

GOMOS Daily Report 11-JAN-2012

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	17JAN2012 07:01:00
Data source version	GOMOS/6.01
Start time of products	11JAN2012 07:34:05
Stop time of products	11JAN2012 17:52:24
Store outputs in DB	Yes
Nb of level 1b prods	18
Nb of prods with errors	0

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

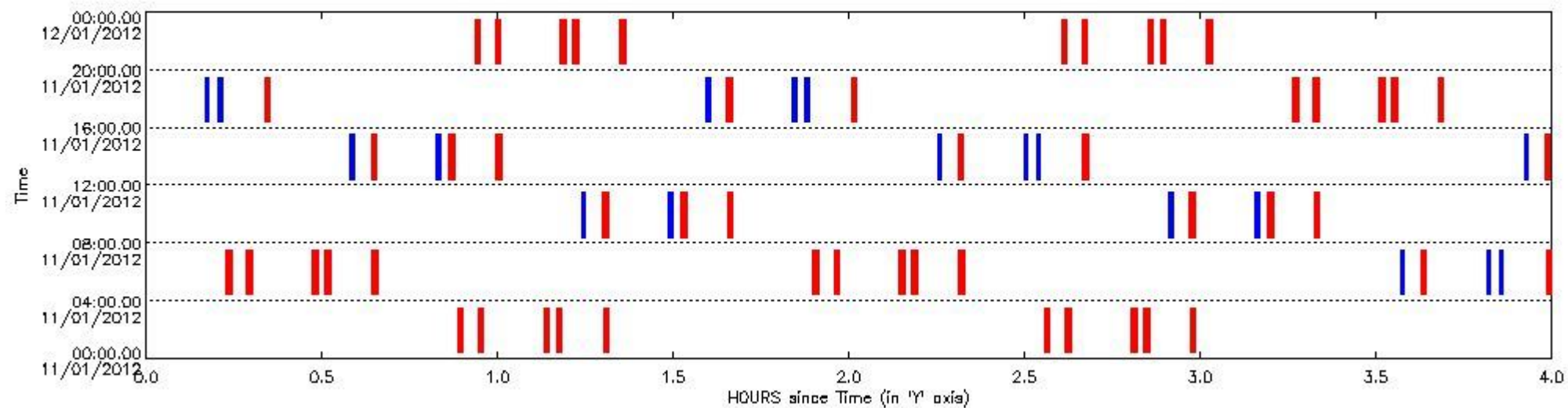
2.1 Level 0 products arrived in PCF (see template [here](#))

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
11-JAN-2012 00:53:06	EpsCen	77	51610
11-JAN-2012 00:56:40	Alp1Cru	12	51610
11-JAN-2012 01:07:52	Gam2Vel	34	51610
11-JAN-2012 01:10:01	ZetPup	70	51610
11-JAN-2012 01:18:03	9AlpCMa	1	51610
11-JAN-2012 02:33:21	EpsCen	77	51611
11-JAN-2012 02:36:54	Alp1Cru	12	51611
11-JAN-2012 02:48:06	Gam2Vel	34	51611
11-JAN-2012 02:50:15	ZetPup	70	51611
11-JAN-2012 02:58:17	9AlpCMa	1	51611
11-JAN-2012 04:13:36	EpsCen	77	51612
11-JAN-2012 04:17:09	Alp1Cru	12	51612
11-JAN-2012 04:28:21	Gam2Vel	34	51612
11-JAN-2012 04:30:30	ZetPup	70	51612
11-JAN-2012 04:38:31	9AlpCMa	1	51612

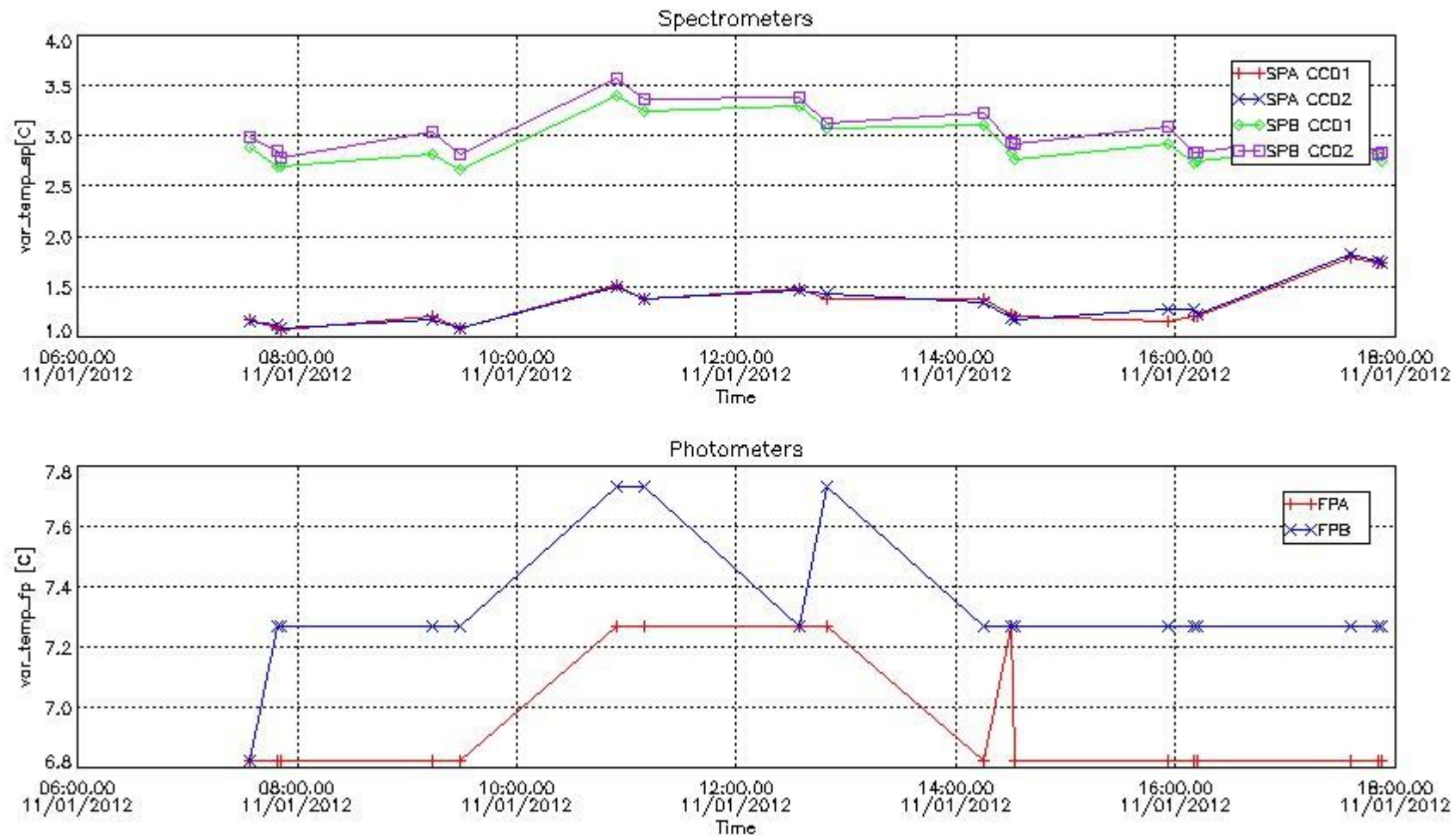
11-JAN-2012 05:53:50	EpsCen	77	51613
11-JAN-2012 05:57:23	Alp1Cru	12	51613
11-JAN-2012 06:08:35	Gam2Vel	34	51613
11-JAN-2012 06:10:44	ZetPup	70	51613
11-JAN-2012 06:18:45	9AlpCMa	1	51613
11-JAN-2012 07:37:37	Alp1Cru	12	51614
11-JAN-2012 07:58:59	9AlpCMa	1	51614
11-JAN-2012 09:17:52	Alp1Cru	12	51615
11-JAN-2012 09:31:13	ZetPup	70	51615
11-JAN-2012 09:39:13	9AlpCMa	1	51615
11-JAN-2012 10:58:06	Alp1Cru	12	51616
11-JAN-2012 11:11:27	ZetPup	70	51616
11-JAN-2012 11:19:27	9AlpCMa	1	51616
11-JAN-2012 12:38:21	Alp1Cru	12	51617
11-JAN-2012 12:51:41	ZetPup	70	51617
11-JAN-2012 12:59:41	9AlpCMa	1	51617
11-JAN-2012 14:18:35	Alp1Cru	12	51618
11-JAN-2012 14:39:55	9AlpCMa	1	51618
11-JAN-2012 15:58:50	Alp1Cru	12	51619
11-JAN-2012 16:20:09	9AlpCMa	1	51619
11-JAN-2012 17:39:04	Alp1Cru	12	51620
11-JAN-2012 18:00:23	9AlpCMa	1	51620
11-JAN-2012 19:15:47	EpsCen	77	51621
11-JAN-2012 19:19:19	Alp1Cru	12	51621
11-JAN-2012 19:30:30	Gam2Vel	34	51621
11-JAN-2012 19:32:38	ZetPup	70	51621
11-JAN-2012 19:40:37	9AlpCMa	1	51621
11-JAN-2012 20:56:02	EpsCen	77	51622
11-JAN-2012 20:59:33	Alp1Cru	12	51622
11-JAN-2012 21:10:44	Gam2Vel	34	51622
11-JAN-2012 21:12:53	ZetPup	70	51622
11-JAN-2012 21:20:51	9AlpCMa	1	51622
11-JAN-2012 22:36:16	EpsCen	77	51623
11-JAN-2012 22:39:48	Alp1Cru	12	51623
11-JAN-2012 22:50:58	Gam2Vel	34	51623
11-JAN-2012 22:53:07	ZetPup	70	51623
11-JAN-2012 23:01:05	9AlpCMa	1	51623

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_1PNPDK20120111_073405_000000413110_00294_51601_9795.N1	11-JAN-2012 07:34:05	Dark	41.000	77	Eps Cen	2.3030	28000.	82	51601	No
2	GOM_TRA_1PNPDK20120111_074849_000000433110_00294_51601_9796.N1	11-JAN-2012 07:48:49	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	51601	No
3	GOM_TRA_1PNPDK20120111_075058_000000443110_00294_51601_9797.N1	11-JAN-2012 07:50:58	Dark	43.500	70	Zet Pup	2.2460	39000.	87	51601	No
4	GOM_TRA_1PNPDK20120111_091419_000000423110_00295_51602_9828.N1	11-JAN-2012 09:14:19	Dark	41.500	77	Eps Cen	2.3030	28000.	83	51602	No
5	GOM_TRA_1PNPDK20120111_092904_000000433110_00295_51602_9829.N1	11-JAN-2012 09:29:04	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	51602	No
6	GOM_TRA_1PNPDK20120111_105434_000000413110_00296_51603_9864.N1	11-JAN-2012 10:54:34	Dark	41.000	77	Eps Cen	2.3030	28000.	82	51603	No
7	GOM_TRA_1PNPDK20120111_110918_000000463110_00296_51603_9865.N1	11-JAN-2012 11:09:18	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	51603	No
8	GOM_TRA_1PNPDK20120111_123449_000000413110_00297_51604_9898.N1	11-JAN-2012 12:34:49	Dark	40.500	77	Eps Cen	2.3030	28000.	81	51604	No
9	GOM_TRA_1PNPDK20120111_124932_000000433110_00297_51604_9899.N1	11-JAN-2012 12:49:32	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	51604	No
10	GOM_TRA_1PNPDK20120111_141503_000000413110_00298_51605_9931.N1	11-JAN-2012 14:15:03	Dark	40.500	77	Eps Cen	2.3030	28000.	81	51605	No
11	GOM_TRA_1PNPDK20120111_142947_000000443110_00298_51605_9932.N1	11-JAN-2012 14:29:47	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	51605	No
12	GOM_TRA_1PNPDK20120111_143156_000000443110_00298_51605_9933.N1	11-JAN-2012 14:31:56	Dark	44.000	70	Zet Pup	2.2460	39000.	88	51605	No
13	GOM_TRA_1PNPDK20120111_155518_000000403110_00299_51606_9956.N1	11-JAN-2012 15:55:18	Dark	40.000	77	Eps Cen	2.3030	28000.	80	51606	No
14	GOM_TRA_1PNPDK20120111_161001_000000433110_00299_51606_9957.N1	11-JAN-2012 16:10:01	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	51606	No
15	GOM_TRA_1PNPDK20120111_161210_000000453110_00299_51606_9958.N1	11-JAN-2012 16:12:10	Dark	44.500	70	Zet Pup	2.2460	39000.	89	51606	No
16	GOM_TRA_1PNPDK20120111_173532_000000423110_00300_51607_9988.N1	11-JAN-2012 17:35:32	Dark	41.500	77	Eps Cen	2.3030	28000.	83	51607	No
17	GOM_TRA_1PNPDK20120111_175015_000000453110_00300_51607_9989.N1	11-JAN-2012 17:50:15	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	51607	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).

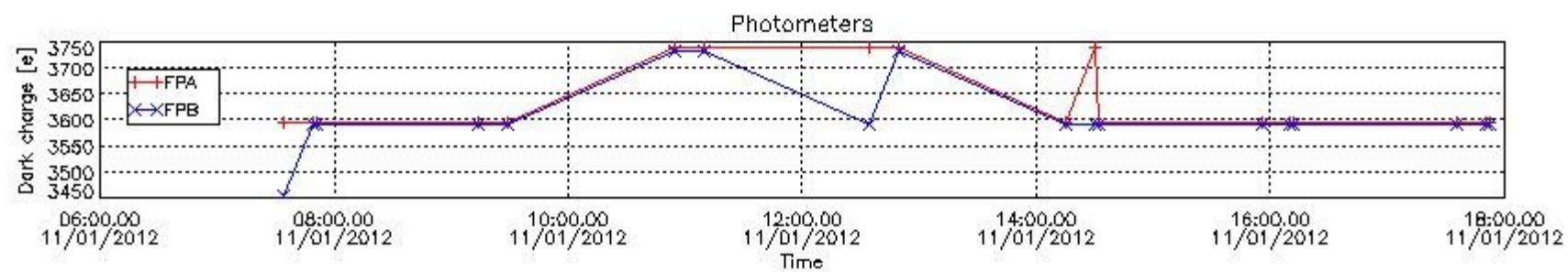
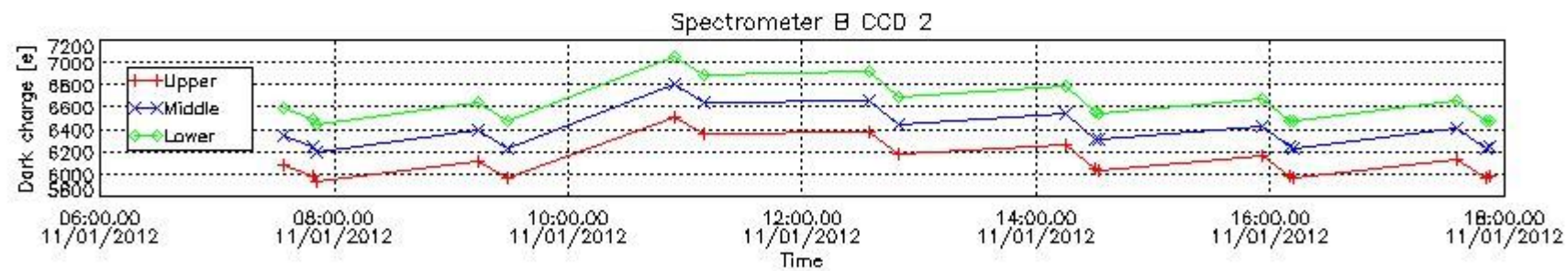
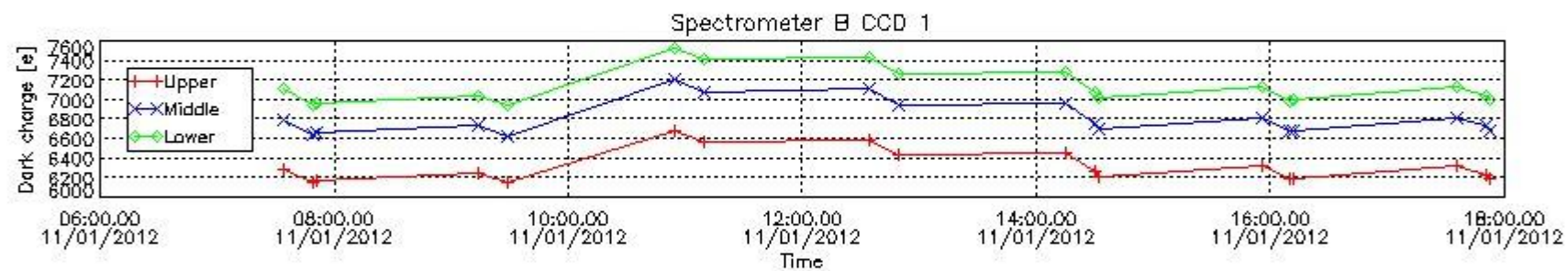
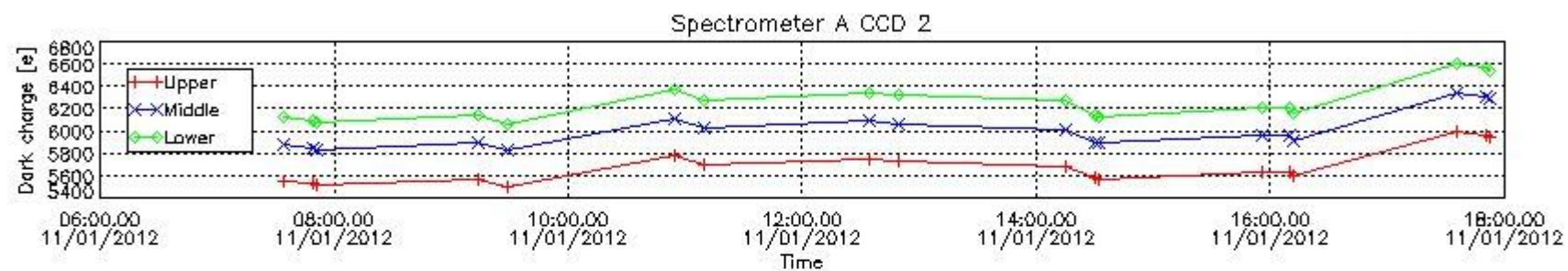
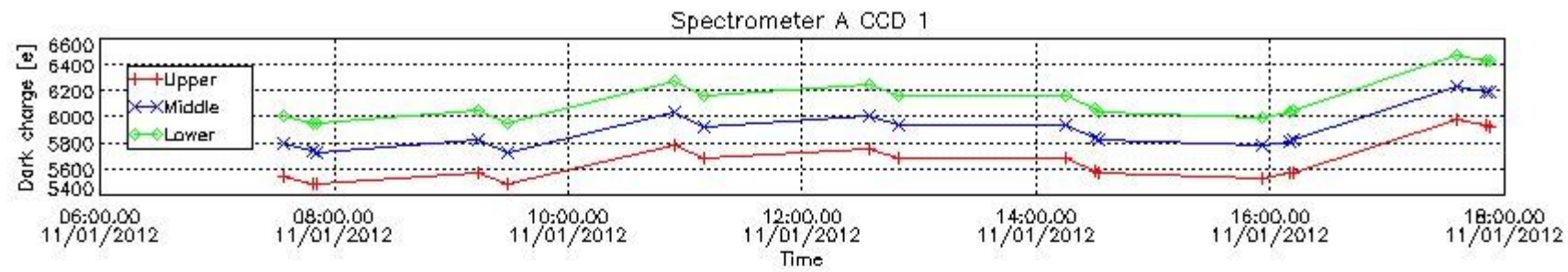
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDK20120111_073405_00000413110_00294_51601_9795.N1	DC map used
GOM_TRA_1PNPDK20120111_074849_00000433110_00294_51601_9796.N1	DC map used
GOM_TRA_1PNPDK20120111_075058_00000443110_00294_51601_9797.N1	DC map used
GOM_TRA_1PNPDK20120111_091419_00000423110_00295_51602_9828.N1	DC map used
GOM_TRA_1PNPDK20120111_092904_00000433110_00295_51602_9829.N1	DC map used
GOM_TRA_1PNPDK20120111_105434_00000413110_00296_51603_9864.N1	DC map used
GOM_TRA_1PNPDK20120111_110918_00000463110_00296_51603_9865.N1	DC map used
GOM_TRA_1PNPDK20120111_123449_00000413110_00297_51604_9898.N1	DC map used
GOM_TRA_1PNPDK20120111_124932_00000433110_00297_51604_9899.N1	DC map used

GOM_TRA_1PNPDK20120111_141503_000000413110_00298_51605_9931.N1	DC map used
GOM_TRA_1PNPDK20120111_142947_000000443110_00298_51605_9932.N1	DC map used
GOM_TRA_1PNPDK20120111_143156_000000443110_00298_51605_9933.N1	DC map used
GOM_TRA_1PNPDK20120111_155518_000000403110_00299_51606_9956.N1	DC map used
GOM_TRA_1PNPDK20120111_161001_000000433110_00299_51606_9957.N1	DC map used
GOM_TRA_1PNPDK20120111_161210_000000453110_00299_51606_9958.N1	DC map used
GOM_TRA_1PNPDK20120111_173532_000000423110_00300_51607_9988.N1	DC map used
GOM_TRA_1PNPDK20120111_175015_000000453110_00300_51607_9989.N1	DC map used
GOM_TRA_1PNPDK20120111_175224_000000463110_00300_51607_0017.N1	DC map used

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



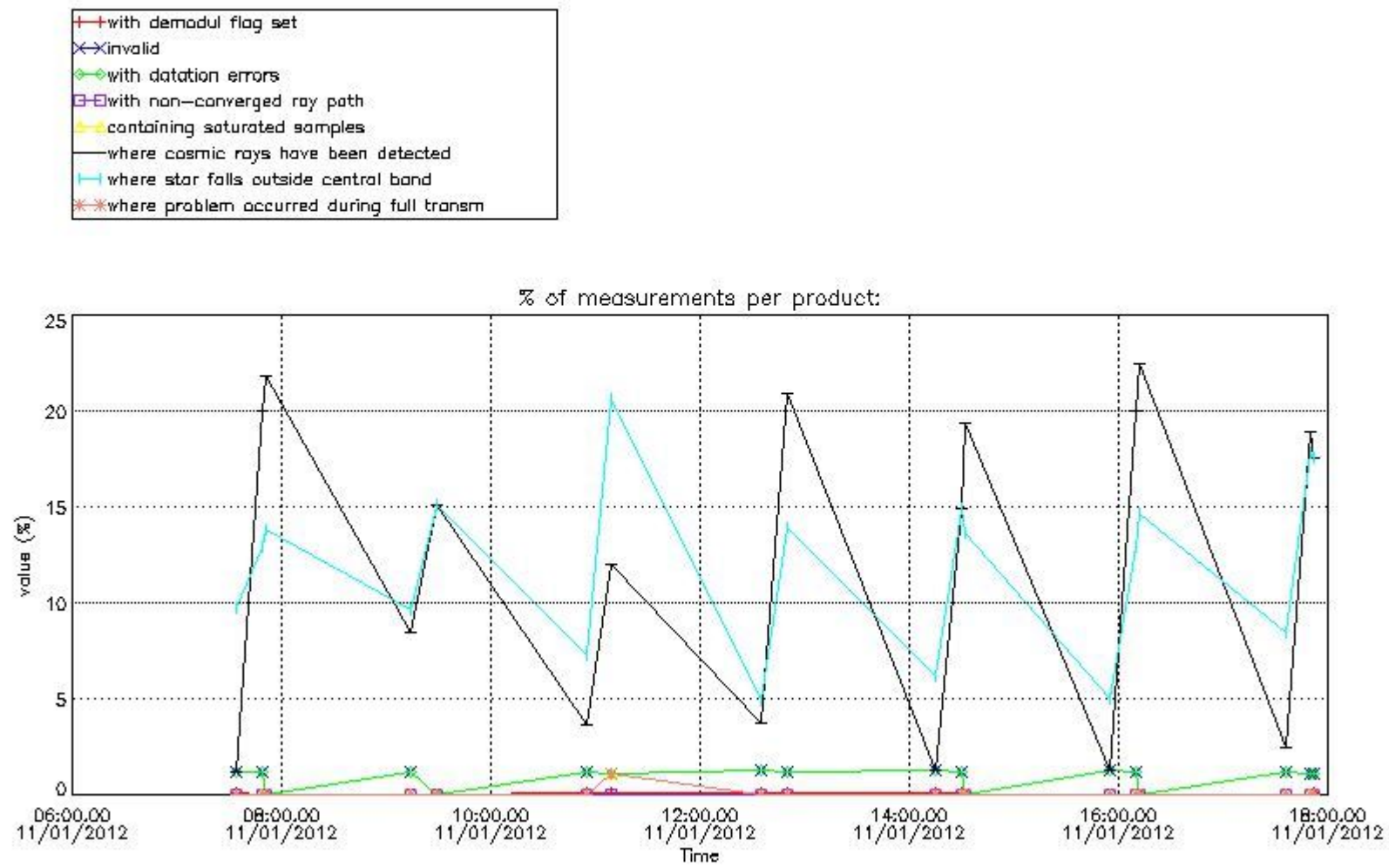
5. Demodulation flag and quality information monitoring

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.

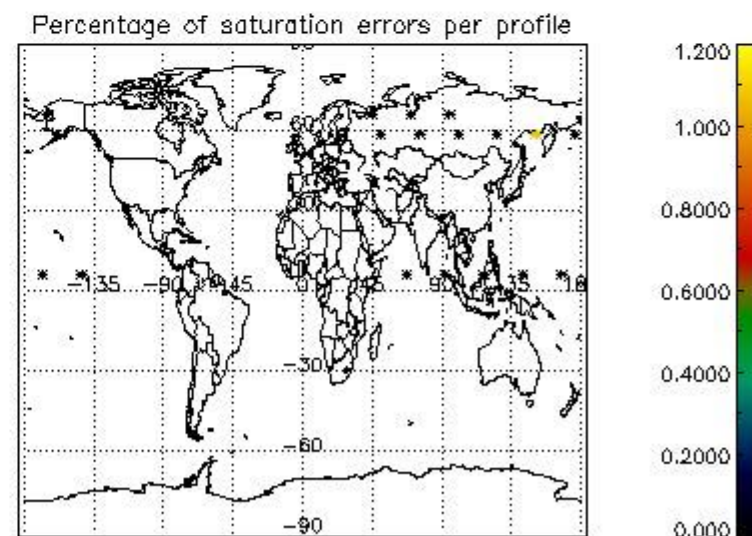
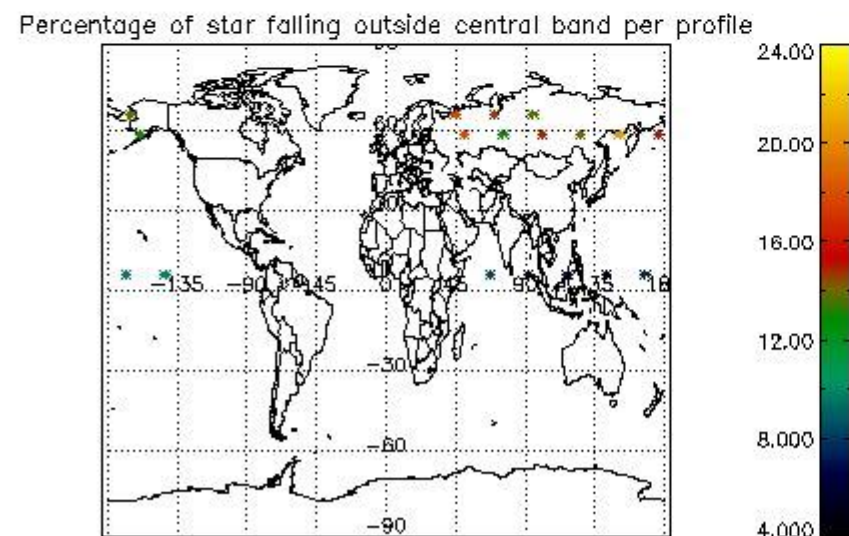
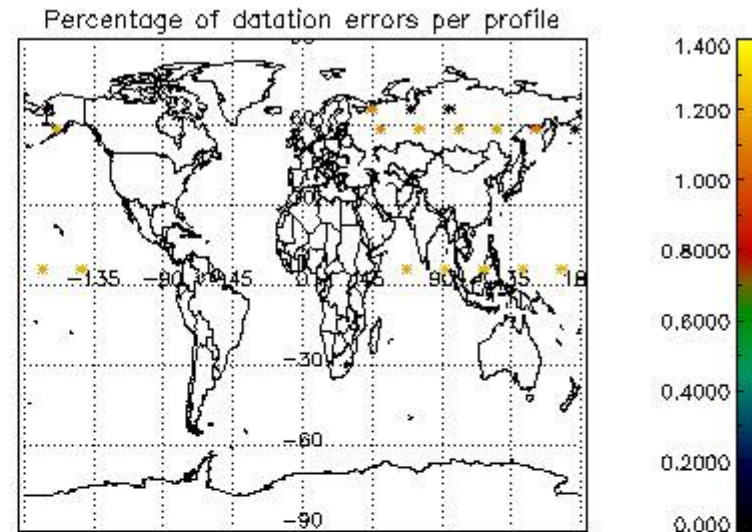
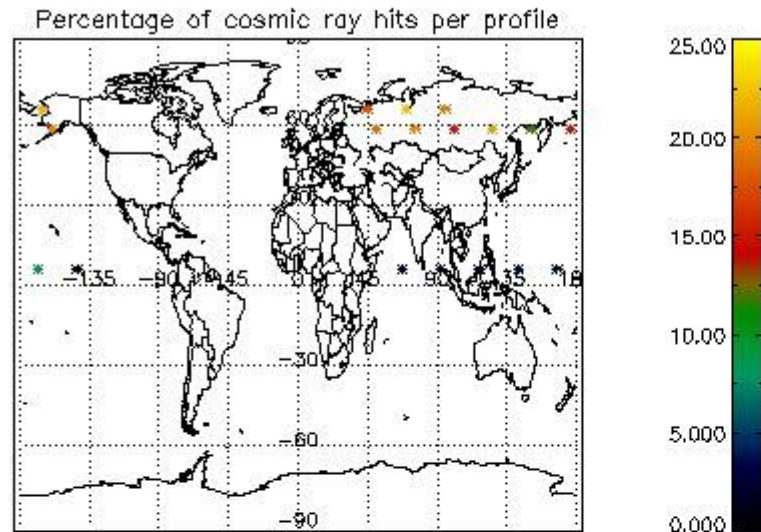
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	88.8889 %
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)



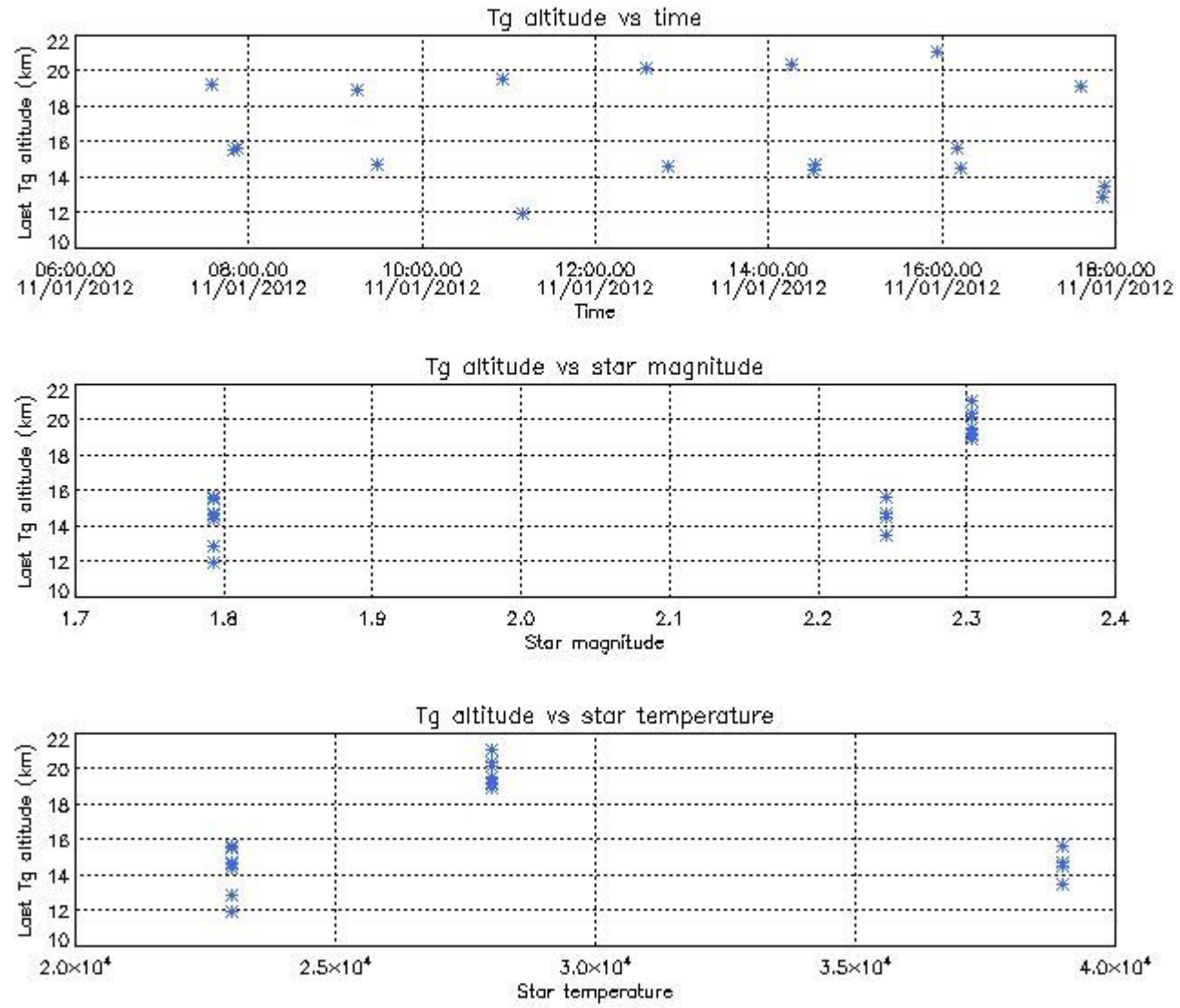
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.473	NaN	NaN
St. deviation:	2.8989	NaN	NaN
Maximum:	21.088	NaN	NaN
Minimum:	11.935	NaN	NaN
Number of data:	18.000	NaN	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

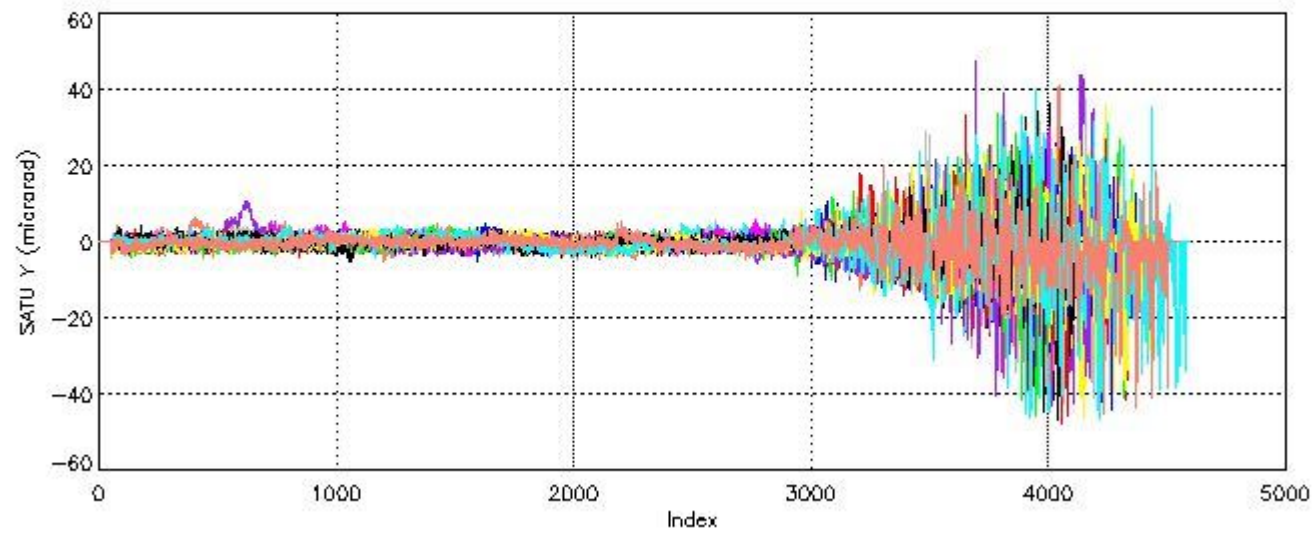
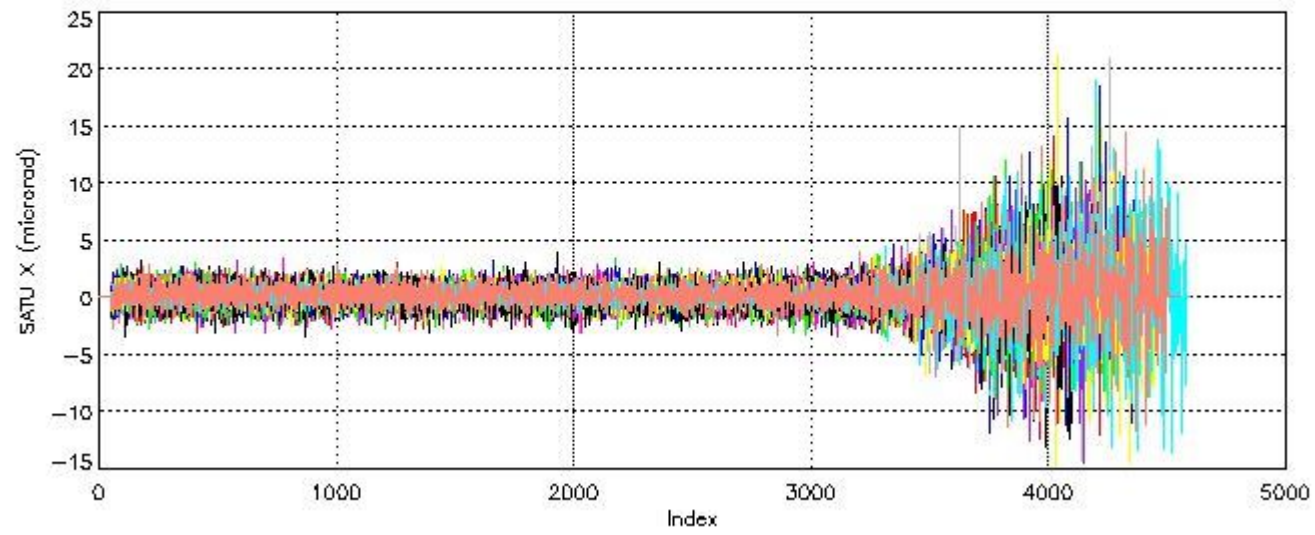


7. Star Acquisition and Tracking Unit (SATU)

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.

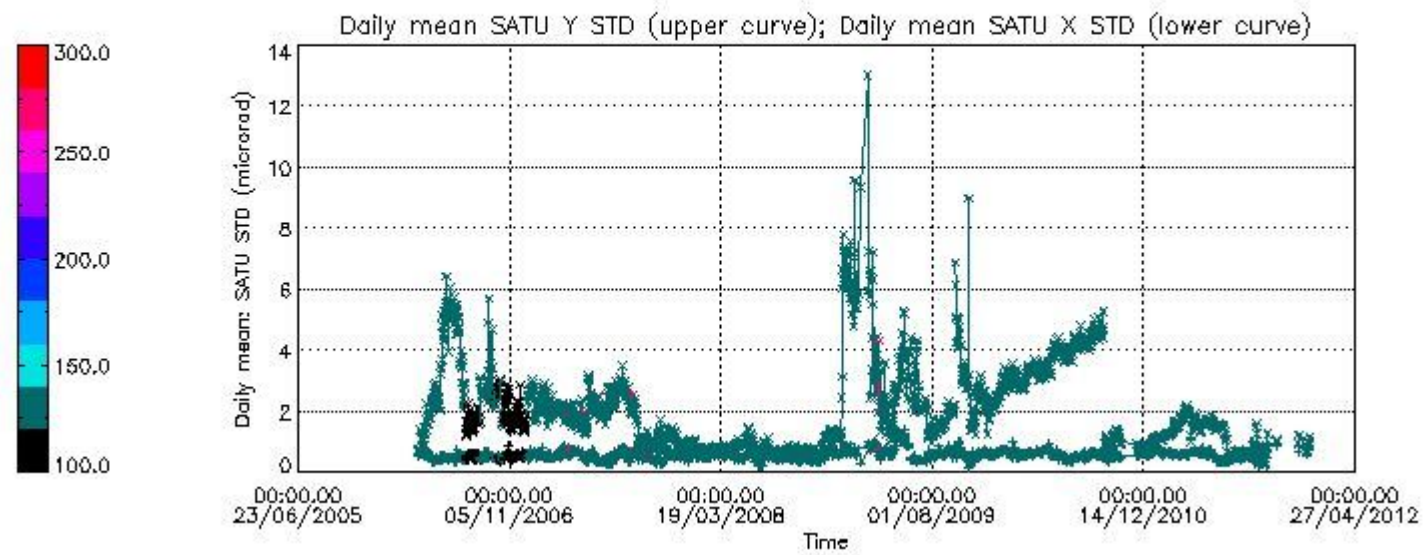
7.2.1 SATU NEA Statistics (table)

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.

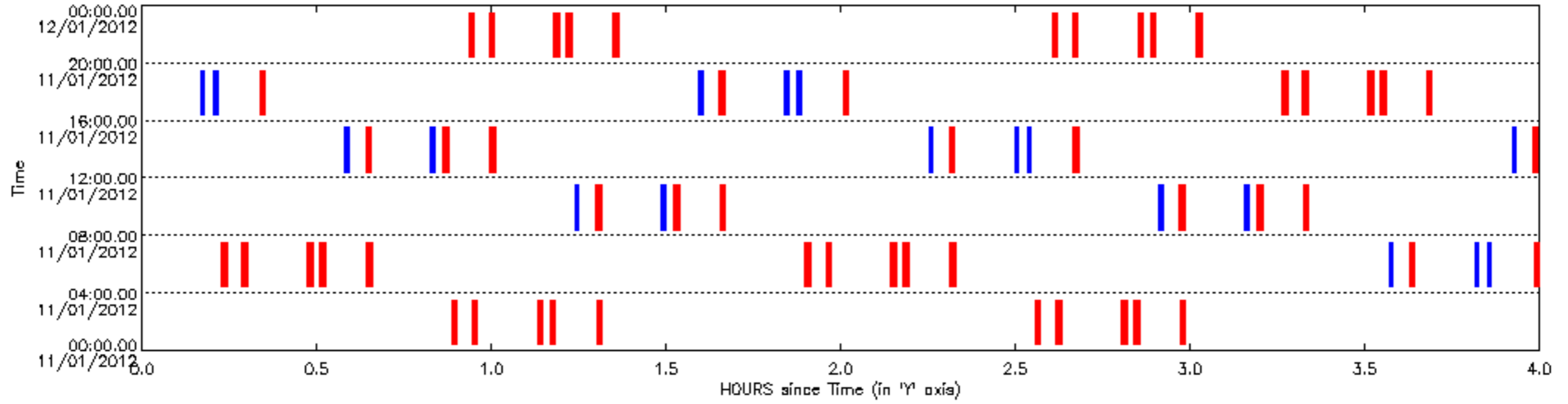
Upper curve: STD of SATU Y axis
 Lower curve: STD of SATU X axis

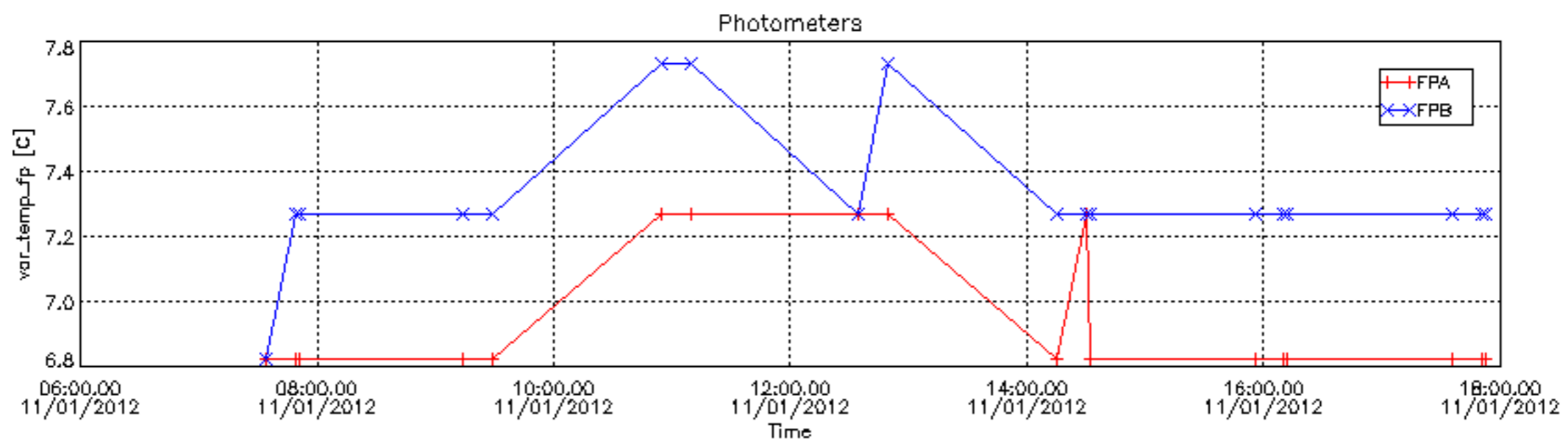
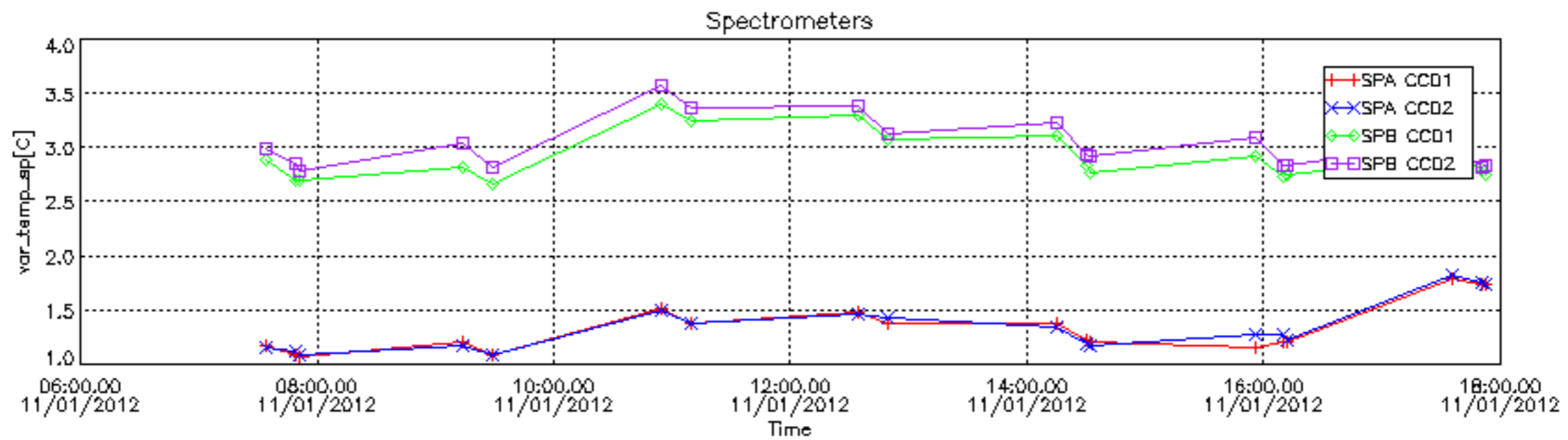


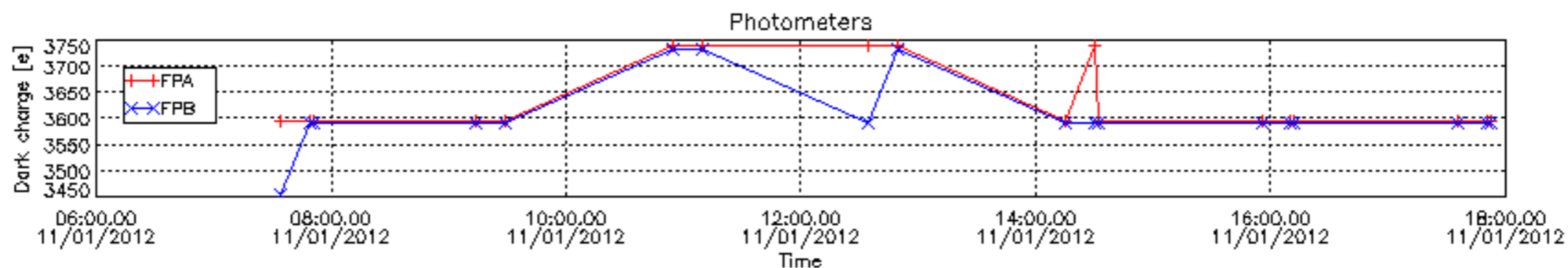
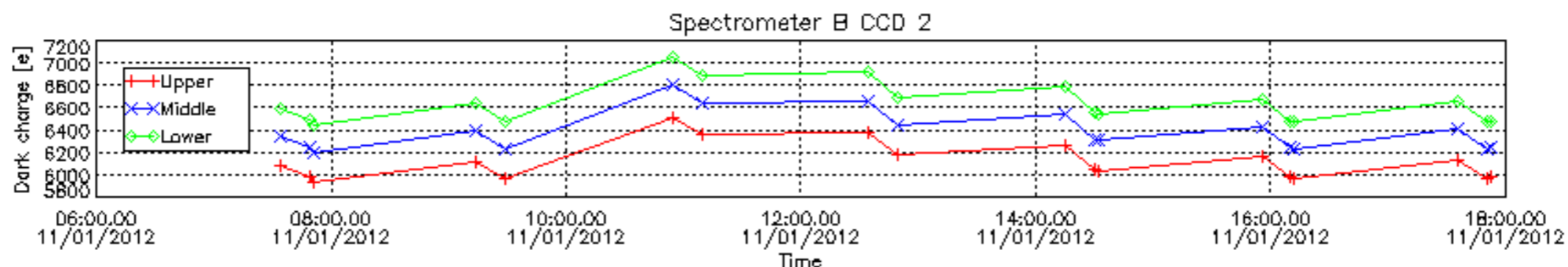
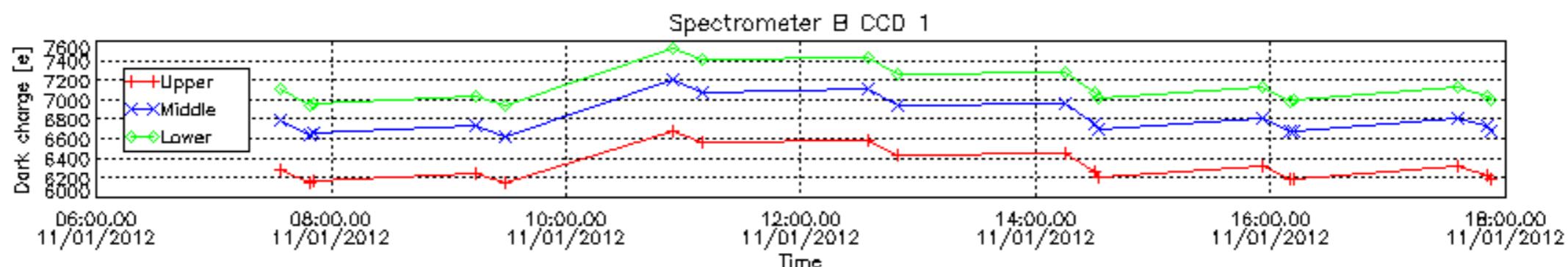
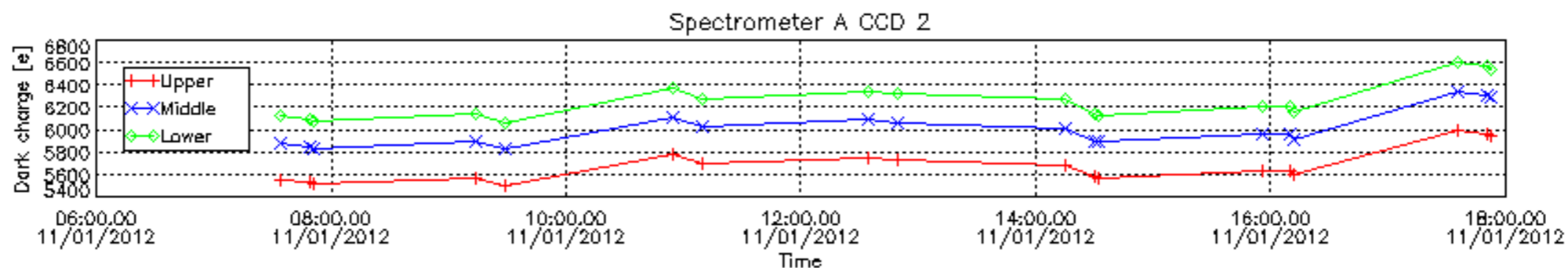
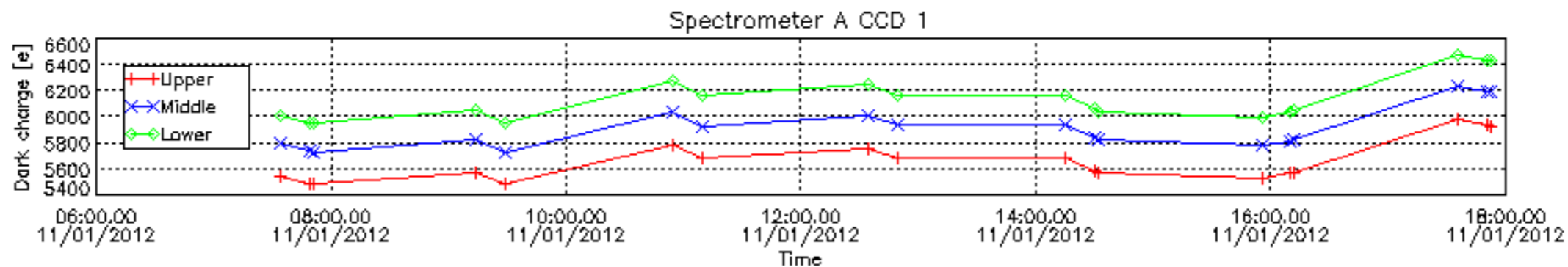
8. Auxiliary Data Files used for the production reported in section 2.4

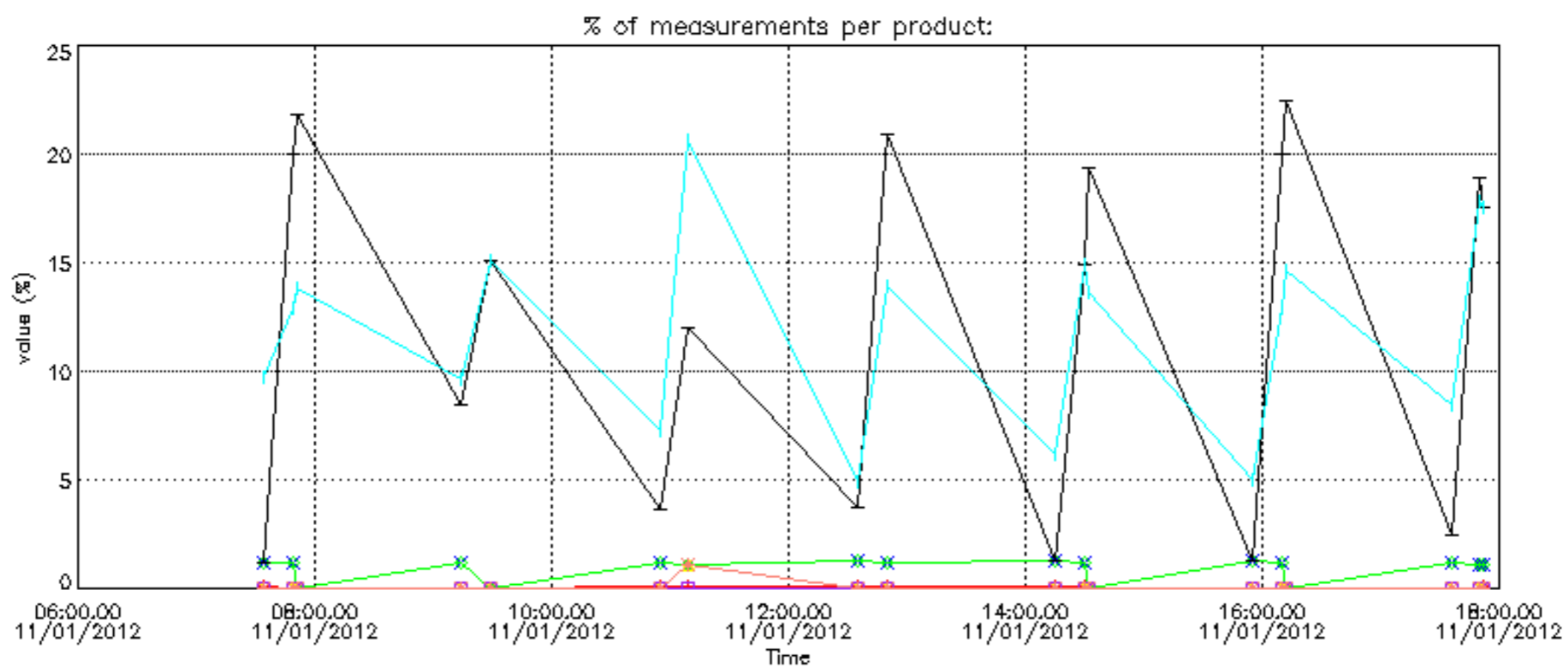
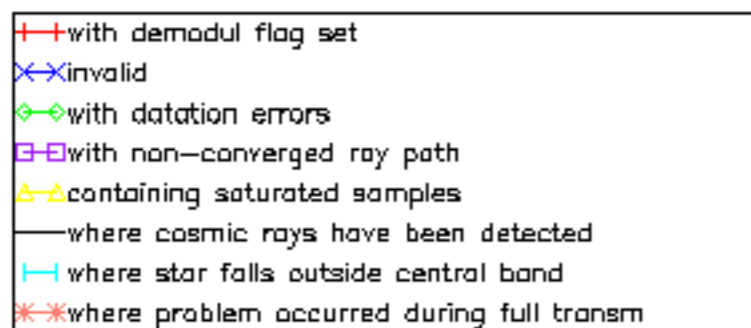
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	11-JAN-2012 07:34:05
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20111021_144853_20111020_000000_20500101_000000	1	11-JAN-2012 07:34:05
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	11-JAN-2012 07:34:05
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-JAN-2012 07:34:05
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	11-JAN-2012 07:34:05
ECMWF_FILE	AUX_ECA_AXNECM20120111_062113_20120110_210000_20120111_090000	1	11-JAN-2012 07:34:05
ECMWF_FILE	AUX_ECF_AXNECM20120111_062113_20120111_090000_20120111_210000	4	11-JAN-2012 09:14:19
ECMWF_FILE	AUX_ECF_AXNECM20120111_062113_20120111_150000_20120112_030000	13	11-JAN-2012 15:55:18
ECMWF_FILE	AUX_ECA_AXNECM20120111_182721_20120111_090000_20120111_210000	18	11-JAN-2012 17:52:24
OPTIONAL_ECMWF_FILE	MISSING	1	11-JAN-2012 07:34:05
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120110_232344_20120110_195049_20120120_202416	1	11-JAN-2012 07:34:05

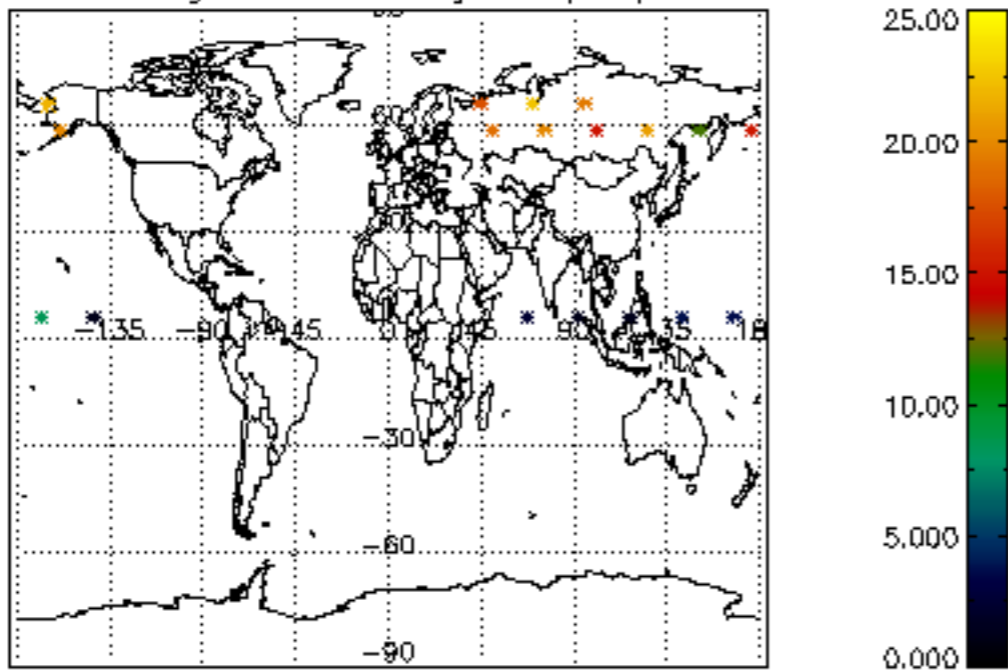




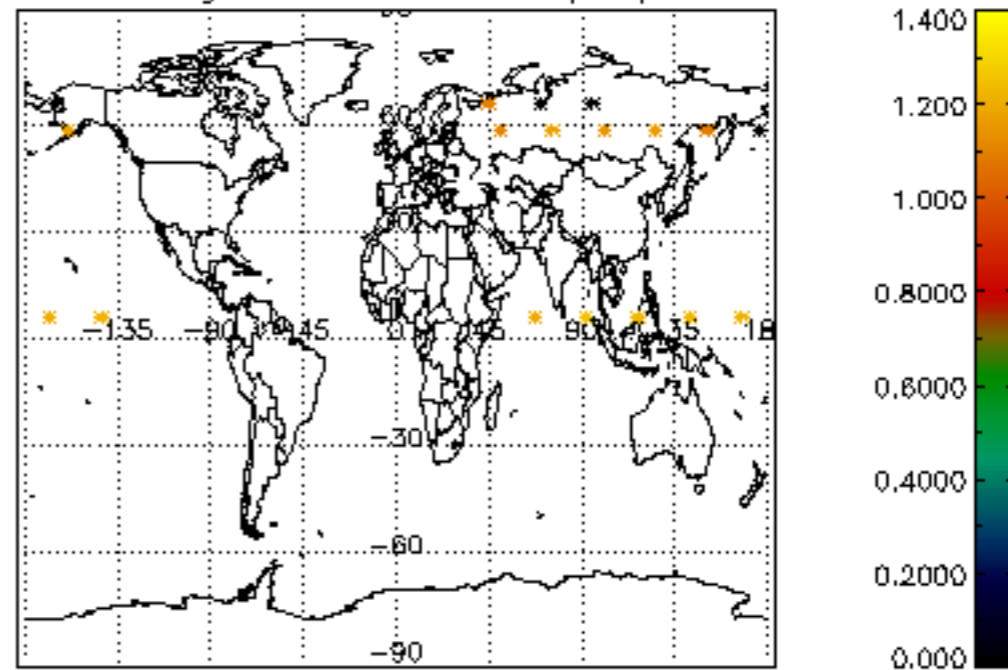




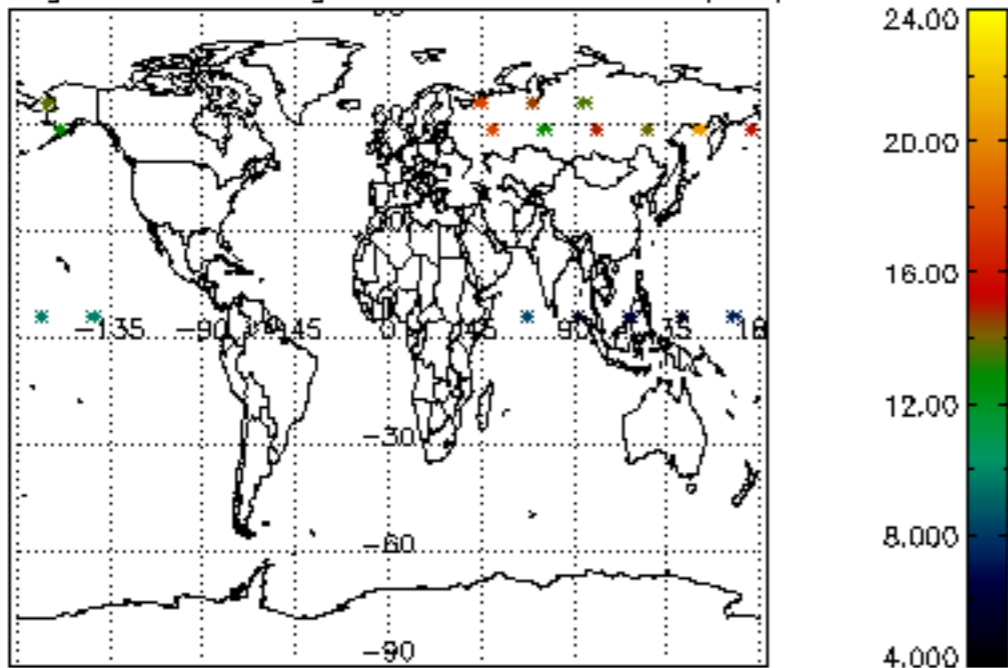
Percentage of cosmic ray hits per profile



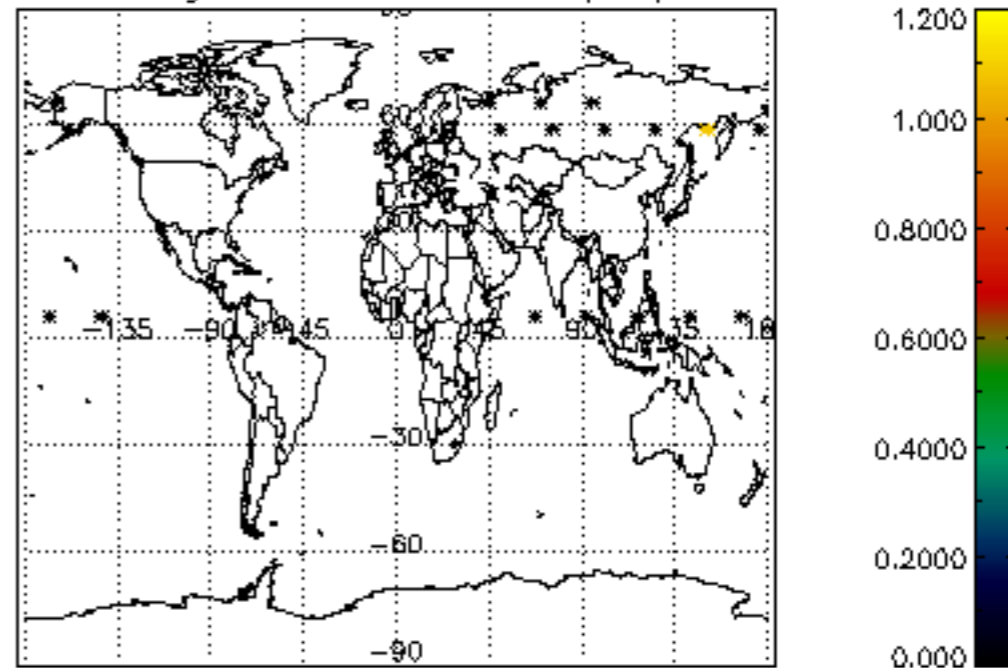
Percentage of datation errors per profile



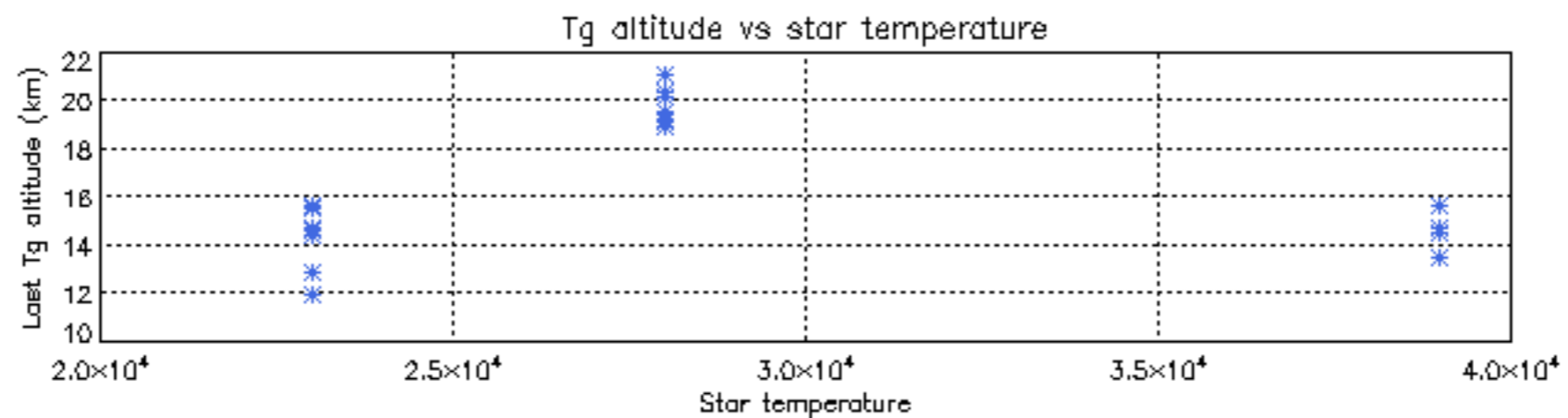
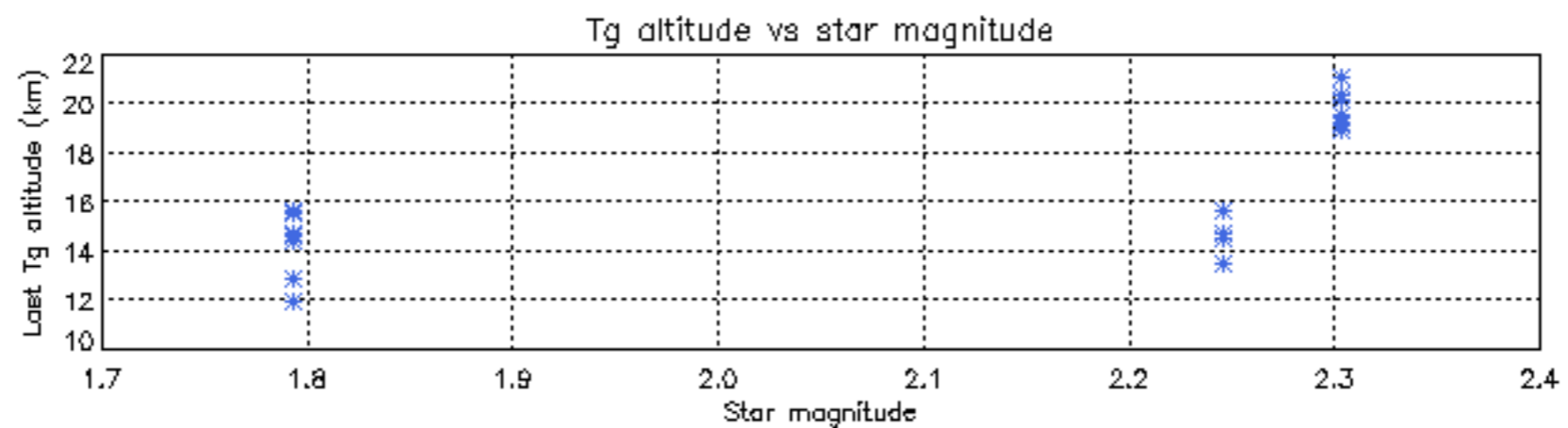
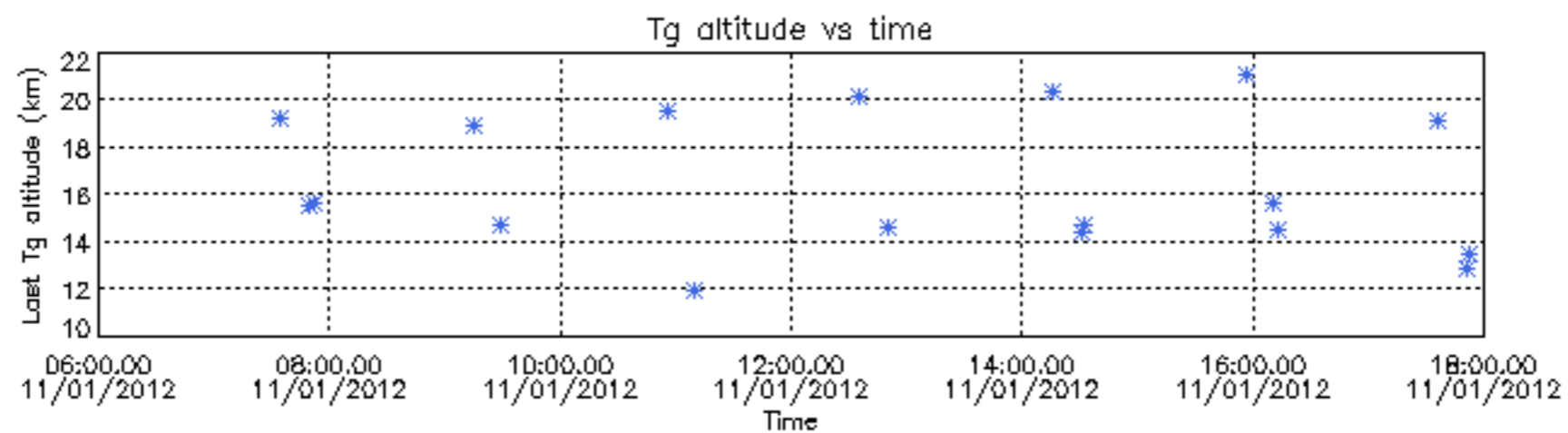
Percentage of star falling outside central band per profile

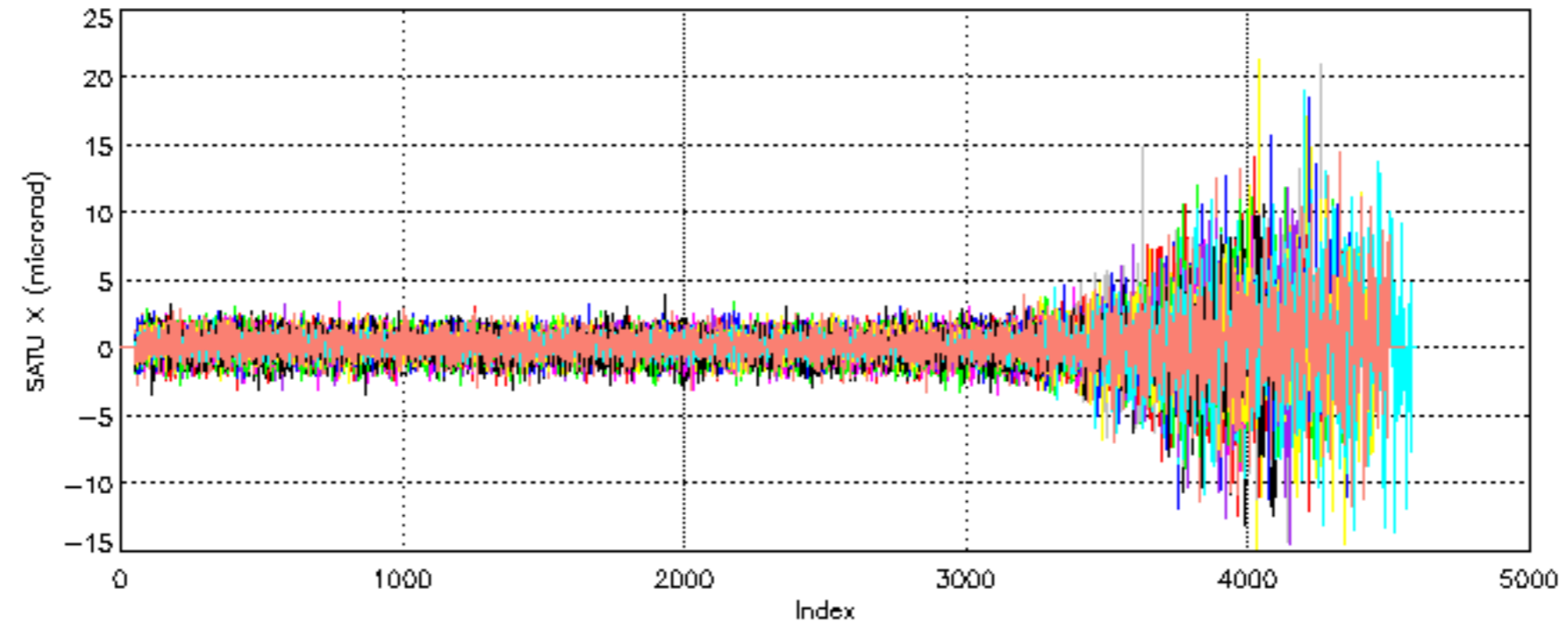


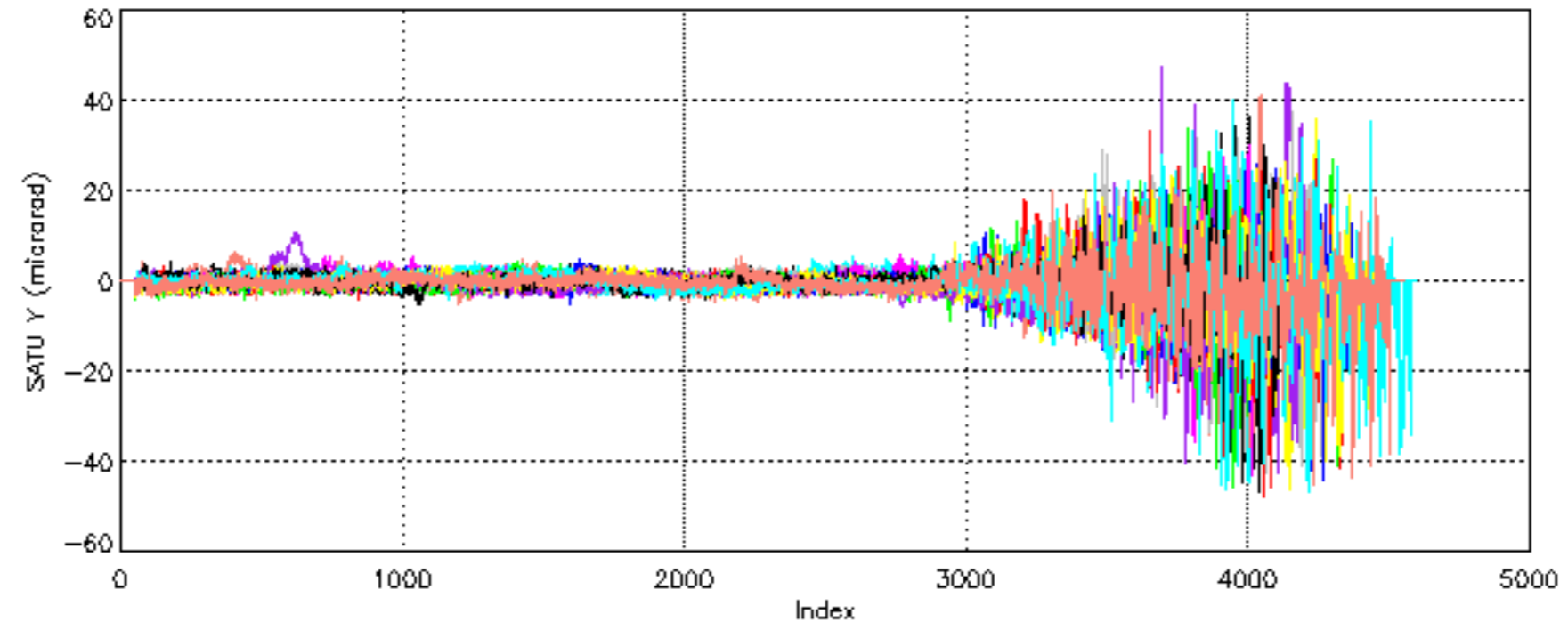
Percentage of saturation errors per profile

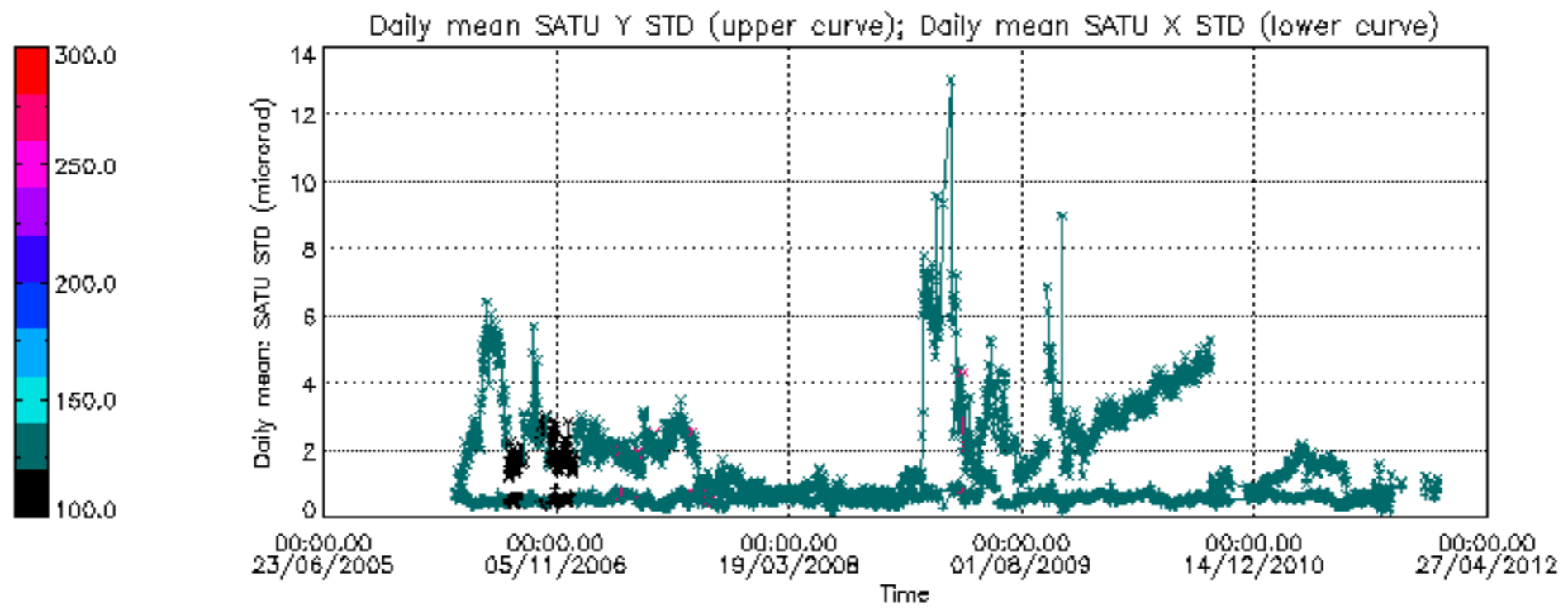


Tangent altitude at which the star is lost









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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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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; 1053.4; 27-JAN-2012 13:04:06; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;51834
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120127_142410_000012573111_00096_51834_5589.N1
1; -156.9; 27-JAN-2012 14:24:10; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;51834
2; 1053.9; 27-JAN-2012 14:44:20; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;51835
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120127_160424_000012583111_00097_51835_5590.N1
1; -156.1; 27-JAN-2012 16:04:24; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;51835
2; 1054.2; 27-JAN-2012 16:24:35; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;51836
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120127_174439_000012563111_00098_51836_5591.N1
1; -155.4; 27-JAN-2012 17:44:39; Dark ; 44.0; 131; Gam Lup ; 2.80; 26000;occ; 88; 0;51836
2; 1054.6; 27-JAN-2012 18:04:49; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;51837
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120127_180449_000048463111_00099_51837_5592.N1
1; 1054.6; 27-JAN-2012 18:04:49; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;51837
2; 5859.2; 27-JAN-2012 19:24:54; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;51837