

GOMOS Daily Report 01-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	04MAR2012 07:01:14
Data source version	GOMOS/6.01
Start time of products	01MAR2012 00:26:53
Stop time of products	01MAR2012 23:50:16
Store outputs in DB	Yes
Nb of level 1b prods	34
Nb of prods with errors	0

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

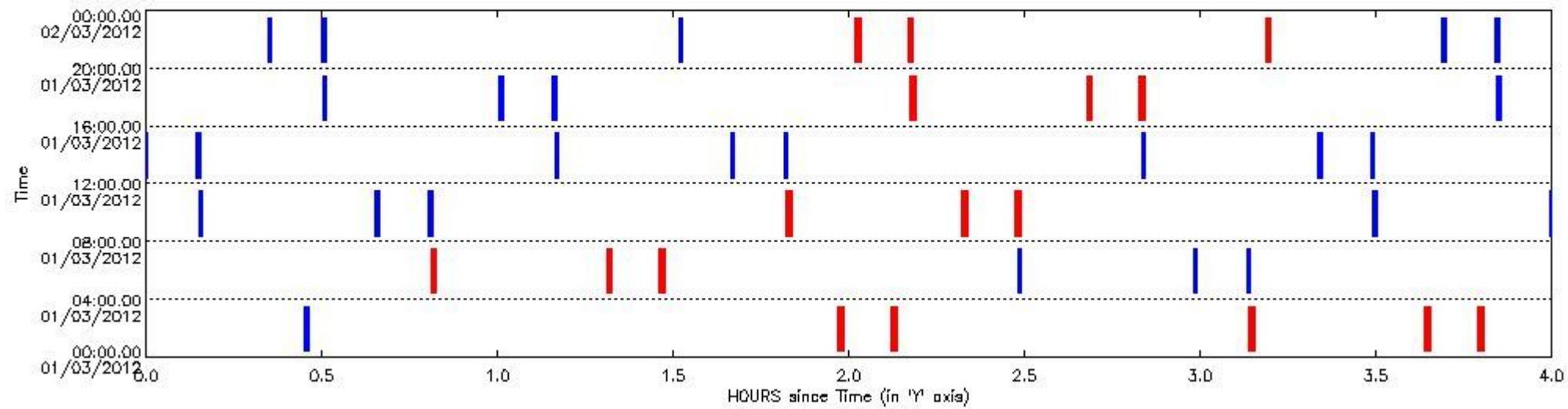
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

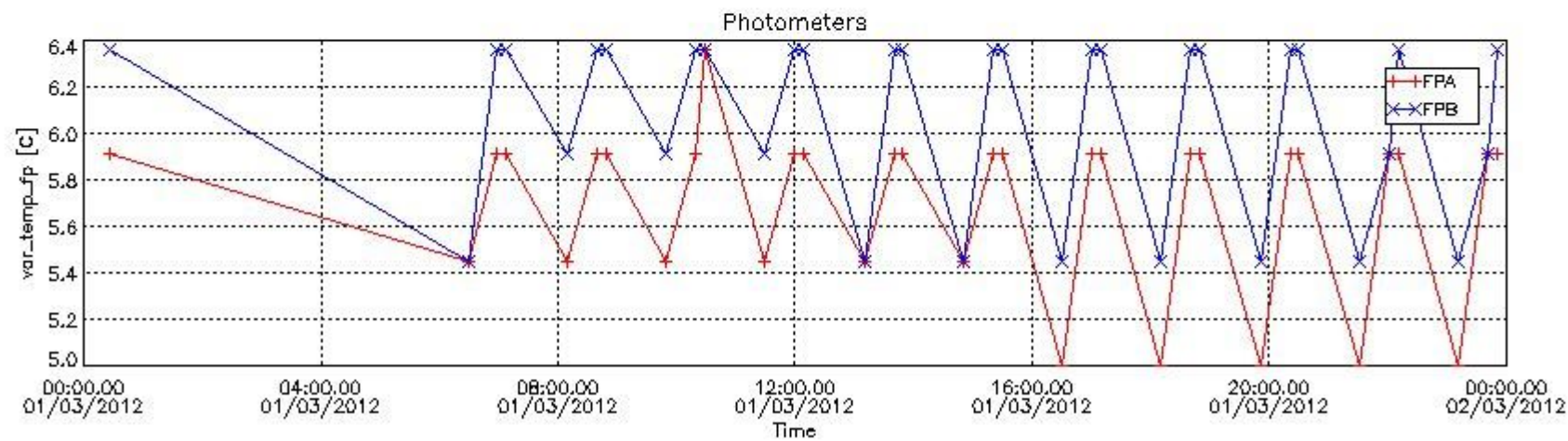
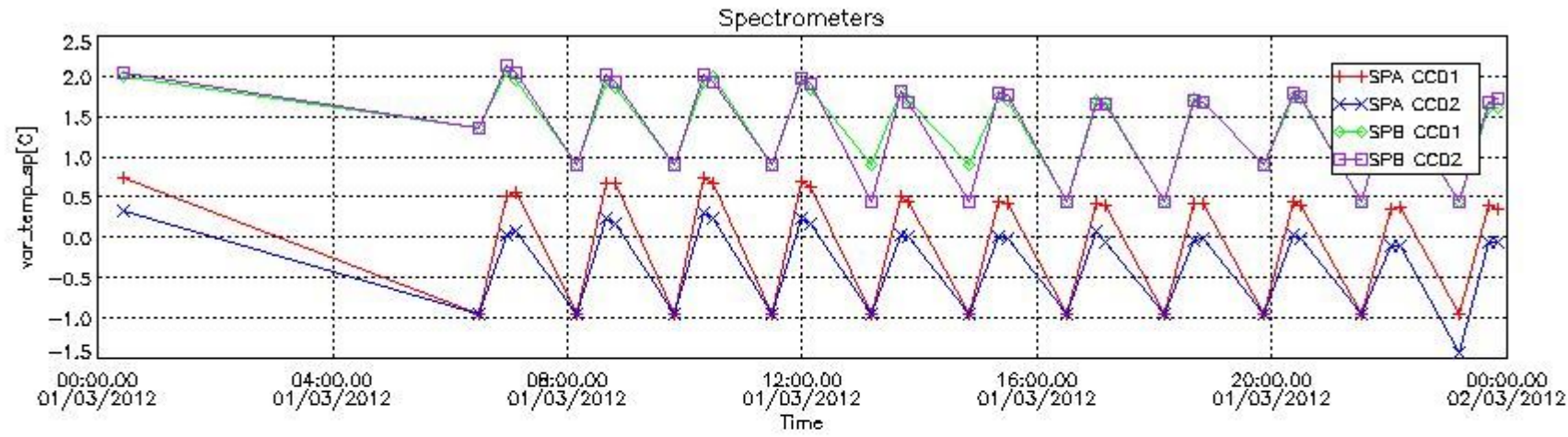
UTC start time	Star name	Star ID	Orbit
01-MAR-2012 01:58:04	AlpAra	147	52329
01-MAR-2012 02:07:08	BetCen	10	52329
01-MAR-2012 03:08:18	18DelCyg	144	52329
01-MAR-2012 03:38:19	AlpAra	147	52330
01-MAR-2012 03:47:22	BetCen	10	52330
01-MAR-2012 04:48:32	18DelCyg	144	52330
01-MAR-2012 05:18:33	AlpAra	147	52331
01-MAR-2012 05:27:37	BetCen	10	52331
01-MAR-2012 09:49:14	18DelCyg	144	52333
01-MAR-2012 10:19:17	AlpAra	147	52334
01-MAR-2012 10:28:20	BetCen	10	52334
01-MAR-2012 18:10:24	18DelCyg	144	52338
01-MAR-2012 18:40:30	AlpAra	147	52339
01-MAR-2012 18:49:33	BetCen	10	52339
01-MAR-2012 22:00:59	AlpAra	147	52341

01-MAR-2012 22: 10:02	BetCen	10	52341
01-MAR-2012 23: 11:06	18DelCyg	144	52341

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_1PNPDE20120301_002653_000000473112_00146_52315_3781.N1	01-MAR-2012 00:26:53	Dark	46.500	10	Bet Cen	0.61000	28000.	93	52315	No
2	GOM_TRA_1PNPDK20120301_062846_000000363112_00149_52318_8465.N1	01-MAR-2012 06:28:46	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	52318	No
3	GOM_TRA_1PNPDK20120301_065848_000000413112_00149_52318_8466.N1	01-MAR-2012 06:58:48	Dark	41.000	147	Alp Ara	2.8770	26000.	82	52318	No
4	GOM_TRA_1PNPDK20120301_070752_000000423112_00150_52319_8467.N1	01-MAR-2012 07:07:52	Dark	41.500	10	Bet Cen	0.61000	28000.	83	52319	No
5	GOM_TRA_1PNPDK20120301_080901_000000363112_00150_52319_8515.N1	01-MAR-2012 08:09:01	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	52319	No
6	GOM_TRA_1PNPDK20120301_083904_000000403112_00150_52319_8516.N1	01-MAR-2012 08:39:04	Dark	40.000	147	Alp Ara	2.8770	26000.	80	52319	No
7	GOM_TRA_1PNPDK20120301_084807_000000443112_00151_52320_8517.N1	01-MAR-2012 08:48:07	Dark	44.000	10	Bet Cen	0.61000	28000.	88	52320	No
8	GOM_TRA_1PNPDK20120301_094915_000000363112_00151_52320_8547.N1	01-MAR-2012 09:49:15	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	52320	No
9	GOM_TRA_1PNPDK20120301_101918_000000393112_00151_52320_8548.N1	01-MAR-2012 10:19:18	Dark	38.500	147	Alp Ara	2.8770	26000.	77	52320	No
10	GOM_TRA_1PNPDK20120301_102822_000000483112_00152_52321_8549.N1	01-MAR-2012 10:28:22	Dark	48.000	10	Bet Cen	0.61000	28000.	96	52321	No
11	GOM_TRA_1PNPDK20120301_112928_000000373112_00152_52321_8587.N1	01-MAR-2012 11:29:28	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	52321	No
12	GOM_TRA_1PNPDK20120301_115932_000000413112_00152_52321_8588.N1	01-MAR-2012 11:59:32	Dark	41.000	147	Alp Ara	2.8770	26000.	82	52321	No
13	GOM_TRA_1PNPDK20120301_120835_000000443112_00153_52322_8589.N1	01-MAR-2012 12:08:35	Dark	44.000	10	Bet Cen	0.61000	28000.	88	52322	No
14	GOM_TRA_1PNPDK20120301_130942_000000373112_00153_52322_8627.N1	01-MAR-2012 13:09:42	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	52322	No
15	GOM_TRA_1PNPDK20120301_133946_000000413112_00153_52322_8628.N1	01-MAR-2012 13:39:46	Dark	40.500	147	Alp Ara	2.8770	26000.	81	52322	No
16	GOM_TRA_1PNPDK20120301_134849_000000423112_00154_52323_8629.N1	01-MAR-2012 13:48:49	Dark	41.500	10	Bet Cen	0.61000	28000.	83	52323	No
17	GOM_TRA_1PNPDK20120301_144956_000000413112_00154_52323_8676.N1	01-MAR-2012 14:49:56	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	52323	No
18	GOM_TRA_1PNPDK20120301_152001_000000413112_00154_52323_8677.N1	01-MAR-2012 15:20:01	Dark	41.000	147	Alp Ara	2.8770	26000.	82	52323	No
19	GOM_TRA_1PNPDK20120301_152904_000000423112_00155_52324_8678.N1	01-MAR-2012 15:29:04	Dark	41.500	10	Bet Cen	0.61000	28000.	83	52324	No
20	GOM_TRA_1PNPDK20120301_163010_000000373112_00155_52324_8724.N1	01-MAR-2012 16:30:10	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	52324	No
21	GOM_TRA_1PNPDK20120301_170016_000000423112_00155_52324_8725.N1	01-MAR-2012 17:00:16	Dark	41.500	147	Alp Ara	2.8770	26000.	83	52324	No
22	GOM_TRA_1PNPDK20120301_170918_000000433112_00156_52325_8726.N1	01-MAR-2012 17:09:18	Dark	43.000	10	Bet Cen	0.61000	28000.	86	52325	No
23	GOM_TRA_1PNPDK20120301_181024_000000363112_00156_52325_8743.N1	01-MAR-2012 18:10:24	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	52325	No
24	GOM_TRA_1PNPDK20120301_184030_000000403112_00156_52325_8744.N1	01-MAR-2012 18:40:30	Dark	39.500	147	Alp Ara	2.8770	26000.	79	52325	No
25	GOM_TRA_1PNPDK20120301_184933_000000533112_00157_52326_8745.N1	01-MAR-2012 18:49:33	Dark	52.500	10	Bet Cen	0.61000	28000.	105	52326	No
26	GOM_TRA_1PNPDK20120301_195038_000000363112_00157_52326_8794.N1	01-MAR-2012 19:50:38	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	52326	No
27	GOM_TRA_1PNPDK20120301_202045_000000413112_00157_52326_8795.N1	01-MAR-2012 20:20:45	Dark	41.000	147	Alp Ara	2.8770	26000.	82	52326	No
28	GOM_TRA_1PNPDK20120301_202948_000000473112_00158_52327_8796.N1	01-MAR-2012 20:29:48	Dark	47.000	10	Bet Cen	0.61000	28000.	94	52327	No
29	GOM_TRA_1PNPDE20120301_213052_000000363112_00158_52327_3958.N1	01-MAR-2012 21:30:52	Bright	35.500	144	18Del Cyg	2.8600	11000.	71	52327	No
30	GOM_TRA_1PNPDE20120301_220059_000000433112_00158_52327_3992.N1	01-MAR-2012 22:00:59	Dark	42.500	147	Alp Ara	2.8770	26000.	85	52327	No
31	GOM_TRA_1PNPDE20120301_221002_000000473112_00159_52328_3993.N1	01-MAR-2012 22:10:02	Dark	46.500	10	Bet Cen	0.61000	28000.	93	52328	No
32	GOM_TRA_1PNPDE20120301_231106_000000363112_00159_52328_3994.N1	01-MAR-2012 23:11:06	Bright	36.000	144	18Del Cyg	2.8600	11000.	72	52328	No
33	GOM_TRA_1PNPDE20120301_234114_000000423112_00159_52328_4020.N1	01-MAR-2012 23:41:14	Dark	41.500	147	Alp Ara	2.8770	26000.	83	52328	No
34	GOM_TRA_1PNPDE20120301_235016_000000433112_00160_52329_4021.N1	01-MAR-2012 23:50:16	Dark	42.500	10	Bet Cen	0.61000	28000.	85	52329	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).

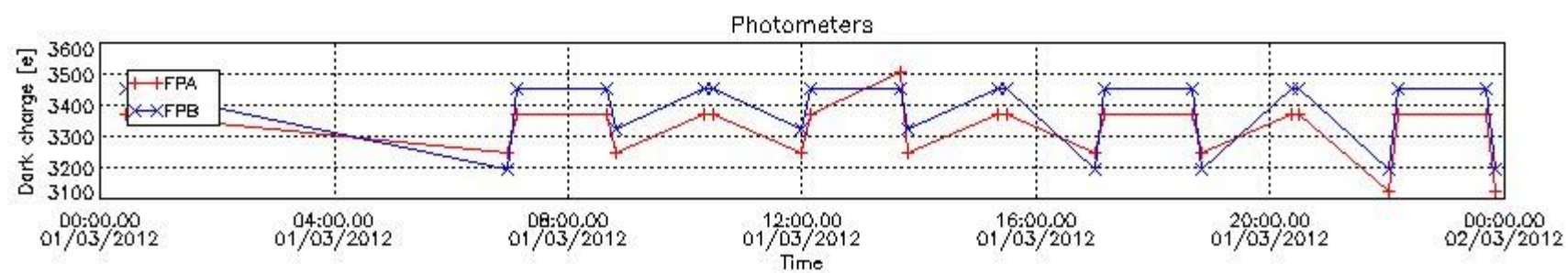
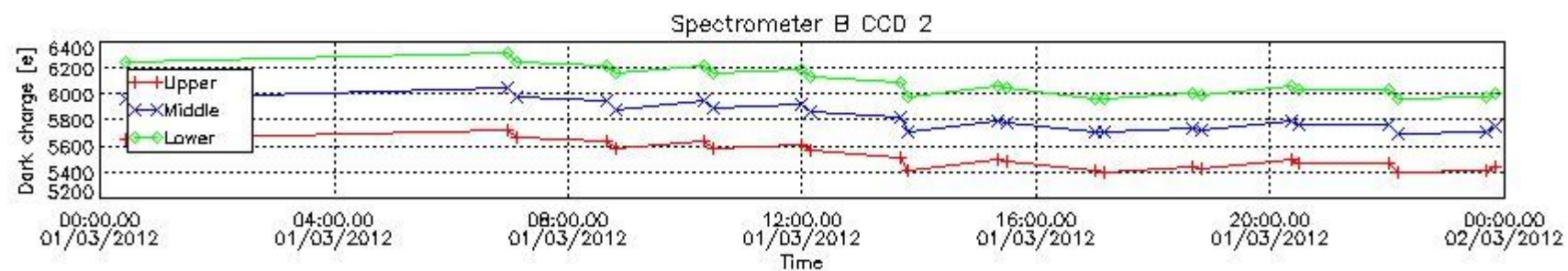
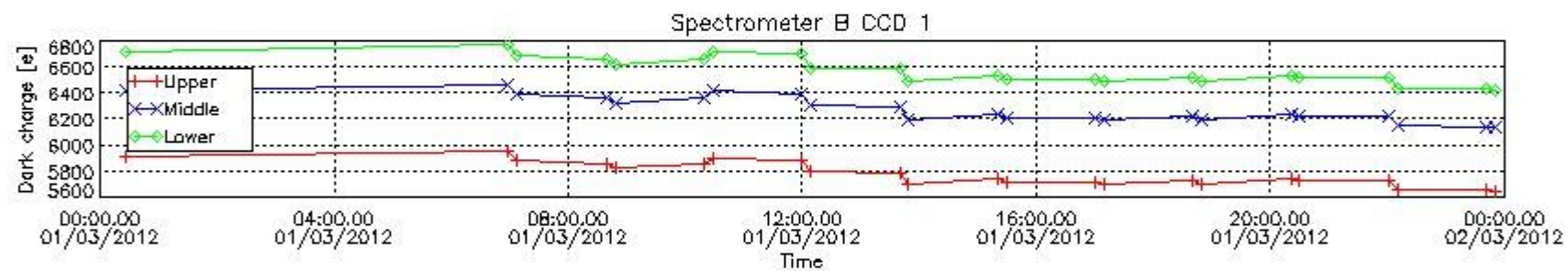
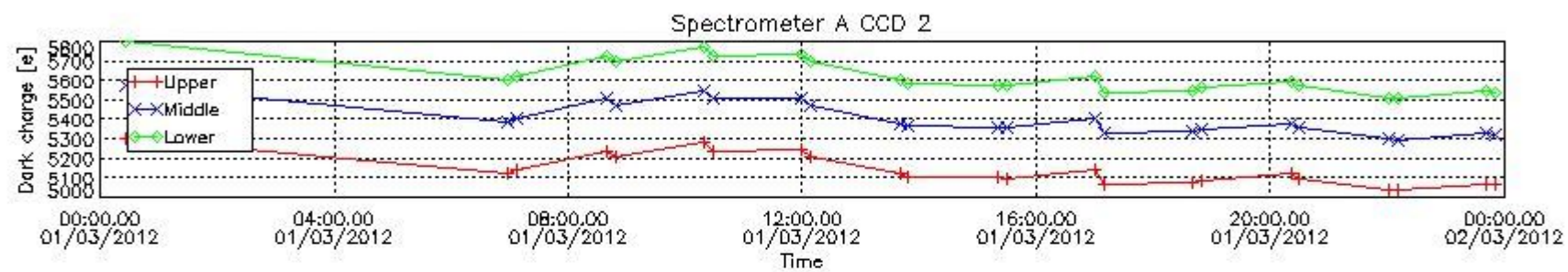
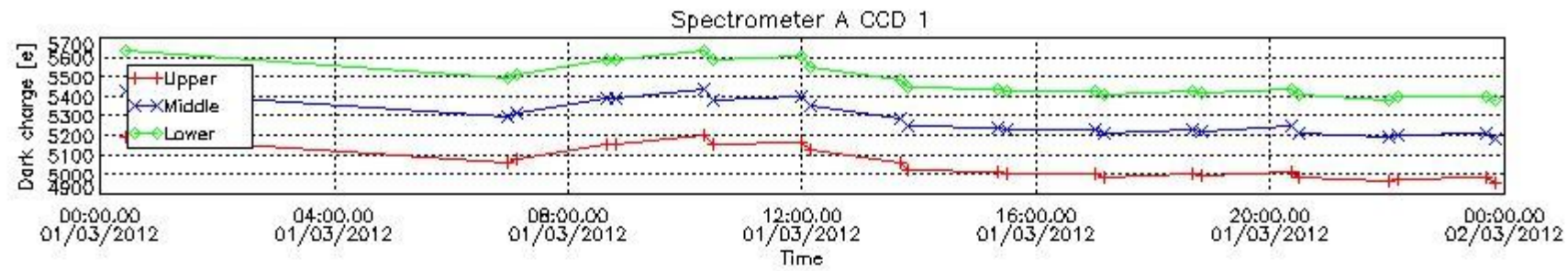
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20120301_002653_000000473112_00146_52315_3781.N1	DC map used
GOM_TRA_1PNPDK20120301_062846_000000363112_00149_52318_8465.N1	DC map used
GOM_TRA_1PNPDK20120301_065848_000000413112_00149_52318_8466.N1	DC map used
GOM_TRA_1PNPDK20120301_070752_000000423112_00150_52319_8467.N1	DC map used
GOM_TRA_1PNPDK20120301_080901_000000363112_00150_52319_8515.N1	DC map used
GOM_TRA_1PNPDK20120301_083904_000000403112_00150_52319_8516.N1	DC map used
GOM_TRA_1PNPDK20120301_084807_000000443112_00151_52320_8517.N1	DC map used
GOM_TRA_1PNPDK20120301_094915_000000363112_00151_52320_8547.N1	DC map used
GOM_TRA_1PNPDK20120301_101918_000000393112_00151_52320_8548.N1	DC map used
GOM_TRA_1PNPDK20120301_102822_000000483112_00152_52321_8549.N1	DC map used
GOM_TRA_1PNPDK20120301_112928_000000373112_00152_52321_8587.N1	DC map used
GOM_TRA_1PNPDK20120301_115932_000000413112_00152_52321_8588.N1	DC map used
GOM_TRA_1PNPDK20120301_120835_000000443112_00153_52322_8589.N1	DC map used
GOM_TRA_1PNPDK20120301_130942_000000373112_00153_52322_8627.N1	DC map used

GOM_TRA_1PNPDK20120301_133946_000000413112_00153_52322_8628.N1	DC map used
GOM_TRA_1PNPDK20120301_134849_000000423112_00154_52323_8629.N1	DC map used
GOM_TRA_1PNPDK20120301_144956_000000413112_00154_52323_8676.N1	DC map used
GOM_TRA_1PNPDK20120301_152001_000000413112_00154_52323_8677.N1	DC map used
GOM_TRA_1PNPDK20120301_152904_000000423112_00155_52324_8678.N1	DC map used
GOM_TRA_1PNPDK20120301_163010_000000373112_00155_52324_8724.N1	DC map used
GOM_TRA_1PNPDK20120301_170016_000000423112_00155_52324_8725.N1	DC map used
GOM_TRA_1PNPDK20120301_170918_000000433112_00156_52325_8726.N1	DC map used
GOM_TRA_1PNPDK20120301_181024_000000363112_00156_52325_8743.N1	DC map used
GOM_TRA_1PNPDK20120301_184030_000000403112_00156_52325_8744.N1	DC map used
GOM_TRA_1PNPDK20120301_184933_000000533112_00157_52326_8745.N1	DC map used
GOM_TRA_1PNPDK20120301_195038_000000363112_00157_52326_8794.N1	DC map used
GOM_TRA_1PNPDK20120301_202045_000000413112_00157_52326_8795.N1	DC map used
GOM_TRA_1PNPDK20120301_202948_000000473112_00158_52327_8796.N1	DC map used
GOM_TRA_1PNPDE20120301_213052_000000363112_00158_52327_3958.N1	DC map used
GOM_TRA_1PNPDE20120301_220059_000000433112_00158_52327_3992.N1	DC map used
GOM_TRA_1PNPDE20120301_221002_000000473112_00159_52328_3993.N1	DC map used
GOM_TRA_1PNPDE20120301_231106_000000363112_00159_52328_3994.N1	DC map used
GOM_TRA_1PNPDE20120301_234114_000000423112_00159_52328_4020.N1	DC map used
GOM_TRA_1PNPDE20120301_235016_000000433112_00160_52329_4021.N1	DC map used

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



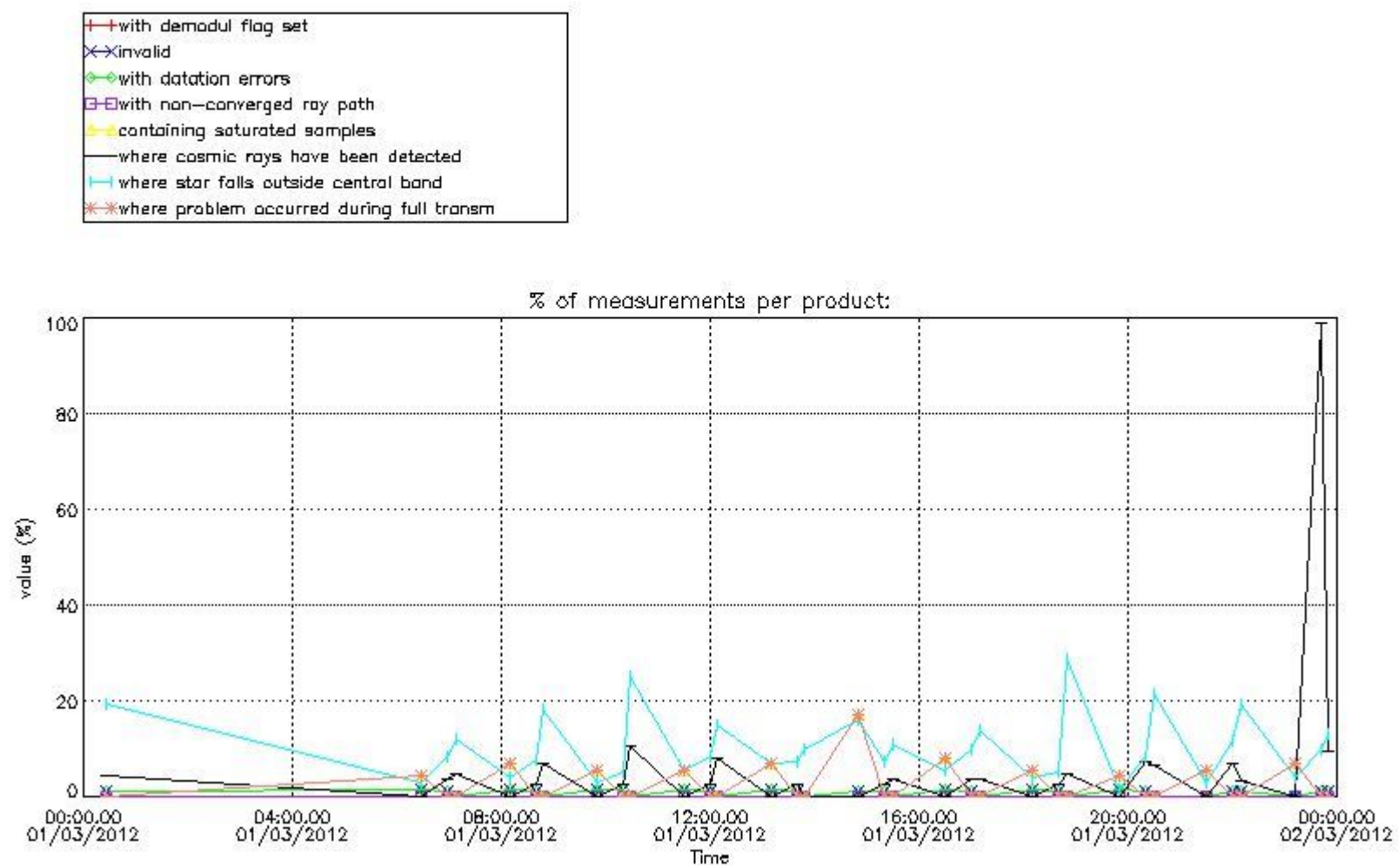
5. Demodulation flag and quality information monitoring

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.

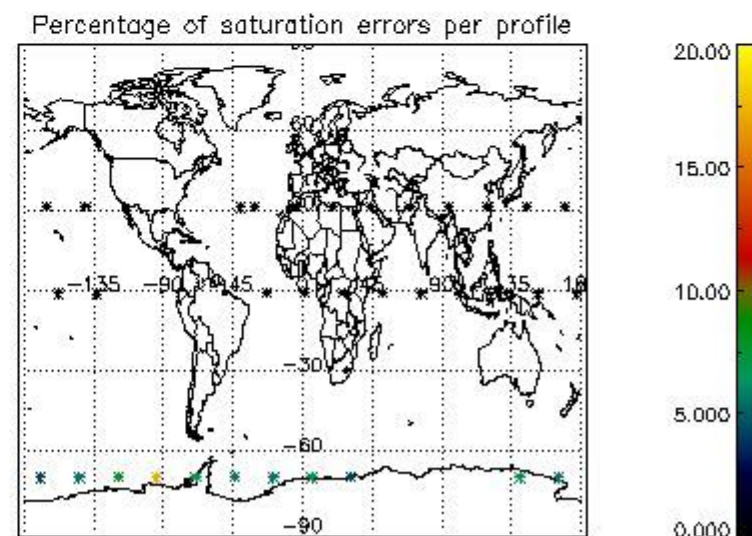
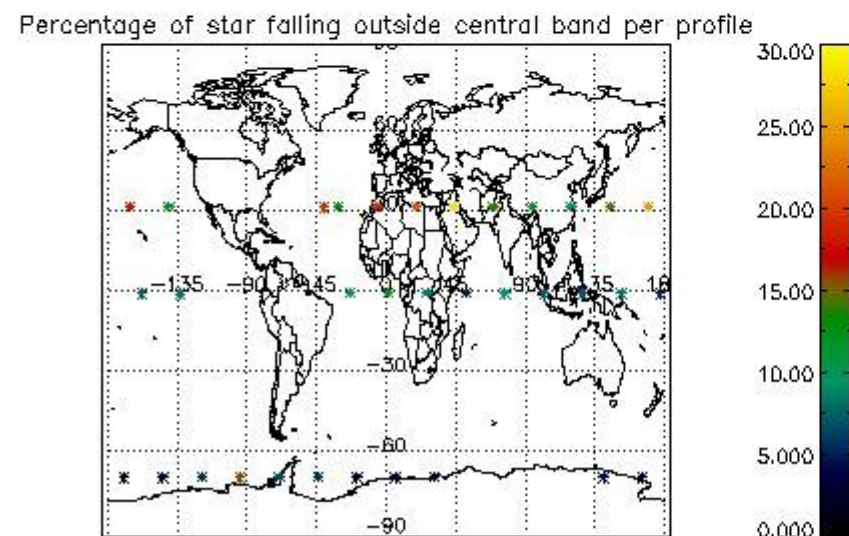
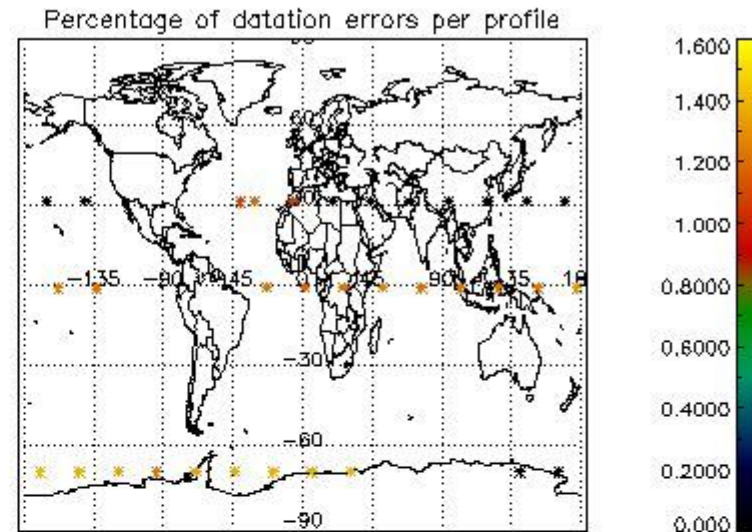
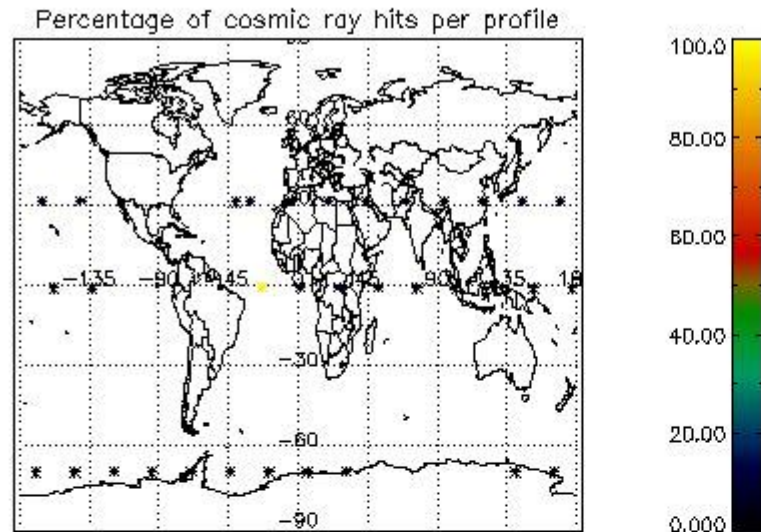
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	55.8824 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	32.3529 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



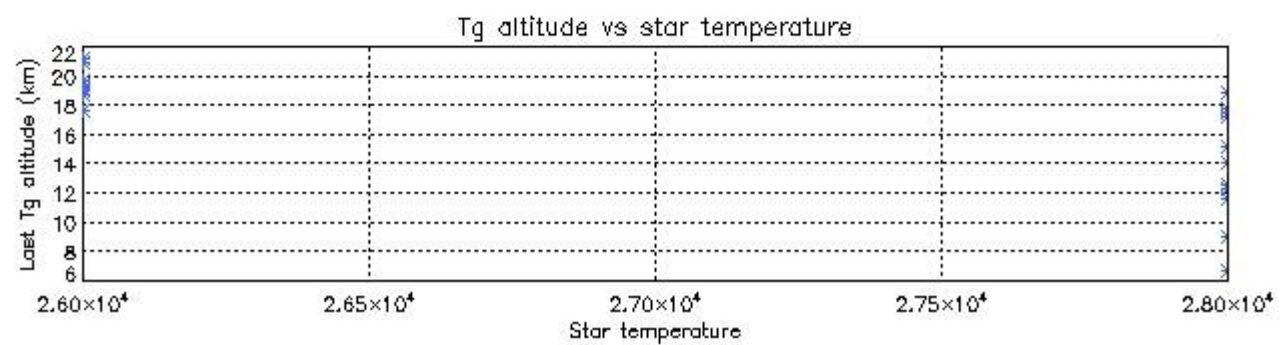
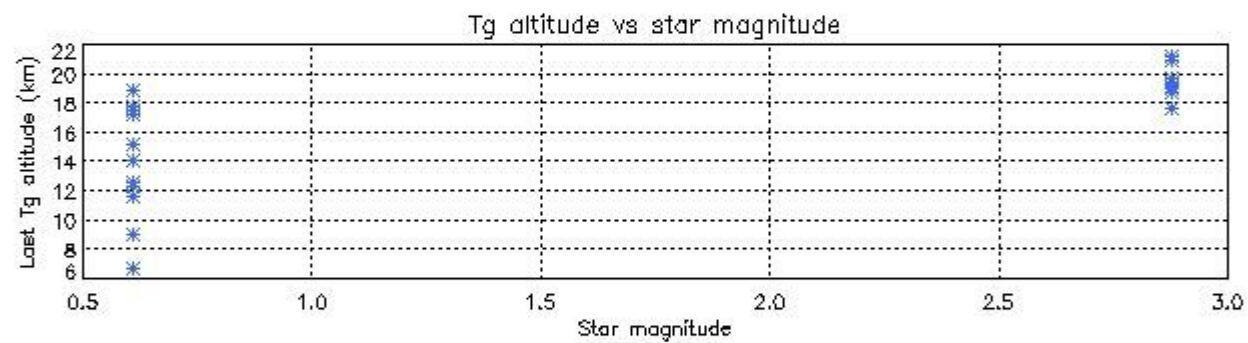
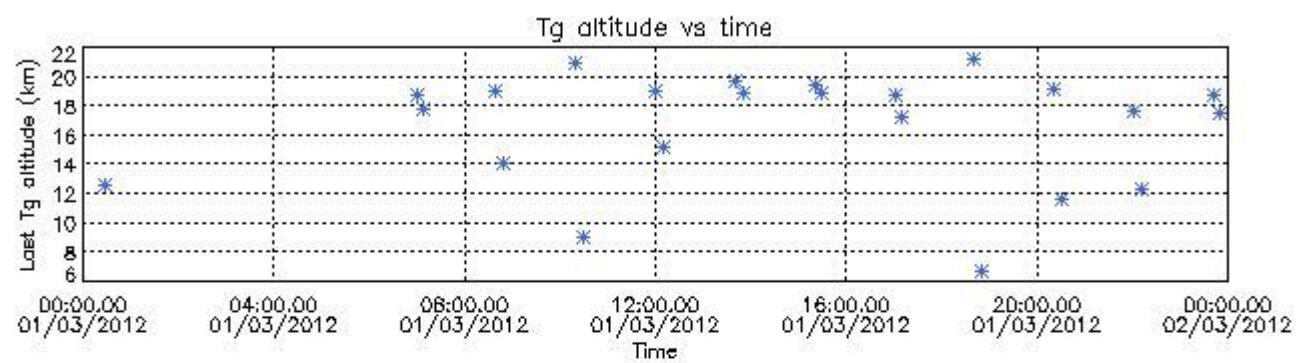
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.679	22.721	NaN
St. deviation:	3.8564	2.7773	NaN
Maximum:	21.210	25.072	NaN
Minimum:	6.6161	15.092	NaN
Number of data:	23.000	11.000	NaN

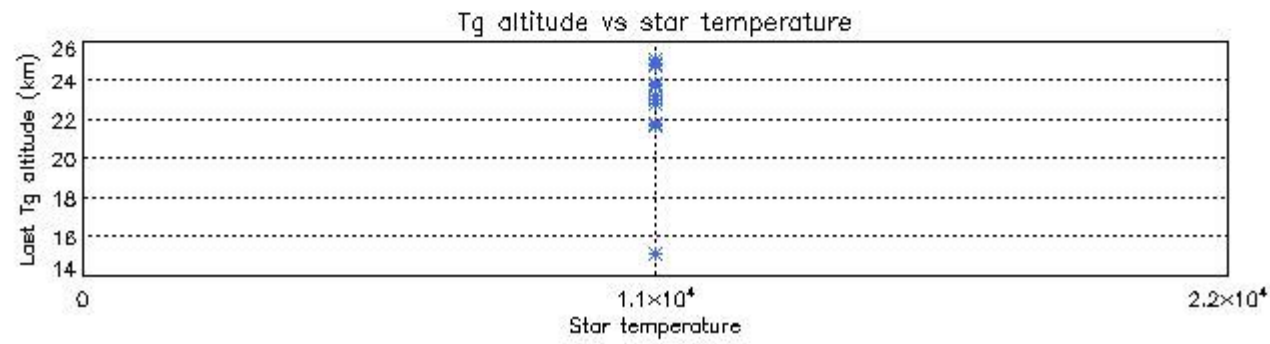
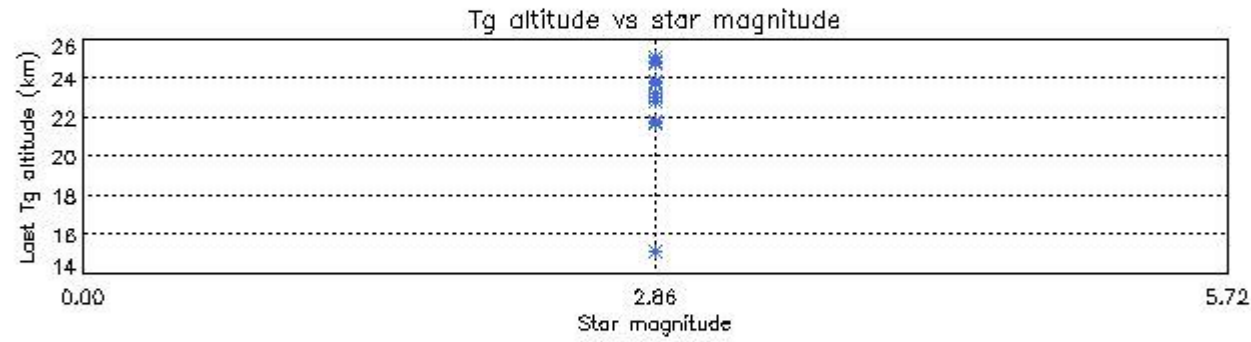
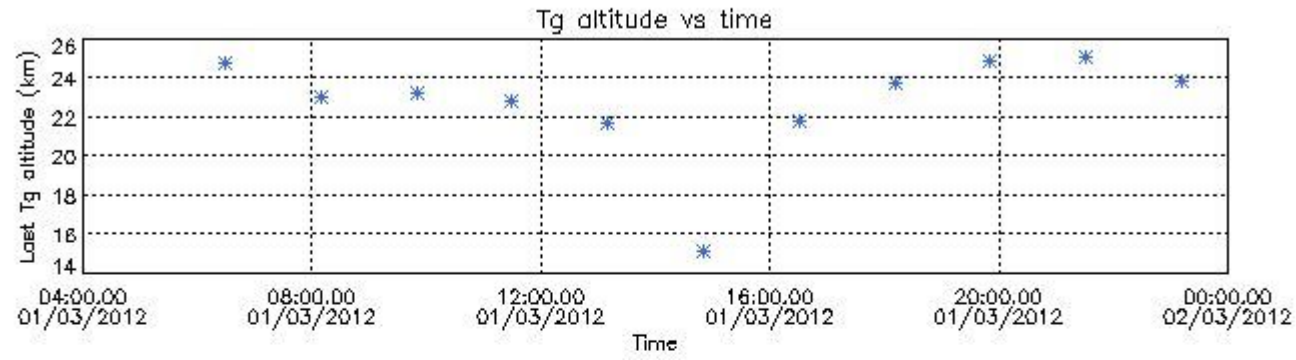
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

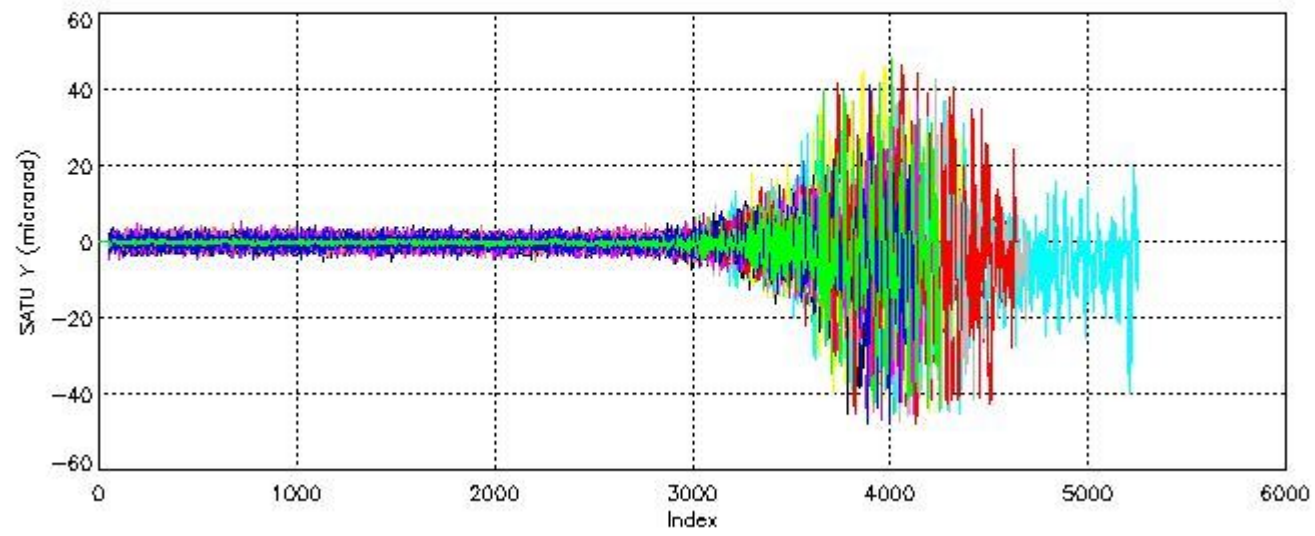
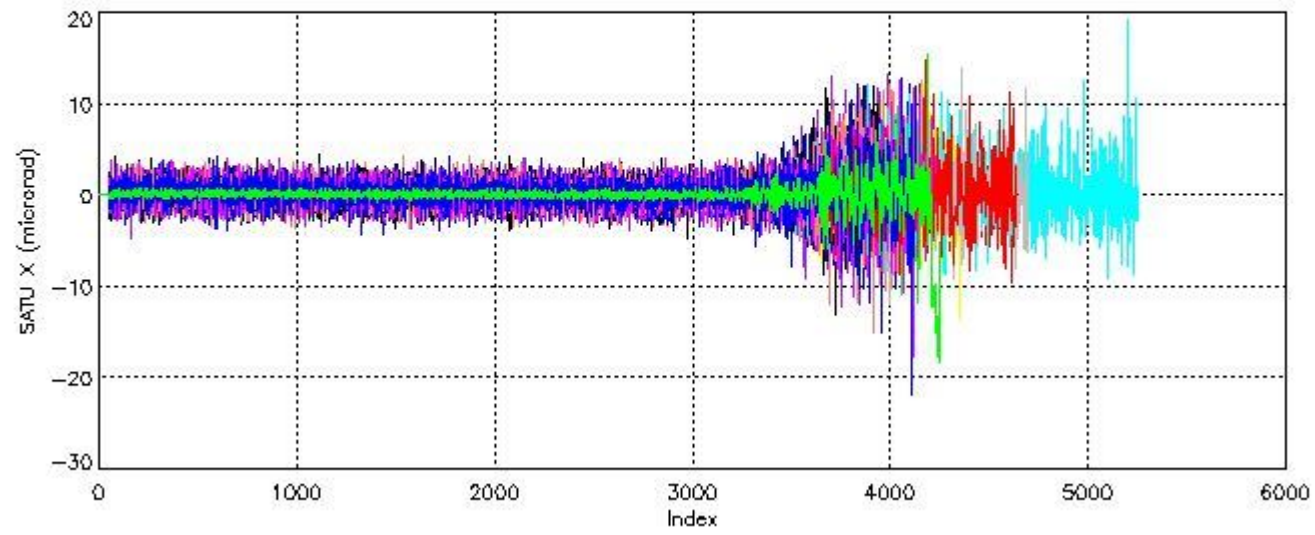


7. Star Acquisition and Tracking Unit (SATU)

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:	0.15025	-0.21975	0.073540	-0.18862
St. deviation:	0.65151	0.77834	1.4770	1.7067
Maximum:	4.3000	5.4000	5.1000	6.4000
Minimum:	-4.7000	-4.6000	-6.6000	-6.6000

Number of data:	21850.	21850.	9350.0	9350.0
90Percentile:	1.1000	0.80000	2.0000	2.0000

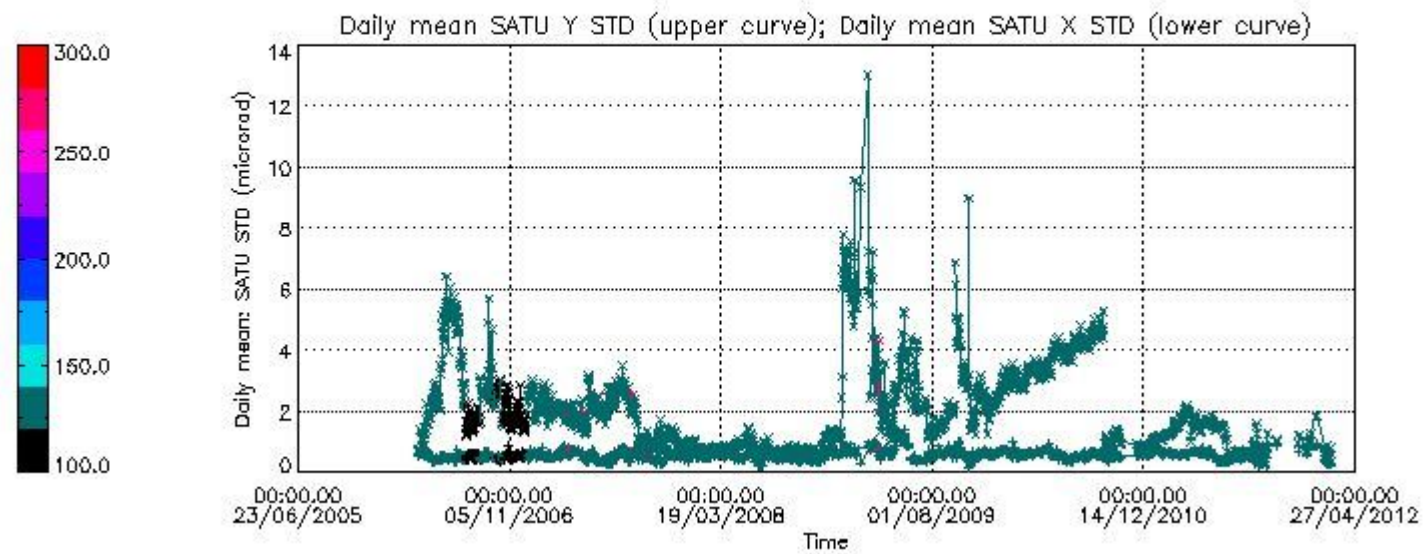
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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.

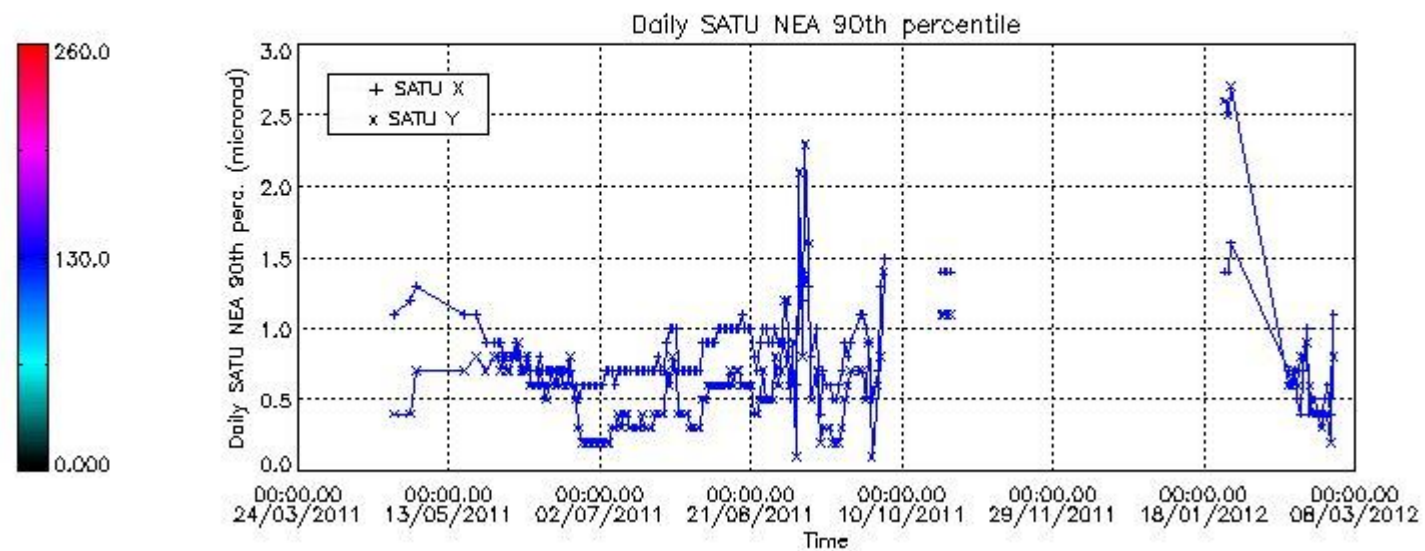
Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis



Lower curve: 90th percentile of SATU Y axis

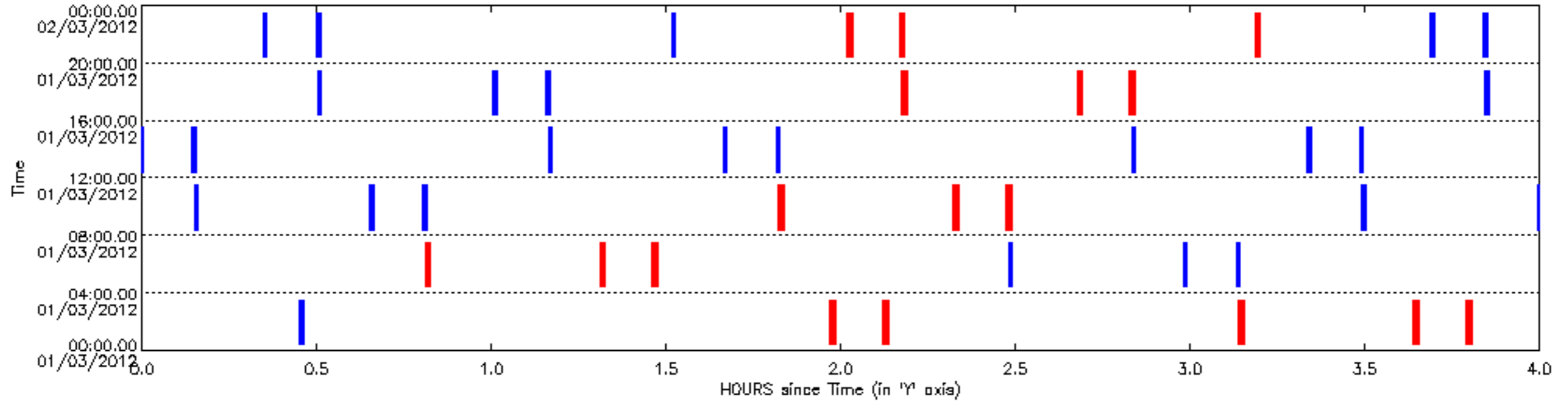
Upper curve: 90th percentile of SATU X axis

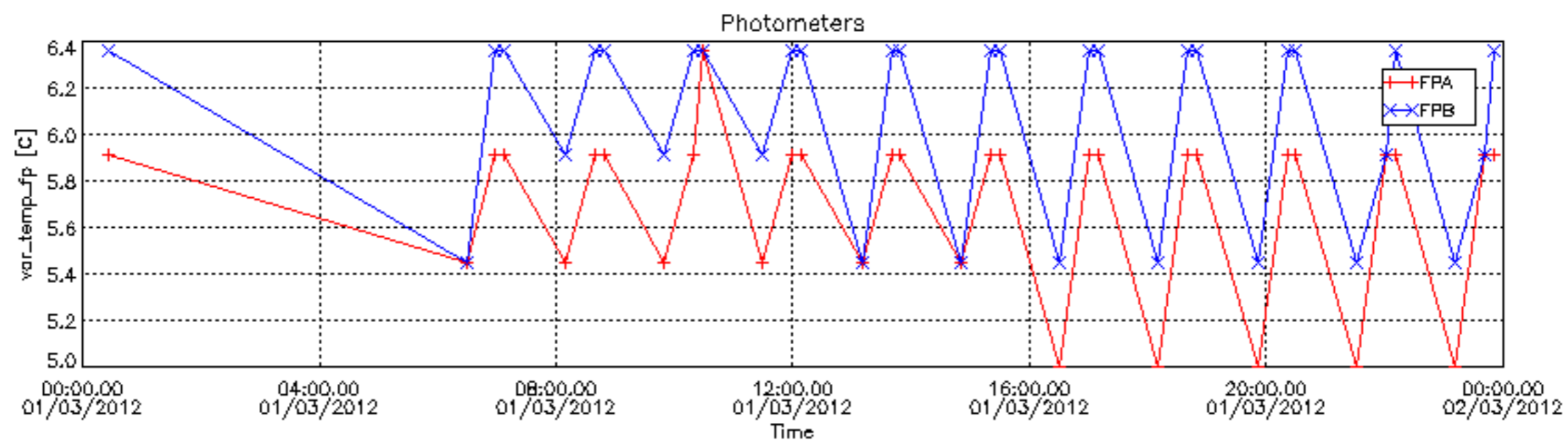
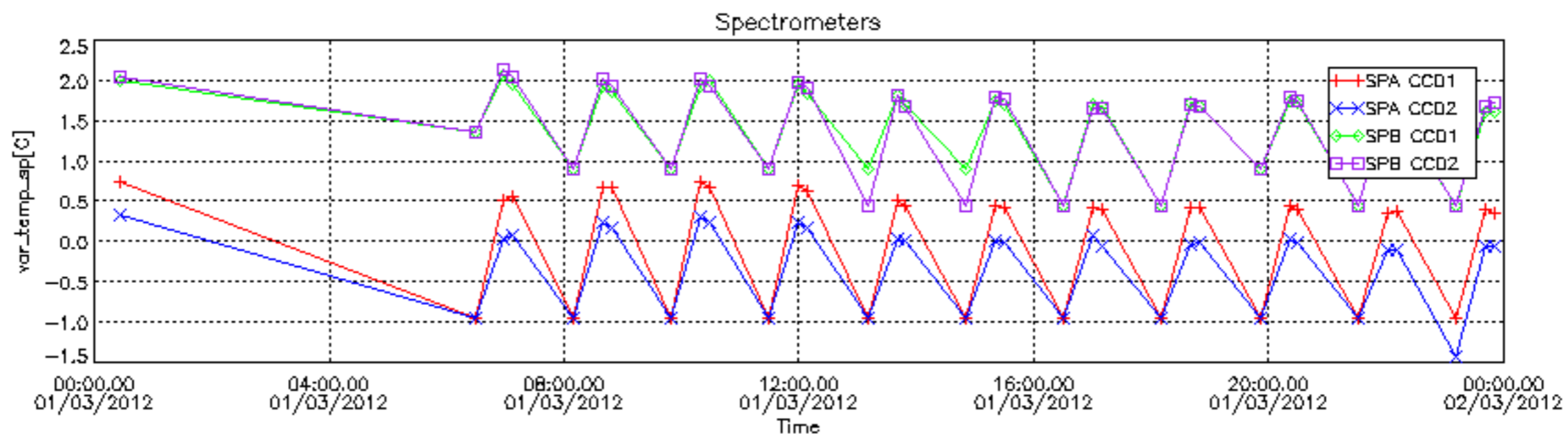


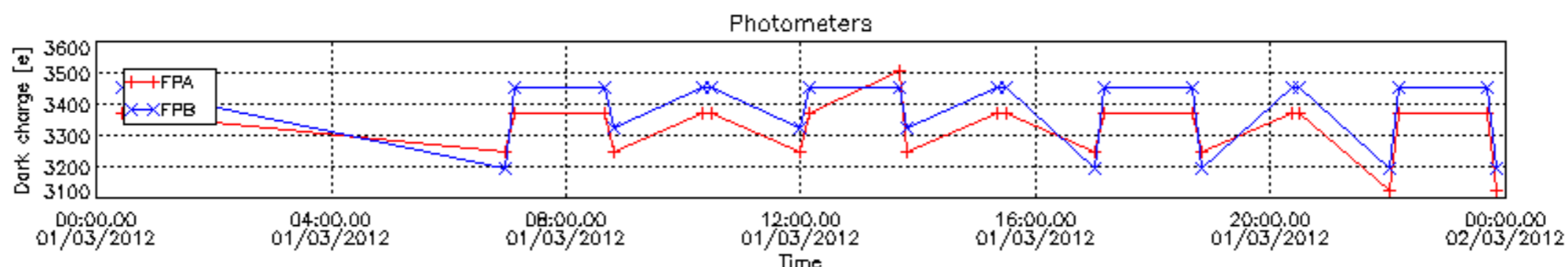
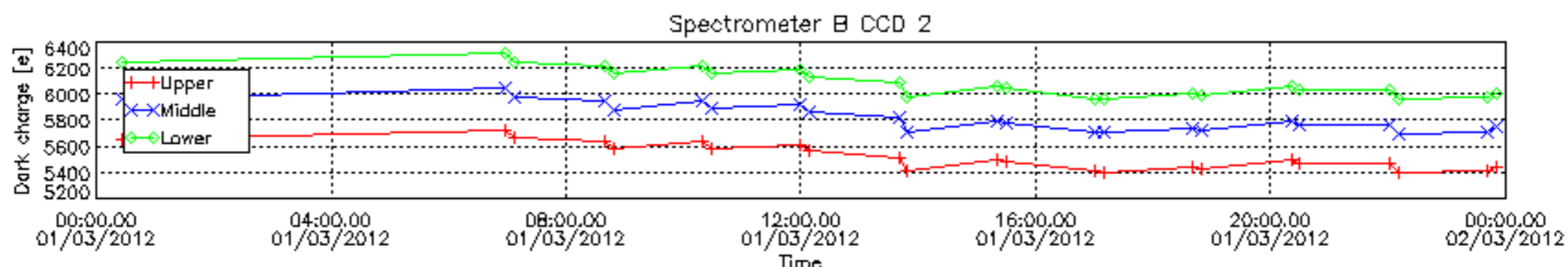
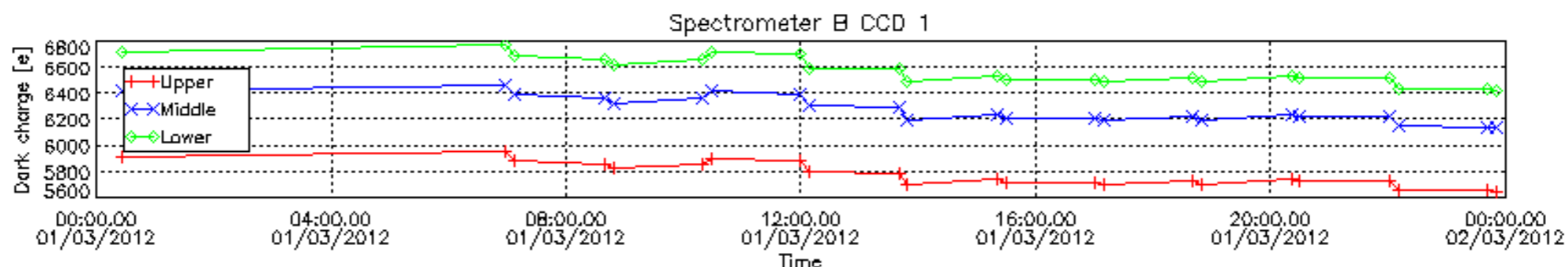
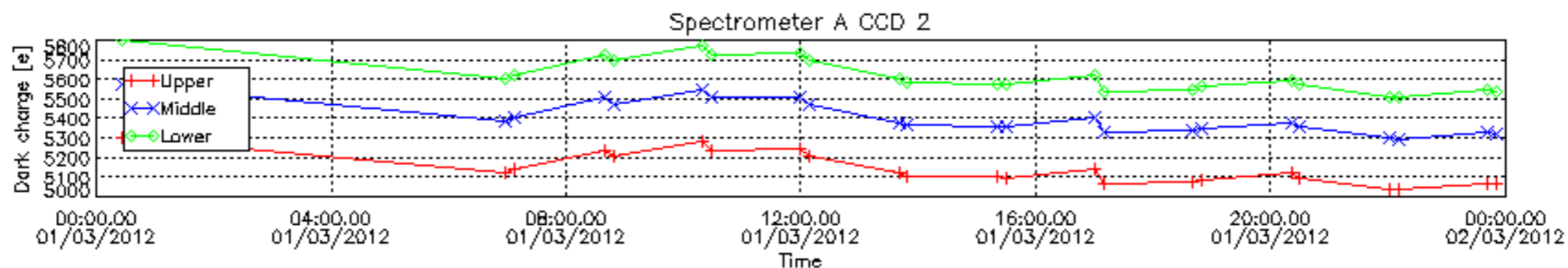
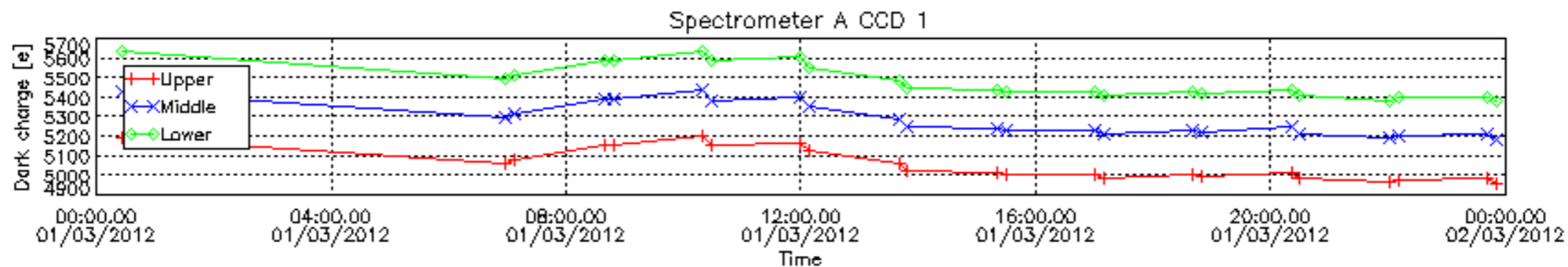
8. Auxiliary Data Files used for the production reported in section 2.4

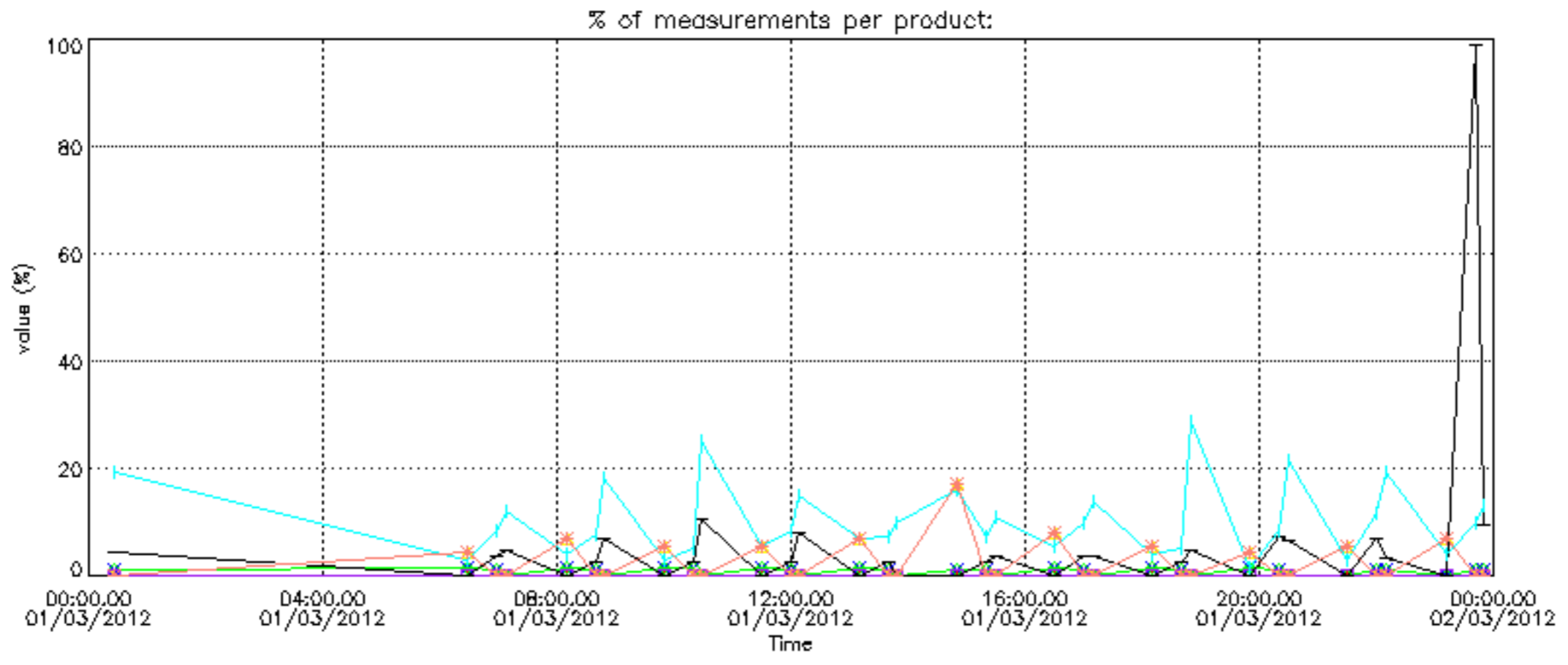
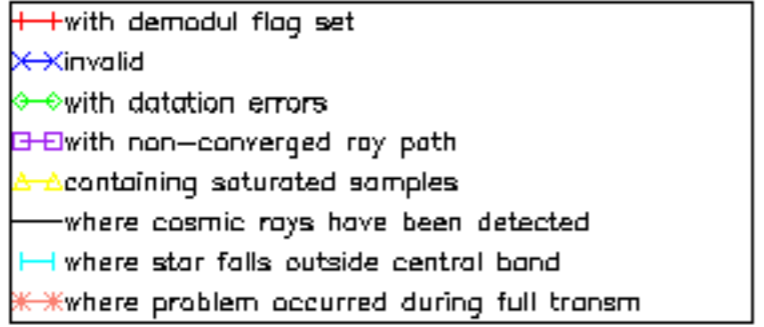
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	01-MAR-2012 00:26:53
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20120130_103112_20120125_000000_20500101_000000	1	01-MAR-2012 00:26:53
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	01-MAR-2012 00:26:53
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-MAR-2012 00:26:53
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	01-MAR-2012 00:26:53
ECMWF_FILE	AUX_ECF_AXNECM20120229_062116_20120229_210000_20120301_090000	1	01-MAR-2012 00:26:53
ECMWF_FILE	AUX_ECA_AXNECM20120301_062114_20120229_210000_20120301_090000	2	01-MAR-2012 06:28:46
ECMWF_FILE	AUX_ECF_AXNECM20120301_062115_20120301_090000_20120301_210000	8	01-MAR-2012 09:49:15
ECMWF_FILE	AUX_ECF_AXNECM20120301_062115_20120301_150000_20120302_030000	20	01-MAR-2012 16:30:10
ECMWF_FILE	AUX_ECA_AXNECM20120301_182113_20120301_090000_20120301_210000	23	01-MAR-2012 18:10:24
ECMWF_FILE	AUX_ECF_AXNECM20120301_062115_20120301_210000_20120302_090000	29	01-MAR-2012 21:30:52
OPTIONAL_ECMWF_FILE	MISSING	1	01-MAR-2012 00:26:53
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120229_233503_20120229_091606_20120310_112946	1	01-MAR-2012 00:26:53
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120301_112113_20120229_191729_20120310_213110	11	01-MAR-2012 11:29:28

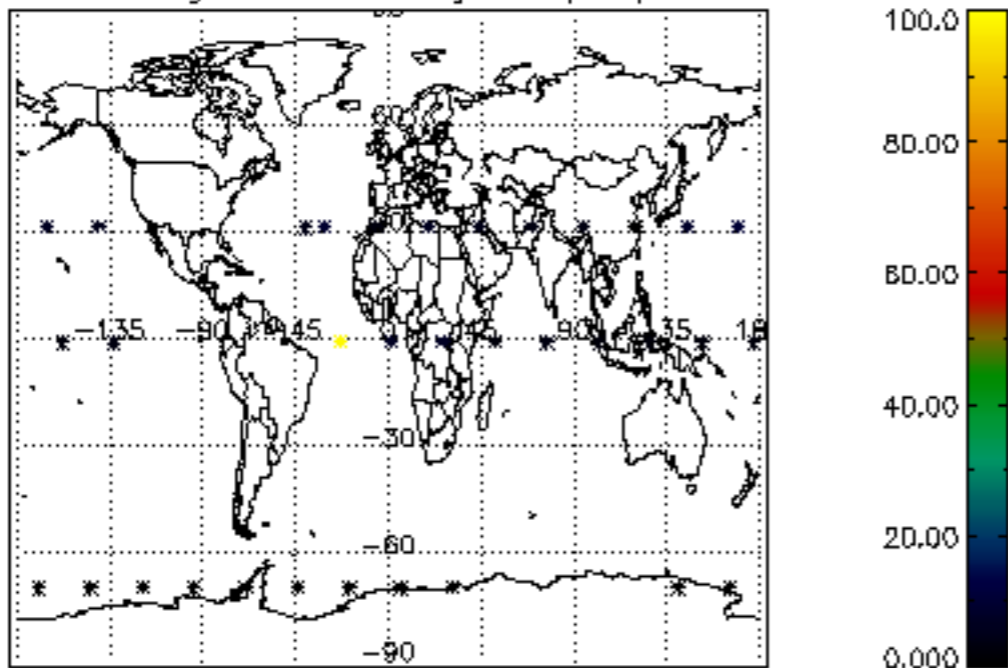




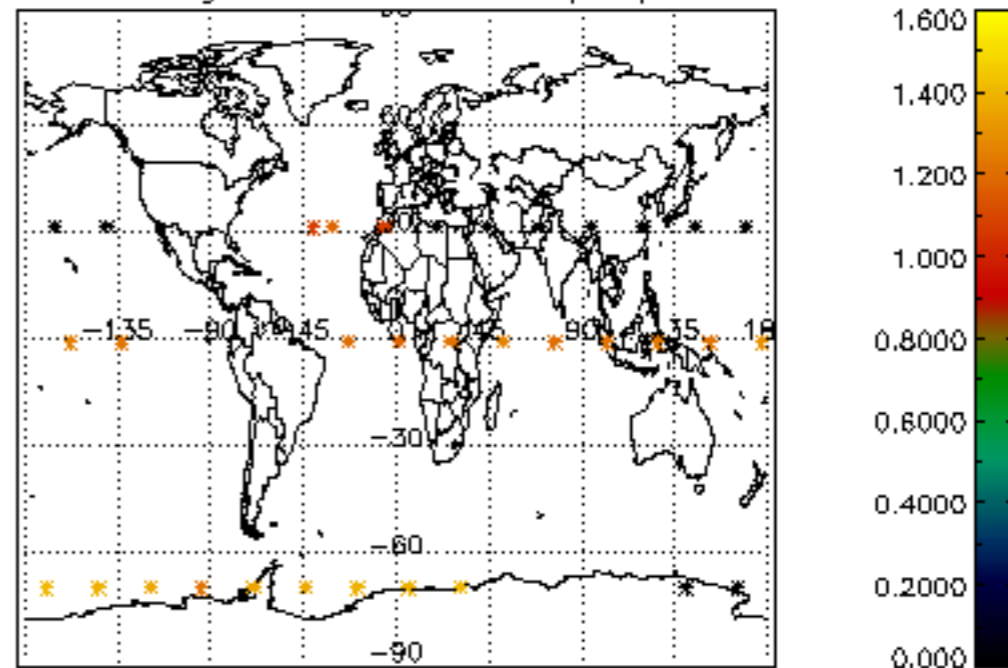




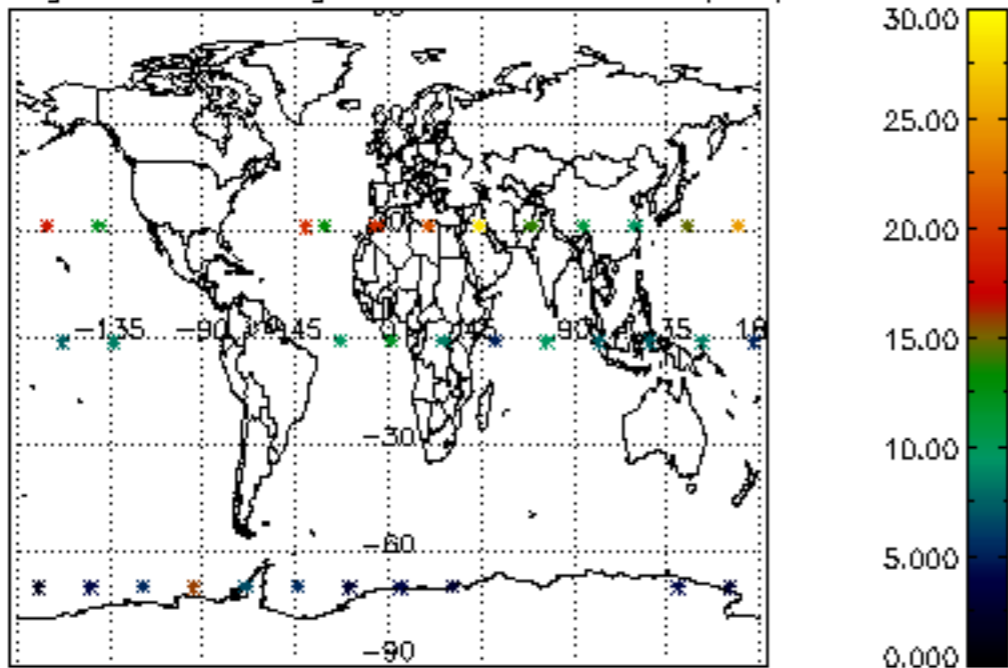
Percentage of cosmic ray hits per profile



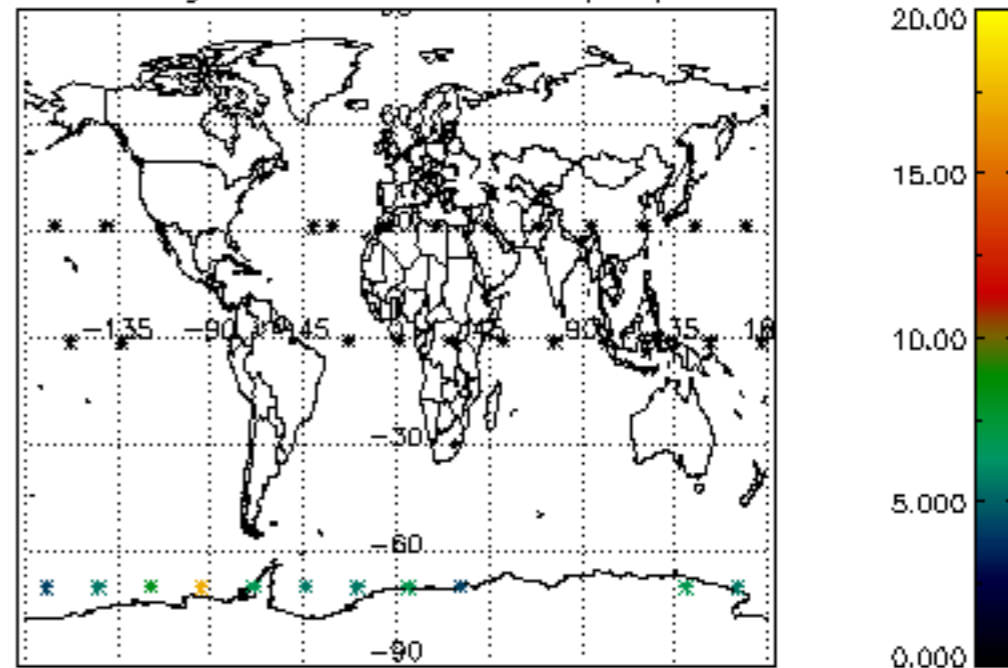
Percentage of datation errors per profile



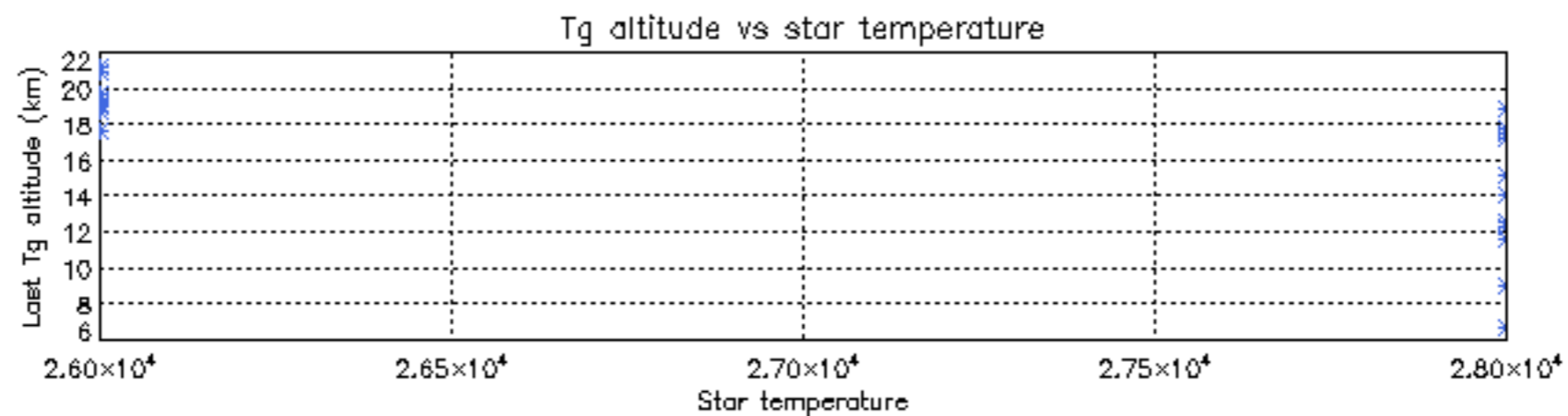
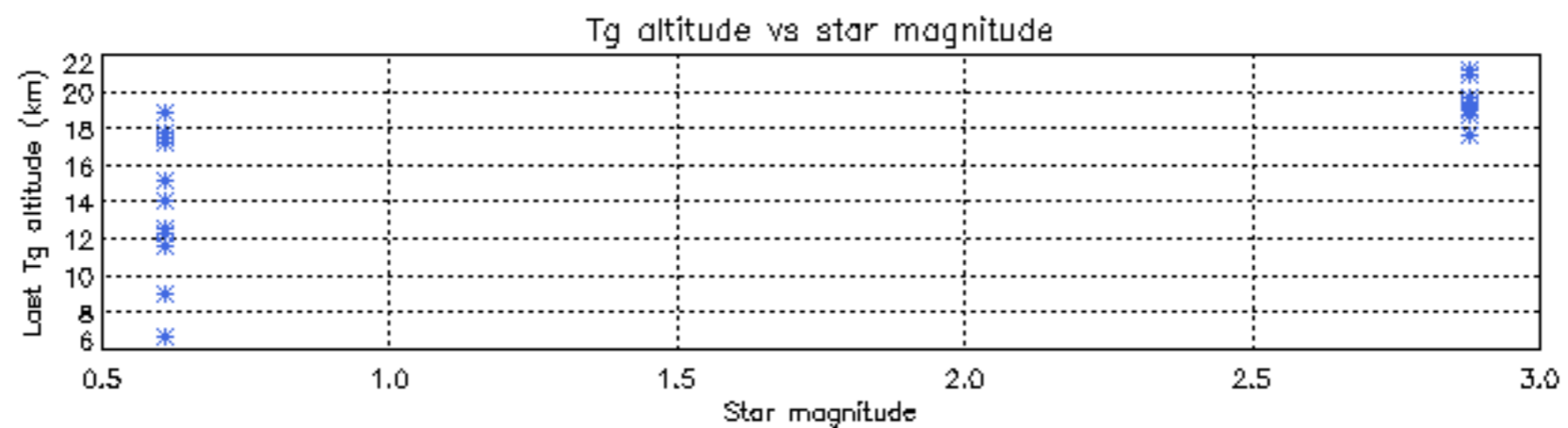
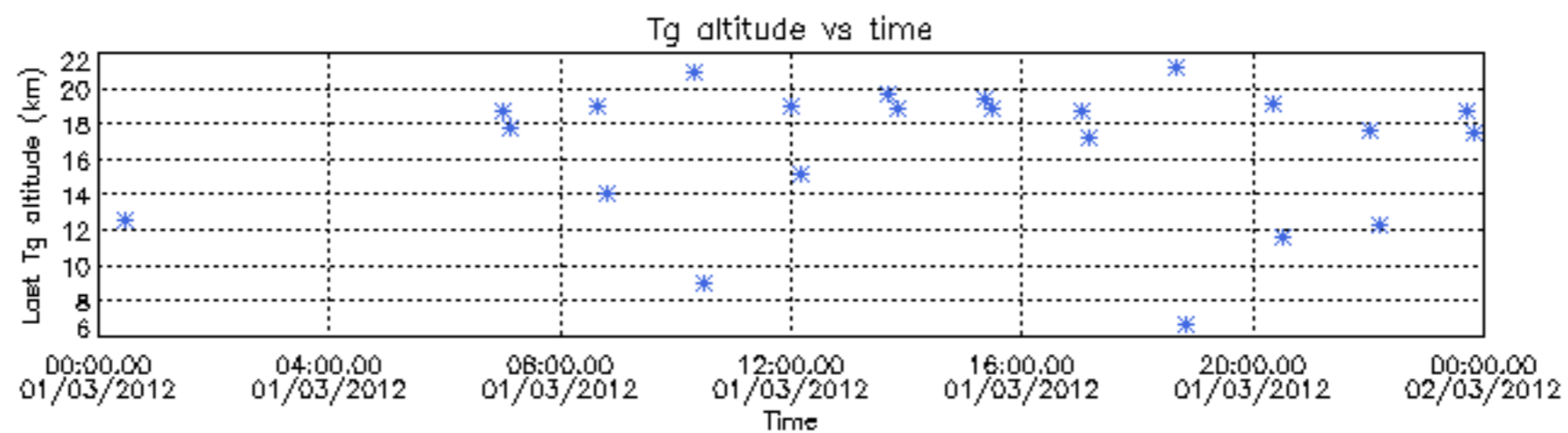
Percentage of star falling outside central band per profile



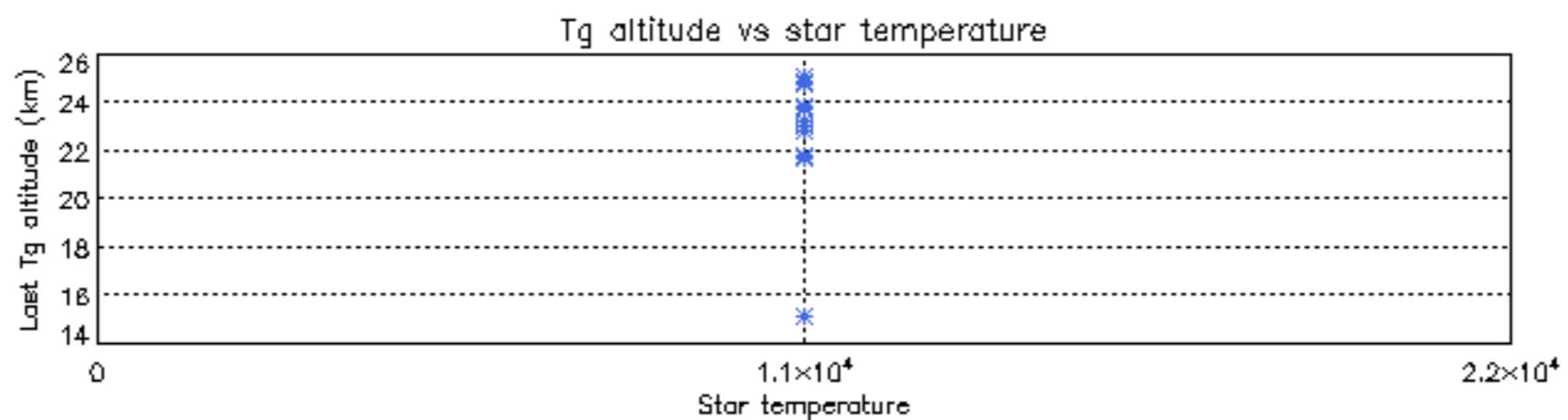
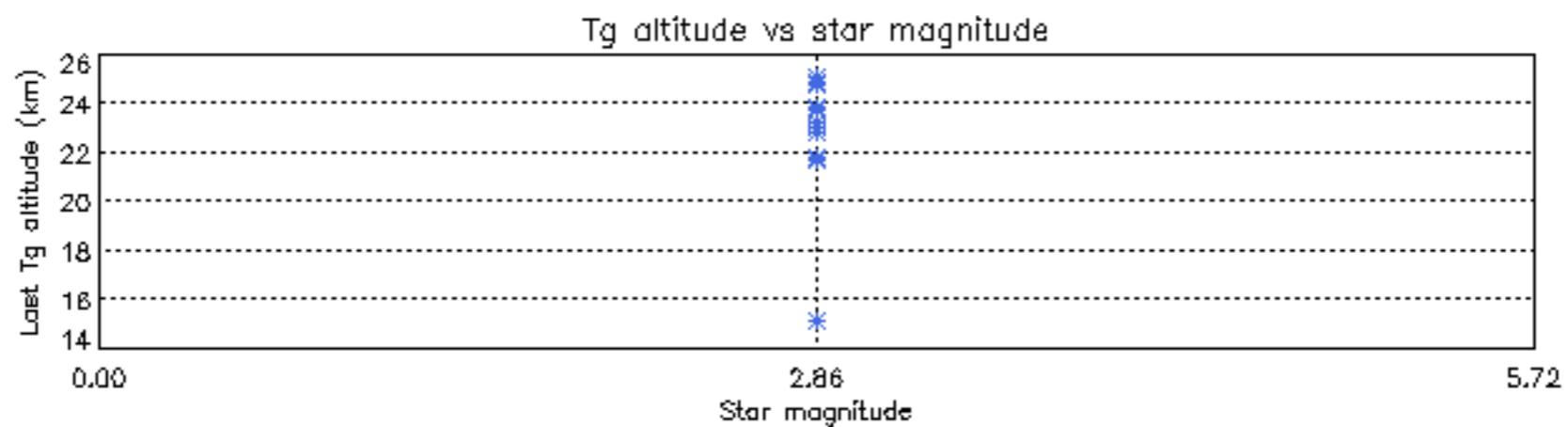
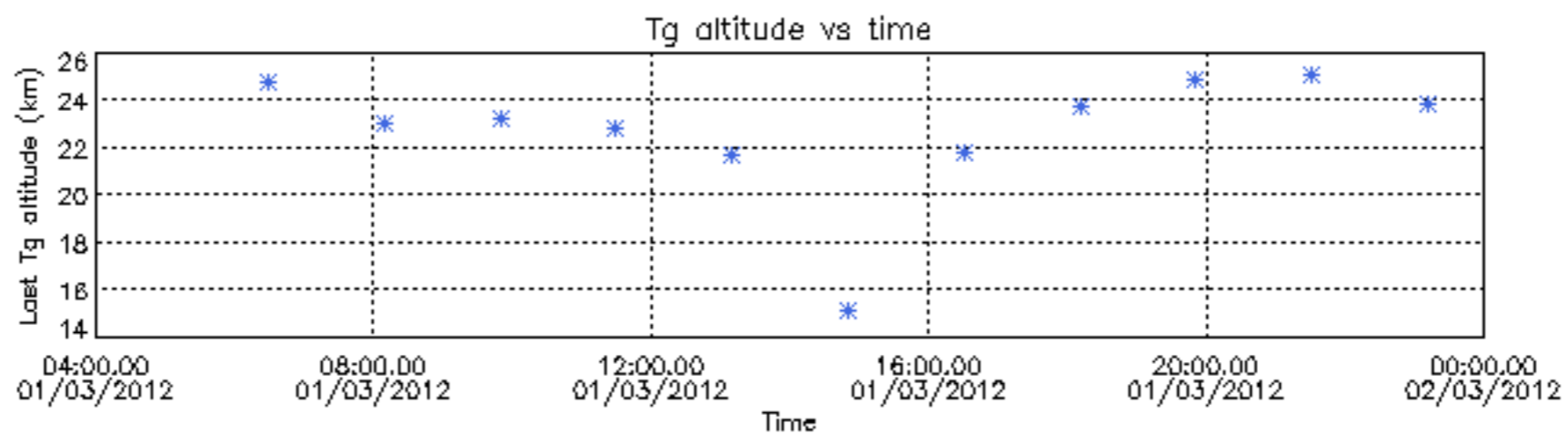
Percentage of saturation errors per profile

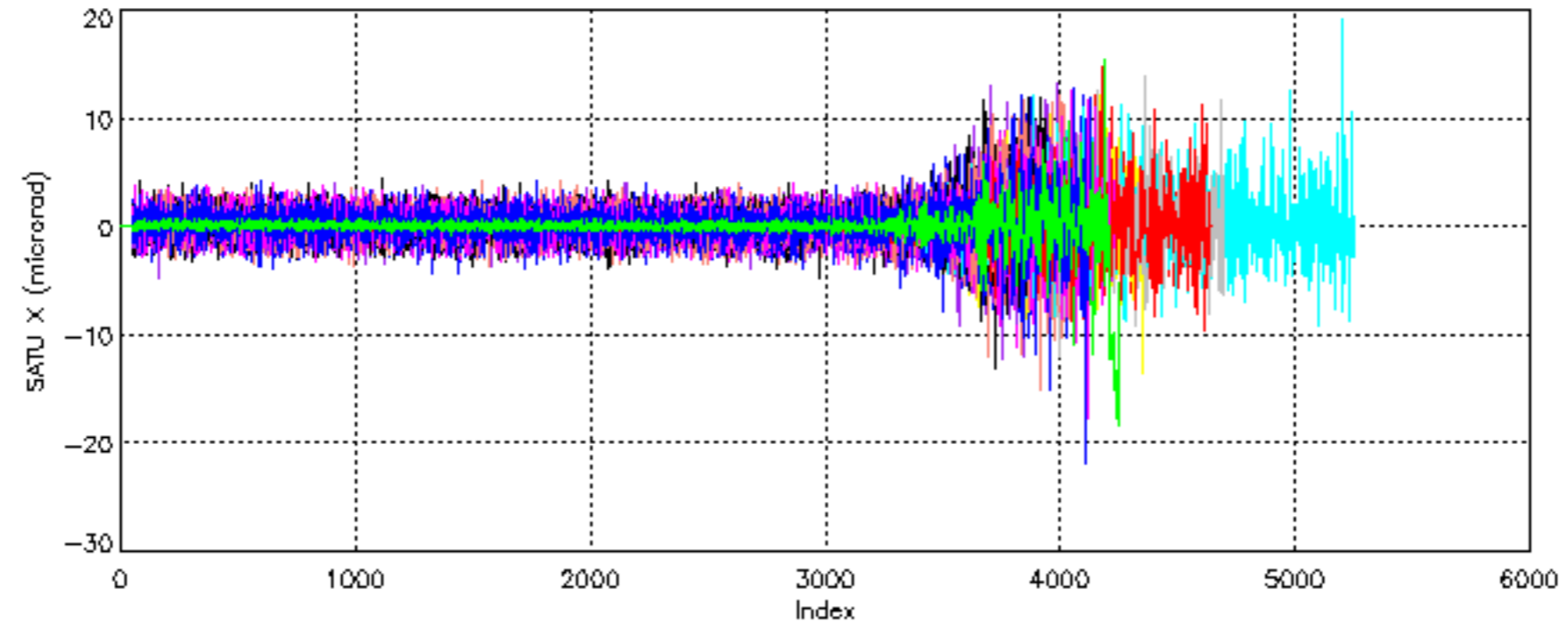


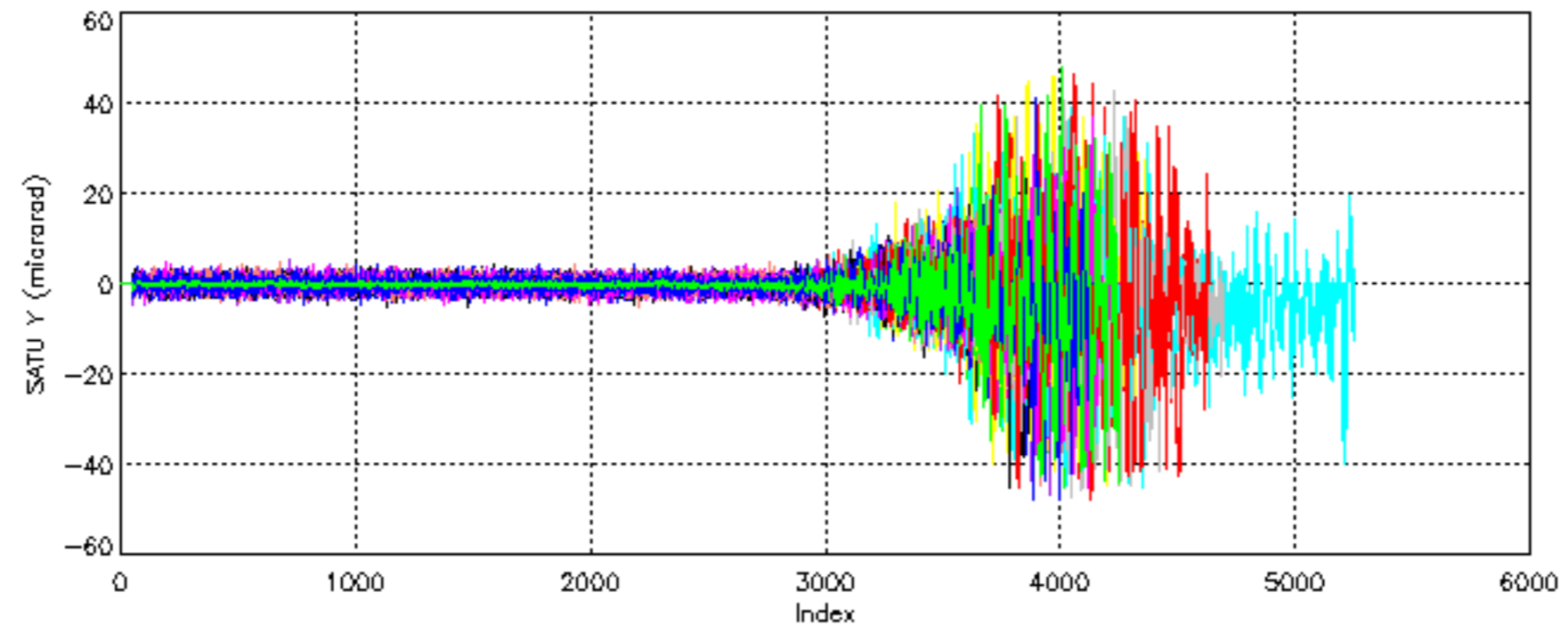
Tangent altitude at which the star is lost

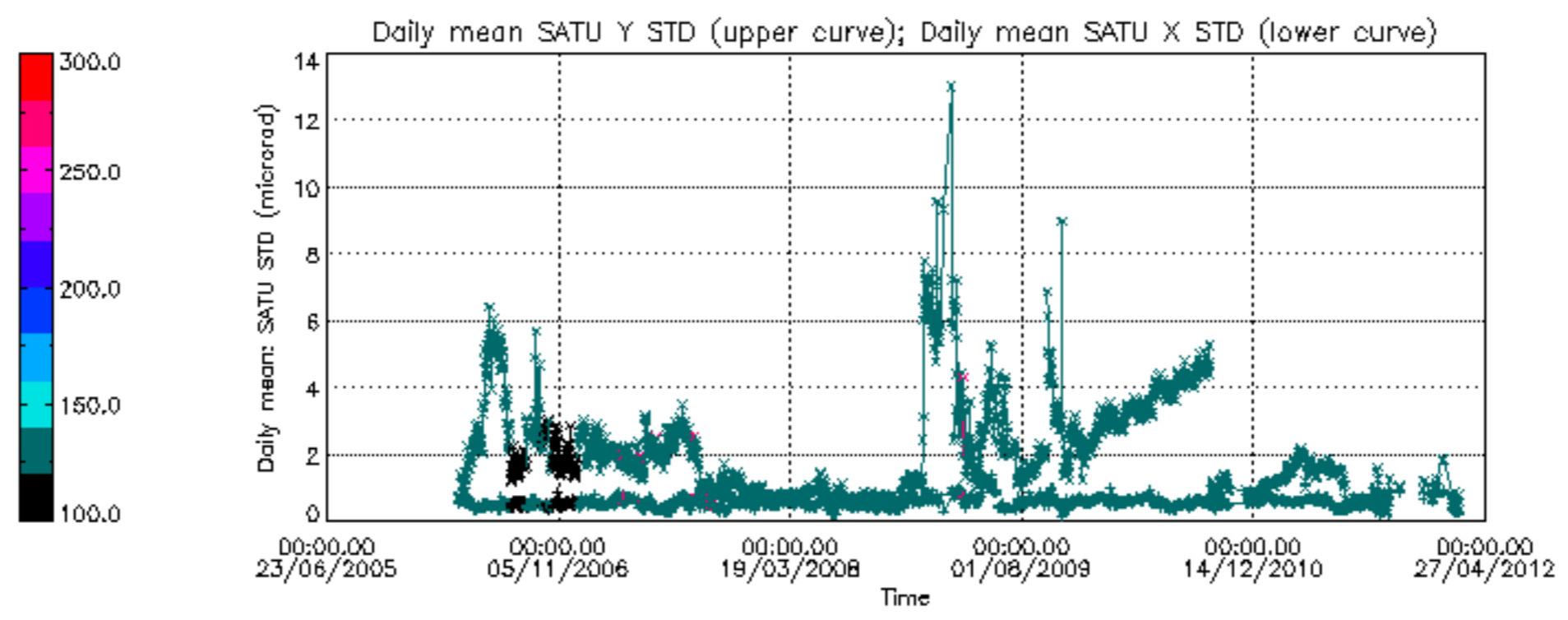


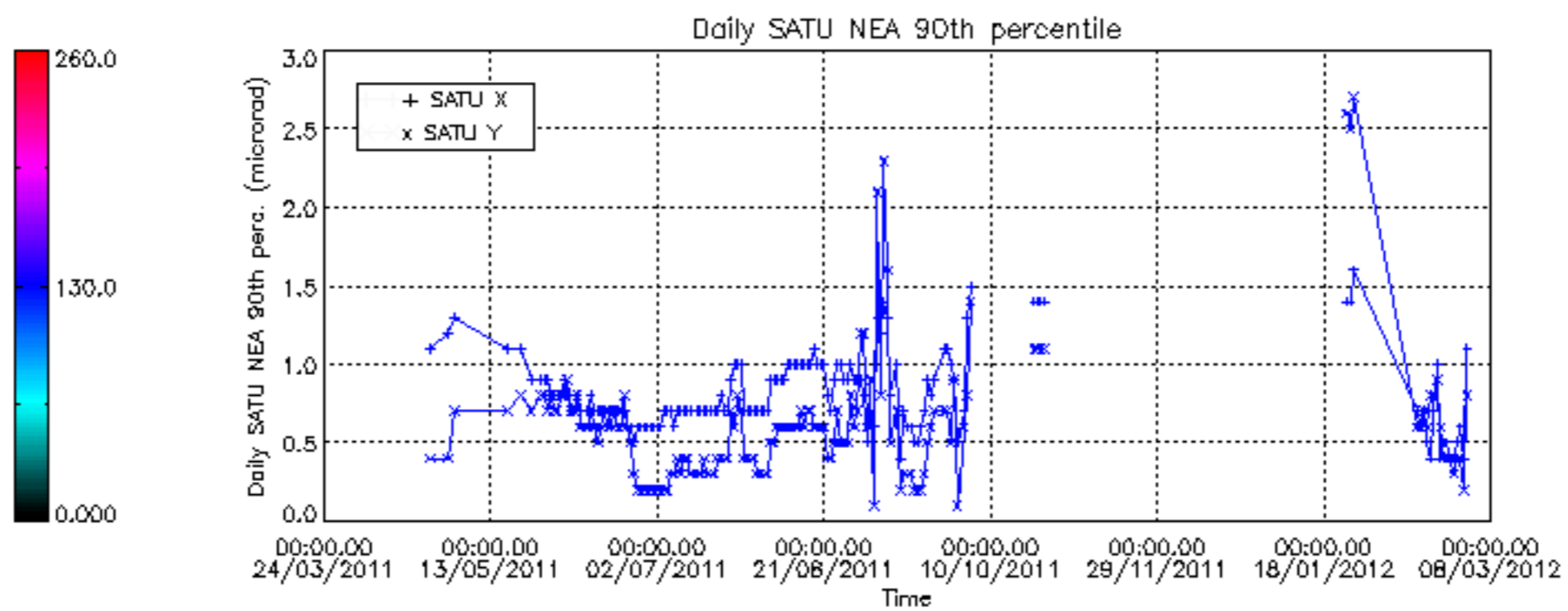
Tangent altitude at which the star is lost











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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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1; -514.3; 02-MAR-2012 22:56:08; Dark ; 42.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 85; 0;52342
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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1; -519.2; 02-MAR-2012 07:53:57; Dark ; 45.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 91; 0;52333
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
3; 534.7; 02-MAR-2012 13:12:12; Dark ; 42.5; 10; Bet Cen ; 0.61; 28000;occ; 85; 0;52337
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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; -5.6; 02-MAR-2012 16:23:40; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 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; -4.3; 02-MAR-2012 19:44:09; Dark ; 31.5; 147; Alp Ara ; 2.88; 26000;occ; 63; 0;52340
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2; 289.7; 14-MAR-2012 09:07:37; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52507
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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; 2949.9; 24-MAR-2012 02:04:15; Bright; 39.0; 36; 50Alp UMA ; 1.80; 6300;occ; 78; 0; -1
3; 8872.6; 24-MAR-2012 03:42:57; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0; -1
4; 8963.8; 24-MAR-2012 03:44:28; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0; -1
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2; 2949.5; 24-MAR-2012 07:04:56; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0; -1
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2; 2949.0; 24-MAR-2012 13:45:51; Bright; 40.5; 36; 50Alp UMA ; 1.80; 6300;occ; 81; 0; -1
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2; 6840.6; 24-MAR-2012 18:11:11; Dark ; 26.5; 77; Eps Cen ; 2.30; 28000;occ; 53; 0; -1
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2; 6840.9; 24-MAR-2012 19:51:25; Dark ; 28.5; 77; Eps Cen ; 2.30; 28000;occ; 57; 0; -1
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2; 3884.7; 25-MAR-2012 23:26:06; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0; -1
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2; 830.4; 25-MAR-2012 07:33:06; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0; -1
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2; 3884.8; 26-MAR-2012 01:06:20; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0; -1
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2; 3884.7; 26-MAR-2012 02:46:33; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0; -1
3; 6849.7; 26-MAR-2012 03:35:58; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0; -1
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2; 836.3; 26-MAR-2012 05:16:13; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0; -1
3; 2246.1; 26-MAR-2012 05:39:43; Bright; 29.5; 96; 68Del Leo ; 2.56; 9300;occ; 59; 0; -1
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2; 2655.7; 26-MAR-2012 20:48:38; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0; -1
3; 3884.4; 26-MAR-2012 21:09:07; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0; -1
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2; 2655.6; 26-MAR-2012 22:28:52; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0; -1
3; 3884.4; 26-MAR-2012 22:49:20; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0; -1
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2; 3884.8; 26-MAR-2012 07:47:15; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0; -1
3; 6851.0; 26-MAR-2012 08:36:42; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0; -1
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1; 2245.7; 26-MAR-2012 09:00:10; Bright; 43.0; 96; 68Del Leo ; 2.56; 9300;occ; 86; 0; -1
2; 2656.6; 26-MAR-2012 09:07:01; Bright; 29.0; 174; 52Psi UMa ; 3.00; 4400;occ; 58; 0; -1
3; 3884.7; 26-MAR-2012 09:27:29; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0; -1
4; 6851.4; 26-MAR-2012 10:16:56; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0; -1
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2; 2656.4; 26-MAR-2012 10:47:15; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0; -1
3; 3884.6; 26-MAR-2012 11:07:43; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0; -1
4; 6851.9; 26-MAR-2012 11:57:10; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0; -1
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2; 2656.3; 26-MAR-2012 12:27:29; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0; -1
3; 3884.5; 26-MAR-2012 12:47:57; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0; -1
4; 6852.4; 26-MAR-2012 13:37:25; Dark ; 38.5; 77; Eps Cen ; 2.30; 28000;occ; 77; 0; -1
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