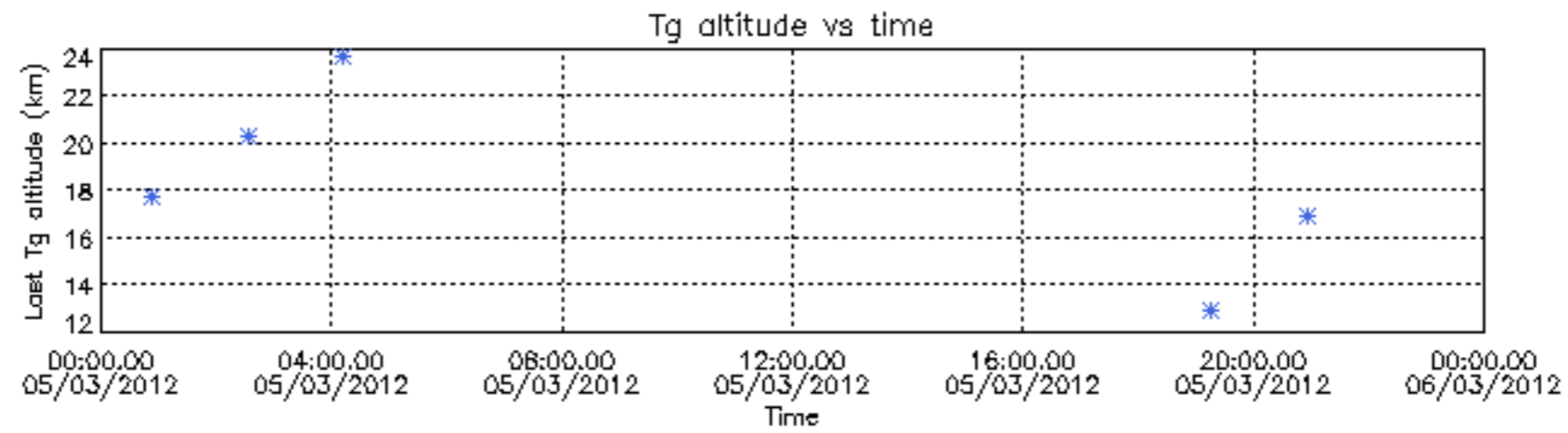
Percentage of saturation errors per profile

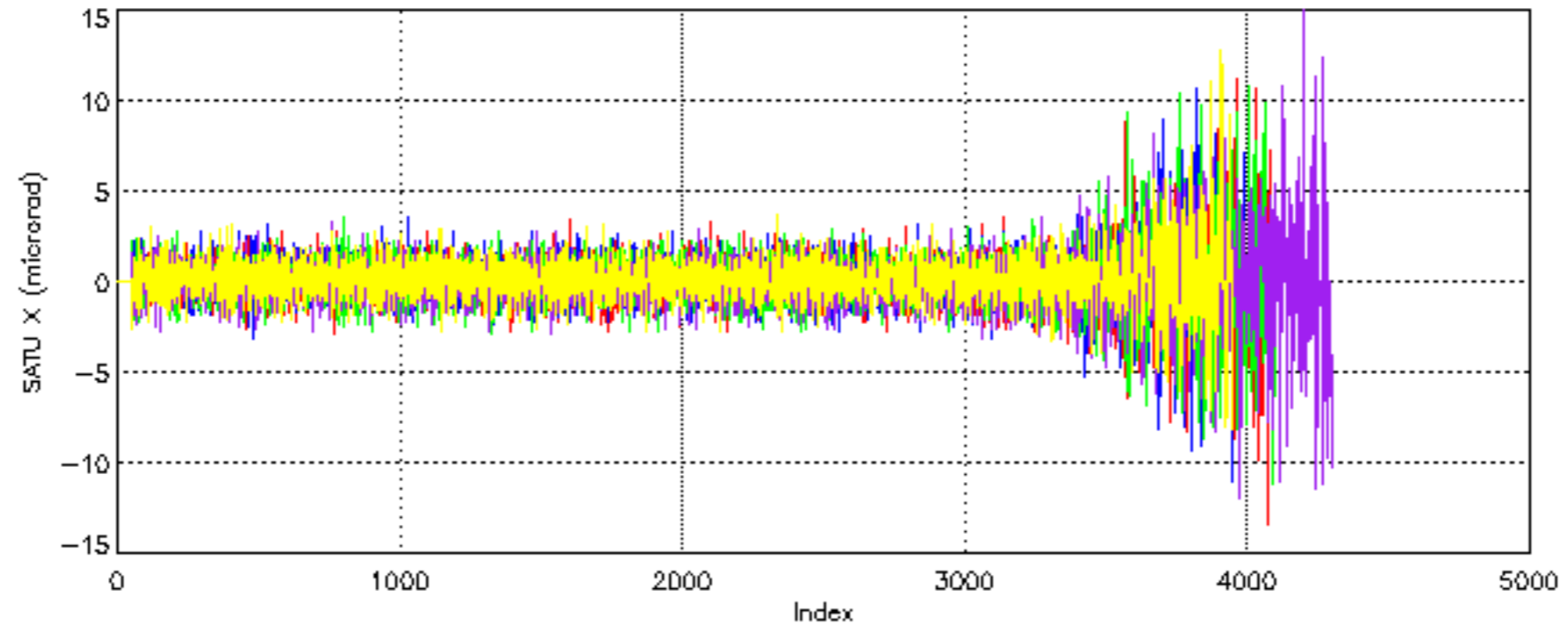


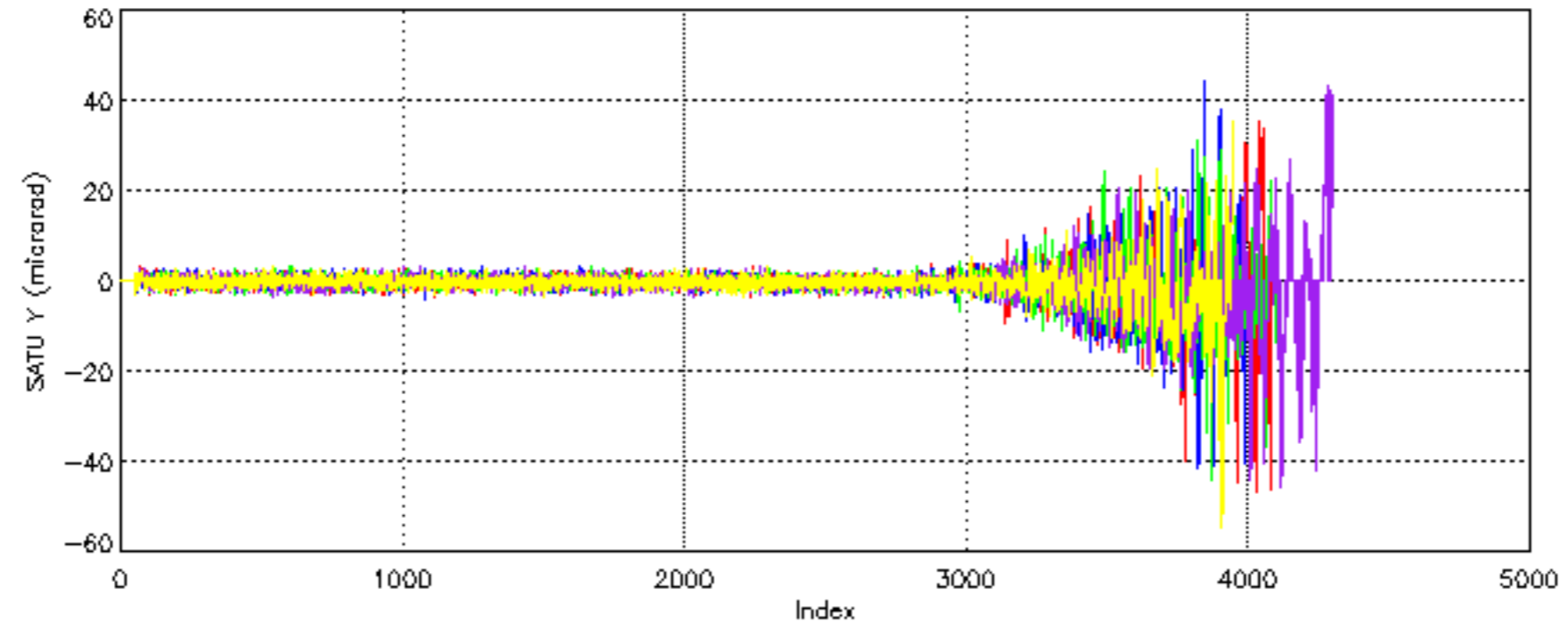
Tangent altitude at which the star is lost

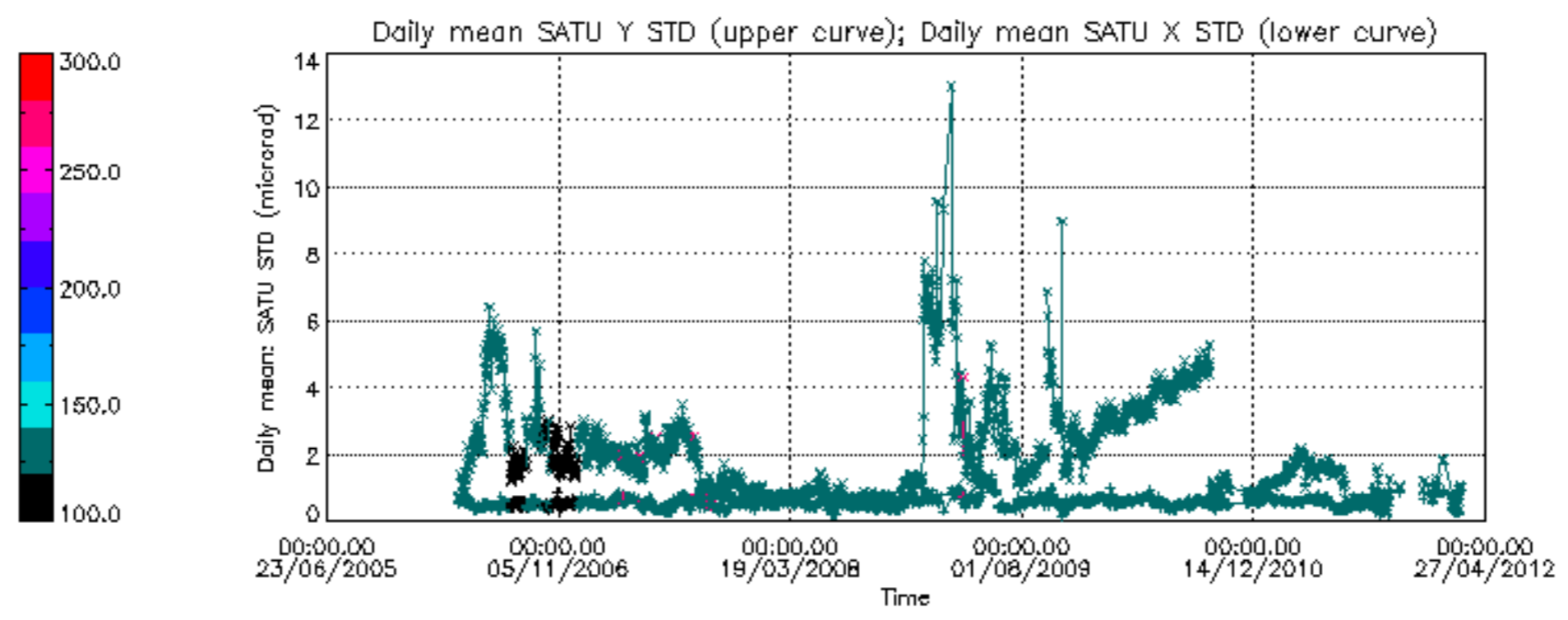


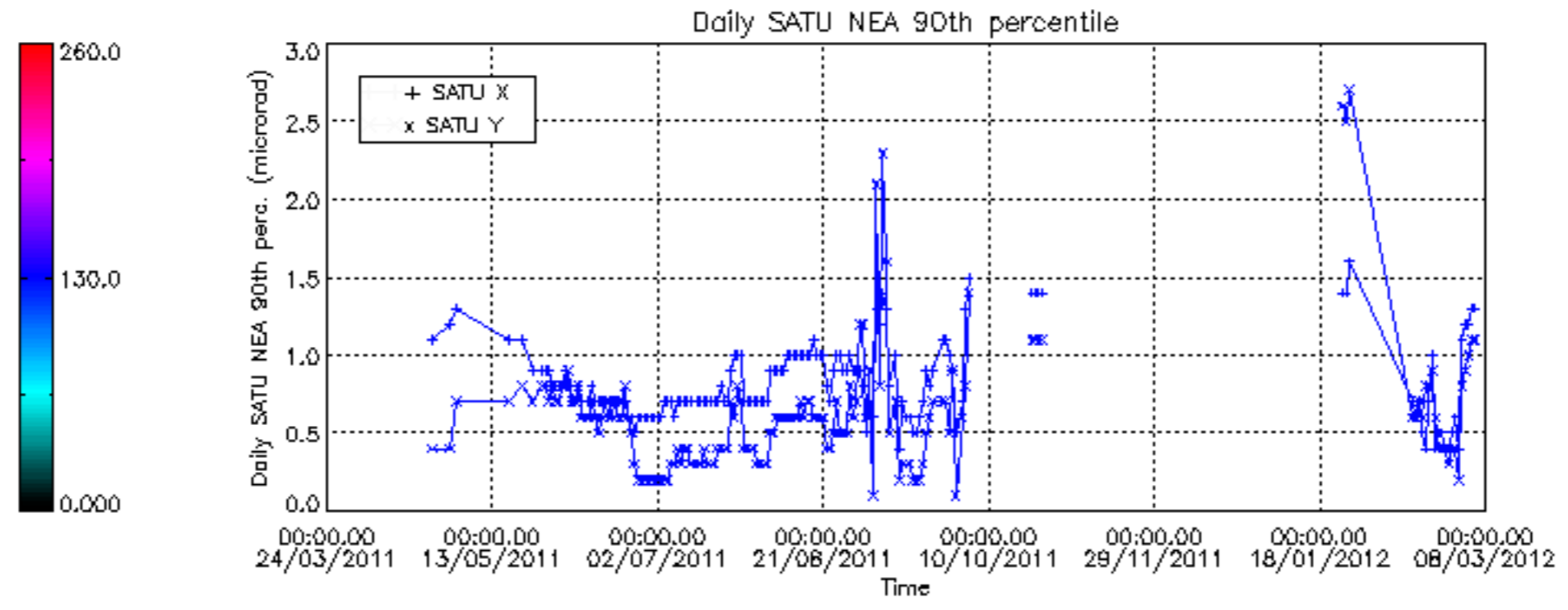
Tangent altitude at which the star is lost











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2; 529.6; 01-MAR-2012 22:10:02; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;52328
3; 4193.8; 01-MAR-2012 23:11:06; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;52328

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2; 530.1; 01-MAR-2012 23:50:16; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;52329
3; 4193.8; 02-MAR-2012 00:51:20; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71; 0;52329

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2; -18.6; 01-MAR-2012 06:58:48; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52318
3; 524.8; 01-MAR-2012 07:07:52; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52319

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2; -17.3; 01-MAR-2012 08:39:04; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;52319
3; 526.1; 01-MAR-2012 08:48:07; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;52320

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2; -17.0; 01-MAR-2012 11:59:32; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52321
3; 526.3; 01-MAR-2012 12:08:35; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;52322

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2; -16.2; 01-MAR-2012 13:39:46; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;52322
3; 526.6; 01-MAR-2012 13:48:49; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52323

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2; -15.8; 01-MAR-2012 15:20:01; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52323
3; 527.2; 01-MAR-2012 15:29:04; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52324

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2; -15.0; 01-MAR-2012 17:00:16; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;52324
3; 527.8; 01-MAR-2012 17:09:18; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;52325

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2; -14.3; 01-MAR-2012 18:40:30; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;52325
3; 528.3; 01-MAR-2012 18:49:33; Dark ; 52.5; 10; Bet Cen ; 0.61; 28000;occ; 105; 0;52326

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2; -13.7; 01-MAR-2012 20:20:45; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52326
3; 529.0; 01-MAR-2012 20:29:48; Dark ; 47.0; 10; Bet Cen ; 0.61; 28000;occ; 94; 0;52327

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2; 530.7; 02-MAR-2012 01:30:31; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;52330
3; 5493.0; 02-MAR-2012 02:53:13; Dark ; 44.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 89; 0;52330
4; 6003.0; 02-MAR-2012 03:01:43; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;52330
5; 6545.3; 02-MAR-2012 03:10:45; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52331

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2; -10.3; 02-MAR-2012 04:41:58; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;52331
3; 532.0; 02-MAR-2012 04:51:00; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;52332

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2; -9.7; 02-MAR-2012 06:22:12; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;52332
3; 532.6; 02-MAR-2012 06:31:15; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;52333

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2; -3.6; 02-MAR-2012 21:24:24; Dark ; 28.5; 147; Alp Ara ; 2.88; 26000;occ; 57; 0;52341

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2; -3.3; 02-MAR-2012 23:04:39; Dark ; 25.5; 147; Alp Ara ; 2.88; 26000;occ; 51; 0;52342

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2; -9.0; 02-MAR-2012 08:02:27; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;52333
3; 533.1; 02-MAR-2012 08:11:29; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52334

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2; -8.4; 02-MAR-2012 09:42:42; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52334
3; 533.6; 02-MAR-2012 09:51:44; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52335
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2; -7.6; 02-MAR-2012 11:22:56; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;52335
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2; -7.0; 02-MAR-2012 13:03:11; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52336
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2; -6.3; 02-MAR-2012 14:43:25; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;52337
3; 536.9; 02-MAR-2012 14:52:29; Dark ; 39.5; 10; Bet Cen ; 0.61; 28000;occ; 79; 0;52338
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2; -5.0; 02-MAR-2012 18:03:55; Dark ; 34.5; 147; Alp Ara ; 2.88; 26000;occ; 69; 0;52339
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2; 5395.2; 03-MAR-2012 20:37:25; Dark ; 42.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 84; 0;52355
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2; 4811.7; 04-MAR-2012 23:11:24; Bright; 41.5; 118; 50Gam Aql ; 2.72; 4600;occ; 83; 0;52371
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2; 2234.3; 11-MAR-2012 23:11:54; Bright; 38.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 76; 0;52472
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2; 140.4; 11-MAR-2012 07:34:55; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;52463
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2; 4280.2; 11-MAR-2012 12:04:23; Bright; 39.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 78; 0;52465
3; 6156.1; 11-MAR-2012 12:35:39; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;52466
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2; 4280.3; 11-MAR-2012 13:44:37; Bright; 37.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 74; 0;52466
3; 6156.9; 11-MAR-2012 14:15:53; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;52467
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2; 4280.4; 11-MAR-2012 17:05:05; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;52468
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2; 4280.4; 11-MAR-2012 18:45:19; Bright; 38.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 77; 0;52469
3; 6158.8; 11-MAR-2012 19:16:37; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;52470
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2; 4280.5; 11-MAR-2012 20:25:33; Bright; 30.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 60; 0;52470
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2; 550.5; 13-MAR-2012 23:10:34; Dark ; 49.5; 4; Alp1Cen ;-0.01; 5800;occ; 99; 0;52501
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2; 547.3; 13-MAR-2012 13:09:07; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;52495
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2; 548.0; 13-MAR-2012 14:49:22; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;52496
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2; 549.0; 13-MAR-2012 18:09:51; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;52498
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2; 549.5; 13-MAR-2012 19:50:05; Dark ; 56.5; 4; Alp1Cen ;-0.01; 5800;occ; 113; 0;52499
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2; 558.2; 14-MAR-2012 22:33:57; Dark ; 45.5; 4; Alp1Cen ;-0.01; 5800;occ; 91; 0;52515
3; 4189.9; 14-MAR-2012 23:34:29; Bright; 35.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 70; 0;52515
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3; 554.0; 14-MAR-2012 09:12:01; Dark ; 56.5; 4; Alp1Cen ;-0.01; 5800;occ; 113; 0;52507
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2; 290.4; 14-MAR-2012 10:47:51; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52508
3; 554.5; 14-MAR-2012 10:52:16; Dark ; 48.5; 4; Alp1Cen ;-0.01; 5800;occ; 97; 0;52508
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3; 555.1; 14-MAR-2012 12:32:30; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;52509
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2; 291.6; 14-MAR-2012 14:08:20; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52510
3; 555.7; 14-MAR-2012 14:12:45; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;52510
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3; 556.2; 14-MAR-2012 15:52:59; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;52511
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3; 557.2; 14-MAR-2012 19:13:28; Dark ; 56.0; 4; Alp1Cen ;-0.01; 5800;occ; 112; 0;52513
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2; 294.1; 14-MAR-2012 20:49:19; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52514
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2; 558.7; 15-MAR-2012 00:14:11; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;52516
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2; 296.6; 15-MAR-2012 03:30:17; Dark ; 56.5; 0; ; 0.00; 0;occ; 113; 0;52518
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