

GOMOS Daily Report 13-JAN-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	19JAN2012 07:00:39
Data source version	GOMOS/6.01
Start time of products	13JAN2012 06:20:54
Stop time of products	13JAN2012 16:39:04
Store outputs in DB	Yes
Nb of level 1b prods	14
Nb of prods with errors	0

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

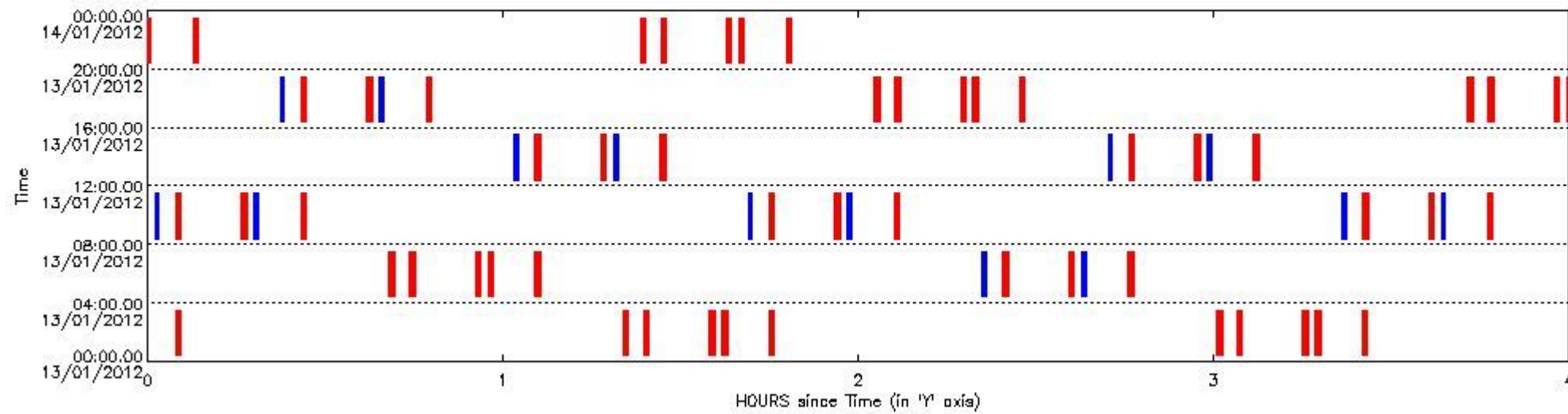
2.1 Level 0 products arrived in PCF (see template [here](#))

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
13-JAN-2012 00:04:37	9AlpCMa	1	51638
13-JAN-2012 01:20:10	EpsCen	77	51639
13-JAN-2012 01:23:39	Alp1Cru	12	51639
13-JAN-2012 01:34:47	Gam2Vel	34	51639
13-JAN-2012 01:36:56	ZetPup	70	51639
13-JAN-2012 01:44:51	9AlpCMa	1	51639
13-JAN-2012 03:00:25	EpsCen	77	51640
13-JAN-2012 03:03:54	Alp1Cru	12	51640
13-JAN-2012 03:15:02	Gam2Vel	34	51640
13-JAN-2012 03:17:10	ZetPup	70	51640
13-JAN-2012 03:25:05	9AlpCMa	1	51640
13-JAN-2012 04:40:39	EpsCen	77	51641
13-JAN-2012 04:44:08	Alp1Cru	12	51641
13-JAN-2012 04:55:16	Gam2Vel	34	51641
13-JAN-2012 04:57:25	ZetPup	70	51641

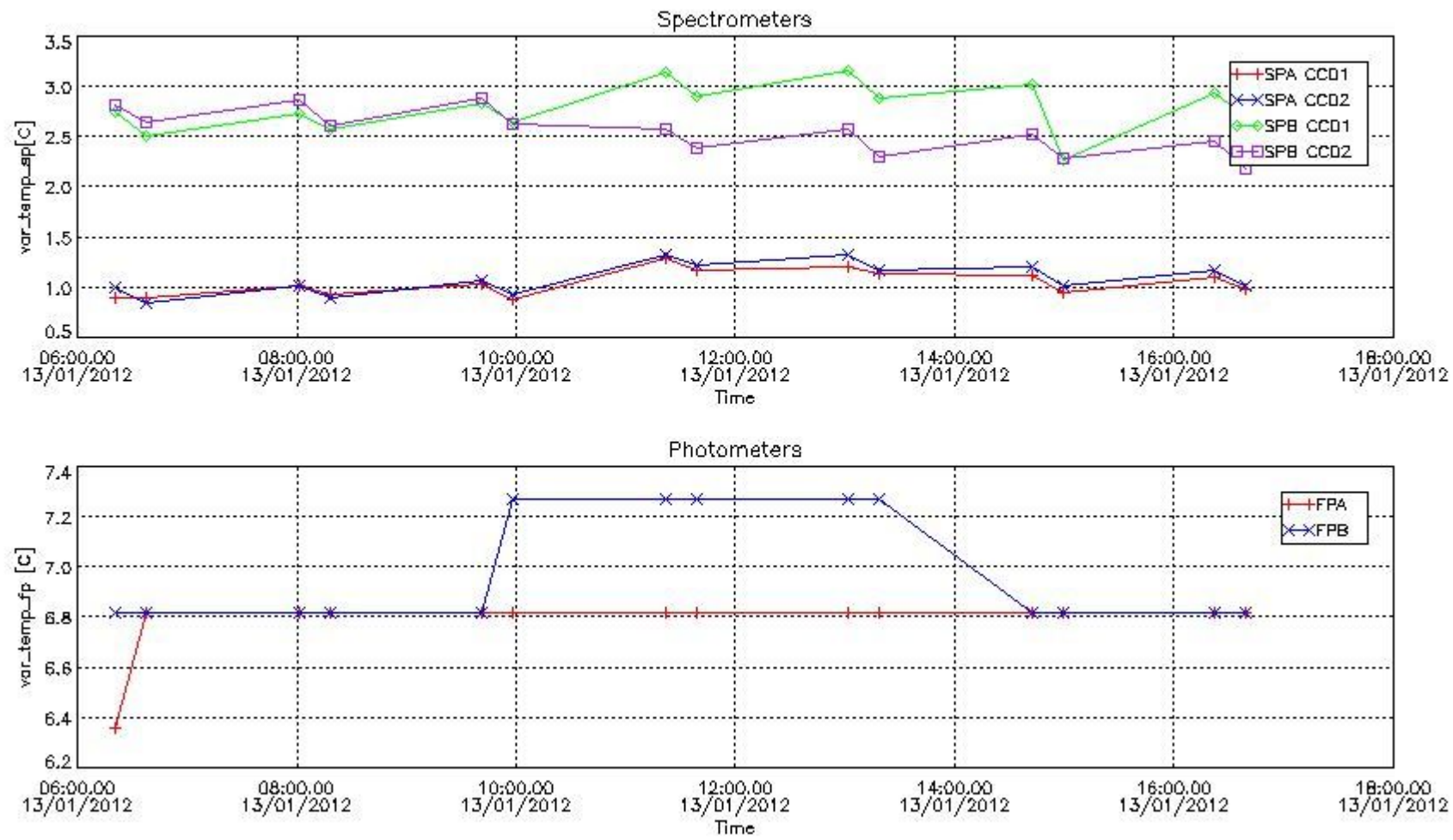
13-JAN-2012 05:05:19	9AlpCMa	1	51641
13-JAN-2012 06:24:23	Alp1Cru	12	51642
13-JAN-2012 06:35:30	Gam2Vel	34	51642
13-JAN-2012 06:45:33	9AlpCMa	1	51642
13-JAN-2012 08:04:37	Alp1Cru	12	51643
13-JAN-2012 08:15:45	Gam2Vel	34	51643
13-JAN-2012 08:25:47	9AlpCMa	1	51643
13-JAN-2012 09:44:52	Alp1Cru	12	51644
13-JAN-2012 09:55:59	Gam2Vel	34	51644
13-JAN-2012 10:06:01	9AlpCMa	1	51644
13-JAN-2012 11:25:06	Alp1Cru	12	51645
13-JAN-2012 11:36:13	Gam2Vel	34	51645
13-JAN-2012 11:46:15	9AlpCMa	1	51645
13-JAN-2012 13:05:21	Alp1Cru	12	51646
13-JAN-2012 13:16:28	Gam2Vel	34	51646
13-JAN-2012 13:26:29	9AlpCMa	1	51646
13-JAN-2012 14:45:35	Alp1Cru	12	51647
13-JAN-2012 14:56:42	Gam2Vel	34	51647
13-JAN-2012 15:06:43	9AlpCMa	1	51647
13-JAN-2012 16:25:50	Alp1Cru	12	51648
13-JAN-2012 16:36:56	Gam2Vel	34	51648
13-JAN-2012 16:46:57	9AlpCMa	1	51648
13-JAN-2012 18:02:36	EpsCen	77	51649
13-JAN-2012 18:06:04	Alp1Cru	12	51649
13-JAN-2012 18:17:11	Gam2Vel	34	51649
13-JAN-2012 18:19:19	ZetPup	70	51649
13-JAN-2012 18:27:11	9AlpCMa	1	51649
13-JAN-2012 19:42:51	EpsCen	77	51650
13-JAN-2012 19:46:19	Alp1Cru	12	51650
13-JAN-2012 19:57:25	Gam2Vel	34	51650
13-JAN-2012 19:59:33	ZetPup	70	51650
13-JAN-2012 20:07:33	9AlpCMa	1	51650
13-JAN-2012 21:23:06	EpsCen	77	51651
13-JAN-2012 21:26:33	Alp1Cru	12	51651
13-JAN-2012 21:37:39	Gam2Vel	34	51651
13-JAN-2012 21:39:47	ZetPup	70	51651
13-JAN-2012 21:47:53	9AlpCMa	1	51651

2.4 Summary of processed GOM_TRA_1P products

!Warning: No products without errors in BRIGHT limb conditions found

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20120113_062054_000000423110_00322_51629_3192.N1	13-JAN-2012 06:20:54	Dark	42.000	77	Eps Cen	2.3030	28000.	84	51629	No
2	GOM_TRA_1PNPDE20120113_063739_000000433110_00322_51629_3193.N1	13-JAN-2012 06:37:39	Dark	43.000	70	Zet Pup	2.2460	39000.	86	51629	No
3	GOM_TRA_1PNPDK20120113_080108_000000433110_00323_51630_0513.N1	13-JAN-2012 08:01:08	Dark	42.500	77	Eps Cen	2.3030	28000.	85	51630	No
4	GOM_TRA_1PNPDK20120113_081753_000000423110_00323_51630_0514.N1	13-JAN-2012 08:17:53	Dark	41.500	70	Zet Pup	2.2460	39000.	83	51630	No
5	GOM_TRA_1PNPDK20120113_094123_000000423110_00324_51631_0567.N1	13-JAN-2012 09:41:23	Dark	41.500	77	Eps Cen	2.3030	28000.	83	51631	No
6	GOM_TRA_1PNPDK20120113_095807_000000423110_00324_51631_0568.N1	13-JAN-2012 09:58:07	Dark	41.500	70	Zet Pup	2.2460	39000.	83	51631	No
7	GOM_TRA_1PNPDK20120113_112138_000000423110_00325_51632_0605.N1	13-JAN-2012 11:21:38	Dark	42.000	77	Eps Cen	2.3030	28000.	84	51632	No
8	GOM_TRA_1PNPDK20120113_113821_000000403110_00325_51632_0606.N1	13-JAN-2012 11:38:21	Dark	39.500	70	Zet Pup	2.2460	39000.	79	51632	No
9	GOM_TRA_1PNPDK20120113_130152_000000433110_00326_51633_0641.N1	13-JAN-2012 13:01:52	Dark	42.500	77	Eps Cen	2.3030	28000.	85	51633	No
10	GOM_TRA_1PNPDK20120113_131835_000000453110_00326_51633_0642.N1	13-JAN-2012 13:18:35	Dark	45.000	70	Zet Pup	2.2460	39000.	90	51633	No
11	GOM_TRA_1PNPDK20120113_144207_000000413110_00327_51634_0675.N1	13-JAN-2012 14:42:07	Dark	40.500	77	Eps Cen	2.3030	28000.	81	51634	No
12	GOM_TRA_1PNPDK20120113_145850_000000433110_00327_51634_0676.N1	13-JAN-2012 14:58:50	Dark	42.500	70	Zet Pup	2.2460	39000.	85	51634	No
13	GOM_TRA_1PNPDK20120113_162221_000000423110_00328_51635_0704.N1	13-JAN-2012 16:22:21	Dark	41.500	77	Eps Cen	2.3030	28000.	83	51635	No
14	GOM_TRA_1PNPDK20120113_163904_000000443110_00328_51635_0705.N1	13-JAN-2012 16:39:04	Dark	44.000	70	Zet Pup	2.2460	39000.	88	51635	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).

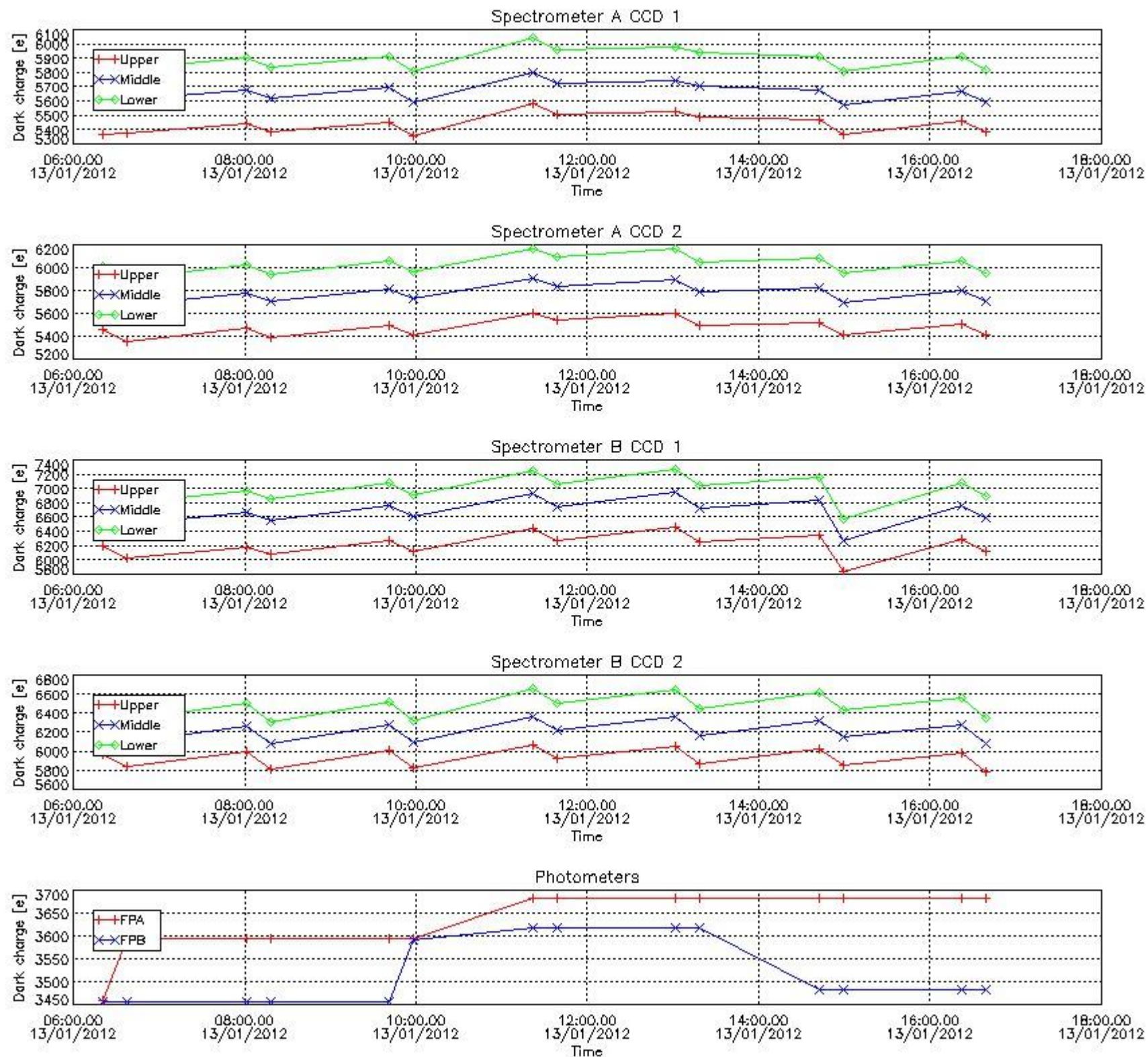
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20120113_062054_000000423110_00322_51629_3192.N1	DC map used
GOM_TRA_1PNPDE20120113_063739_000000433110_00322_51629_3193.N1	DC map used
GOM_TRA_1PNPDK20120113_080108_000000433110_00323_51630_0513.N1	DC map used
GOM_TRA_1PNPDK20120113_081753_000000423110_00323_51630_0514.N1	DC map used
GOM_TRA_1PNPDK20120113_094123_000000423110_00324_51631_0567.N1	DC map used
GOM_TRA_1PNPDK20120113_095807_000000423110_00324_51631_0568.N1	DC map used
GOM_TRA_1PNPDK20120113_112138_000000423110_00325_51632_0605.N1	DC map used
GOM_TRA_1PNPDK20120113_113821_000000403110_00325_51632_0606.N1	DC map used
GOM_TRA_1PNPDK20120113_130152_000000433110_00326_51633_0641.N1	DC map used
GOM_TRA_1PNPDK20120113_131835_000000453110_00326_51633_0642.N1	DC map used
GOM_TRA_1PNPDK20120113_144207_000000413110_00327_51634_0675.N1	DC map used
GOM_TRA_1PNPDK20120113_145850_000000433110_00327_51634_0676.N1	DC map used

GOM_TRA_1PNPDK20120113_162221_000000423110_00328_51635_0704.N1	DC map used
GOM_TRA_1PNPDK20120113_163904_000000443110_00328_51635_0705.N1	DC map used

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



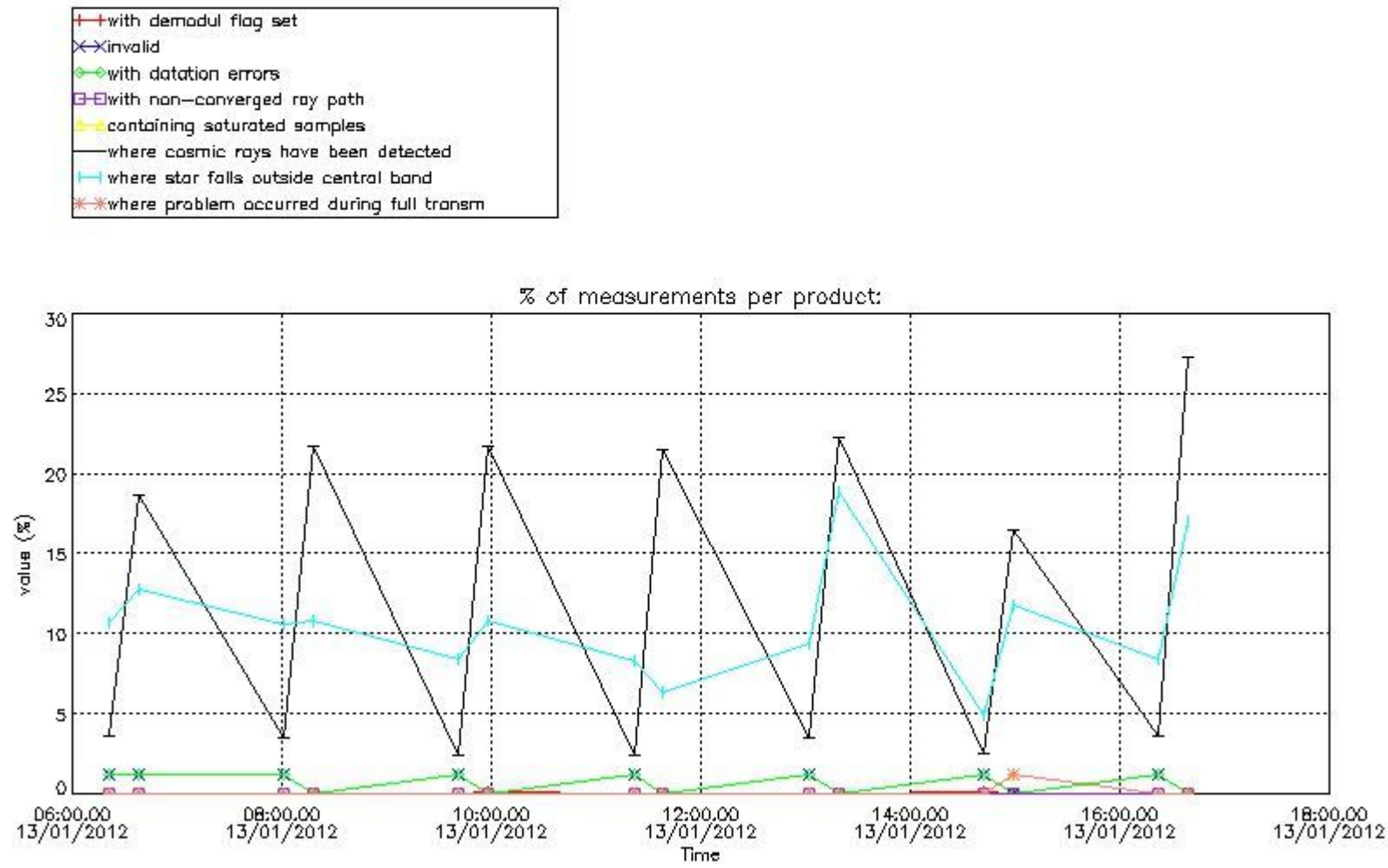
5. Demodulation flag and quality information monitoring

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.

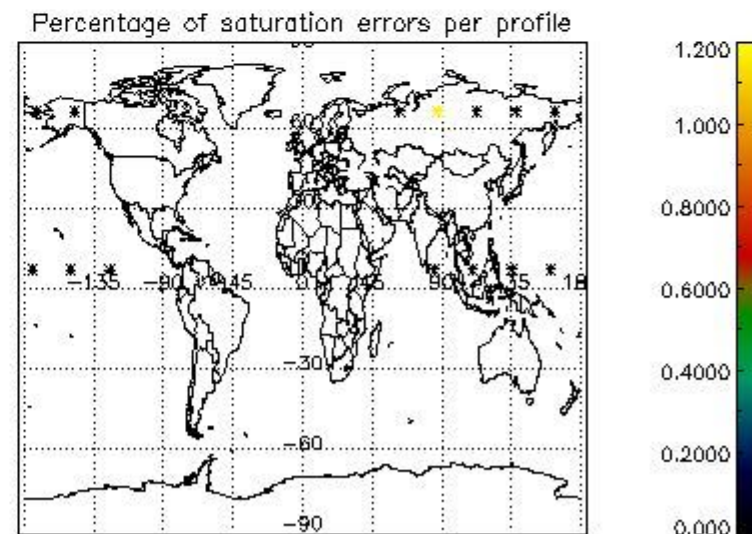
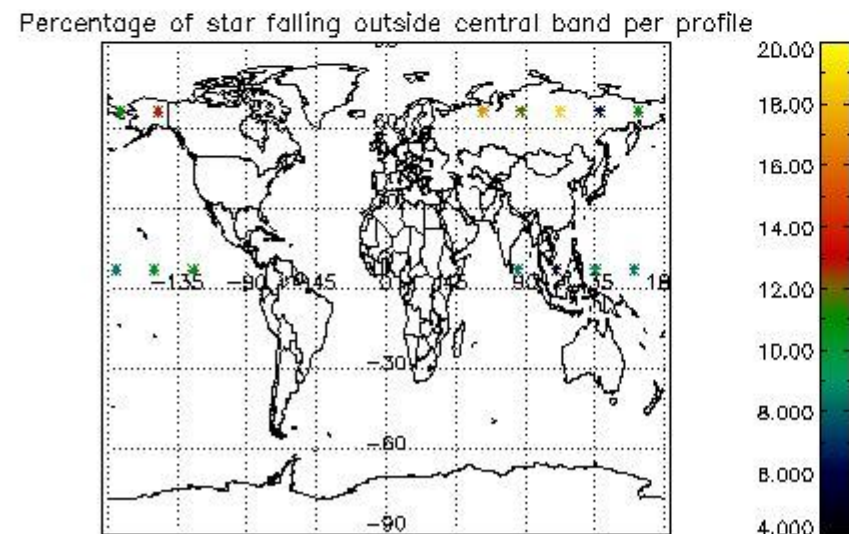
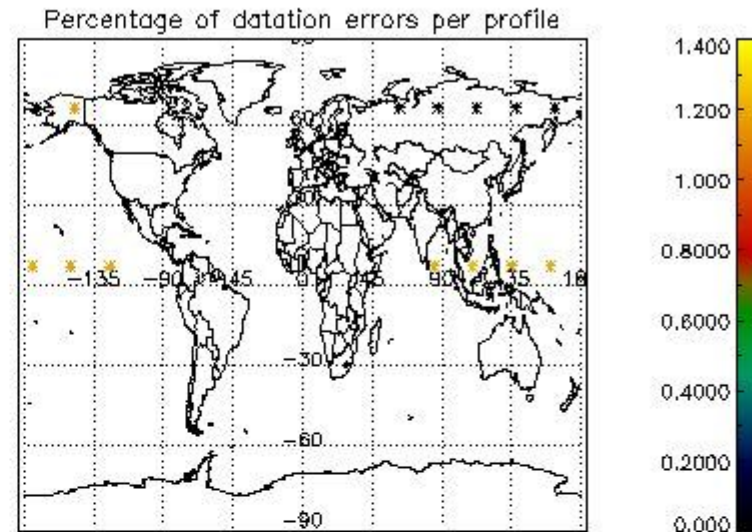
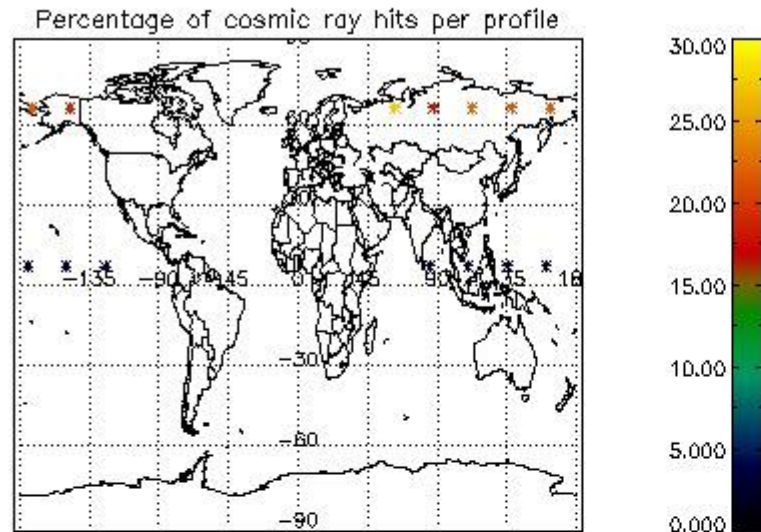
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	100.000 %
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)



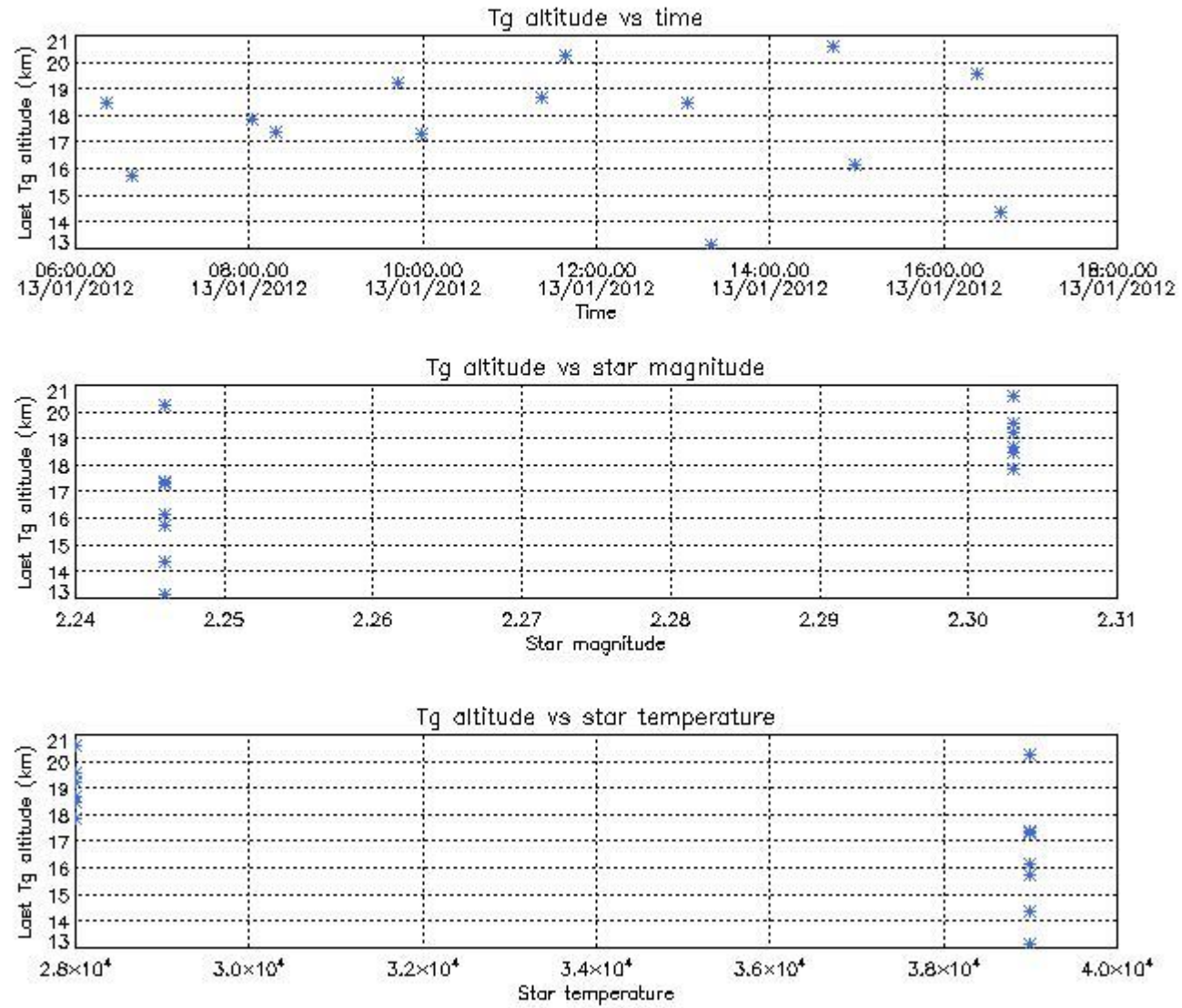
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.656	NaN	NaN
St. deviation:	2.1673	NaN	NaN
Maximum:	20.585	NaN	NaN
Minimum:	13.153	NaN	NaN
Number of data:	14.000	NaN	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

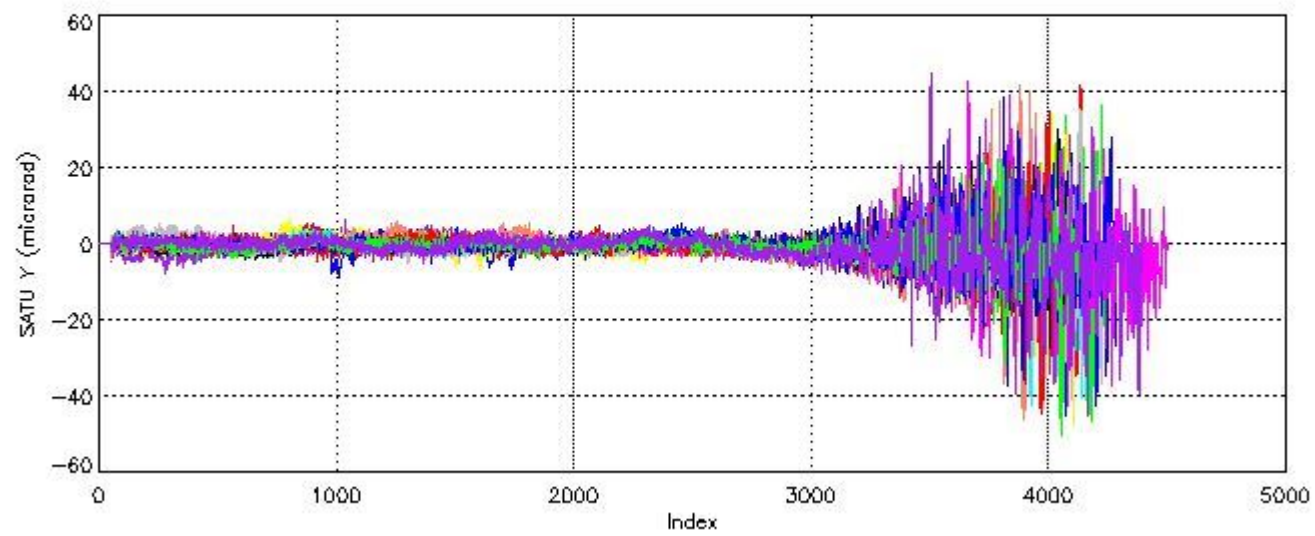
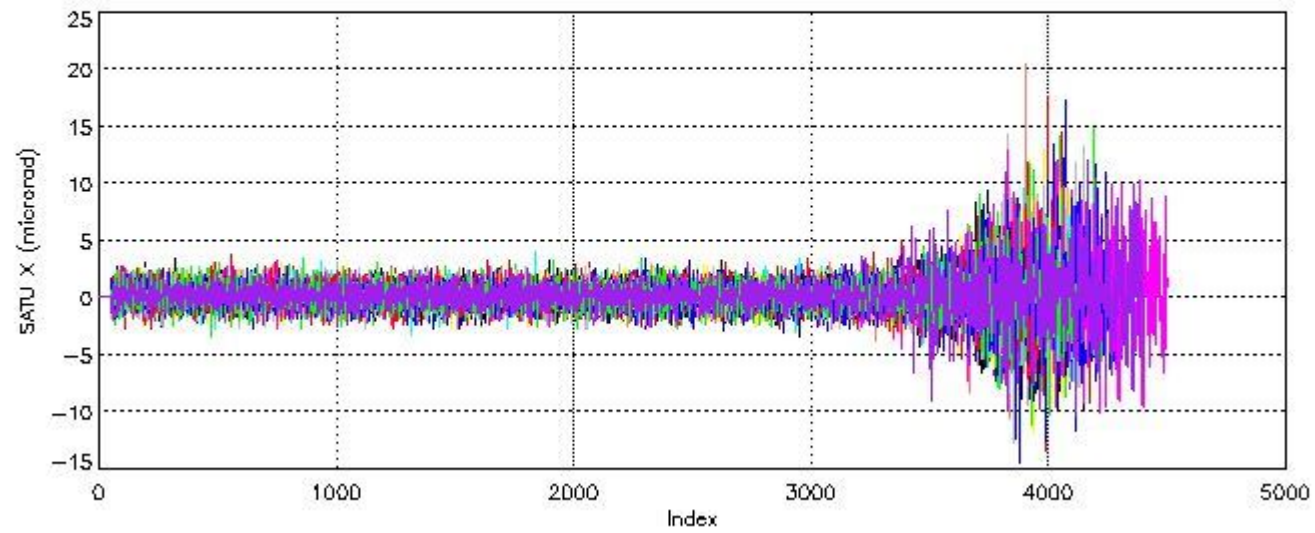


7. Star Acquisition and Tracking Unit (SATU)

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.

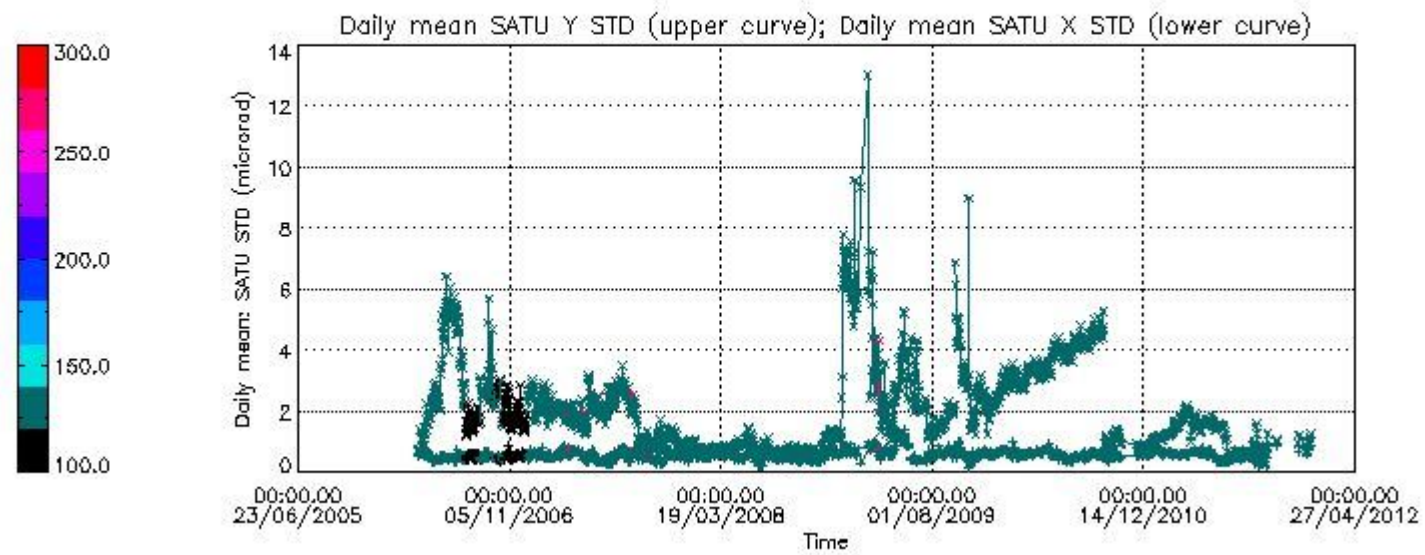
7.2.1 SATU NEA Statistics (table)

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.

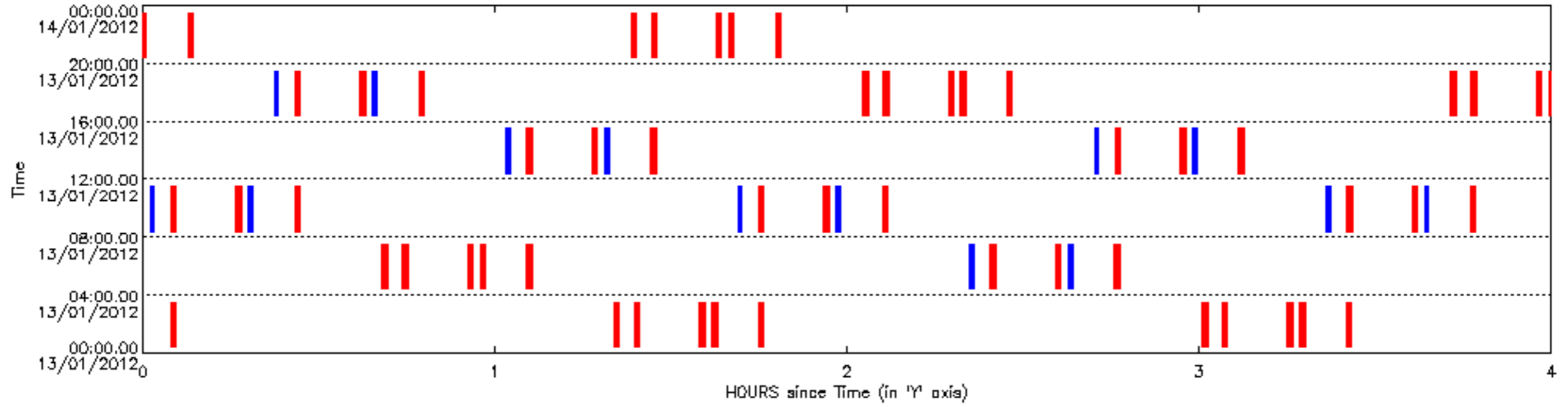
Upper curve: STD of SATU Y axis
 Lower curve: STD of SATU X axis

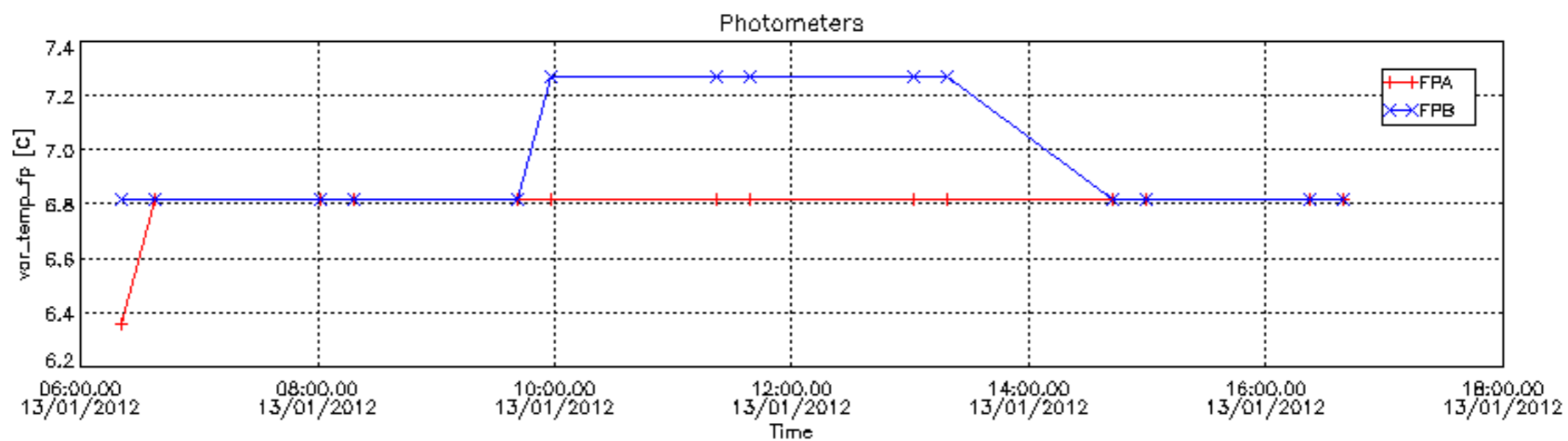
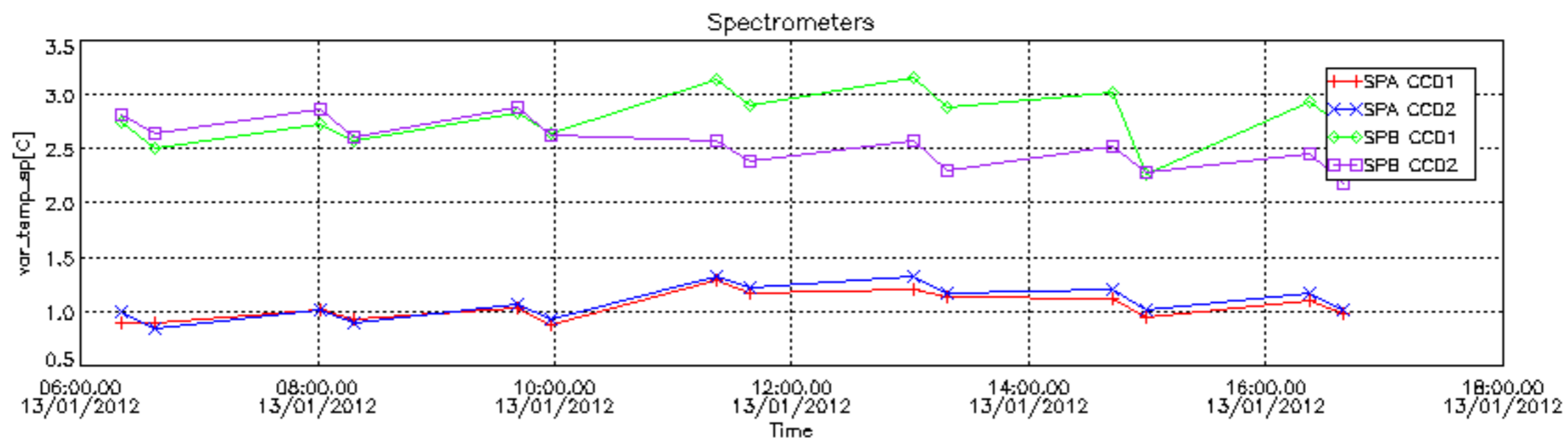


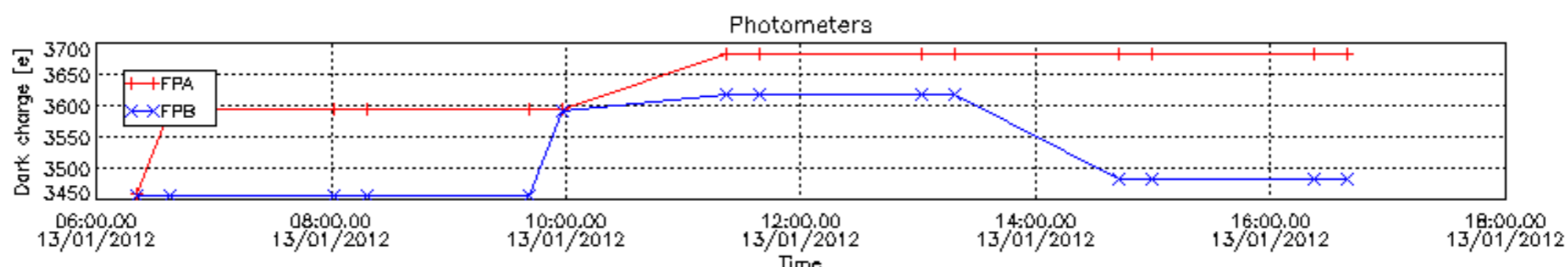
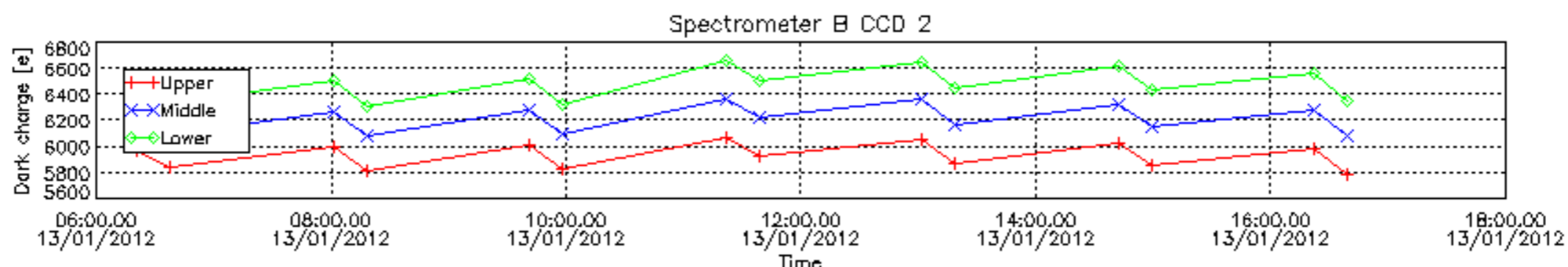
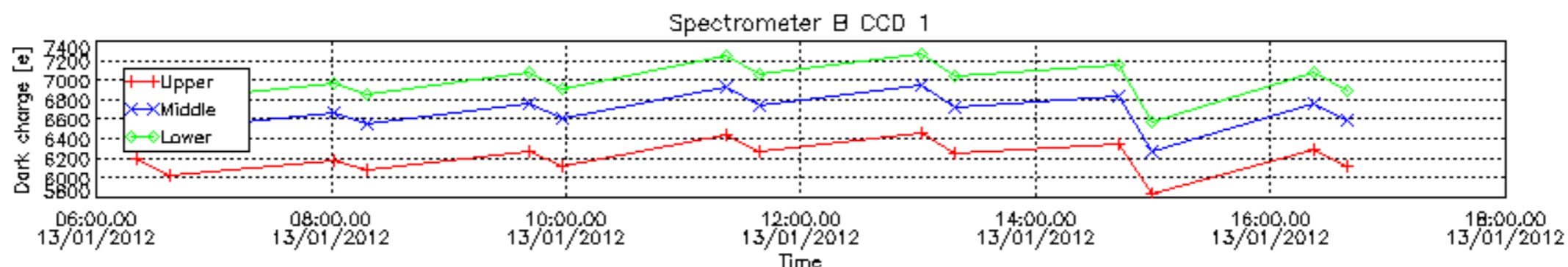
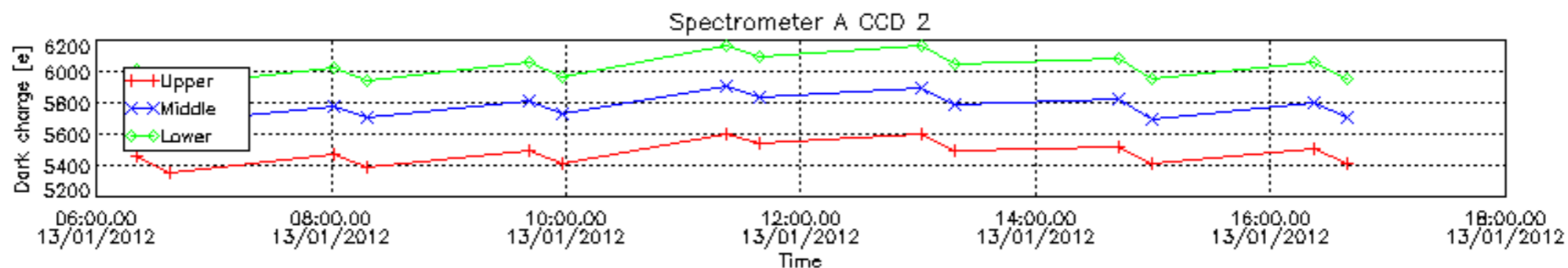
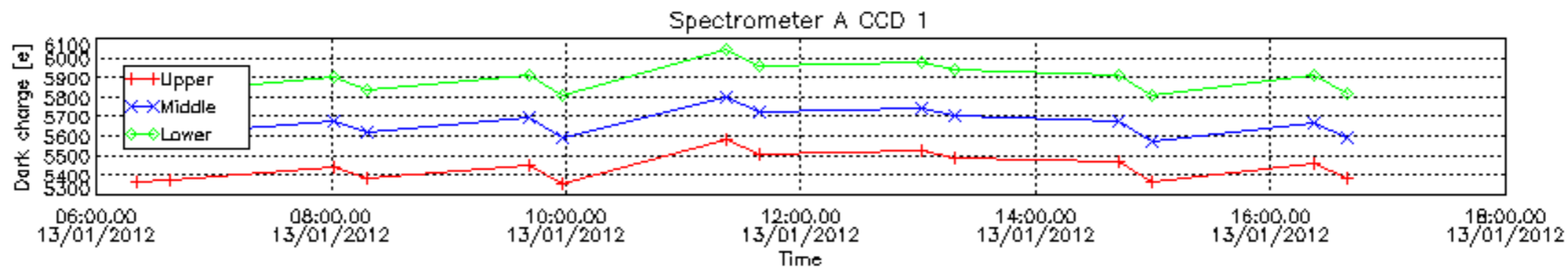
8. Auxiliary Data Files used for the production reported in section 2.4

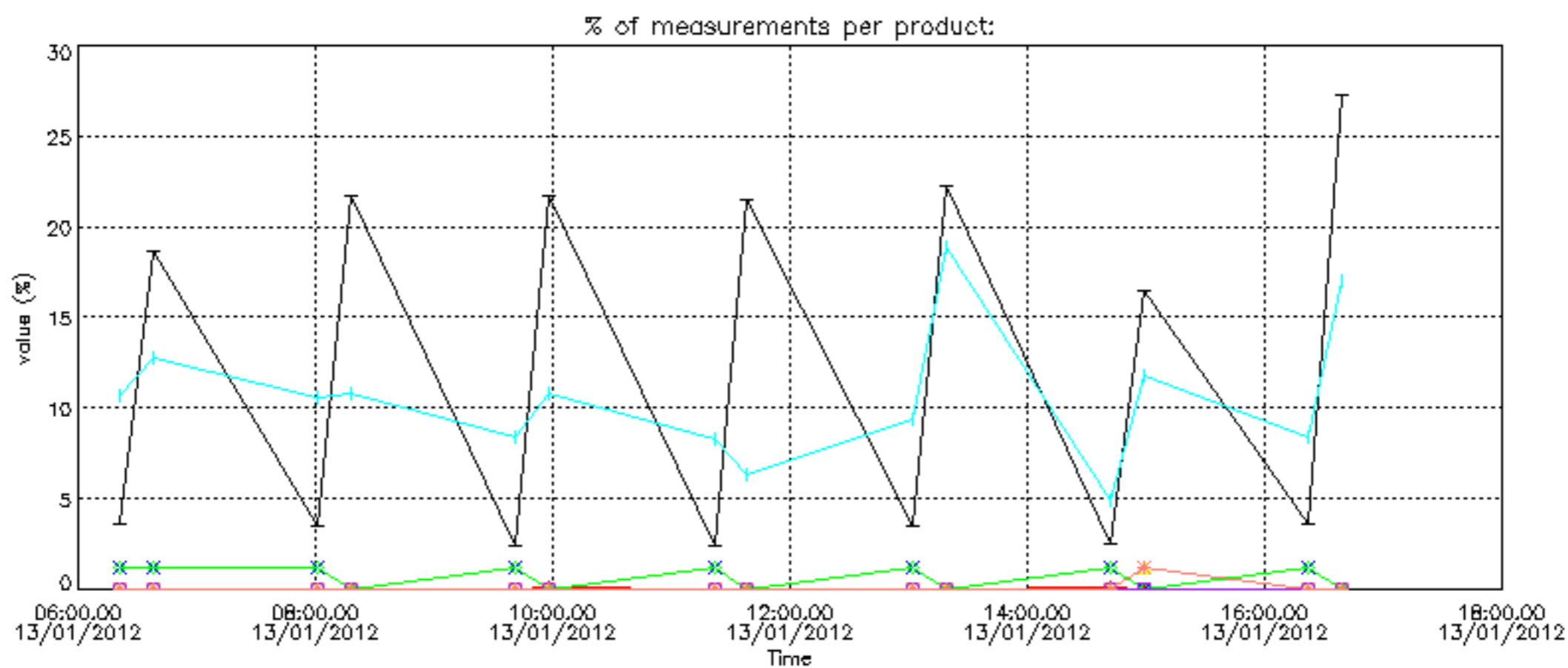
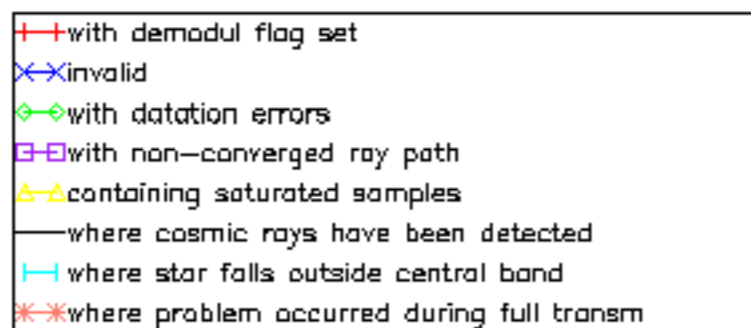
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	13-JAN-2012 06:20:54
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20111021_144853_20111020_000000_20500101_000000	1	13-JAN-2012 06:20:54
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20120113_084220_20120102_000000_20500101_000000	7	13-JAN-2012 11:21:38
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	13-JAN-2012 06:20:54
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-JAN-2012 06:20:54
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	13-JAN-2012 06:20:54
ECMWF_FILE	AUX_ECA_AXNECM20120113_062115_20120112_210000_20120113_090000	1	13-JAN-2012 06:20:54
ECMWF_FILE	AUX_ECF_AXNECM20120113_062115_20120113_090000_20120113_210000	5	13-JAN-2012 09:41:23
ECMWF_FILE	AUX_ECF_AXNECM20120113_062116_20120113_150000_20120114_030000	13	13-JAN-2012 16:22:21
OPTIONAL_ECMWF_FILE	MISSING	1	13-JAN-2012 06:20:54
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120112_232015_20120112_183719_20120122_205100	1	13-JAN-2012 06:20:54

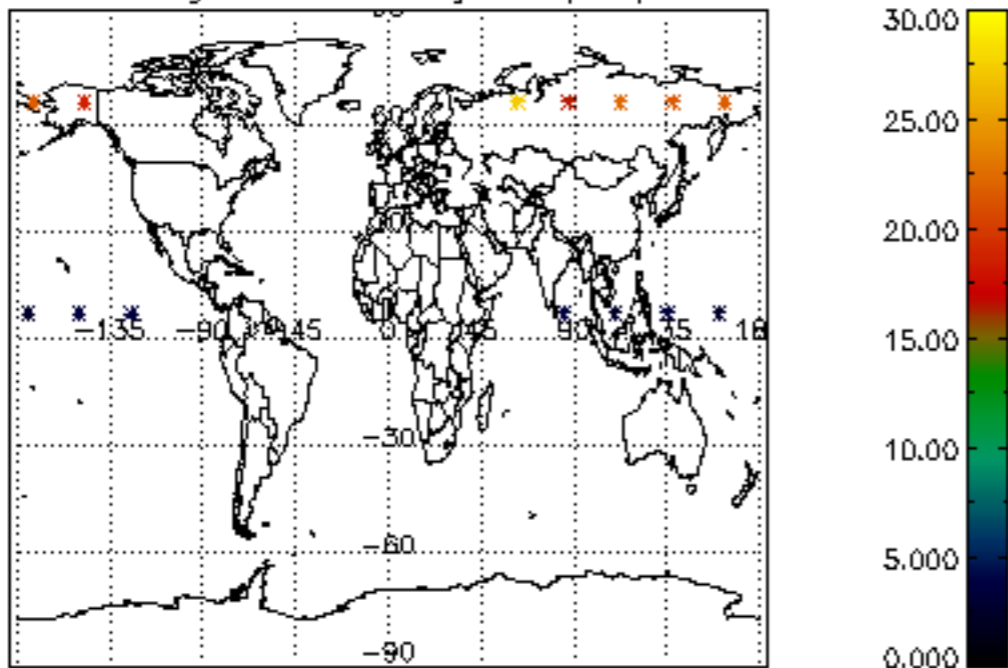




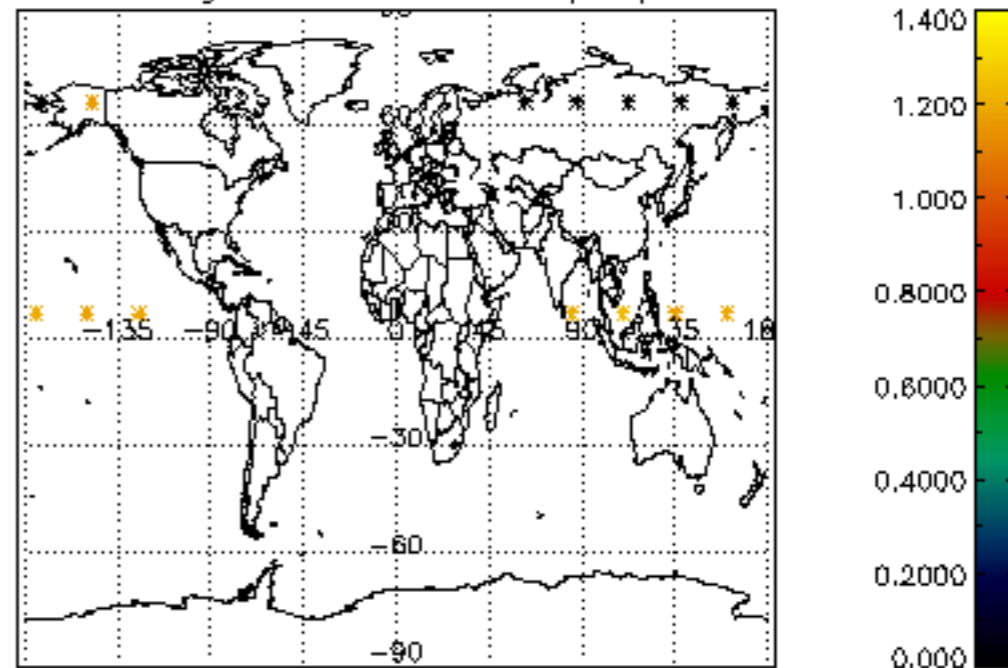




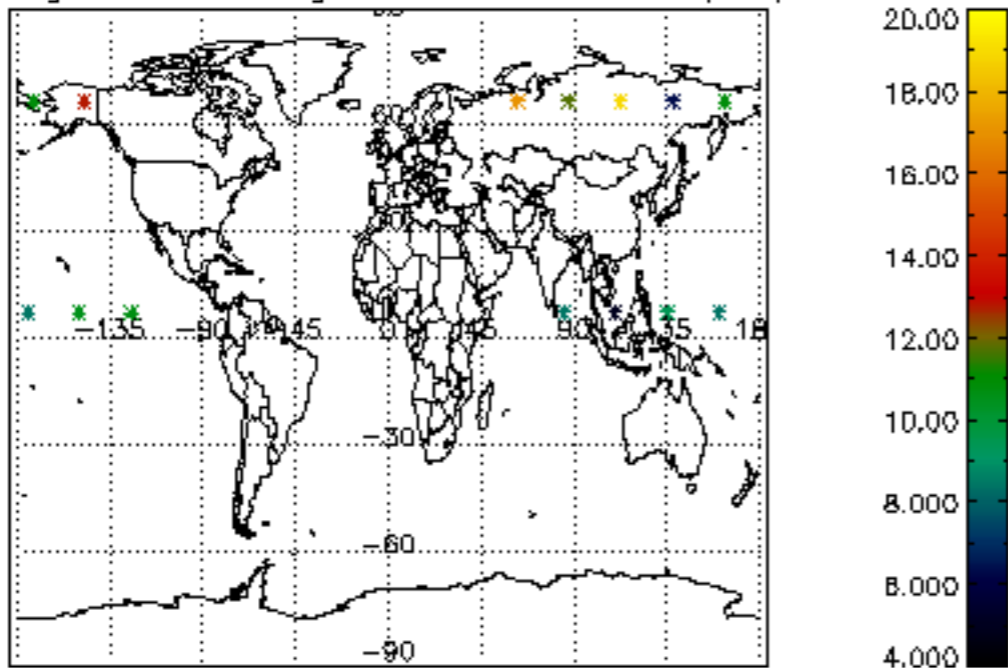
Percentage of cosmic ray hits per profile



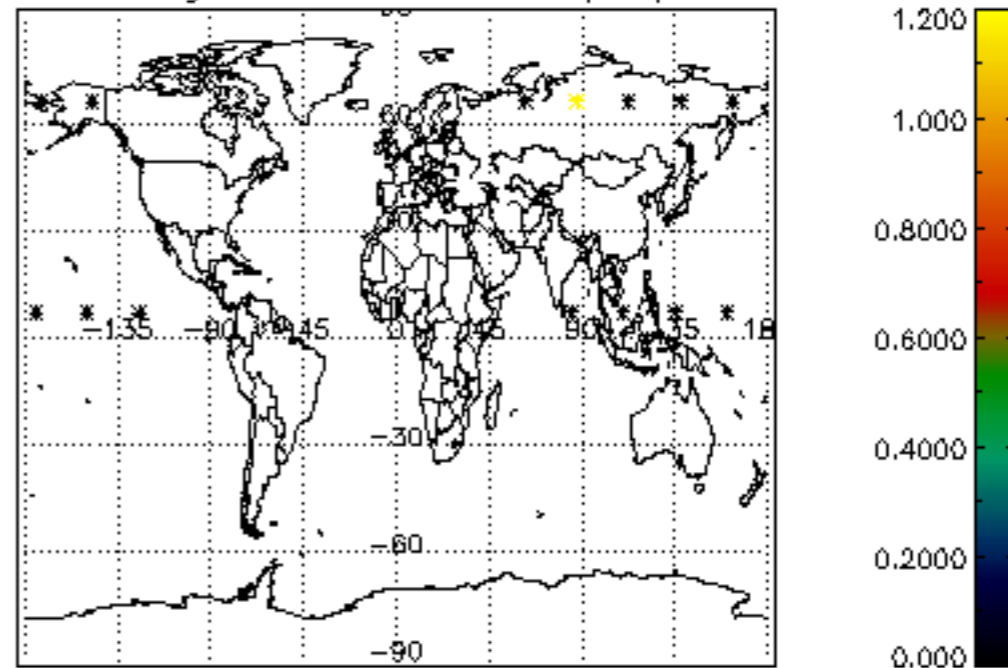
Percentage of datation errors per profile



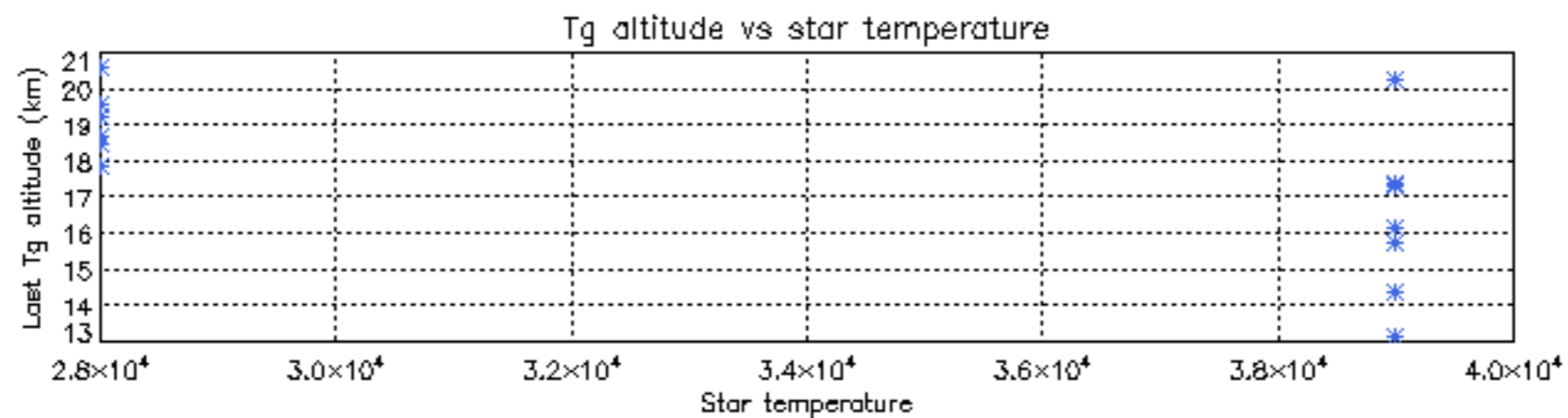
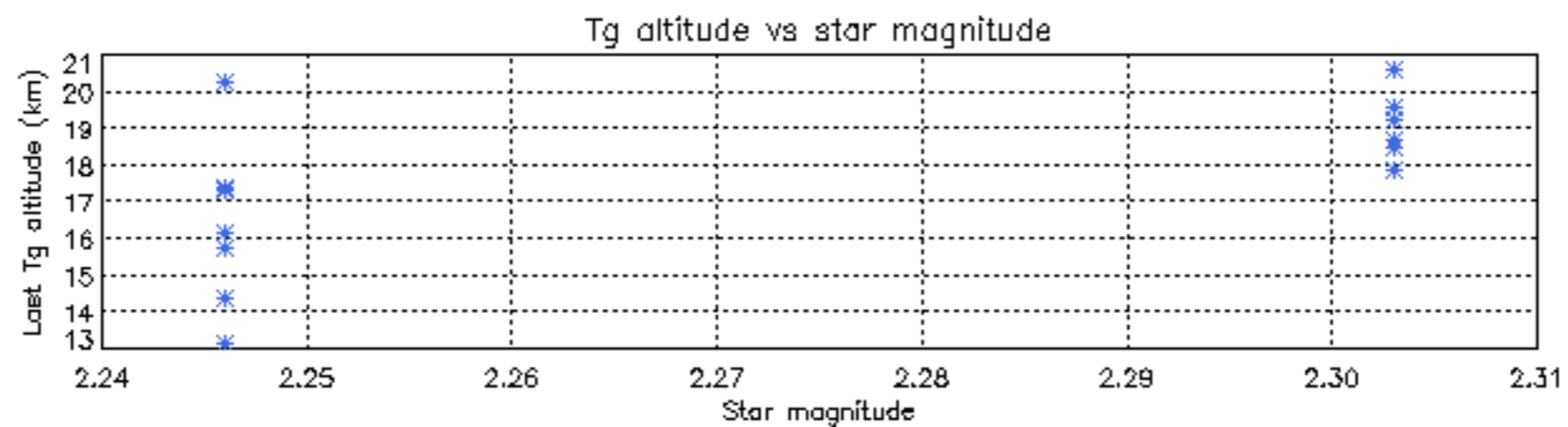
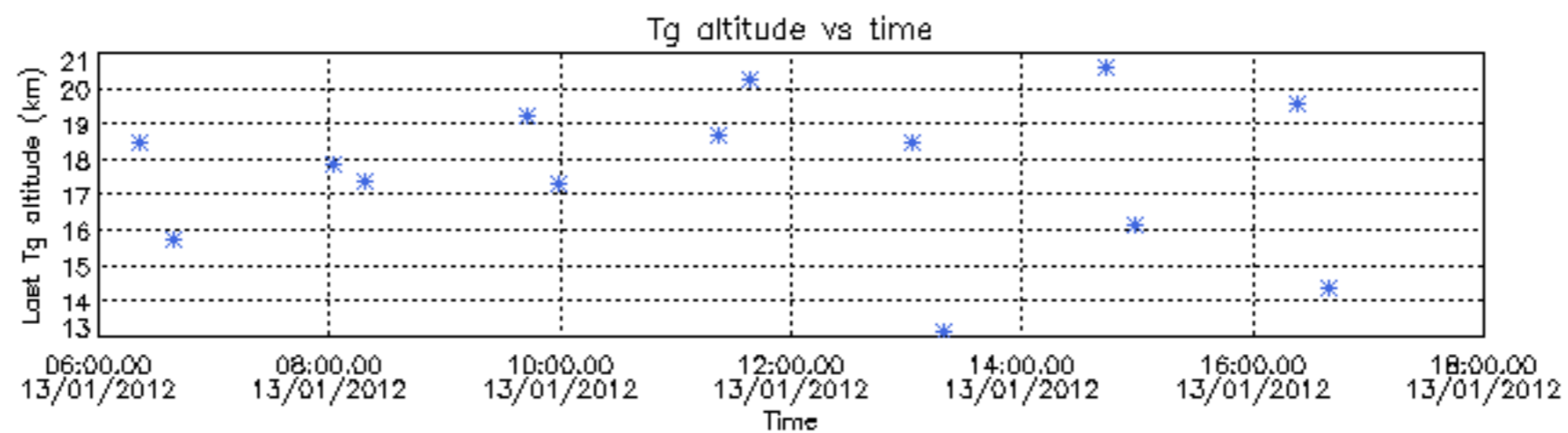
Percentage of star falling outside central band per profile

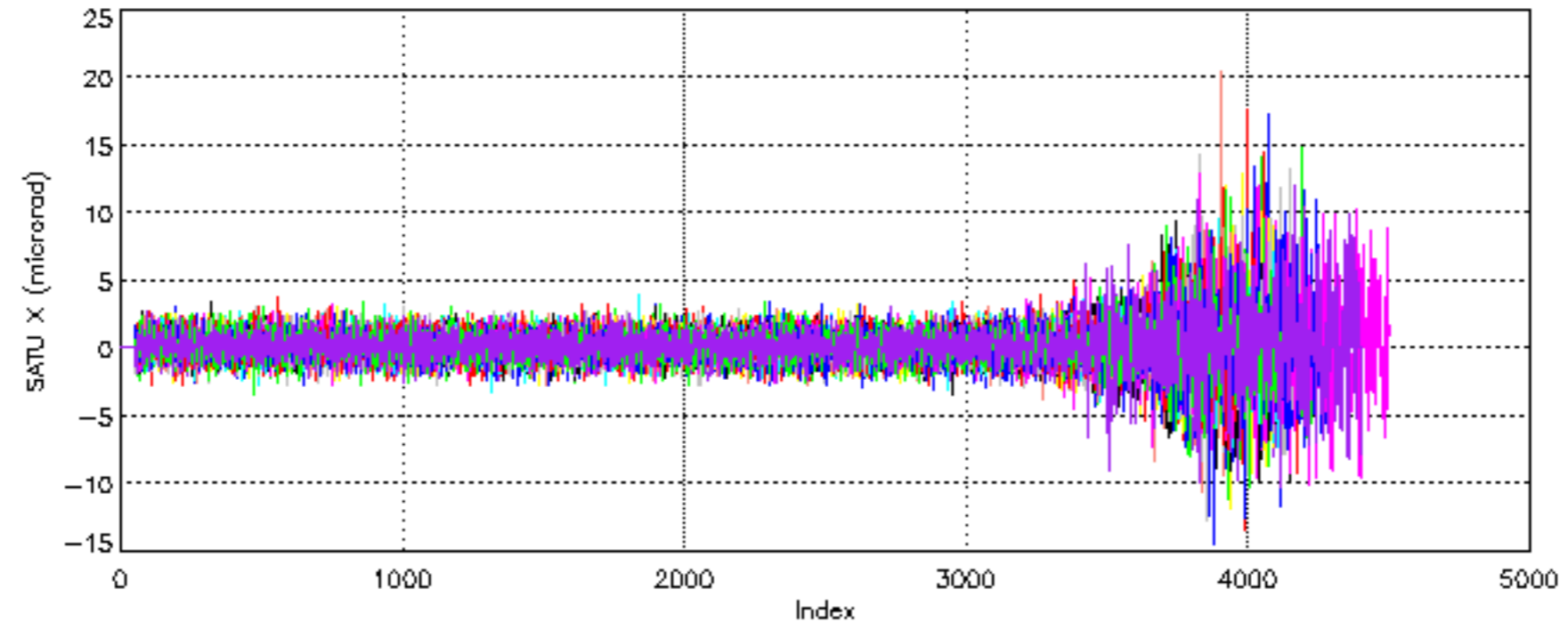


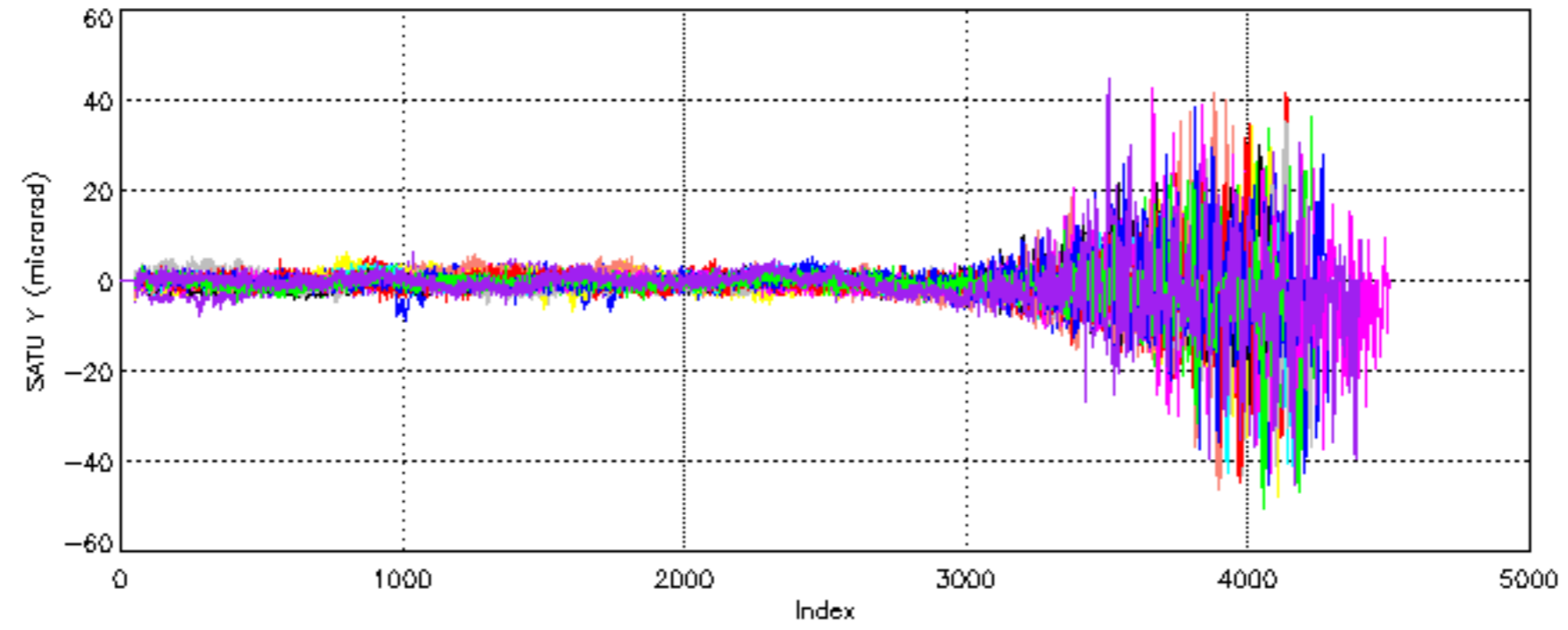
Percentage of saturation errors per profile

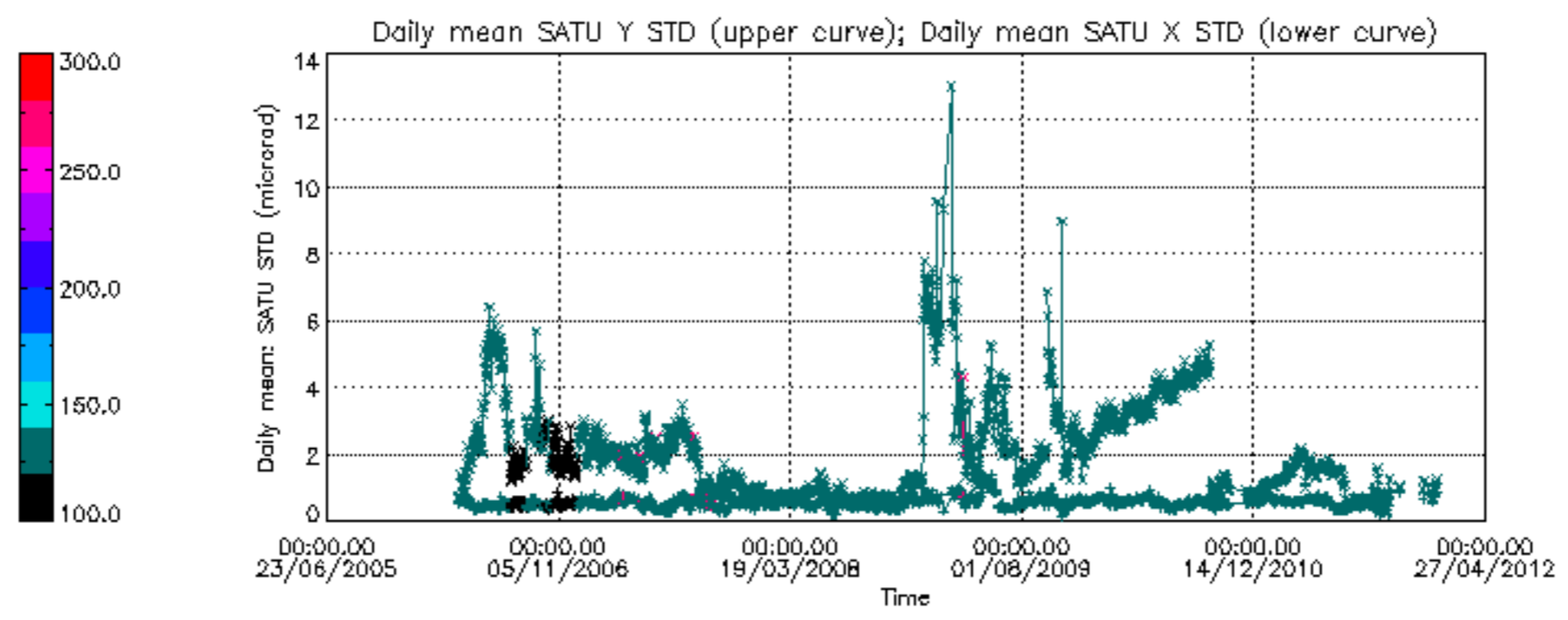


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120102_013403_000060733110_00161_51468_3712.N1
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2; 6763.8; 02-JAN-2012 03:14:17; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;51469
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2; -1159.9; 05-JAN-2012 09:13:23; Dark ; 57.5; 0; ; 0.00; 0;occ; 115; 0;51515
3; -559.9; 05-JAN-2012 09:23:23; Dark ; 57.5; 0; ; 0.00; 0;occ; 115; 0;51515
4; 40.1; 05-JAN-2012 09:33:23; Dark ; 57.5; 0; ; 0.00; 0;occ; 115; 0;51516
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6; 4854.5; 05-JAN-2012 10:53:37; Dark ; 57.5; 0; ; 0.00; 0;occ; 115; 0;51516
7; 5454.5; 05-JAN-2012 11:03:37; Dark ; 57.5; 0; ; 0.00; 0;occ; 115; 0;51516
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3; 1100.3; 09-JAN-2012 07:24:03; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;51572
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2; 971.2; 09-JAN-2012 09:02:08; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;51573
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2; 6095.4; 09-JAN-2012 13:48:00; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;51576
3; 6986.3; 09-JAN-2012 14:02:51; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;51576
4; 7115.7; 09-JAN-2012 14:05:00; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;51576
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3; 6985.8; 09-JAN-2012 12:22:37; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;51575
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3; 6986.9; 09-JAN-2012 15:43:05; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;51577
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2; 977.0; 10-JAN-2012 08:25:29; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;51587
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2; 978.1; 10-JAN-2012 13:26:12; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;51590
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2; 978.6; 10-JAN-2012 15:06:26; Dark ; 38.0; 34; Gam2Vel ; 1.79; 23000;occ; 76; 0;51591
3; 1107.5; 10-JAN-2012 15:08:35; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;51591
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3; 1111.5; 11-JAN-2012 07:50:58; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;51601
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2; 983.0; 11-JAN-2012 09:29:04; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;51602
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2; 983.4; 11-JAN-2012 11:09:18; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;51603
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