

GOMOS Daily Report 27-MAY-2011

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	01JUN2011 07:06:43
Data source version	GOMOS/5.01
Start time of products	27MAY2011 06:47:15
Stop time of products	27MAY2011 23:57:52
Store outputs in DB	Yes
Nb of level 1b prods	186
Nb of prods with errors	2

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

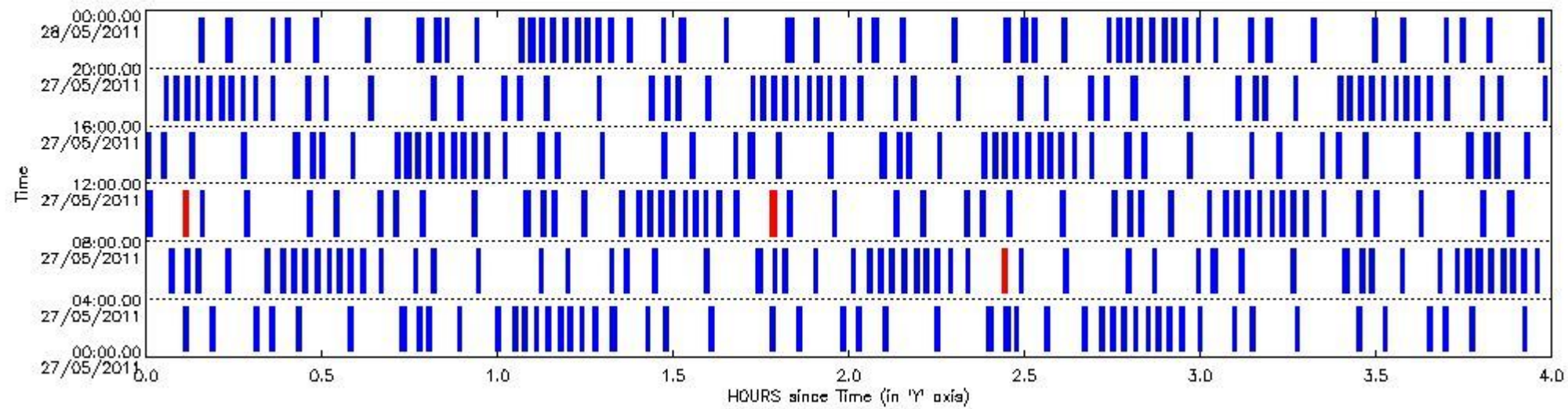
2.1 Level 0 products arrived in PCF (see template [here](#))

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).



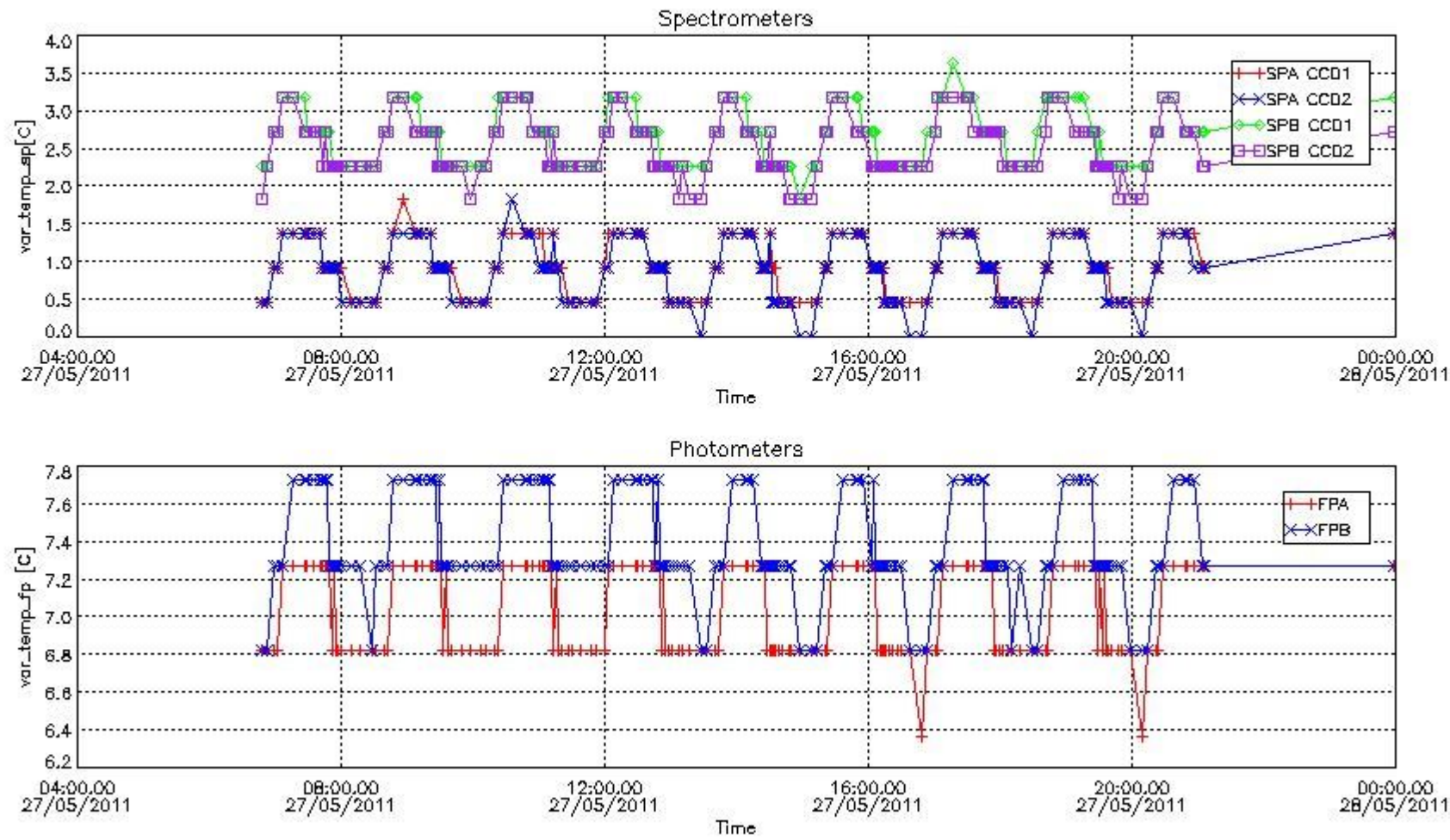
2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
27-MAY-2011 06:26:04	5AlpCrB	67	48310
27-MAY-2011 08:06:17	5AlpCrB	67	48311
27-MAY-2011 09:46:31	5AlpCrB	67	48312

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_1PNPDK20110527_064715_000000453103_00020_48310_3273.N1	27-MAY-2011 06:47:15	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	48310	No
2	GOM_TRA_1PNPDK20110527_065147_000000353103_00020_48310_3274.N1	27-MAY-2011 06:51:47	Bright	35.000	76	27Gam Cas	2.3000	30000.	70	48310	No
3	GOM_TRA_1PNPDK20110527_065919_000000413103_00020_48310_3275.N1	27-MAY-2011 06:59:19	Bright	41.000	53	43Bet And	2.0480	3300.0	82	48310	No
4	GOM_TRA_1PNPDK20110527_070154_000000523103_00020_48310_3276.N1	27-MAY-2011 07:01:54	Twilight_stray	51.500	58	21Alp And	2.0730	11000.	103	48310	No
5	GOM_TRA_1PNPDK20110527_070634_000000483103_00020_48310_3277.N1	27-MAY-2011 07:06:34	Dark	47.500	140	88Gam Peg	2.8340	26000.	95	48310	No
6	GOM_TRA_1PNPDK20110527_071527_000000483103_00020_48310_3278.N1	27-MAY-2011 07:15:27	Dark	47.500	52	16Bet Cet	2.0370	4500.0	95	48310	No
7	GOM_TRA_1PNPDK20110527_072710_000000513103_00021_48311_3279.N1	27-MAY-2011 07:27:10	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	48311	No
8	GOM_TRA_1PNPDK20110527_072857_000000443103_00021_48311_3280.N1	27-MAY-2011 07:28:57	Dark	43.500	31	Alp Gru	1.7340	15200.	87	48311	No

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



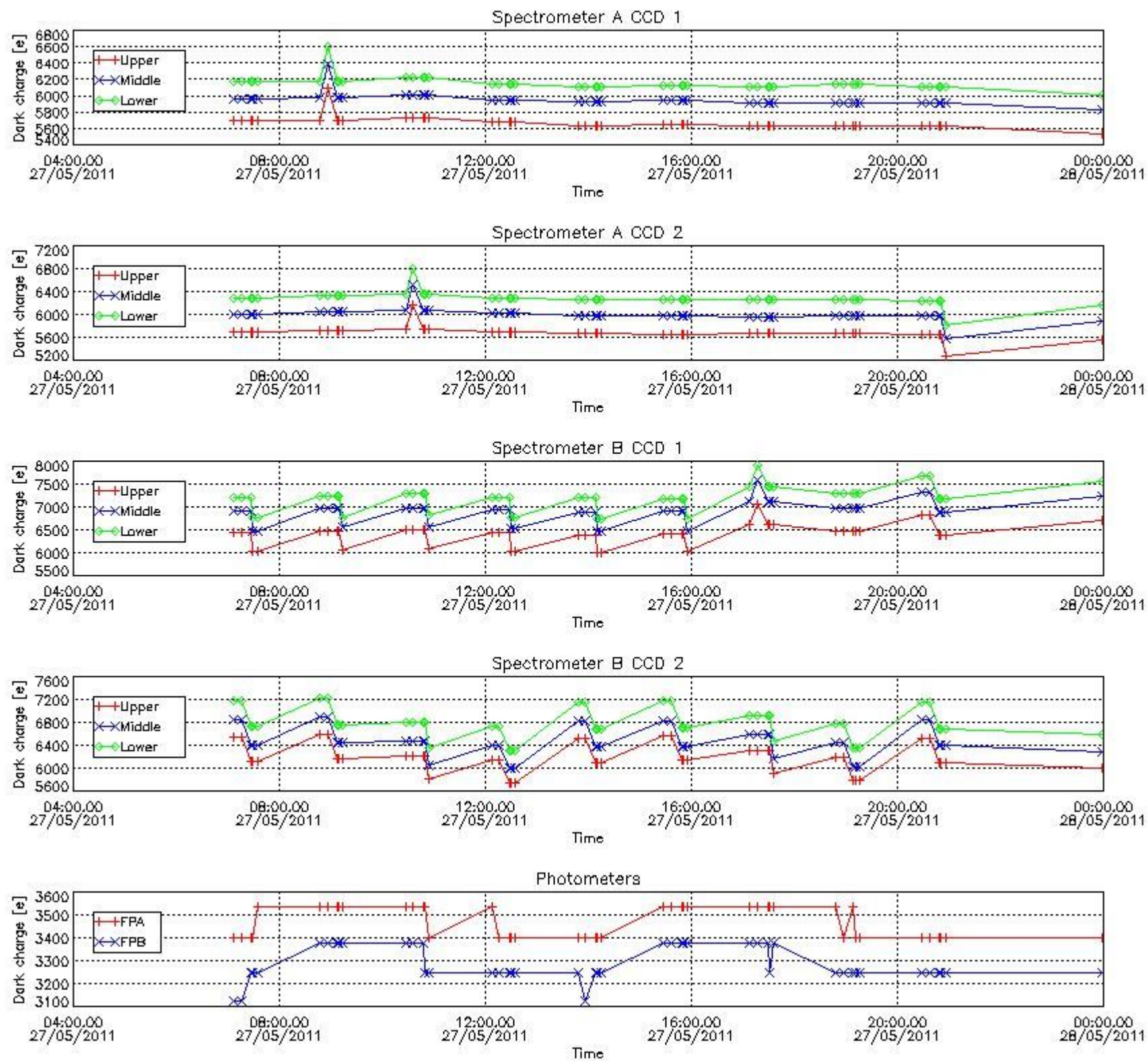
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



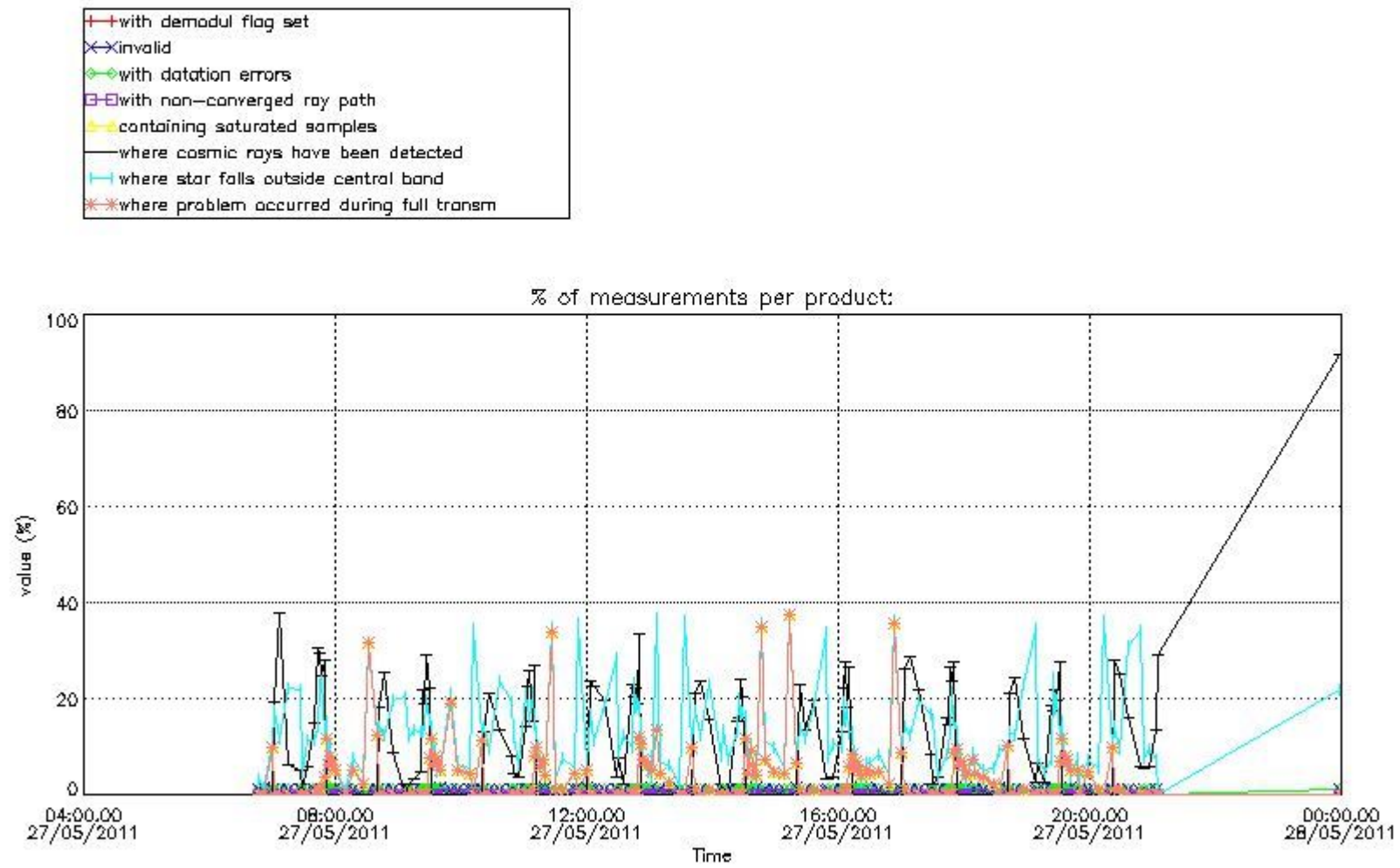
5. Demodulation flag and quality information monitoring

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.

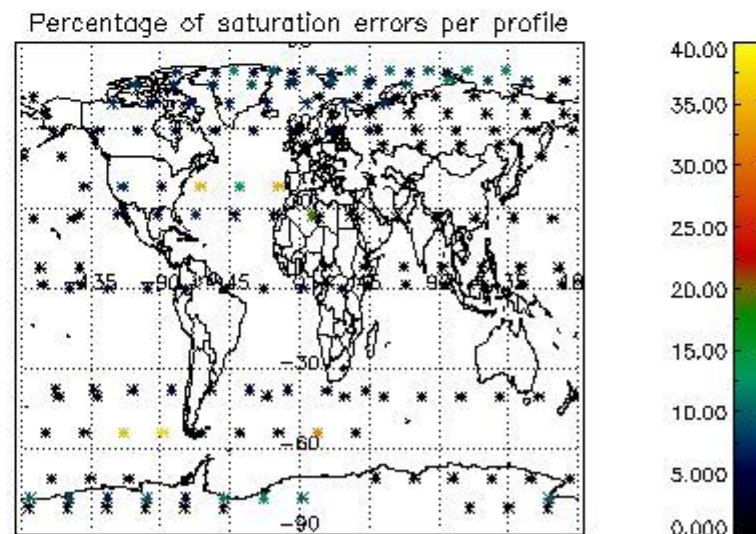
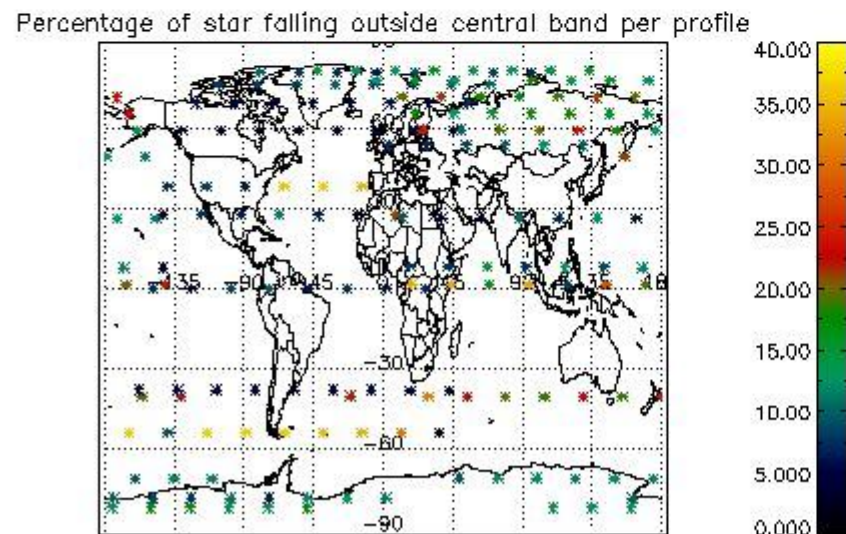
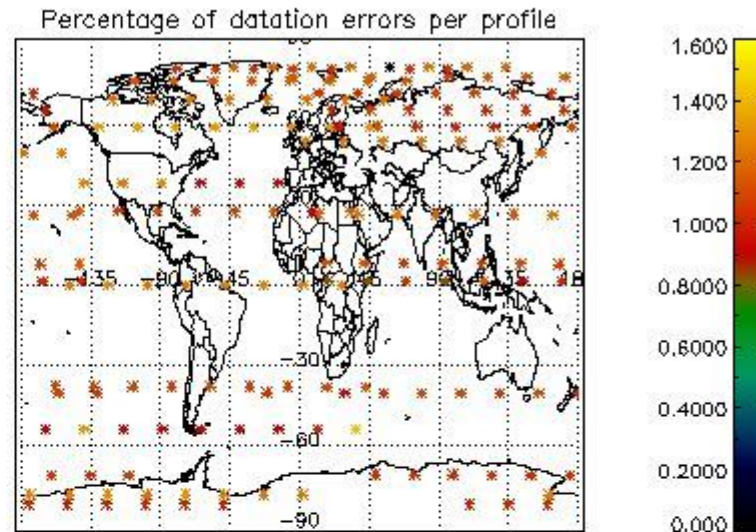
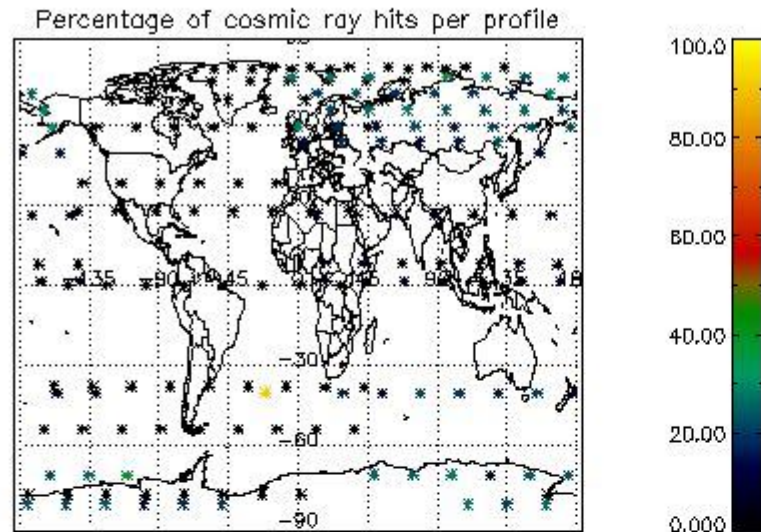
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	51.6304 %
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)



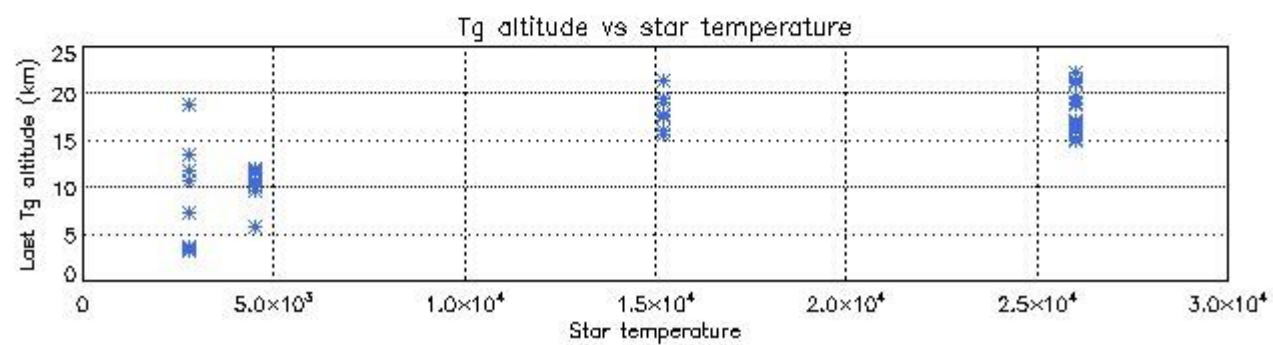
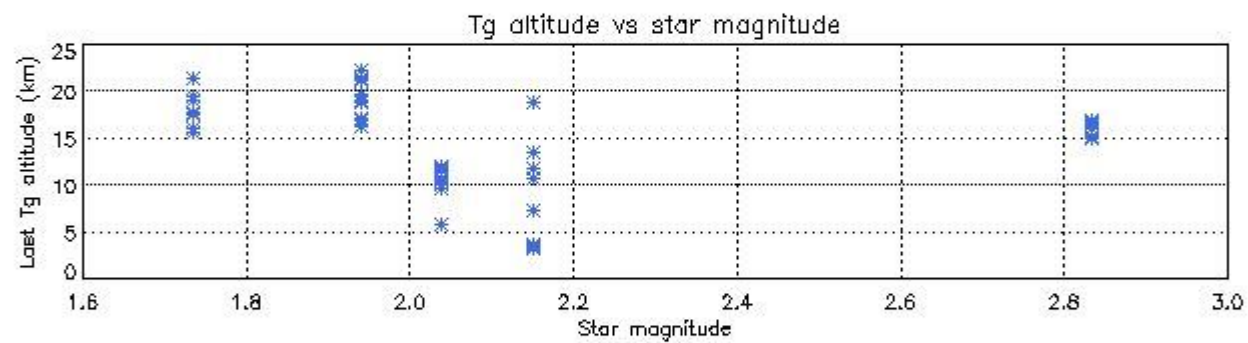
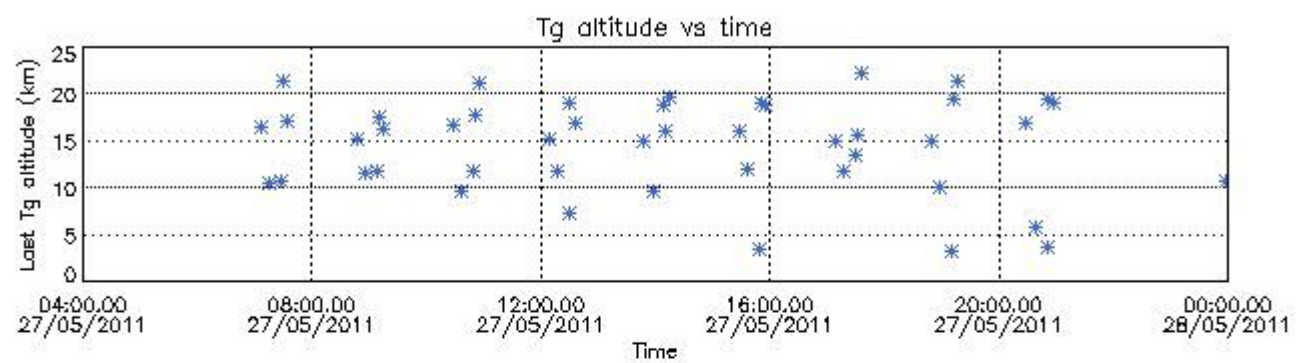
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.481	18.163	NaN
St. deviation:	4.8990	5.6912	NaN
Maximum:	22.129	27.232	NaN
Minimum:	3.1641	3.4388	NaN
Number of data:	46.000	88.000	NaN

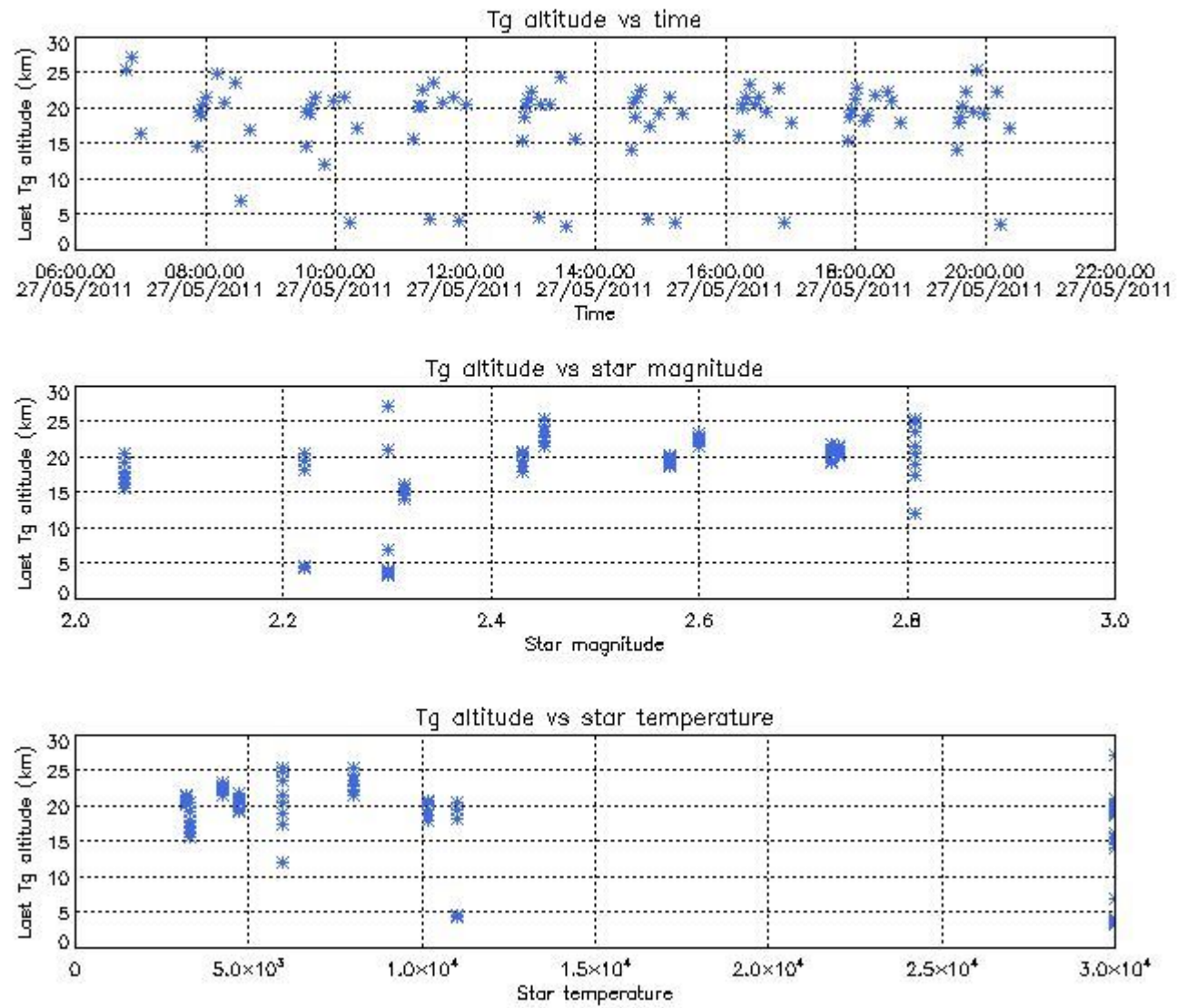
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

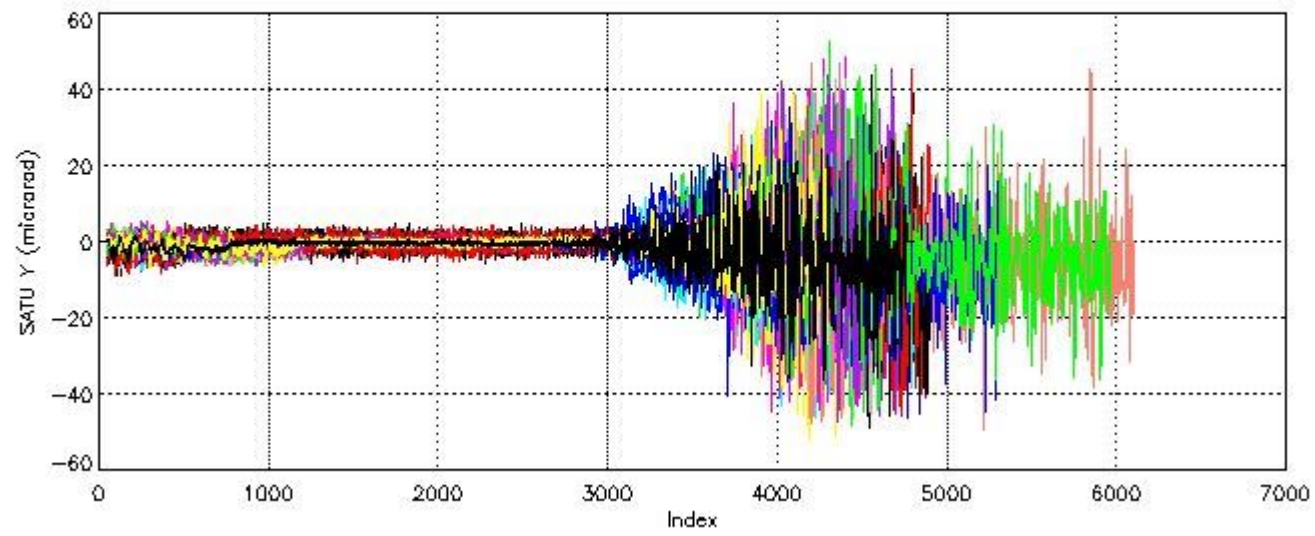
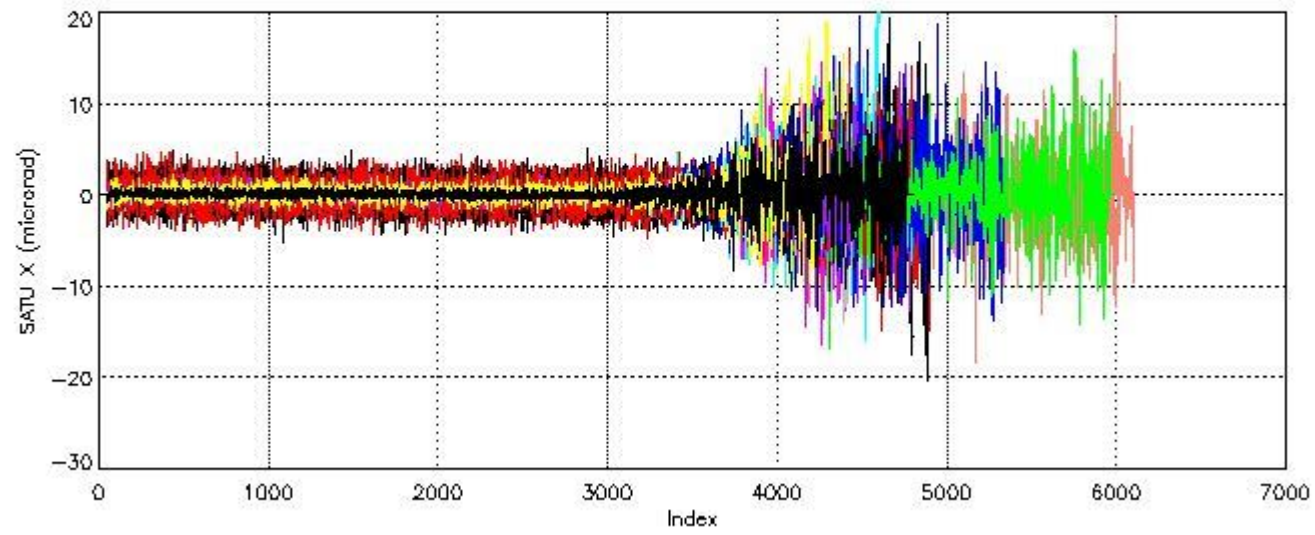


7. Star Acquisition and Tracking Unit (SATU)

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:	0.17856	-1.2231	0.24850	-1.4371
St. deviation:	0.56004	1.6468	0.72184	1.6380
Maximum:	4.8000	5.2000	4.2000	6.9000
Minimum:	-4.4000	-9.1000	-8.6000	-9.6000

Number of data:	46450.	46450.	86650.	86650.
90Percentile:	0.90000	0.90000	1.2000	0.50000

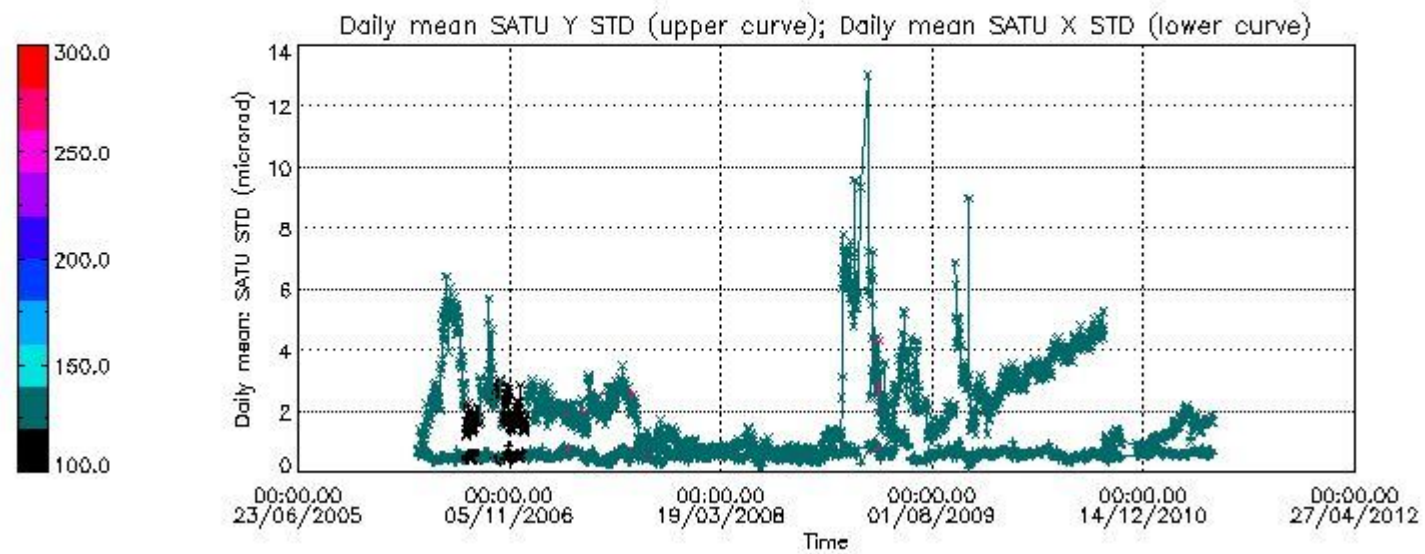
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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.

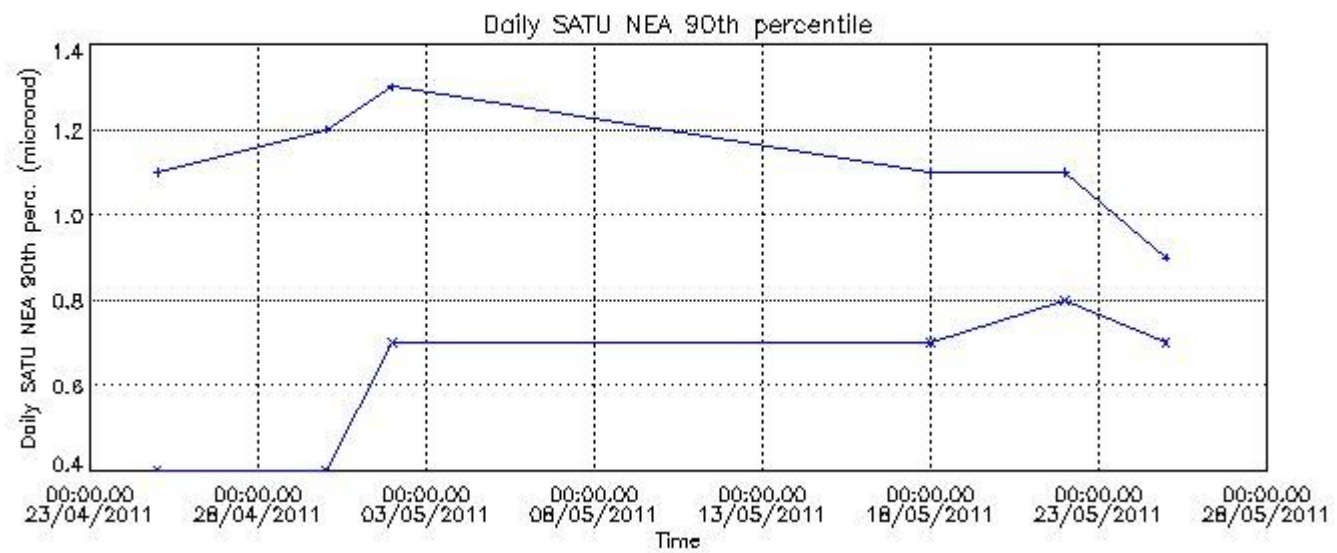
Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis



Lower curve: 90th percentile of SATU Y axis

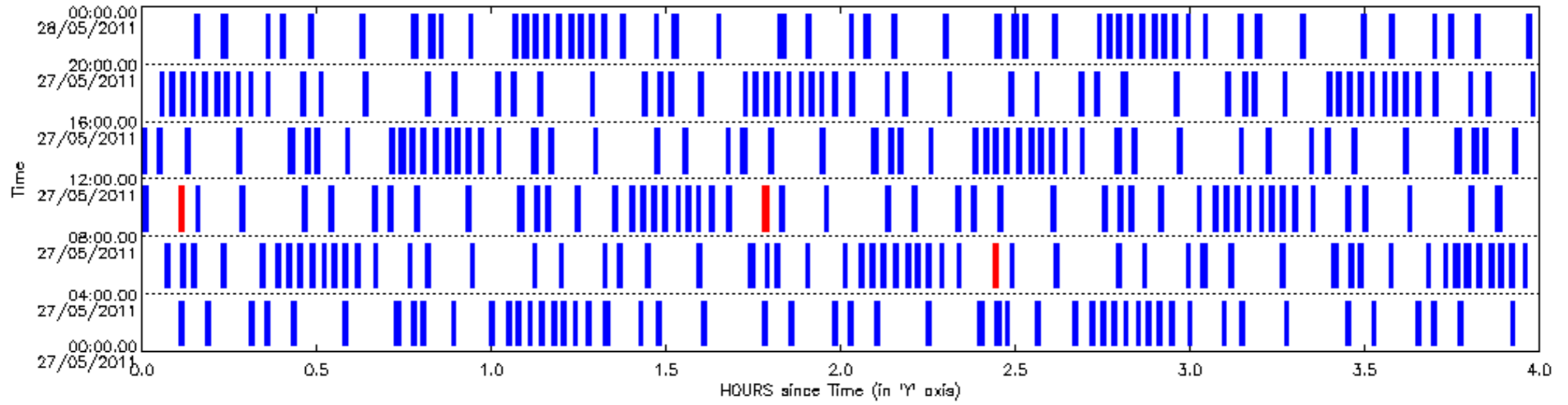
Upper curve: 90th percentile of SATU X axis

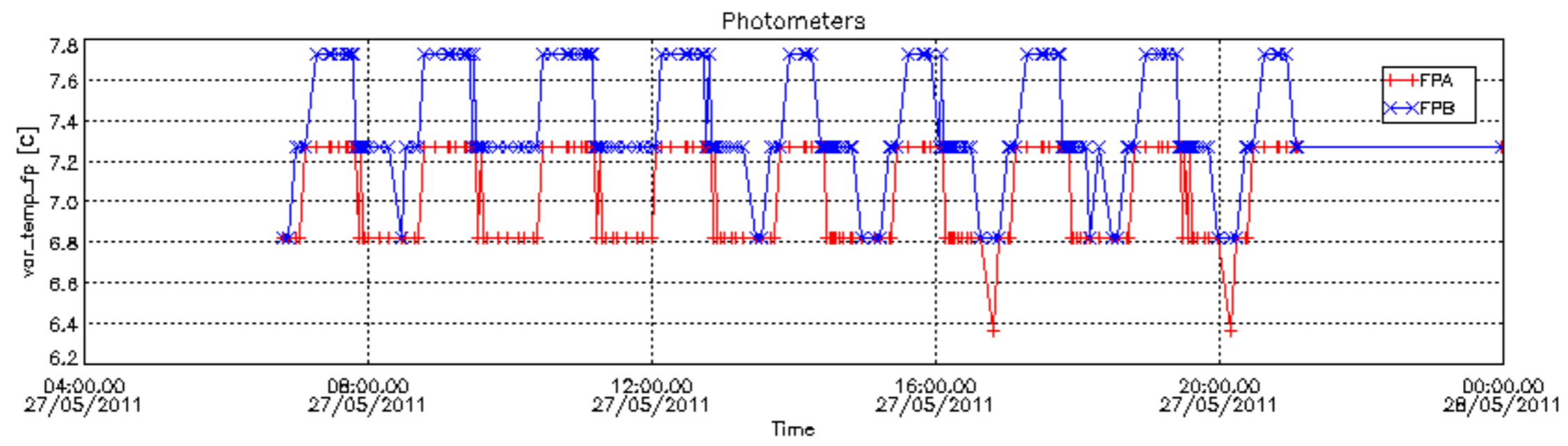
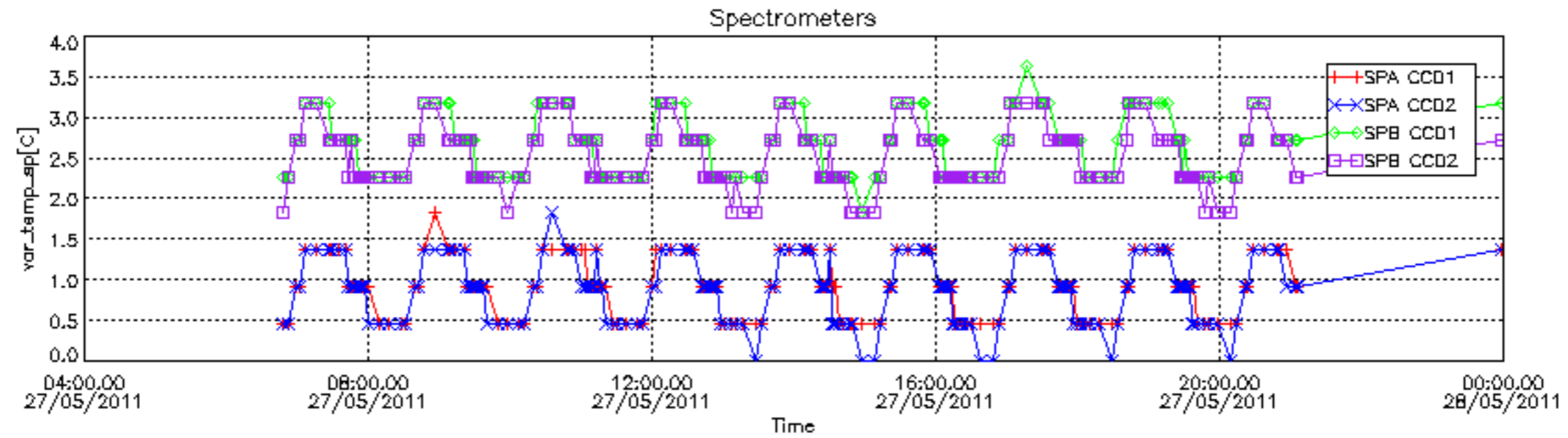


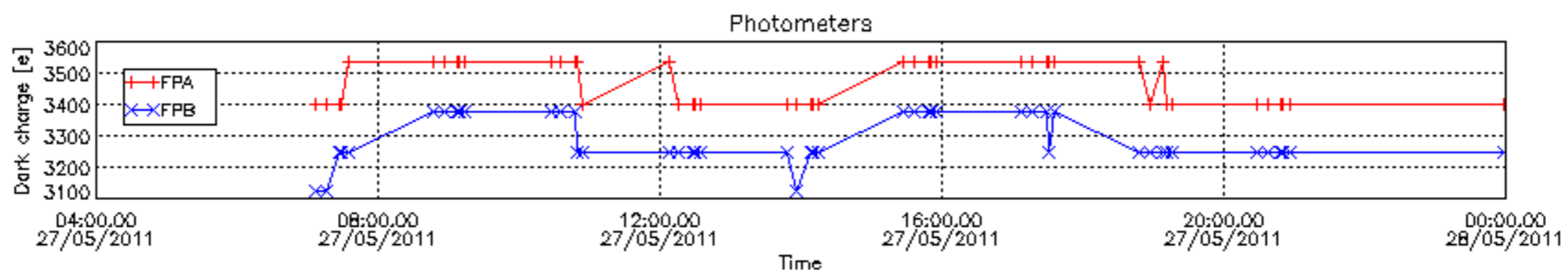
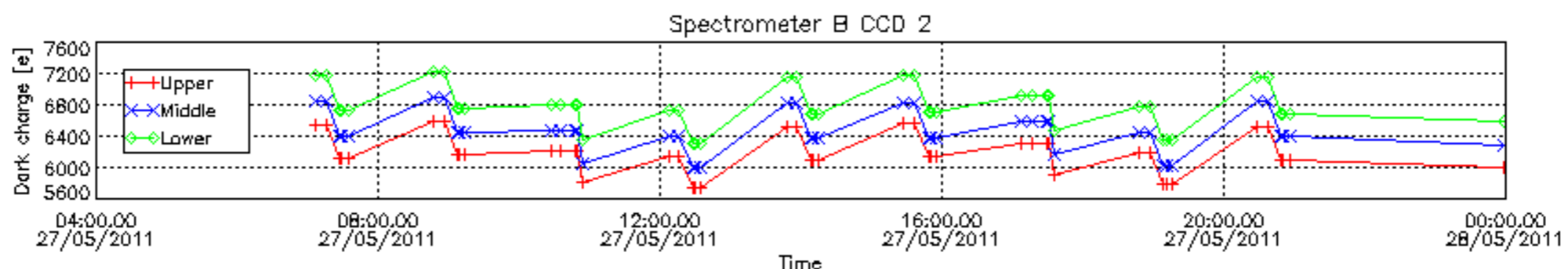
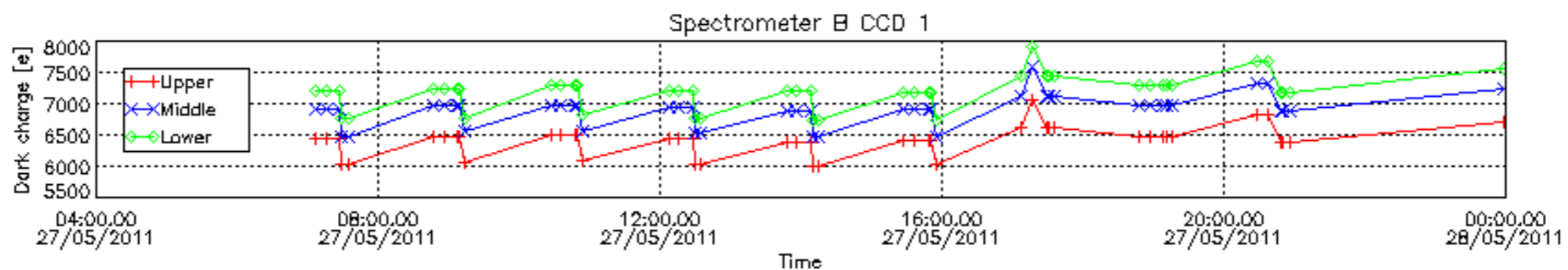
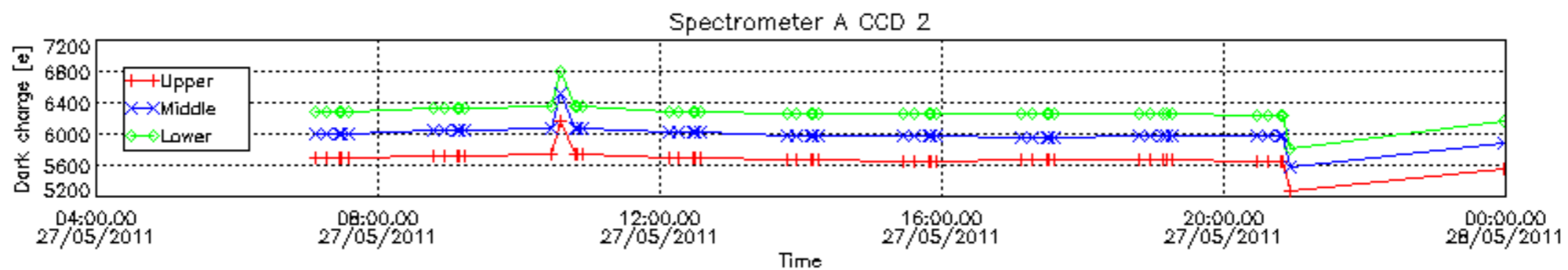
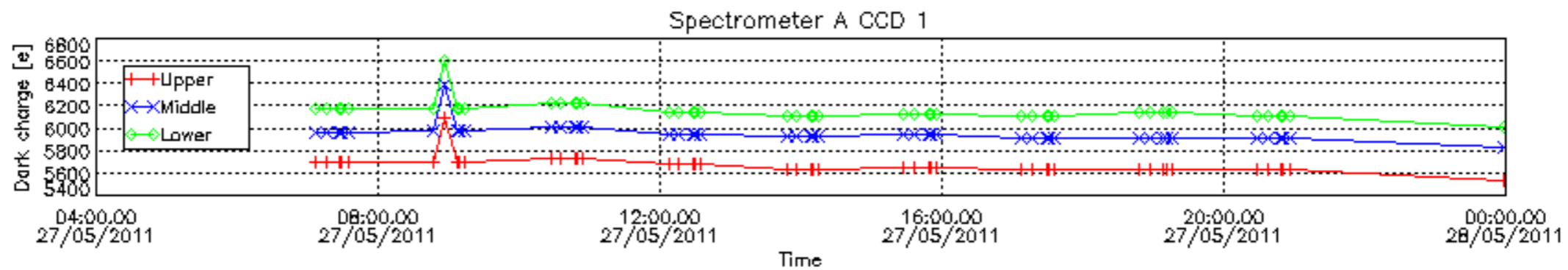
8. Auxiliary Data Files used for the production reported in section 2.4

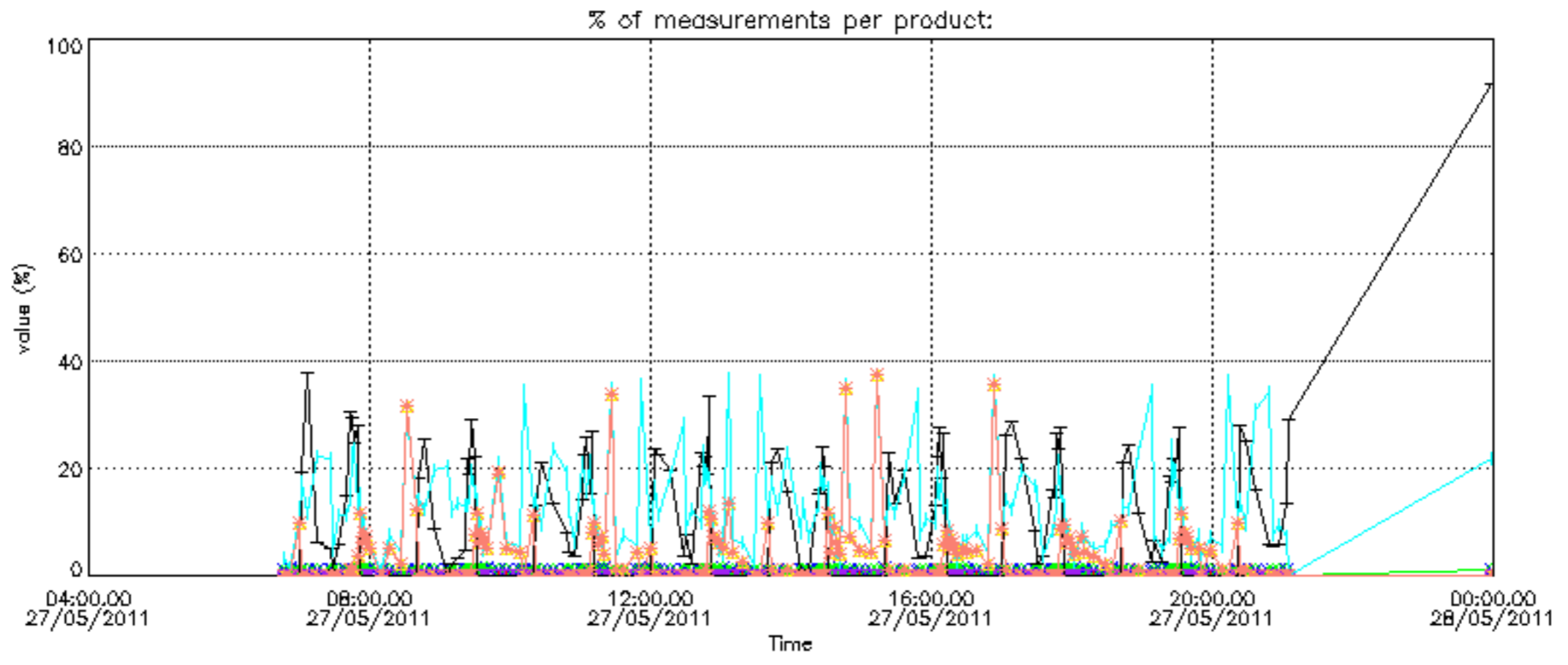
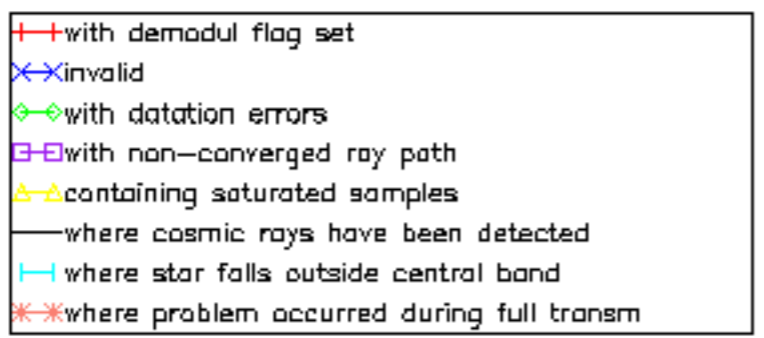
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	27-MAY-2011 06:47:15
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20110526_082123_20110525_000000_20500101_000000	1	27-MAY-2011 06:47:15
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	27-MAY-2011 06:47:15
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-MAY-2011 06:47:15
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	27-MAY-2011 06:47:15
ECMWF_FILE	AUX_ECA_AXNECM20110527_063000_20110526_210000_20110527_090000	1	27-MAY-2011 06:47:15
ECMWF_FILE	AUX_ECF_AXNECM20110526_182114_20110527_030000_20110527_150000	17	27-MAY-2011 07:54:56
ECMWF_FILE	AUX_ECF_AXNECM20110527_063000_20110527_090000_20110527_210000	38	27-MAY-2011 09:35:11
ECMWF_FILE	AUX_ECF_AXNECM20110527_063001_20110527_150000_20110528_030000	121	27-MAY-2011 16:08:21
ECMWF_FILE	AUX_ECA_AXNECM20110527_183000_20110527_090000_20110527_210000	142	27-MAY-2011 17:46:43
ECMWF_FILE	AUX_ECF_AXNECM20110527_063001_20110527_150000_20110528_030000	162	27-MAY-2011 19:23:29
ECMWF_FILE	AUX_ECA_AXNECM20110528_062114_20110527_210000_20110528_090000	186	27-MAY-2011 23:57:52
OPTIONAL_ECMWF_FILE	MISSING	1	27-MAY-2011 06:47:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110527_064050_000038253103_00020_48310_4669.N1	1	27-MAY-2011 06:47:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110527_074954_000057383103_00021_48311_4670.N1	17	27-MAY-2011 07:54:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110527_093051_000057383103_00022_48312_4671.N1	38	27-MAY-2011 09:35:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110527_111148_000057383103_00023_48313_4672.N1	58	27-MAY-2011 11:13:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110527_125245_000054193103_00024_48314_4673.N1	80	27-MAY-2011 12:53:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110527_142824_000054193103_00025_48315_4674.N1	100	27-MAY-2011 14:30:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110527_160402_000057383103_00026_48316_4675.N1	121	27-MAY-2011 16:08:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110527_174459_000054193103_00027_48317_4676.N1	142	27-MAY-2011 17:46:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDK20110527_192037_000057383103_00028_48318_4677.N1	162	27-MAY-2011 19:23:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20110527_235135_000057383103_00030_48320_6090.N1	186	27-MAY-2011 23:57:52

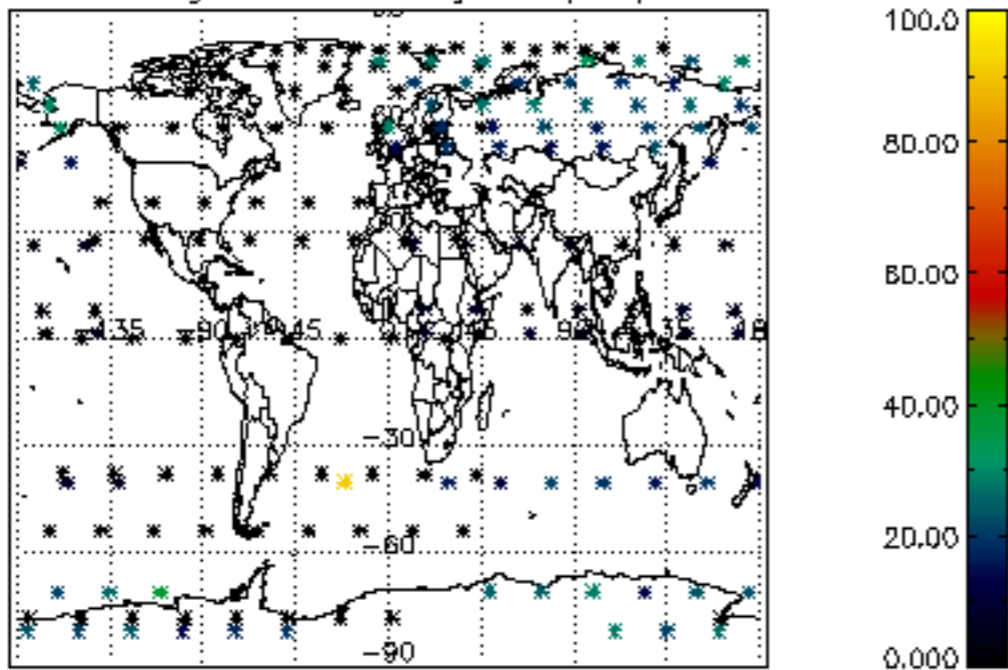




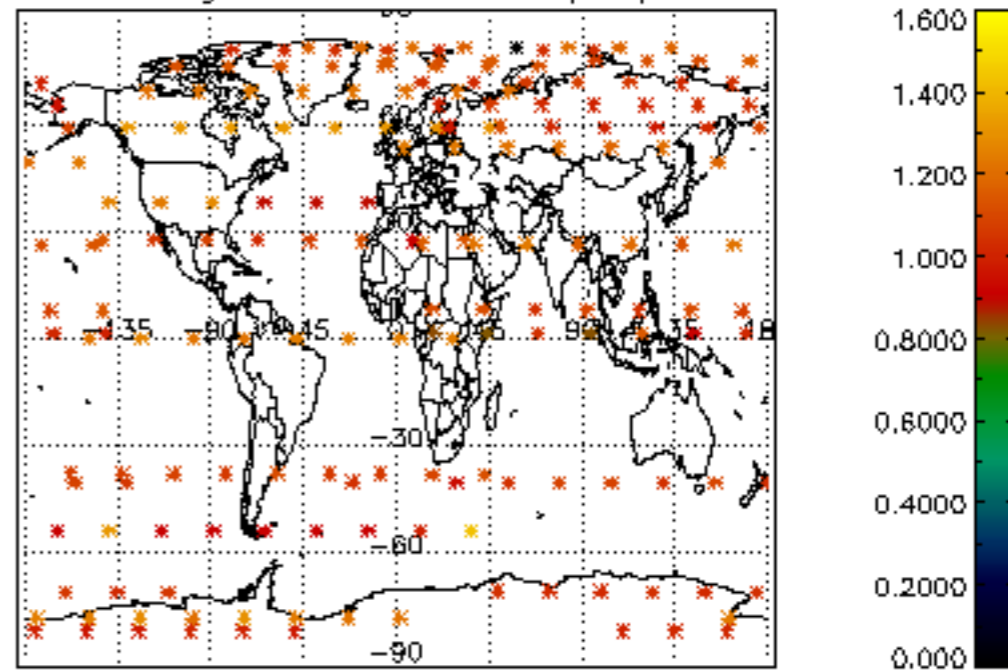




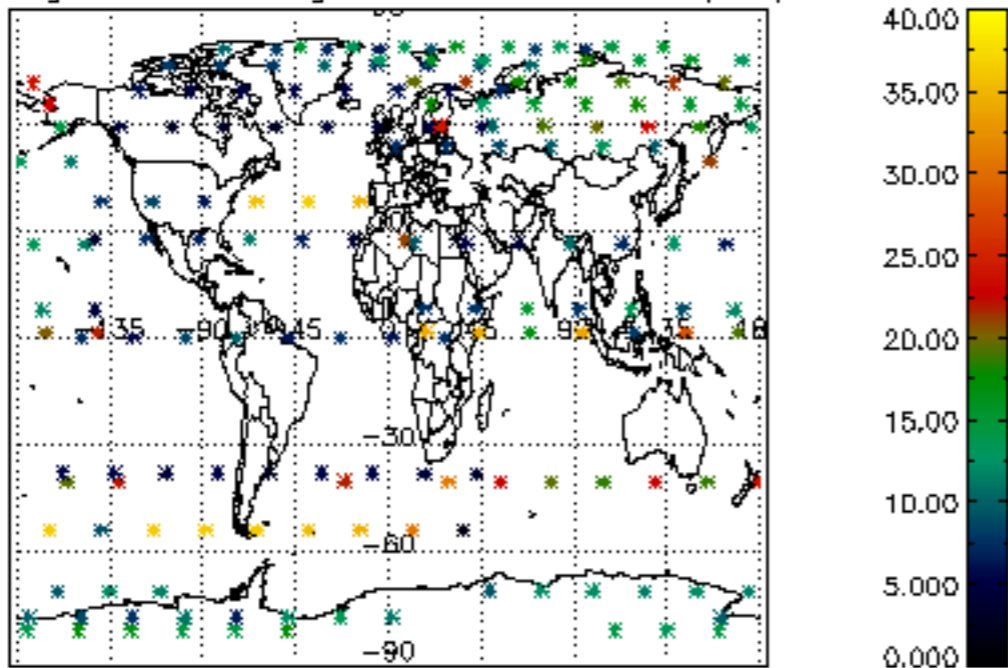
Percentage of cosmic ray hits per profile



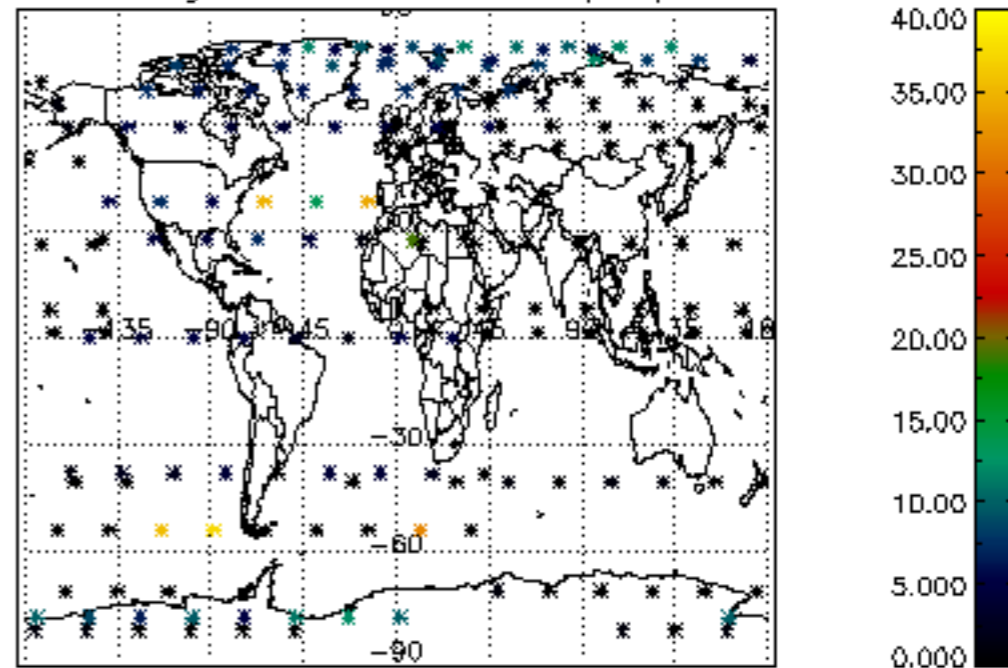
Percentage of datation errors per profile



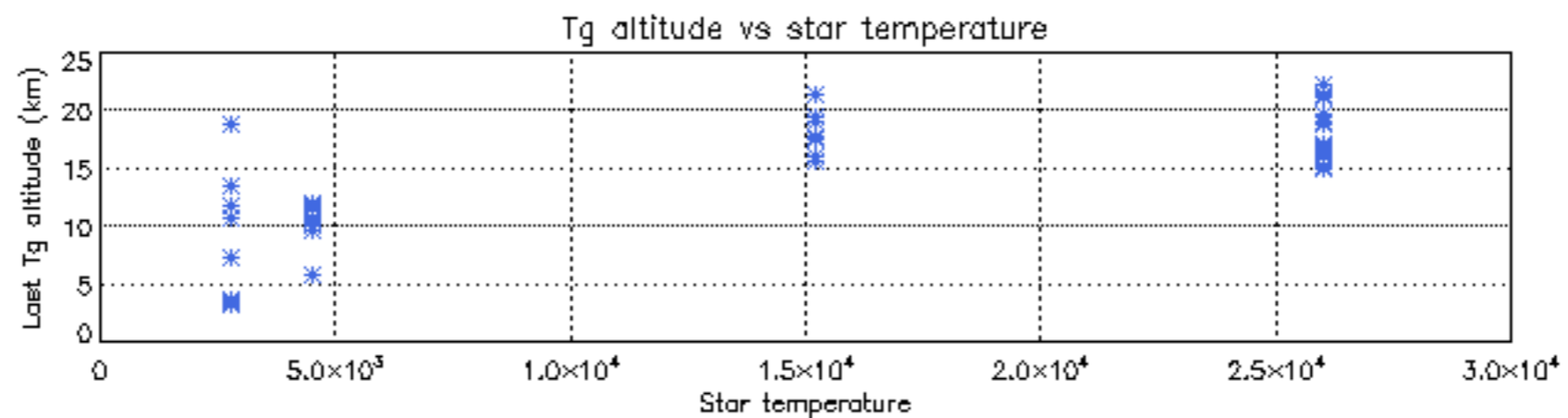
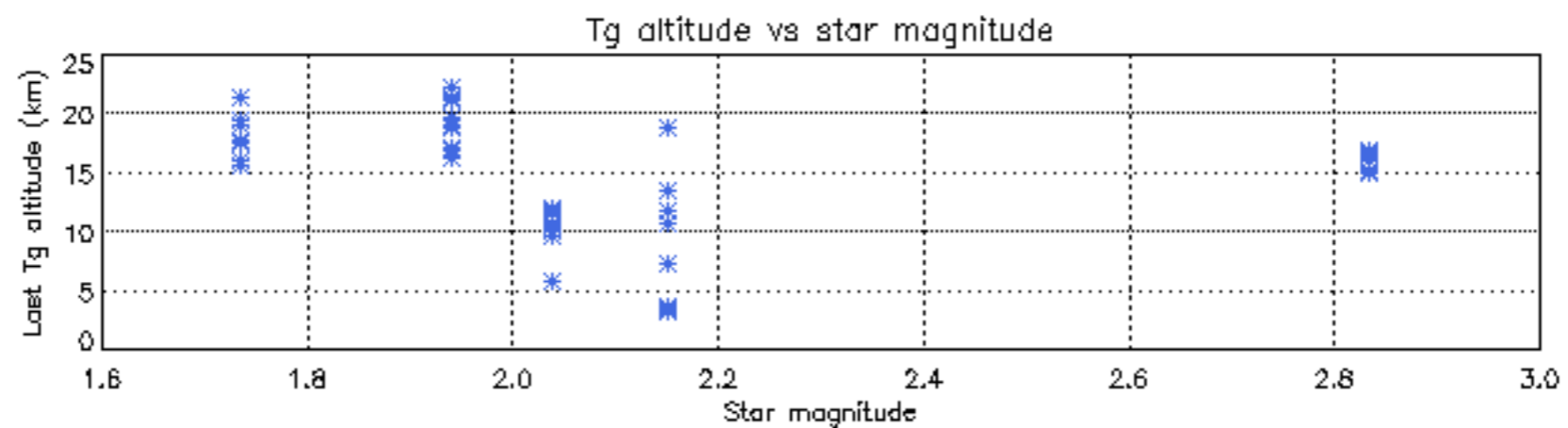
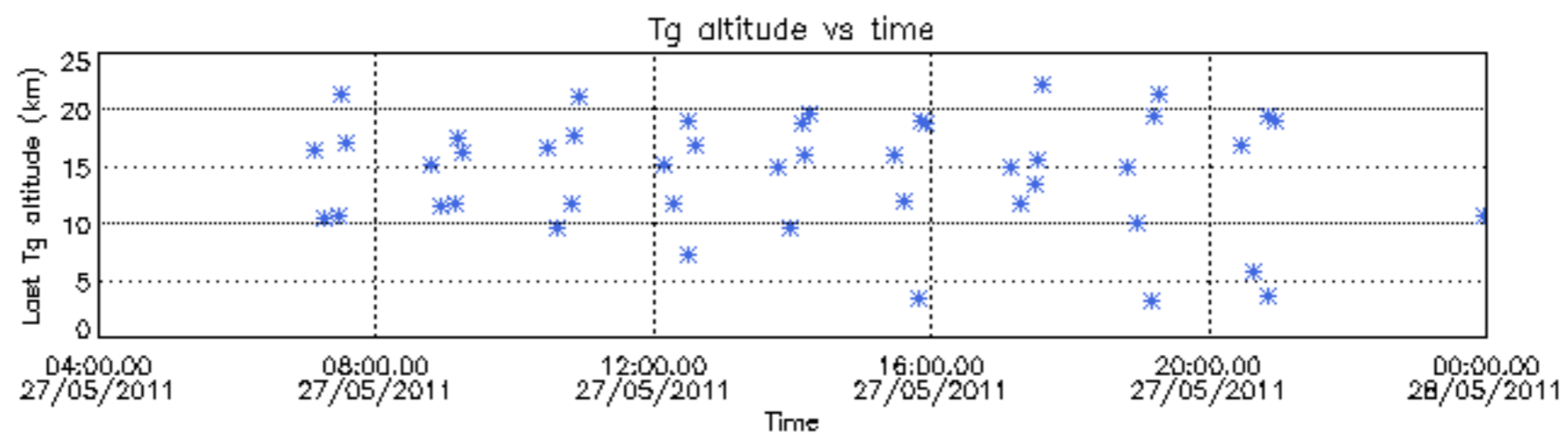
Percentage of star falling outside central band per profile



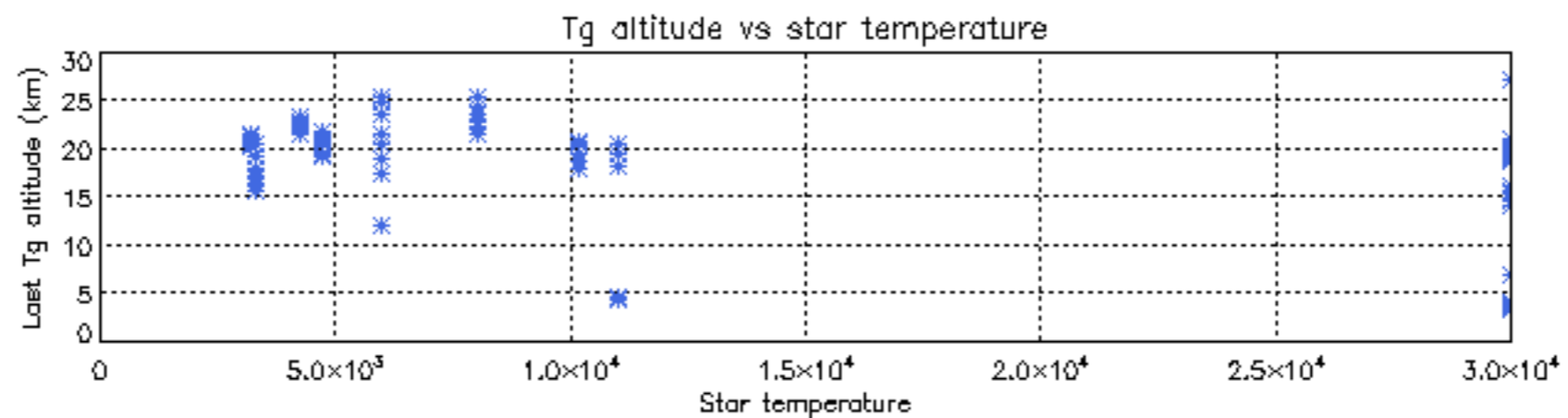
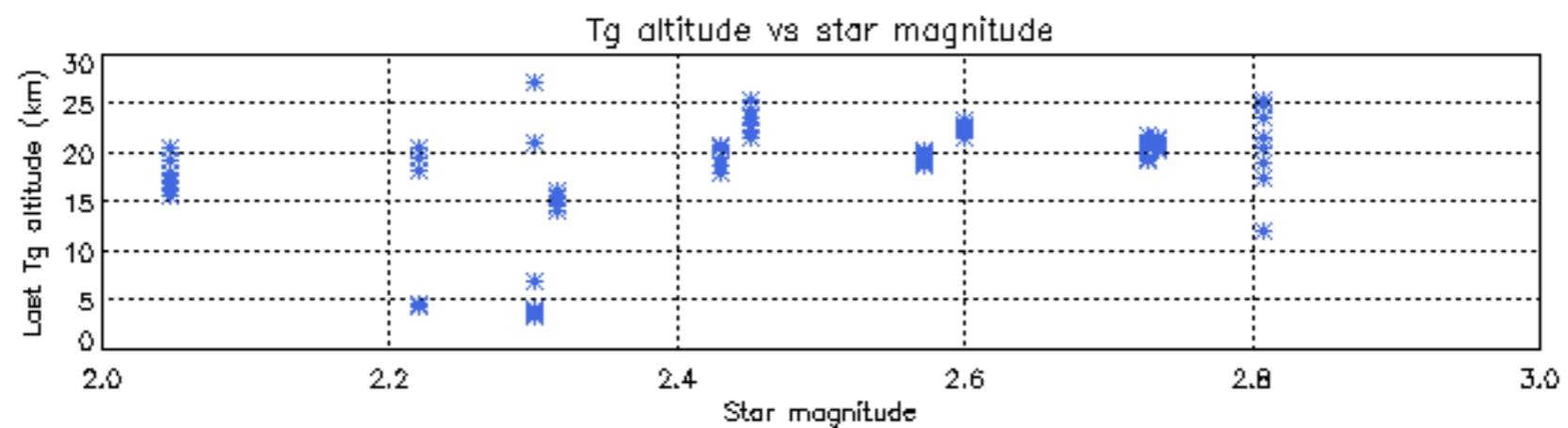
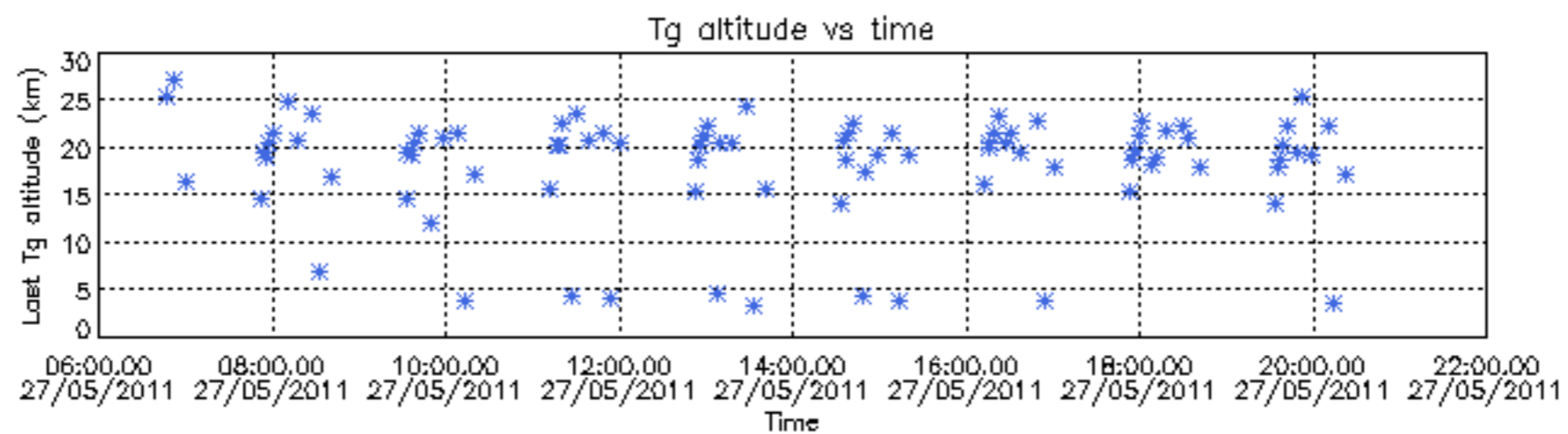
Percentage of saturation errors per profile

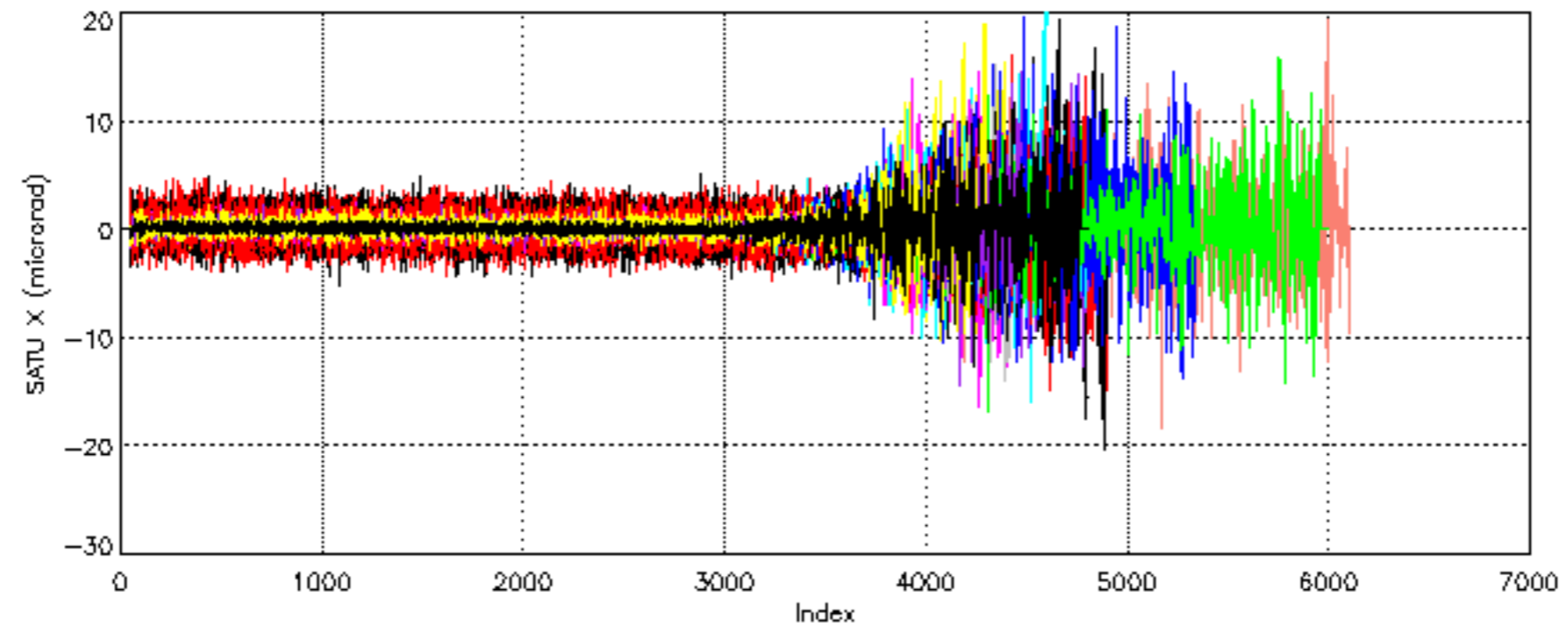


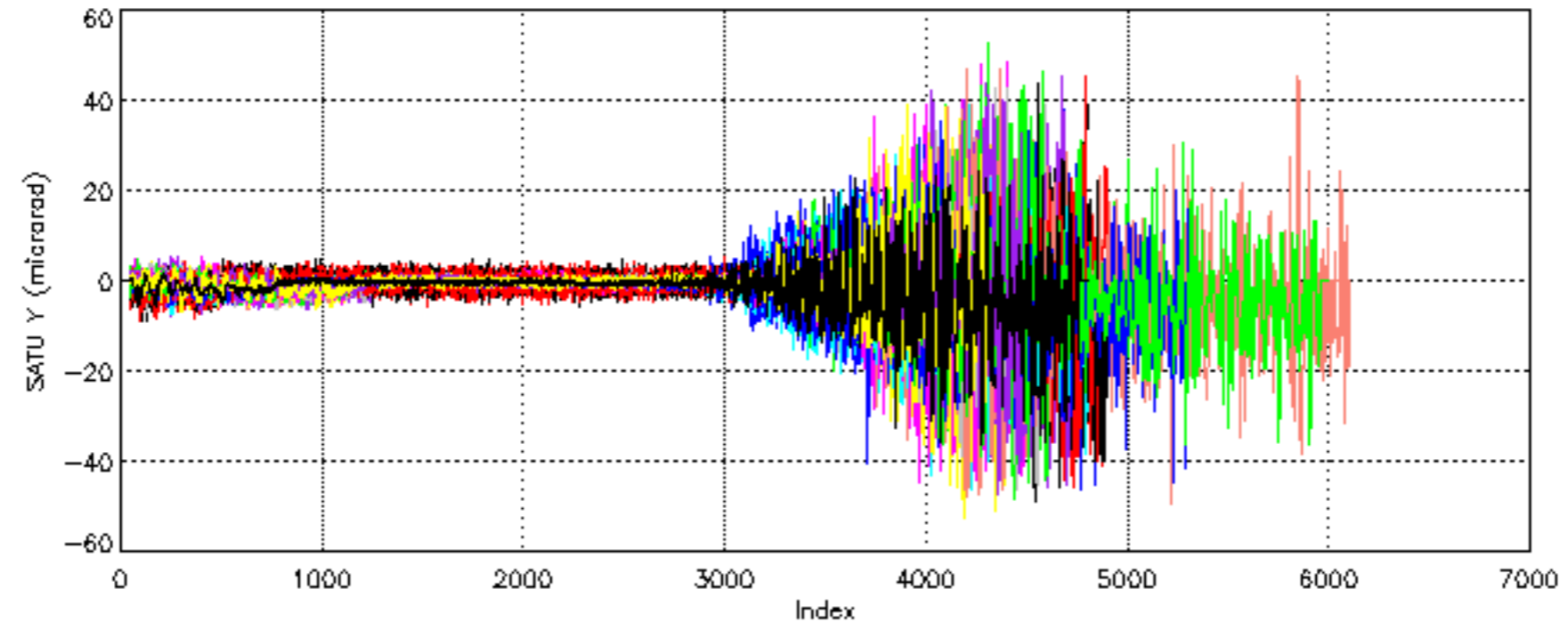
Tangent altitude at which the star is lost

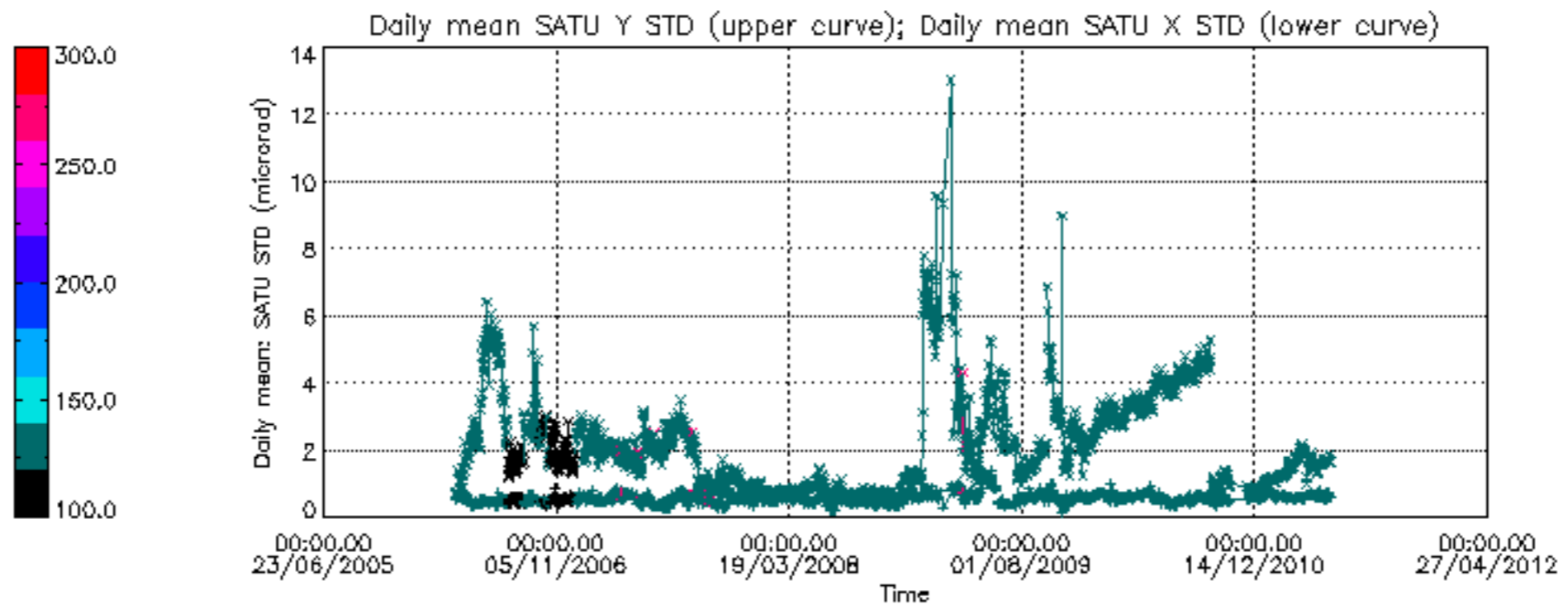


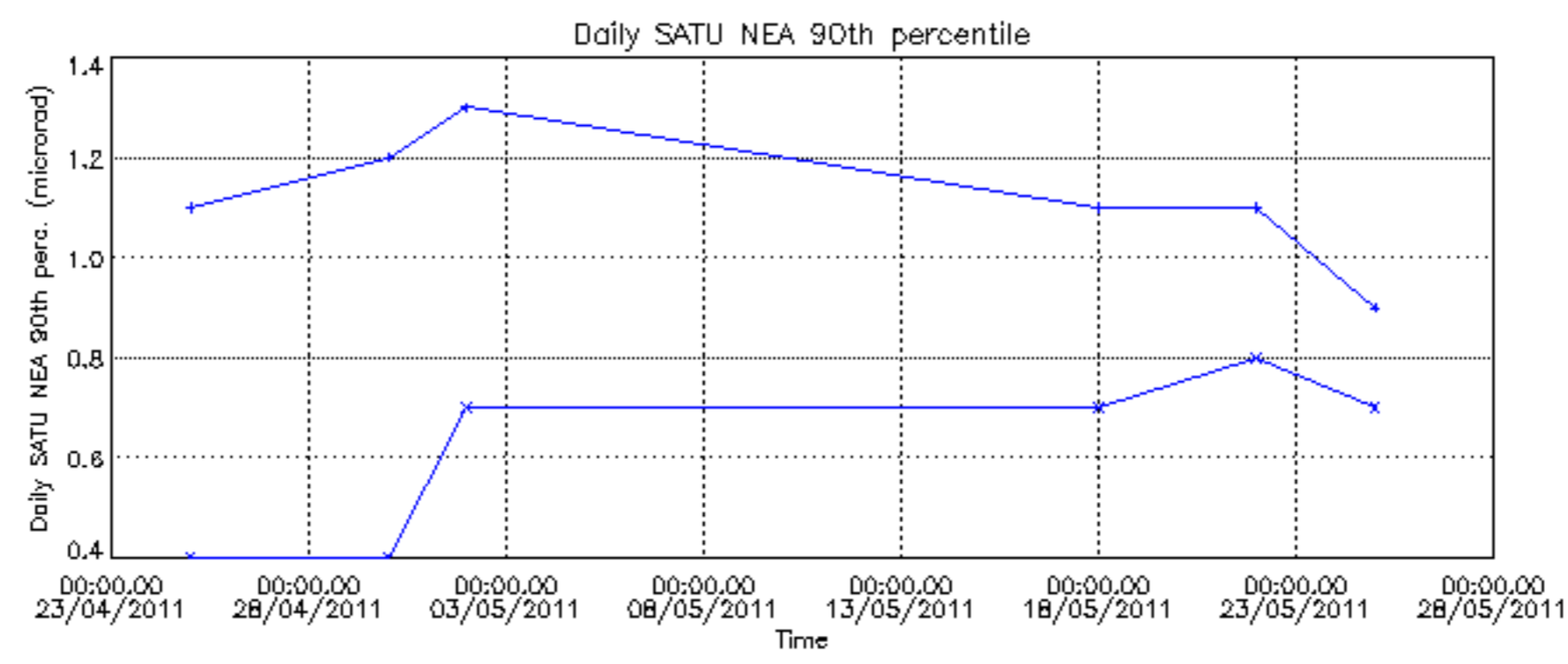
Tangent altitude at which the star is lost











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/data4_2/GOMOS/data_tmp/GOM_NL__0PNPDE20110511_002754_000051163102_00217_48076_5711.N1
 1; -259.5; 11-MAY-2011 00:27:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;48076
 2; -138.6; 11-MAY-2011 00:29:55; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;48076
 3; -57.9; 11-MAY-2011 00:31:16; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;48076
 4; 276.6; 11-MAY-2011 00:36:50; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;48077
 5; 717.5; 11-MAY-2011 00:44:11; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;48077
 6; 860.3; 11-MAY-2011 00:46:34; Dark ; 55.0; 40; The Sco ; 1.86; 7100;occ; 110; 0;48077
 7; 970.8; 11-MAY-2011 00:48:24; Dark ; 57.5; 25; 35Lam Sco ; 1.62; 28000;occ; 115; 0;48077
 8; 1123.8; 11-MAY-2011 00:50:57; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;48077
 9; 1318.6; 11-MAY-2011 00:54:12; Dark ; 64.0; 16; 21Alp Sco ; 1.02; 3000;occ; 128; 0;48077
10; 1429.3; 11-MAY-2011 00:56:03; Dark ; 56.0; 80; 7Del Sco ; 2.32; 30000;occ; 112; 0;48077
11; 1597.0; 11-MAY-2011 00:58:51; Bright; 39.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 79; 0;48077
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13; 2053.5; 11-MAY-2011 01:06:27; Bright; 48.5; 102; 24Alp Ser ; 2.60; 4250;occ; 97; 0;48077
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