

GOMOS Daily Report 15-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	17MAR2012 07:00:43
Data source version	GOMOS/6.01
Start time of products	15MAR2012 00:14:11
Stop time of products	15MAR2012 23:37:34
Store outputs in DB	Yes
Nb of level 1b prods	26
Nb of prods with errors	0

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

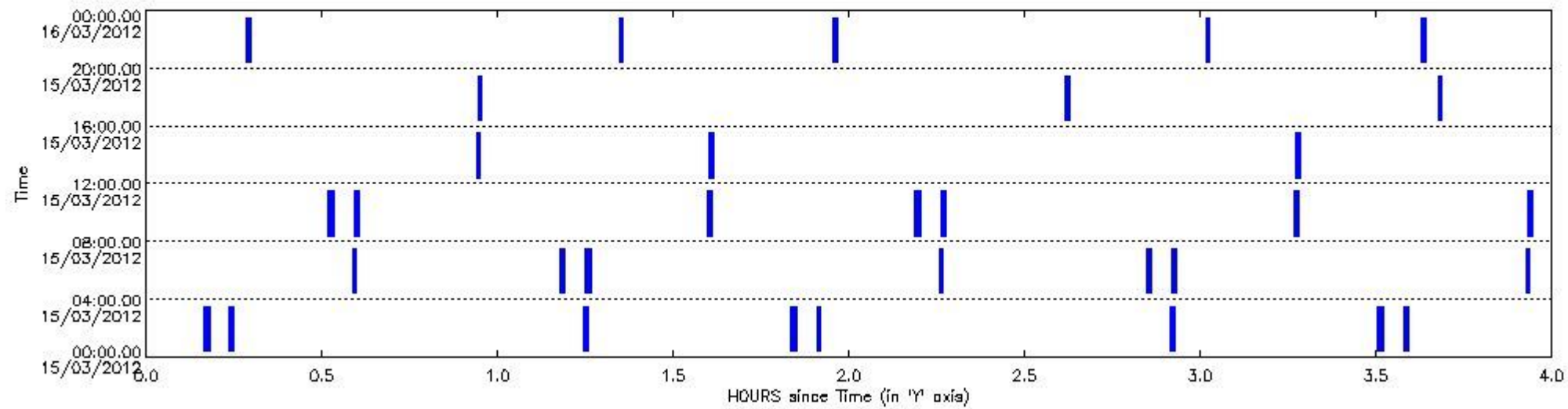
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

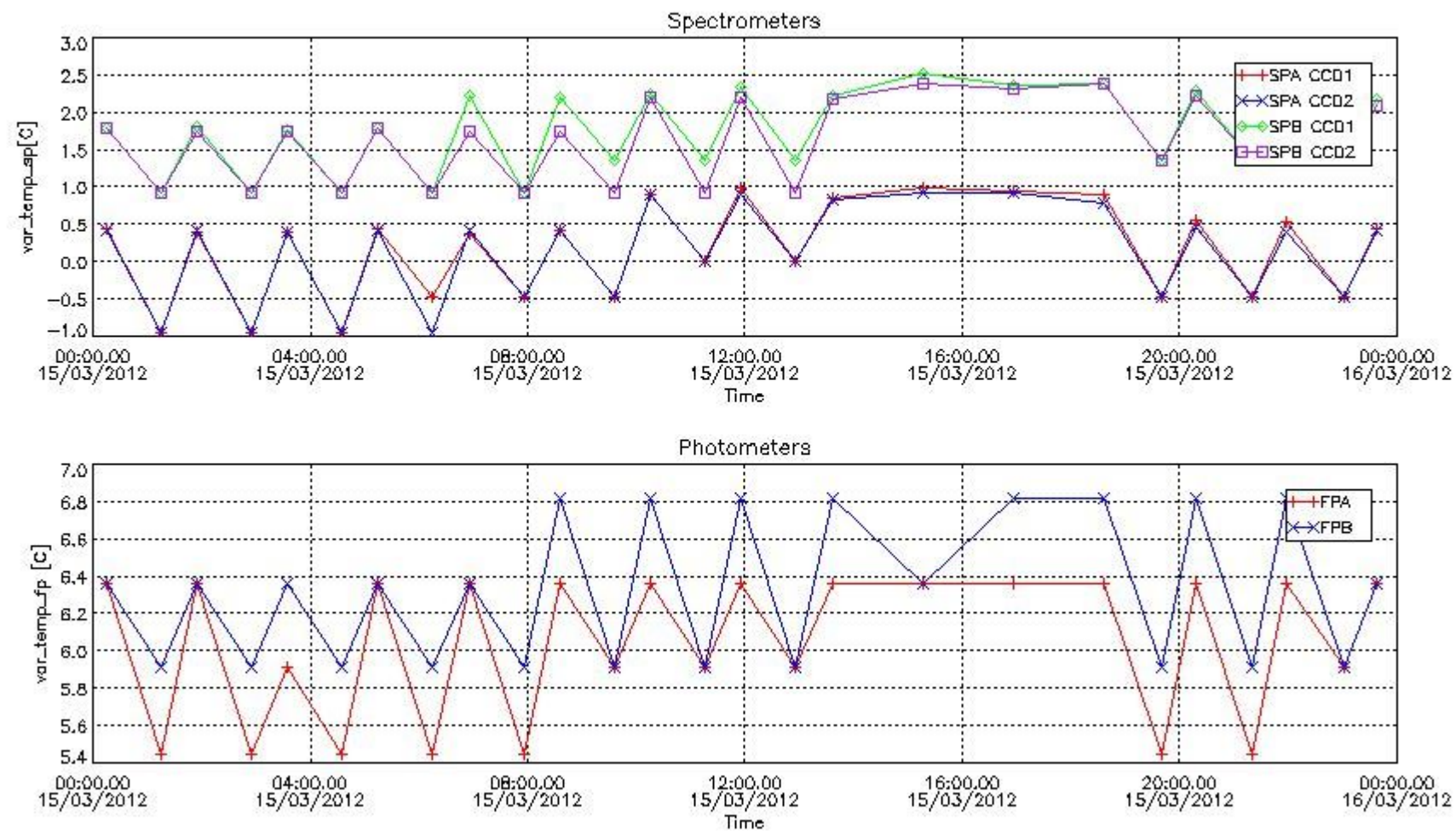
No missing products.

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_1PNPDE20120315_001411_000000453112_00347_52516_9148.N1	15-MAR-2012 00:14:11	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	52516	No
2	GOM_TRA_1PNPDE20120315_011442_000000383112_00347_52516_9149.N1	15-MAR-2012 01:14:42	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	52516	No
3	GOM_TRA_1PNPDE20120315_015426_000000473112_00348_52517_9178.N1	15-MAR-2012 01:54:26	Dark	46.500	4	Alp1Cen	-0.010000	5800.0	93	52517	No
4	GOM_TRA_1PNPDE20120315_025456_000000353112_00348_52517_9206.N1	15-MAR-2012 02:54:56	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	52517	No
5	GOM_TRA_1PNPDE20120315_033440_000000493112_00349_52518_9207.N1	15-MAR-2012 03:34:40	Dark	48.500	4	Alp1Cen	-0.010000	5800.0	97	52518	No
6	GOM_TRA_1PNPDE20120315_043510_000000383112_00349_52518_9245.N1	15-MAR-2012 04:35:10	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	52518	No
7	GOM_TRA_1PNPDE20120315_051455_000000573112_00350_52519_9246.N1	15-MAR-2012 05:14:55	Dark	56.500	4	Alp1Cen	-0.010000	5800.0	113	52519	No
8	GOM_TRA_1PNPDK20120315_061524_000000383112_00350_52519_4530.N1	15-MAR-2012 06:15:24	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	52519	No
9	GOM_TRA_1PNPDK20120315_065509_000000443112_00351_52520_4531.N1	15-MAR-2012 06:55:09	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	52520	No
10	GOM_TRA_1PNPDK20120315_075539_000000393112_00351_52520_4585.N1	15-MAR-2012 07:55:39	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	52520	No
11	GOM_TRA_1PNPDK20120315_083524_000000573112_00352_52521_4586.N1	15-MAR-2012 08:35:24	Dark	56.500	4	Alp1Cen	-0.010000	5800.0	113	52521	No
12	GOM_TRA_1PNPDK20120315_093553_000000363112_00352_52521_4626.N1	15-MAR-2012 09:35:53	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	52521	No

13	GOM_TRA_1PNPDK20120315_101538_000000453112_00353_52522_4627.N1	15-MAR-2012 10:15:38	Dark	45.000	4	Alp1Cen	-0.010000	5800.0	90	52522	No
14	GOM_TRA_1PNPDK20120315_111606_000000363112_00353_52522_4723.N1	15-MAR-2012 11:16:06	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	52522	No
15	GOM_TRA_1PNPDK20120315_115553_000000533112_00354_52523_4724.N1	15-MAR-2012 11:55:53	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	52523	No
16	GOM_TRA_1PNPDK20120315_125620_000000343112_00354_52523_4883.N1	15-MAR-2012 12:56:20	Bright	34.000	19	50Alp Cyg	1.2460	10500.	68	52523	No
17	GOM_TRA_1PNPDK20120315_133607_000000423112_00355_52524_5028.N1	15-MAR-2012 13:36:07	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	52524	No
18	GOM_TRA_1PNPDK20120315_151622_000000433112_00356_52525_4907.N1	15-MAR-2012 15:16:22	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	52525	No
19	GOM_TRA_1PNPDK20120315_165636_000000443112_00357_52526_4855.N1	15-MAR-2012 16:56:36	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	52526	No
20	GOM_TRA_1PNPDK20120315_183651_000000503112_00358_52527_4936.N1	15-MAR-2012 18:36:51	Dark	50.000	4	Alp1Cen	-0.010000	5800.0	100	52527	No
21	GOM_TRA_1PNPDK20120315_194035_000000383112_00358_52527_4970.N1	15-MAR-2012 19:40:35	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	52527	No
22	GOM_TRA_1PNPDK20120315_201705_000000533112_00359_52528_4971.N1	15-MAR-2012 20:17:05	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	52528	No
23	GOM_TRA_1PNPDE20120315_212049_000000353112_00359_52528_9438.N1	15-MAR-2012 21:20:49	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	52528	No
24	GOM_TRA_1PNPDE20120315_215720_000000463112_00360_52529_9458.N1	15-MAR-2012 21:57:20	Dark	45.500	4	Alp1Cen	-0.010000	5800.0	91	52529	No
25	GOM_TRA_1PNPDE20120315_230103_000000363112_00360_52529_9459.N1	15-MAR-2012 23:01:03	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	52529	No
26	GOM_TRA_1PNPDE20120315_233734_000000553112_00361_52530_9485.N1	15-MAR-2012 23:37:34	Dark	54.500	4	Alp1Cen	-0.010000	5800.0	109	52530	No

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



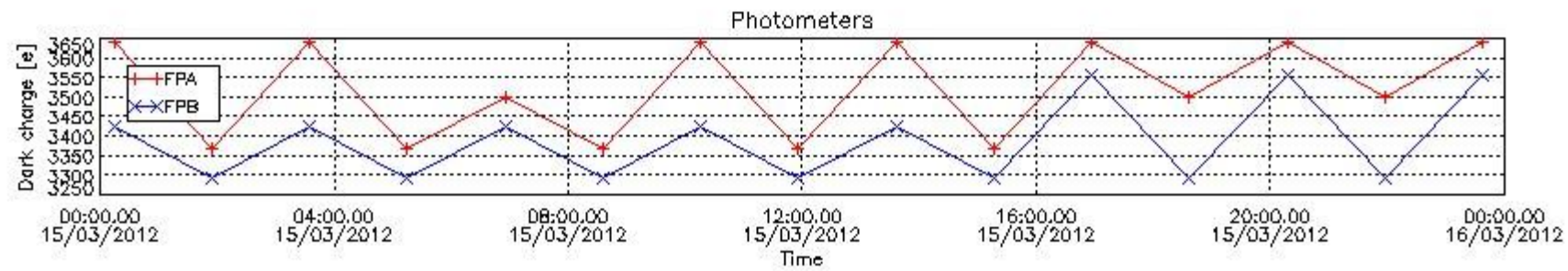
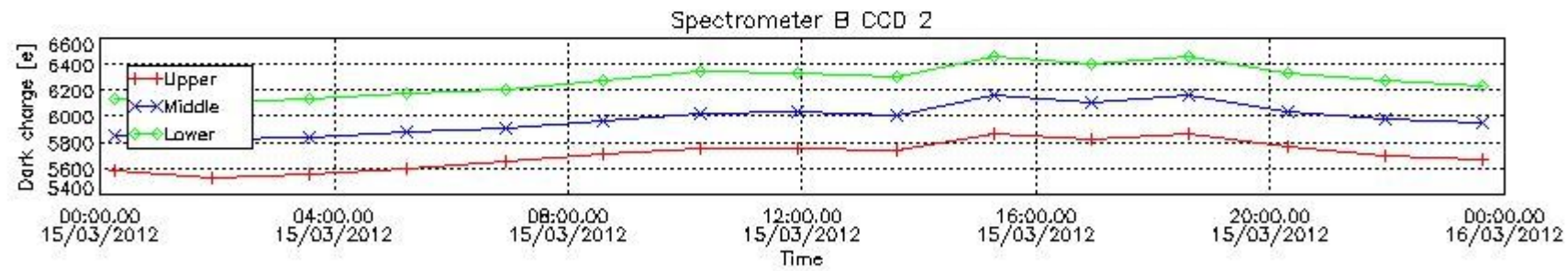
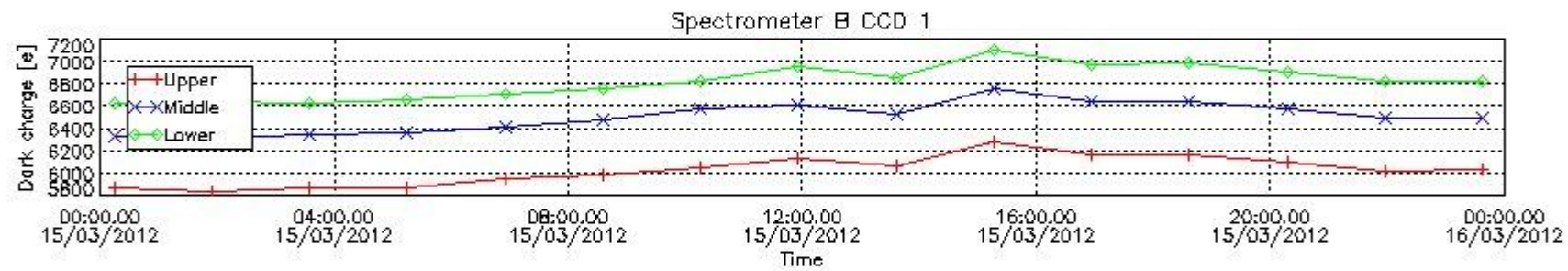
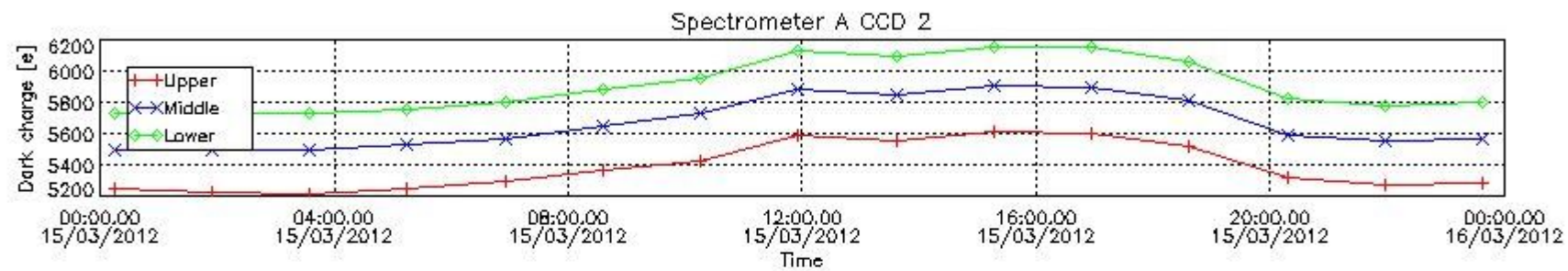
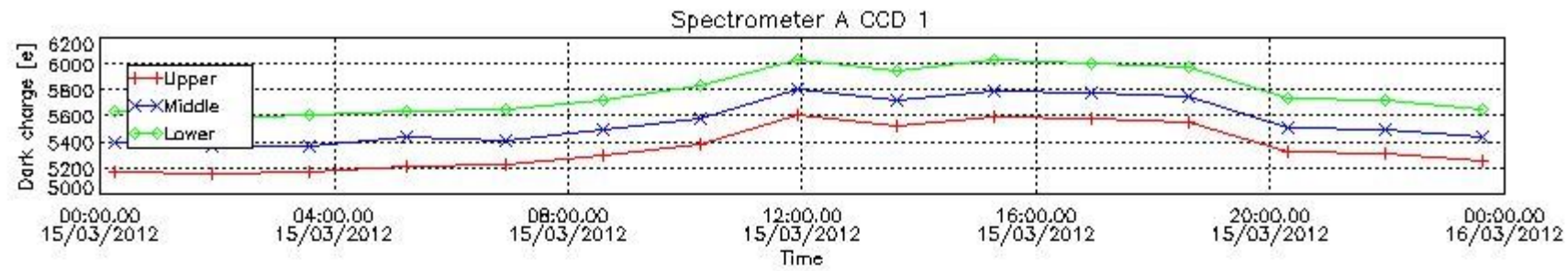
4. Overview of dark signal processing per product

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_1PNPDK20120315_111606_000000363112_00353_52522_4723.N1	DC map used
GOM_TRA_1PNPDK20120315_115553_000000533112_00354_52523_4724.N1	DC map used
GOM_TRA_1PNPDK20120315_125620_000000343112_00354_52523_4883.N1	DC map used
GOM_TRA_1PNPDK20120315_133607_000000423112_00355_52524_5028.N1	DC map used
GOM_TRA_1PNPDK20120315_151622_000000433112_00356_52525_4907.N1	DC map used
GOM_TRA_1PNPDK20120315_165636_000000443112_00357_52526_4855.N1	DC map used
GOM_TRA_1PNPDK20120315_183651_000000503112_00358_52527_4936.N1	DC map used
GOM_TRA_1PNPDK20120315_194035_000000383112_00358_52527_4970.N1	DC map used
GOM_TRA_1PNPDK20120315_201705_000000533112_00359_52528_4971.N1	DC map used
GOM_TRA_1PNPDE20120315_212049_000000353112_00359_52528_9438.N1	DC map used
GOM_TRA_1PNPDE20120315_215720_000000463112_00360_52529_9458.N1	DC map used
GOM_TRA_1PNPDE20120315_230103_000000363112_00360_52529_9459.N1	DC map used
GOM_TRA_1PNPDE20120315_233734_000000553112_00361_52530_9485.N1	DC map used

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



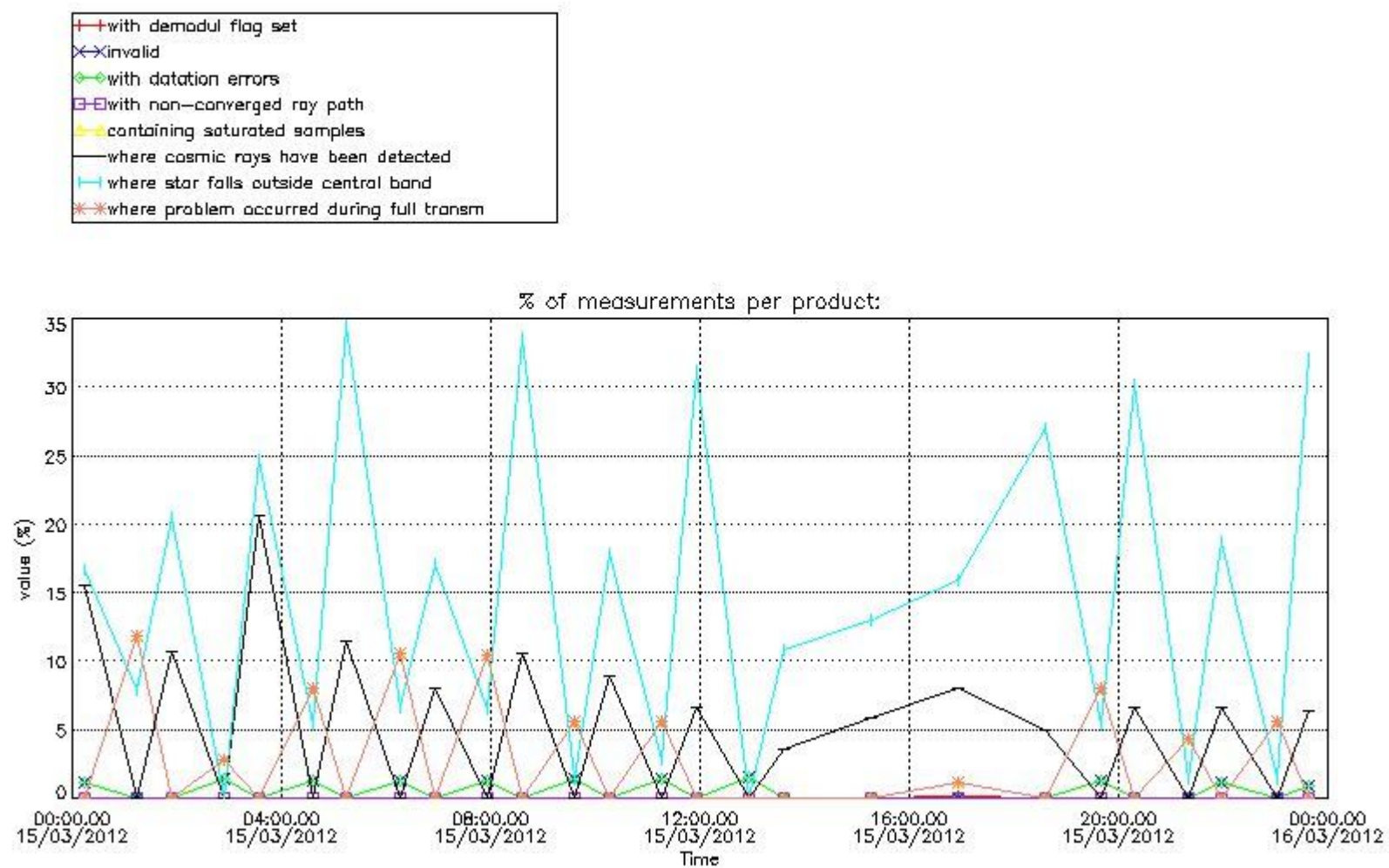
5. Demodulation flag and quality information monitoring

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.

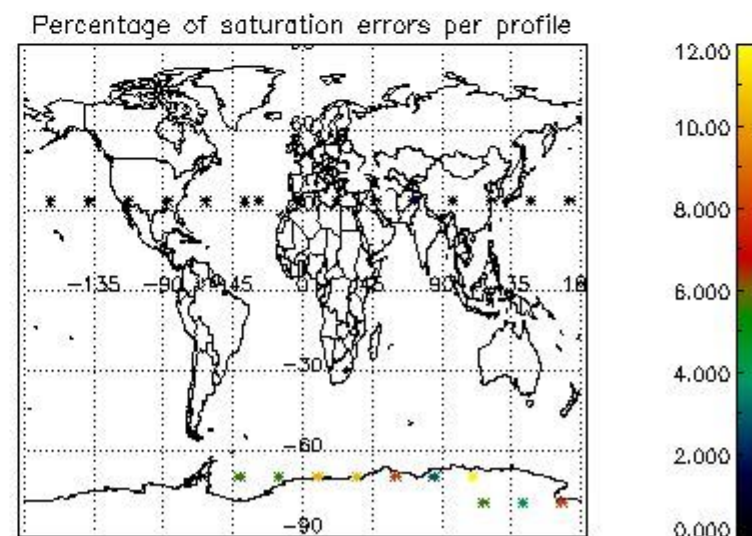
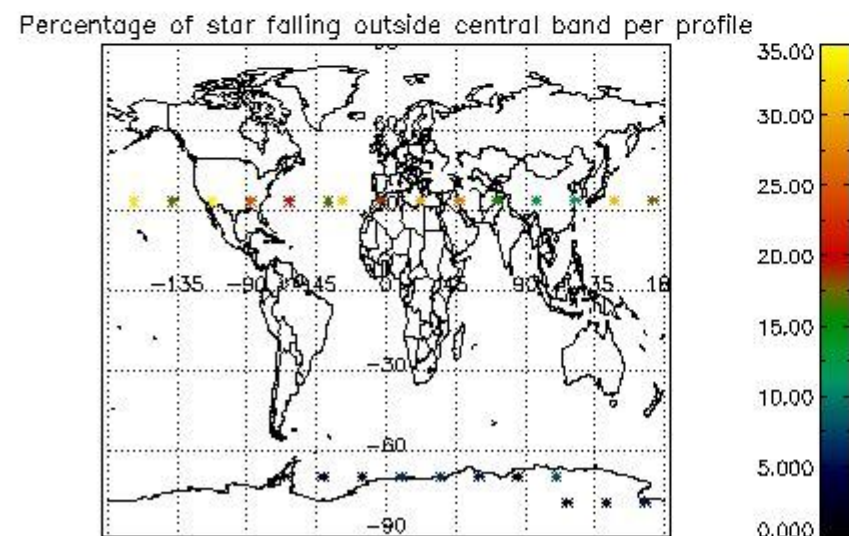
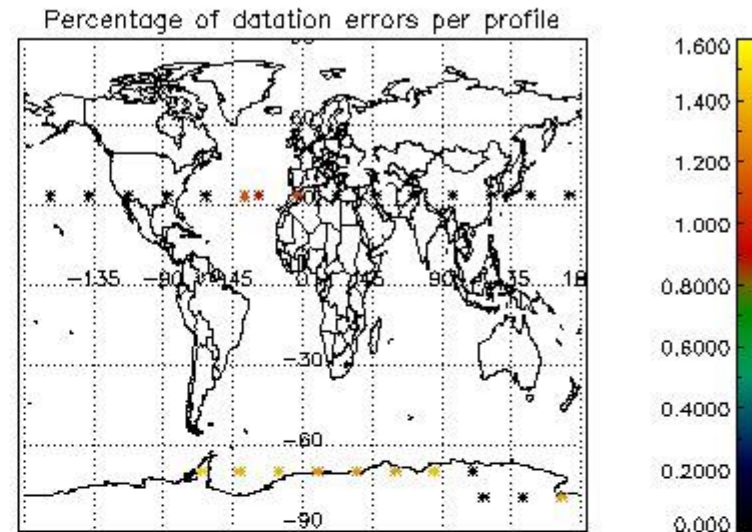
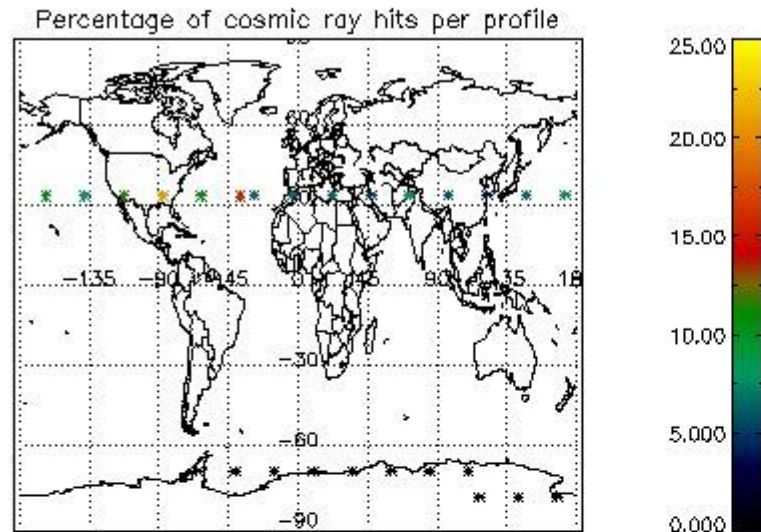
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	46.1538 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	42.3077 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



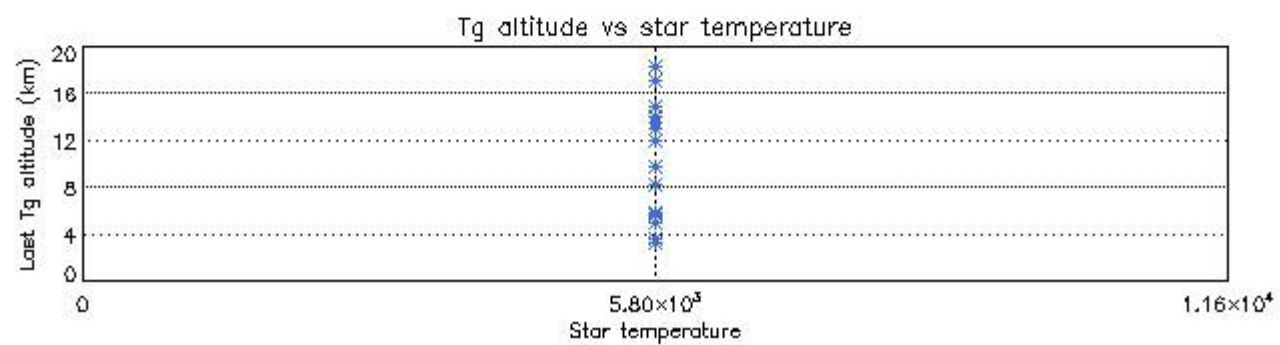
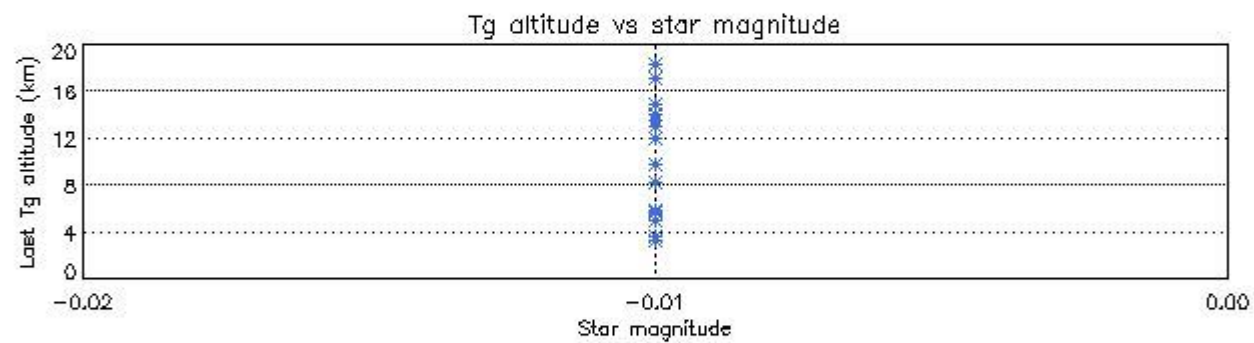
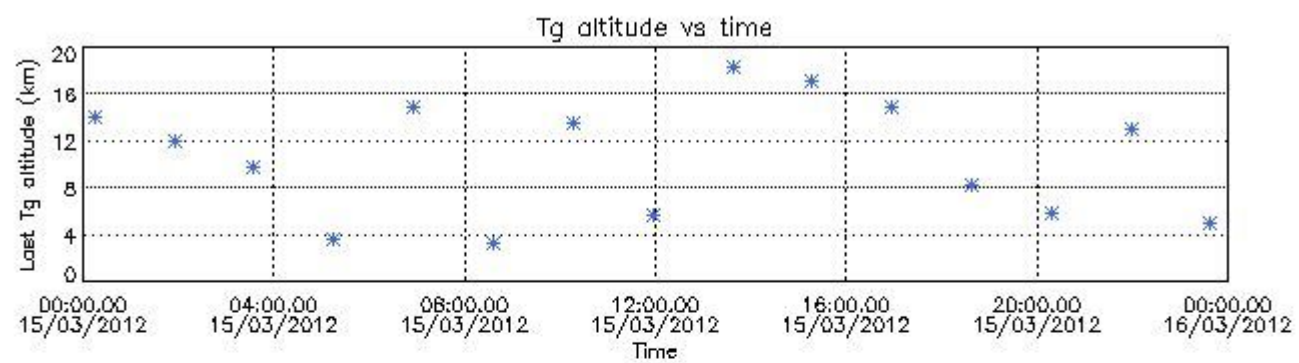
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	10.587	23.358	NaN
St. deviation:	5.0433	3.1723	NaN
Maximum:	18.324	28.835	NaN
Minimum:	3.3133	19.361	NaN
Number of data:	15.000	11.000	NaN

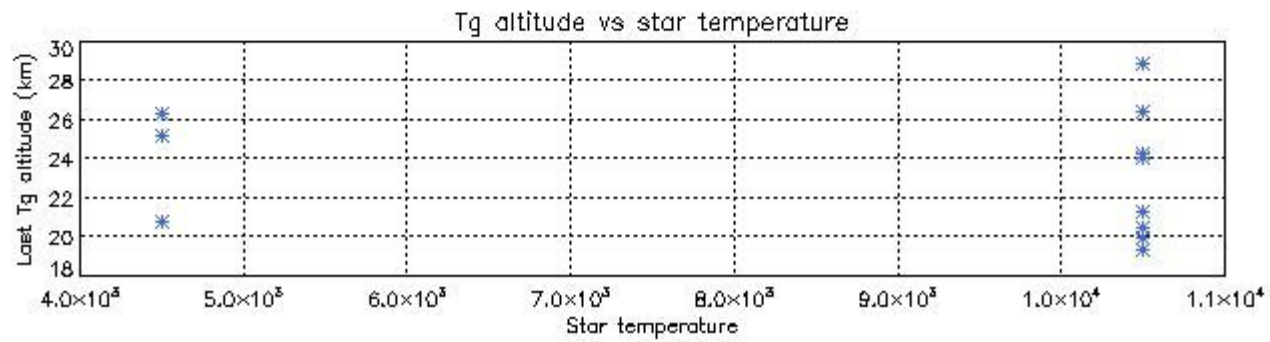
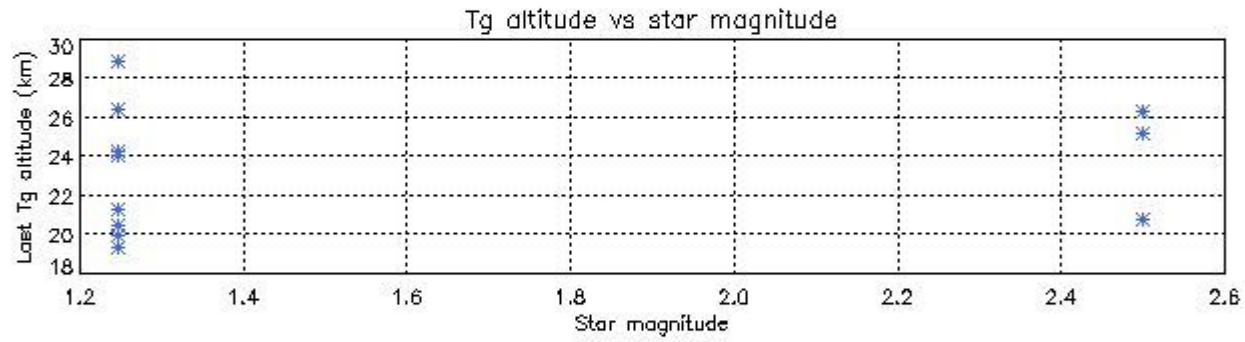
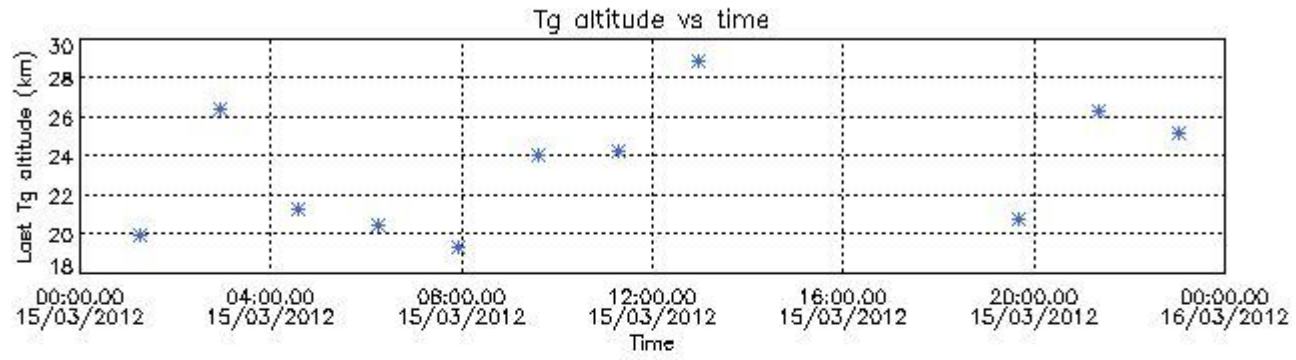
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

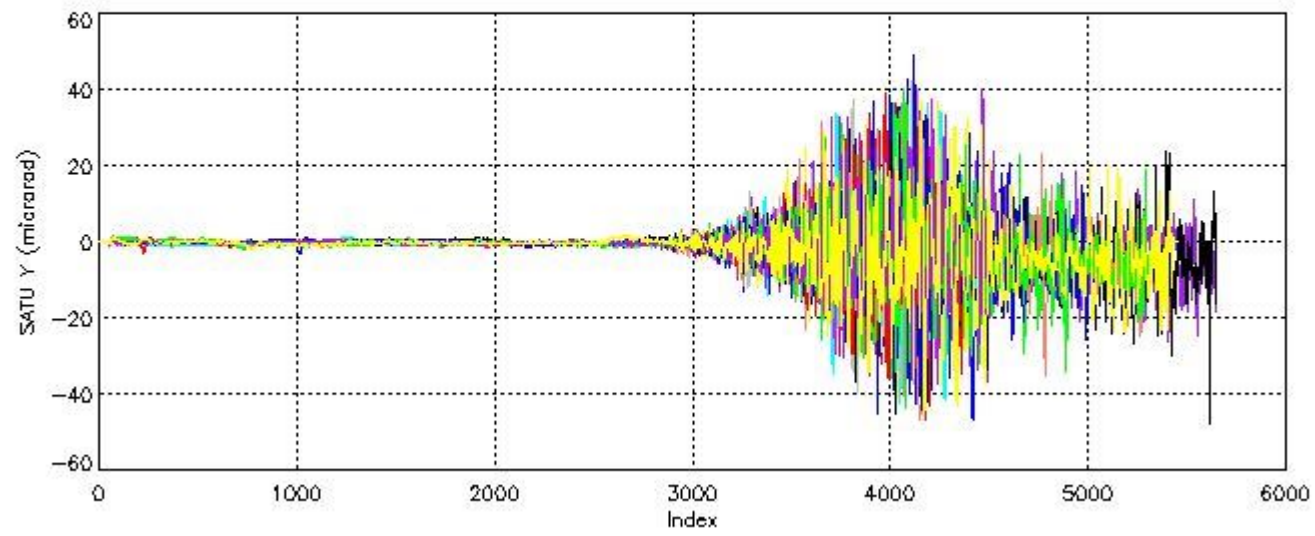
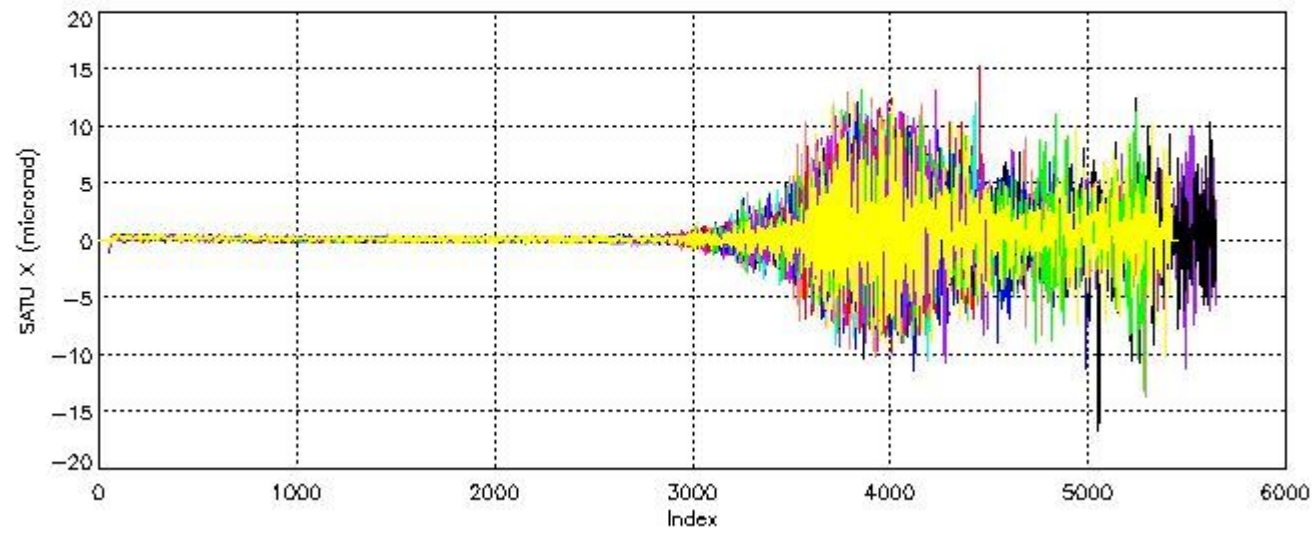


7. Star Acquisition and Tracking Unit (SATU)

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:	0.18372	-0.28214	-0.0088693	-0.36122
St. deviation:	0.12003	0.35575	0.44861	0.58576
Maximum:	0.60000	1.4000	1.9000	2.2000
Minimum:	-1.0000	-2.9000	-2.0000	-2.9000

Number of data:	14250.	14250.	9800.0	9800.0
90Percentile:	0.30000	0.20000	0.60000	0.40000

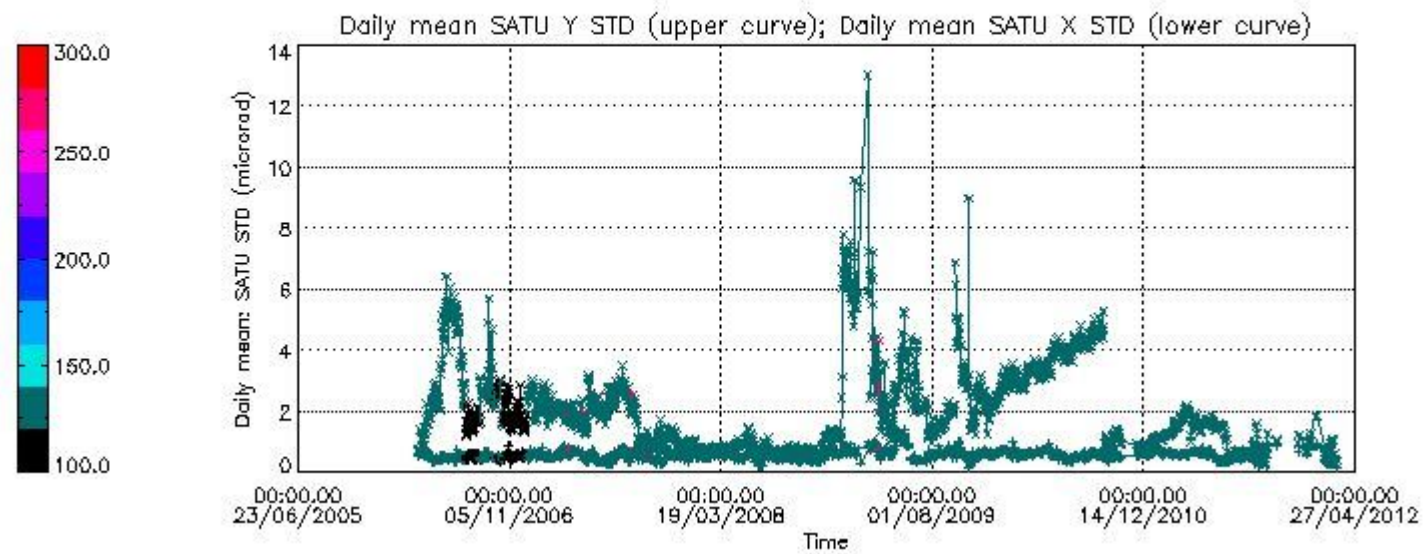
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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.

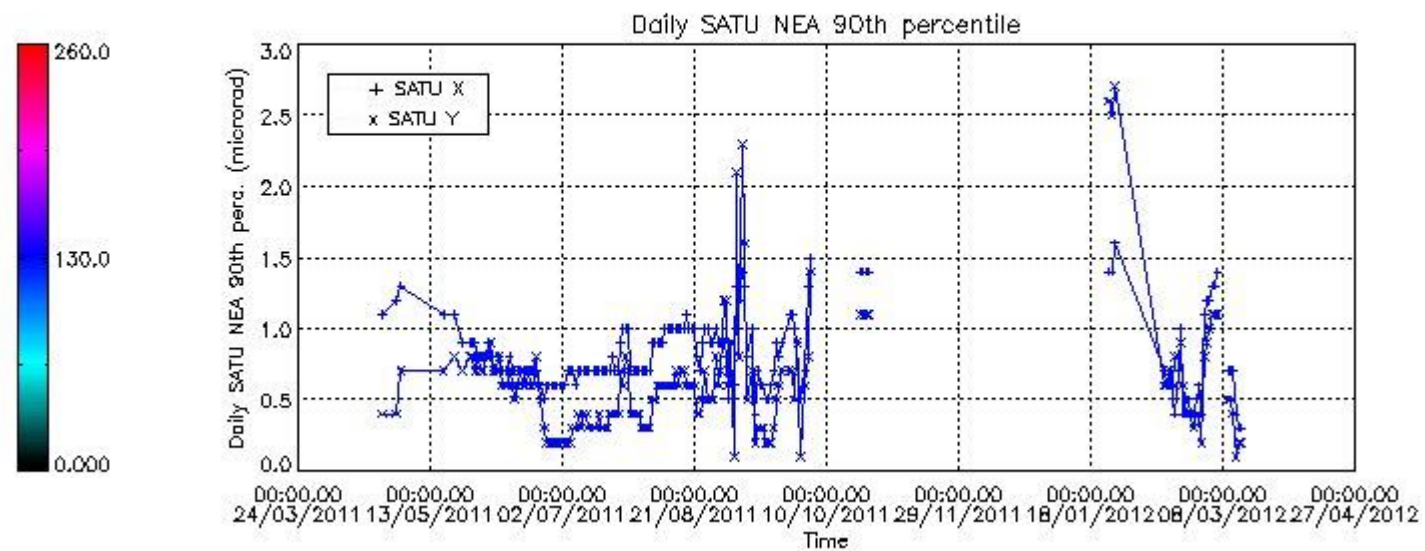
Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis



Lower curve: 90th percentile of SATU Y axis

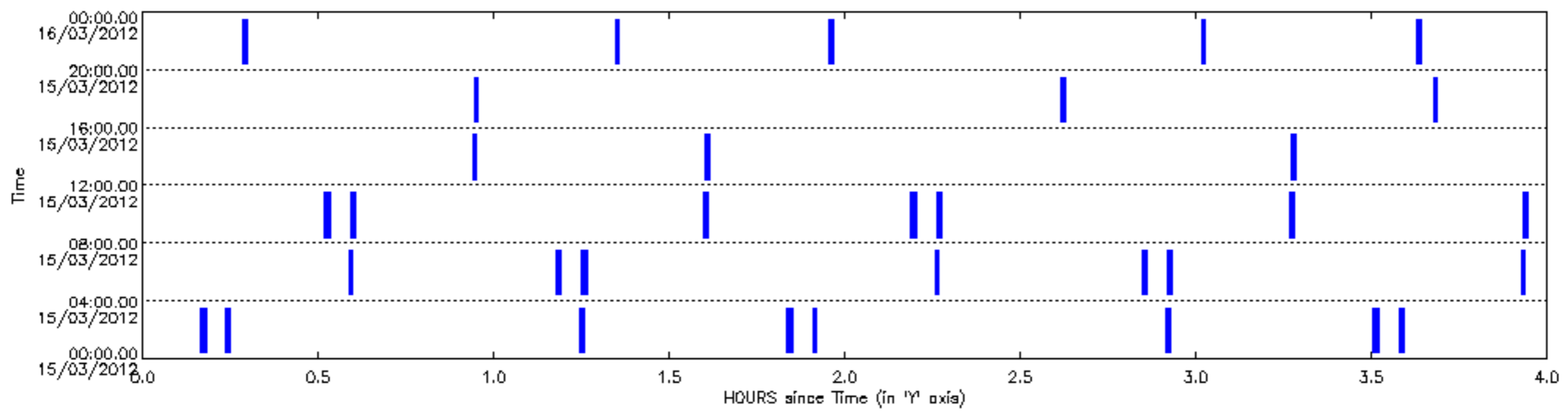
Upper curve: 90th percentile of SATU X axis

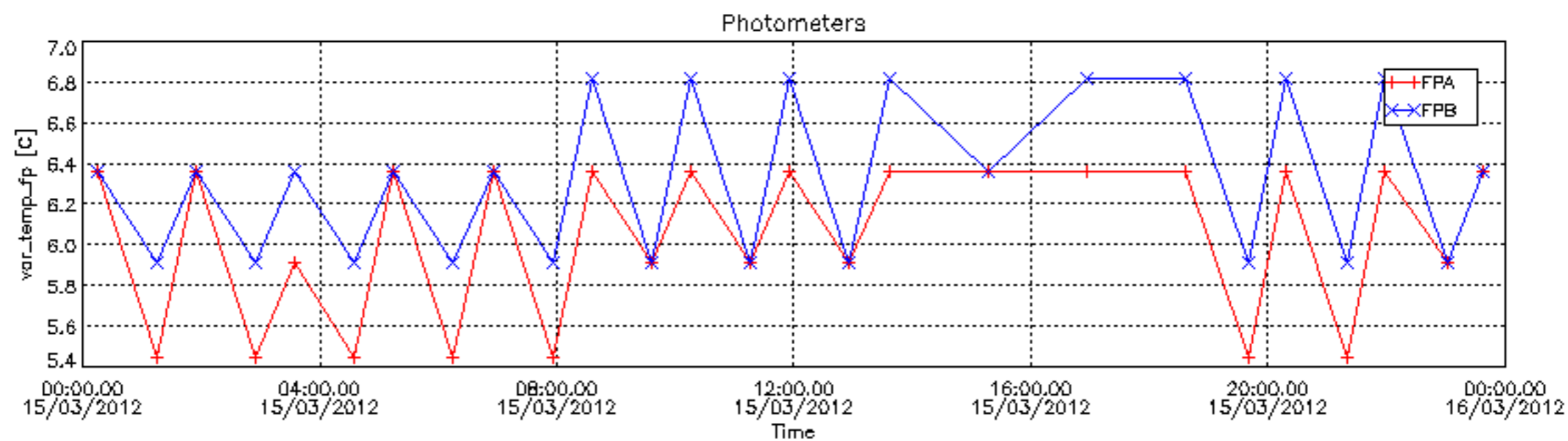
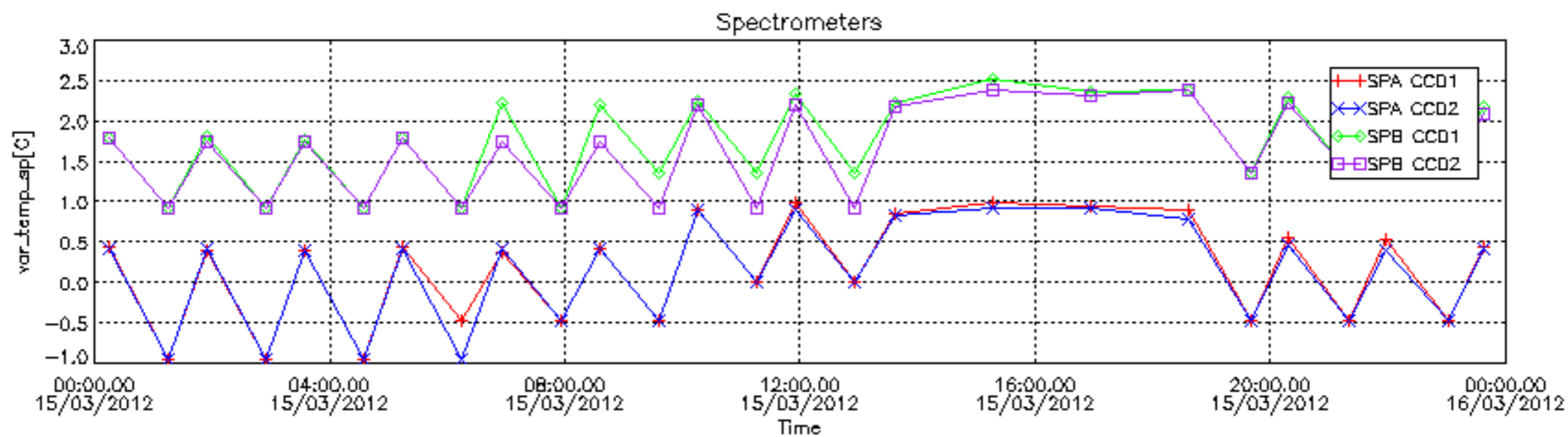


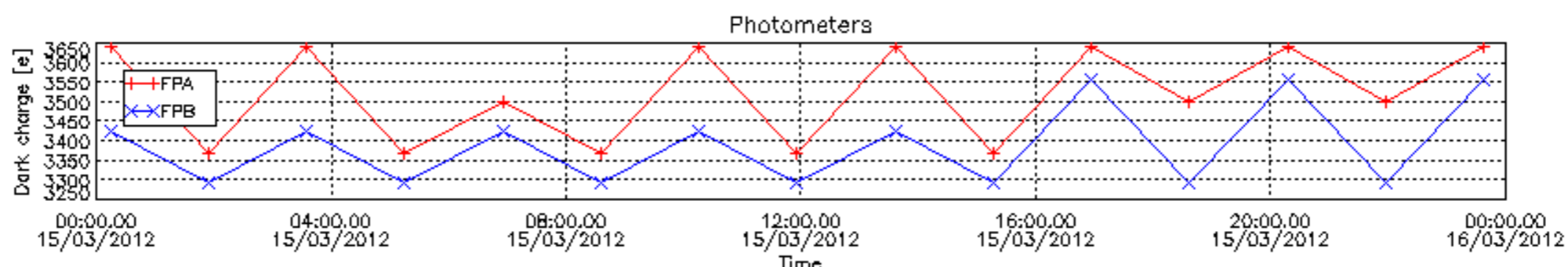
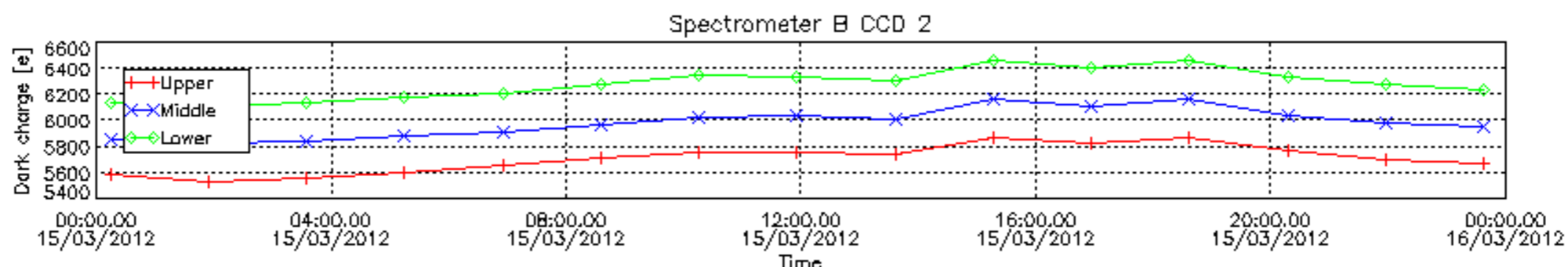
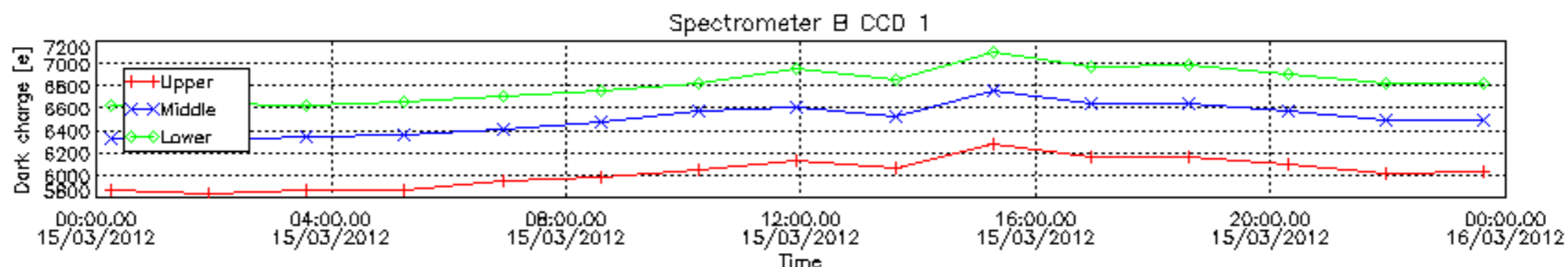
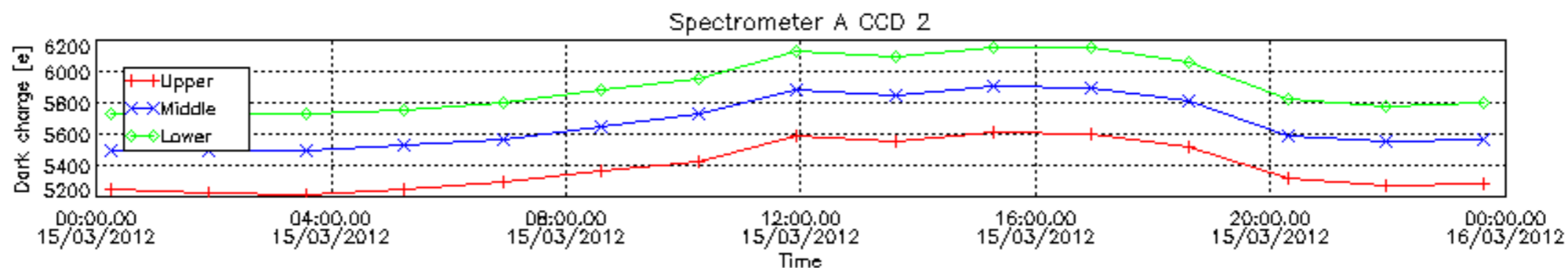
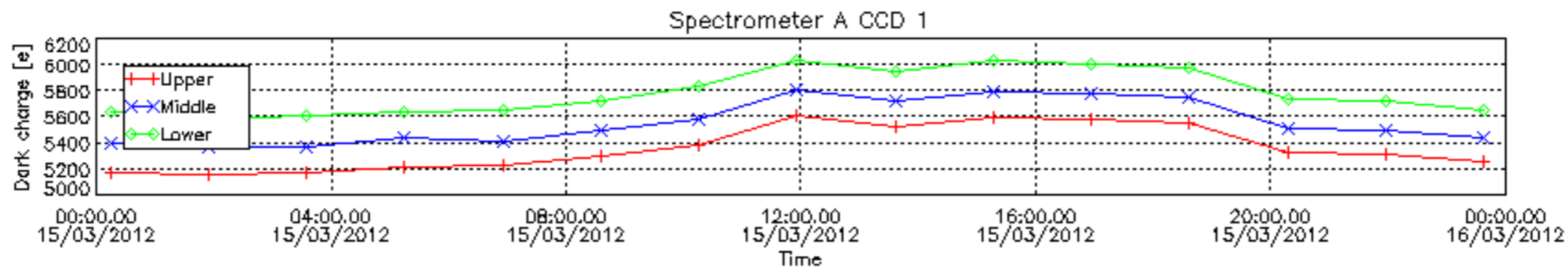
8. Auxiliary Data Files used for the production reported in section 2.4

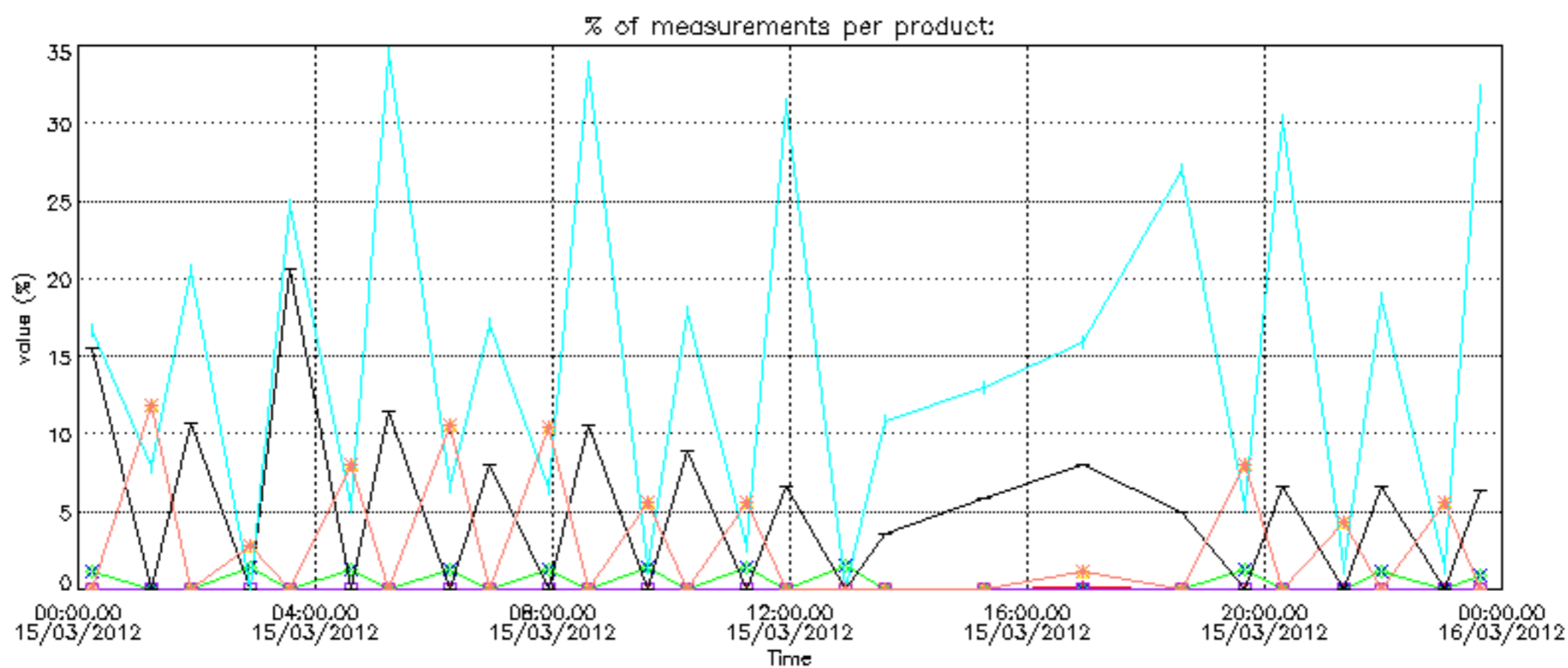
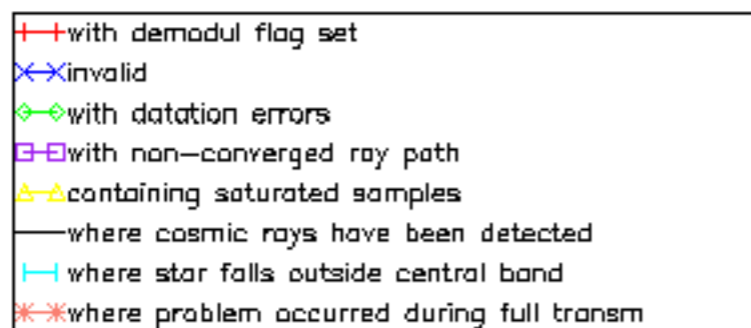
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	15-MAR-2012 00:14:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20120307_084038_20120305_000000_20500101_000000	1	15-MAR-2012 00:14:11
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	15-MAR-2012 00:14:11
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-MAR-2012 00:14:11
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	15-MAR-2012 00:14:11
ECMWF_FILE	AUX_ECF_AXNECM20120314_062116_20120314_210000_20120315_090000	1	15-MAR-2012 00:14:11
ECMWF_FILE	AUX_ECF_AXNECM20120314_182802_20120315_030000_20120315_150000	6	15-MAR-2012 04:35:10
ECMWF_FILE	AUX_ECA_AXNECM20120315_062113_20120314_210000_20120315_090000	8	15-MAR-2012 06:15:24
ECMWF_FILE	AUX_ECF_AXNECM20120315_062114_20120315_090000_20120315_210000	12	15-MAR-2012 09:35:53
ECMWF_FILE	AUX_ECA_AXNECM20120315_181040_20120315_090000_20120315_210000	17	15-MAR-2012 13:36:07
ECMWF_FILE	AUX_ECF_AXNECM20120315_062114_20120315_150000_20120316_030000	19	15-MAR-2012 16:56:36
ECMWF_FILE	AUX_ECA_AXNECM20120315_181040_20120315_090000_20120315_210000	20	15-MAR-2012 18:36:51
ECMWF_FILE	AUX_ECF_AXNECM20120315_062115_20120315_210000_20120316_090000	23	15-MAR-2012 21:20:49
OPTIONAL_ECMWF_FILE	MISSING	1	15-MAR-2012 00:14:11
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120314_231646_20120314_122315_20120324_125642	1	15-MAR-2012 00:14:11
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120315_111646_20120314_190411_20120324_211752	14	15-MAR-2012 11:16:06
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120315_232310_20120315_182726_20120325_204107	26	15-MAR-2012 23:37:34

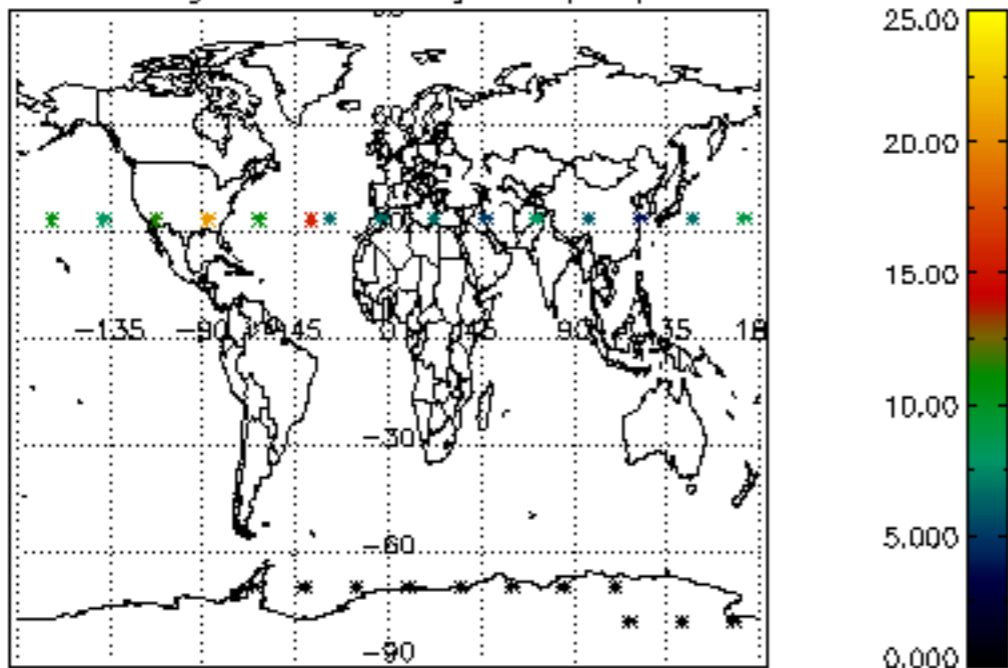




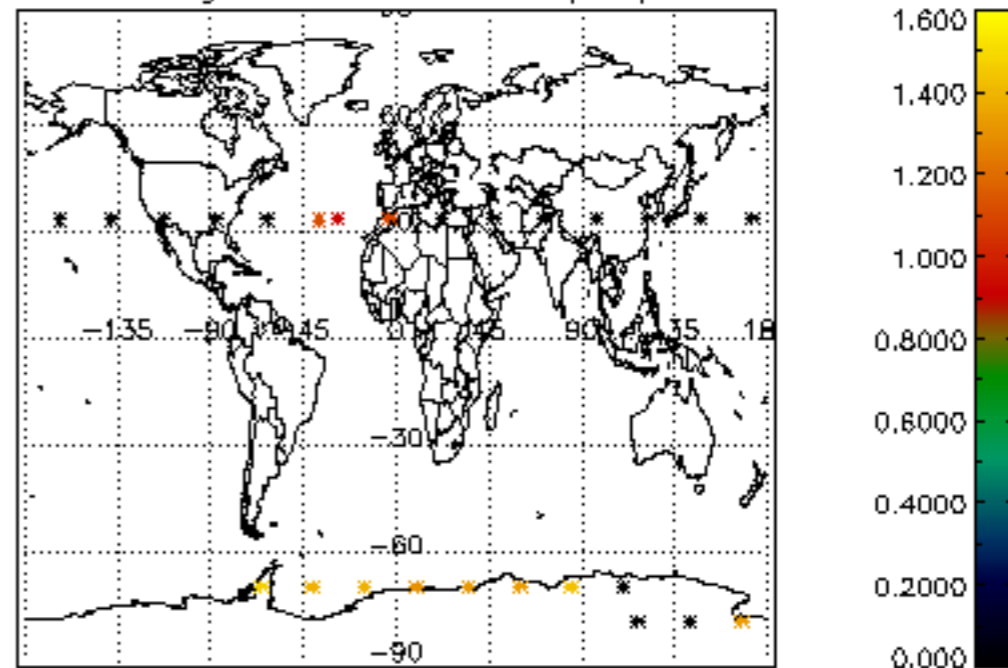




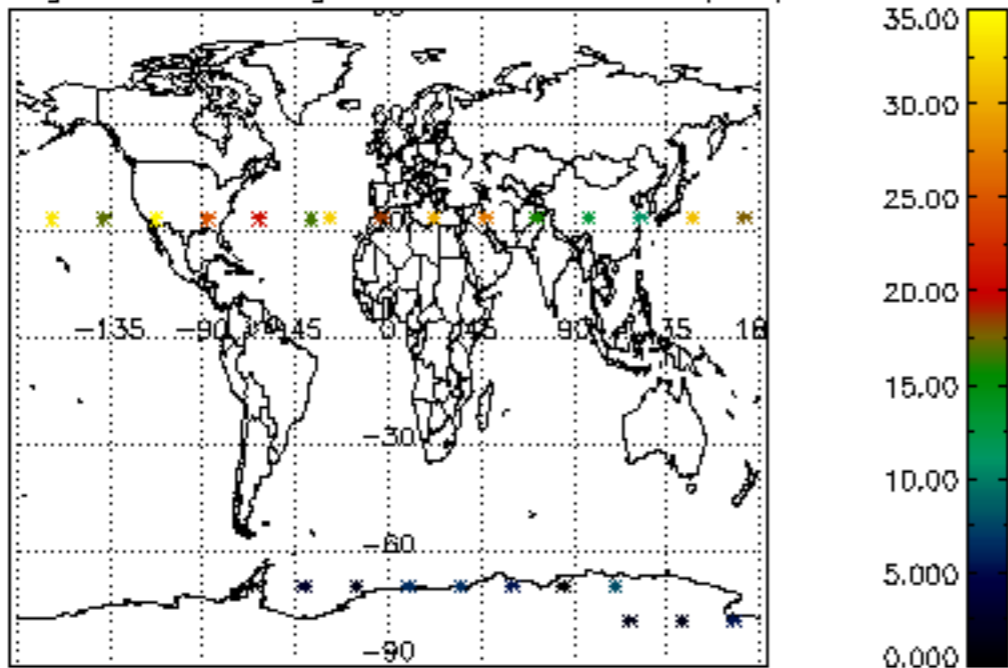
Percentage of cosmic ray hits per profile



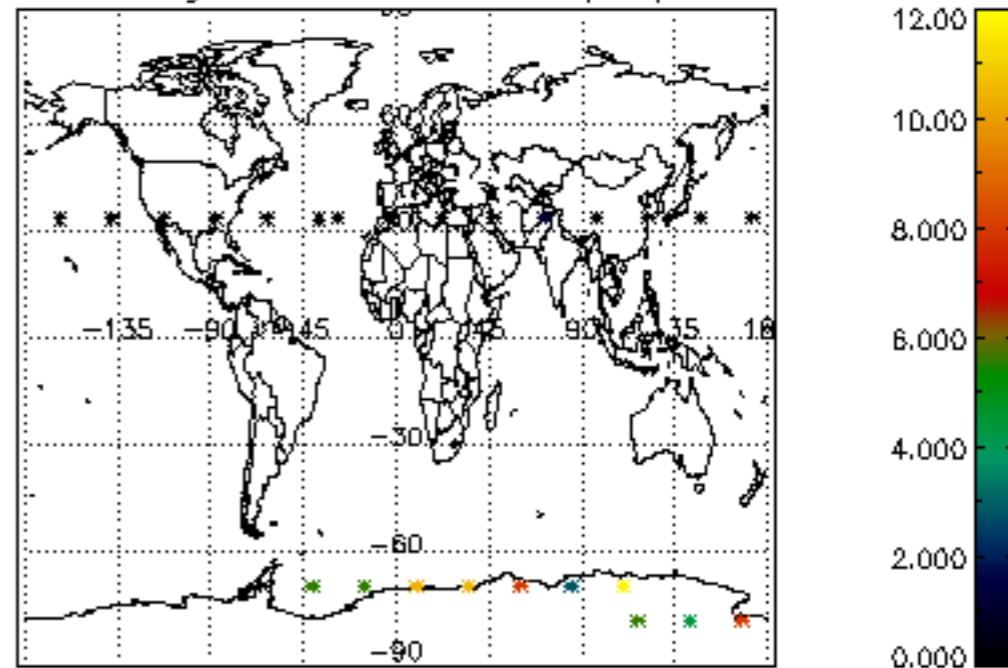
Percentage of datation errors per profile



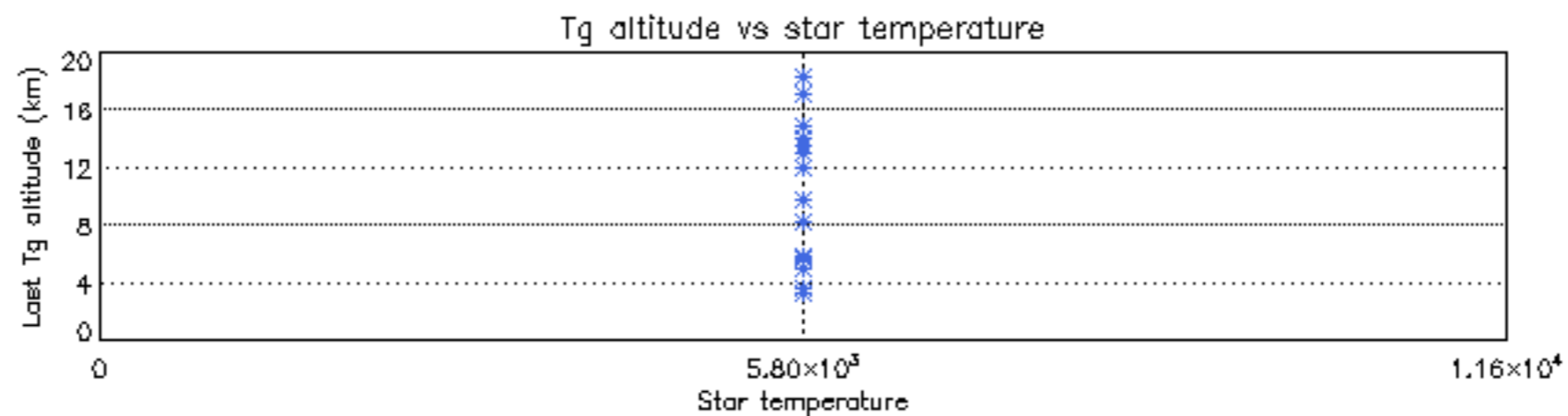
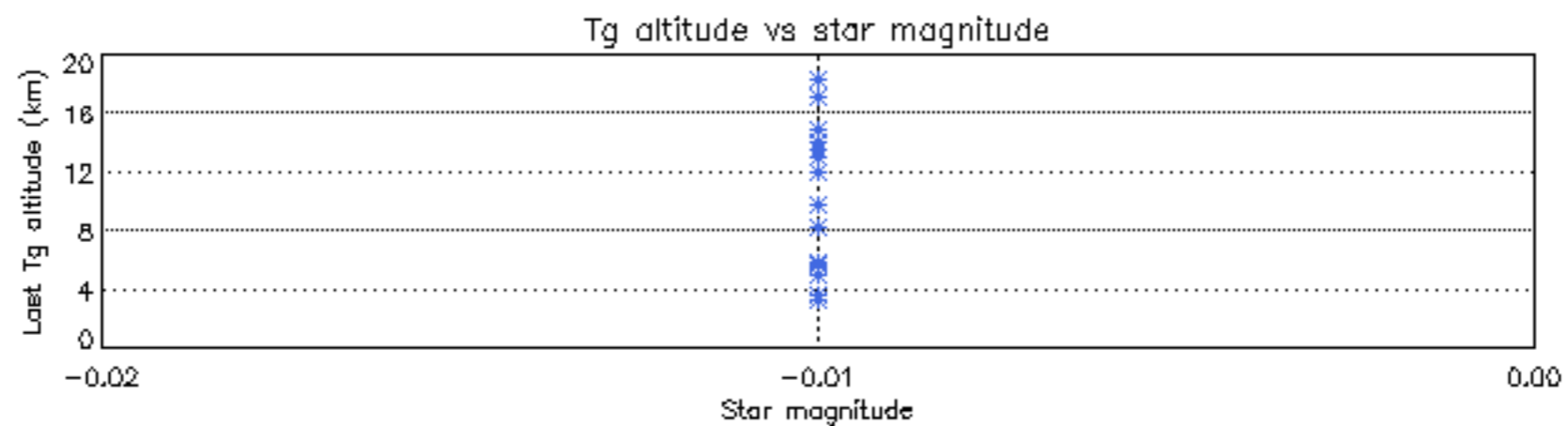
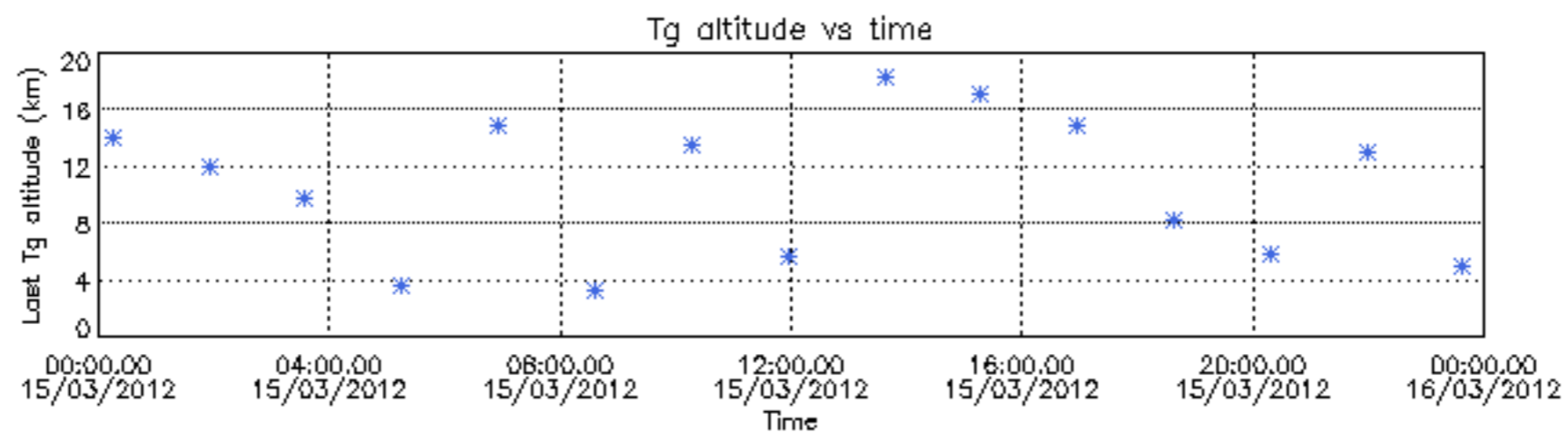
Percentage of star falling outside central band per profile



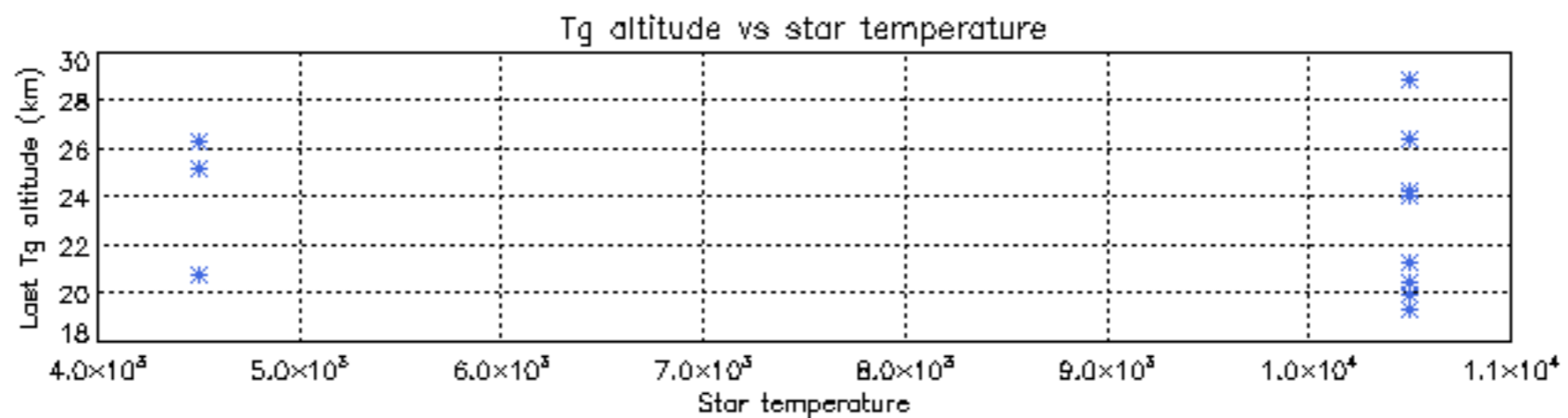
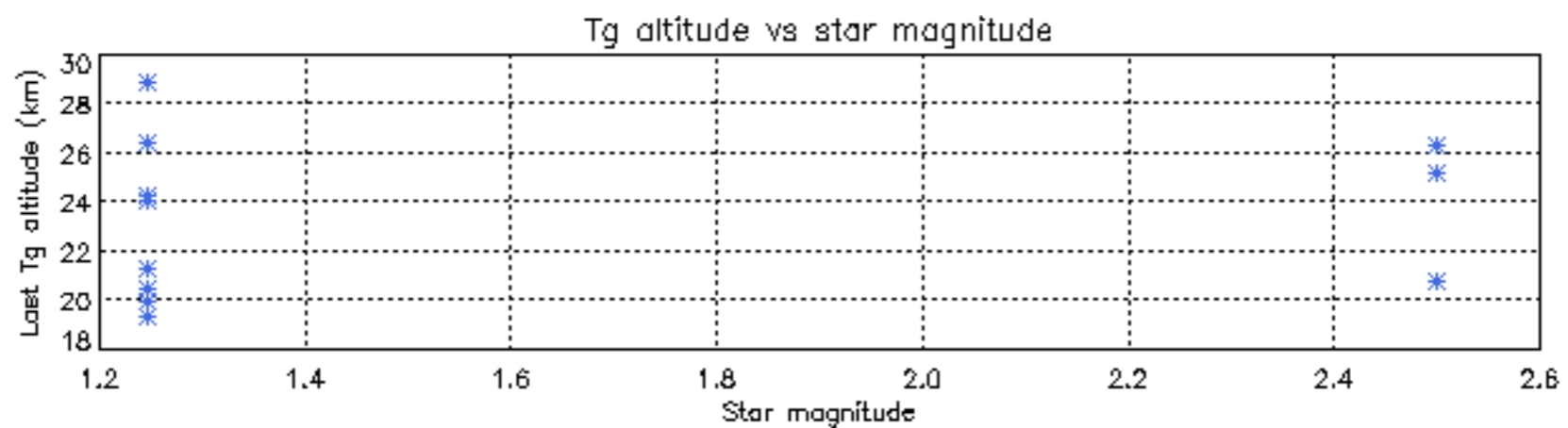
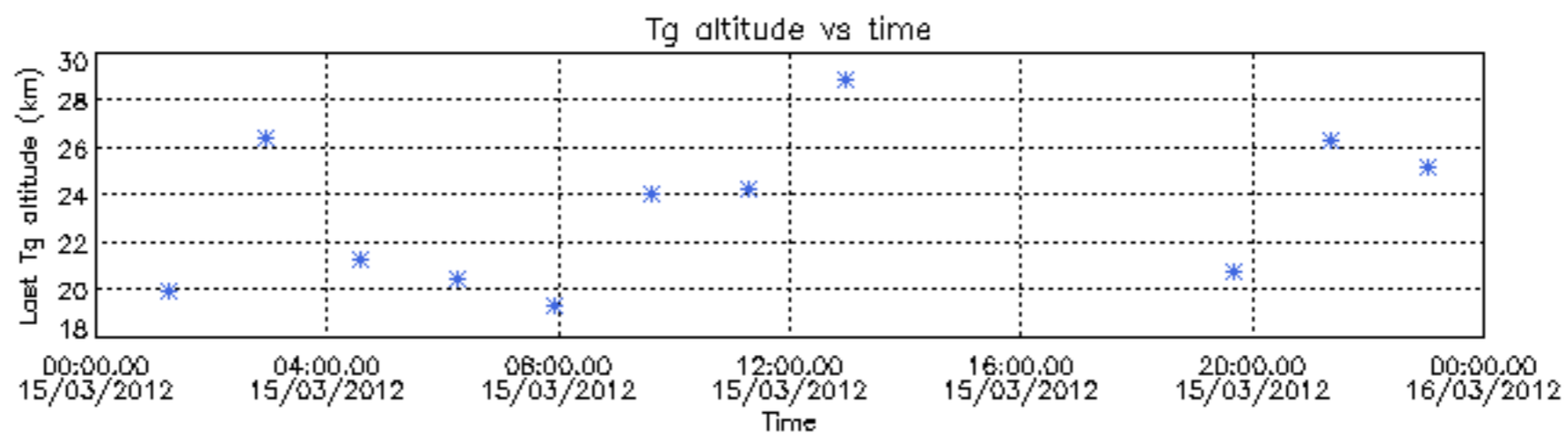
Percentage of saturation errors per profile

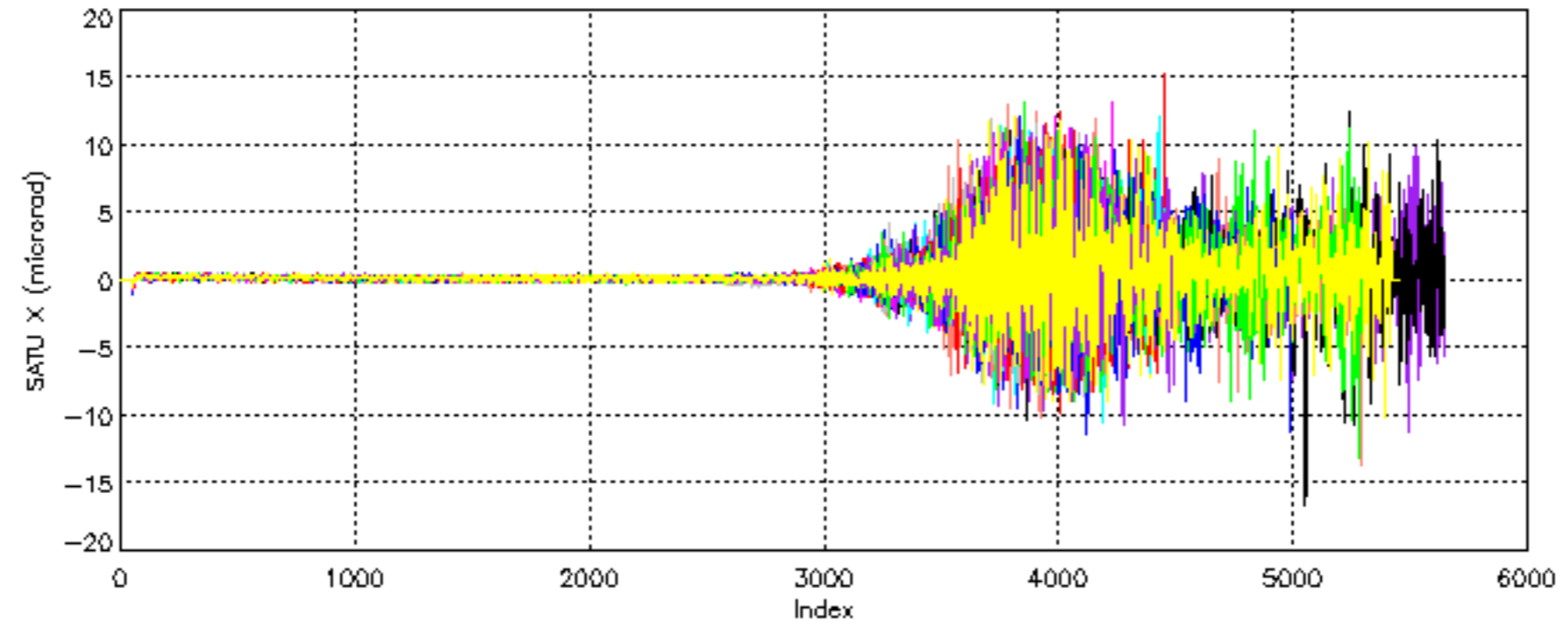


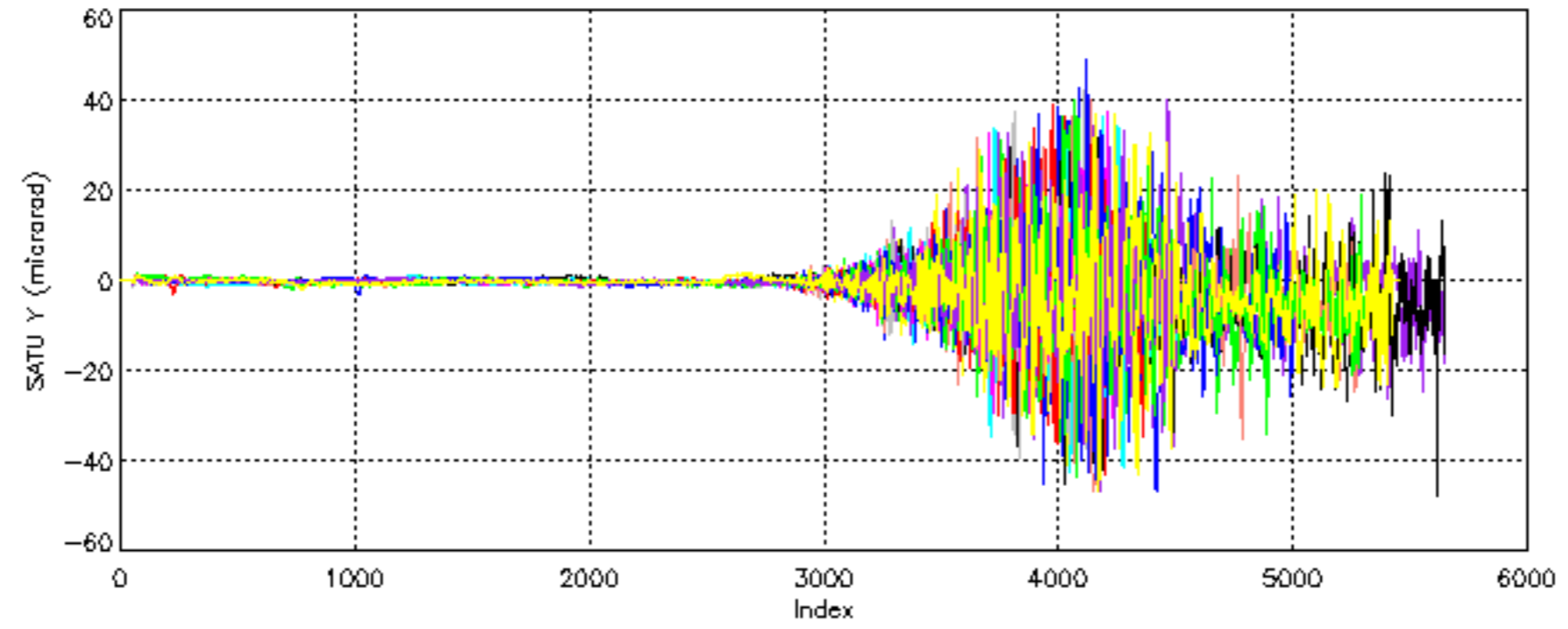
Tangent altitude at which the star is lost

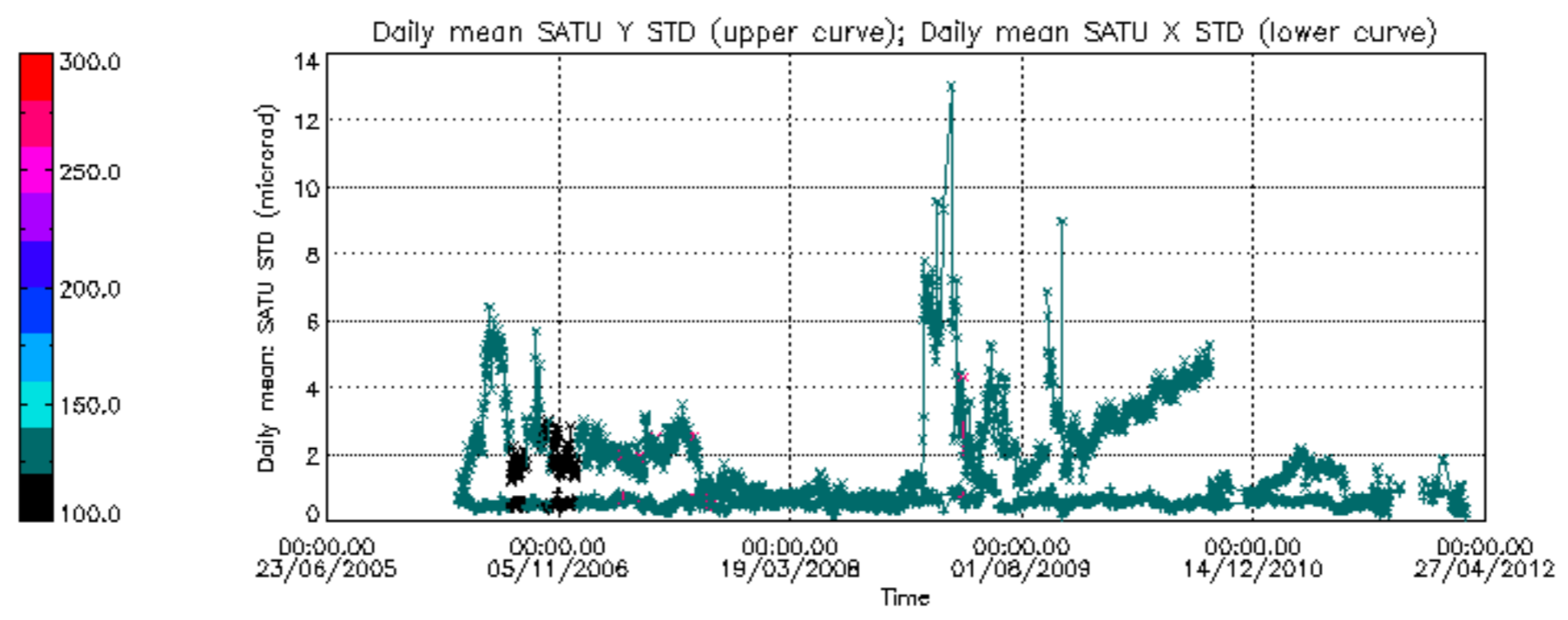


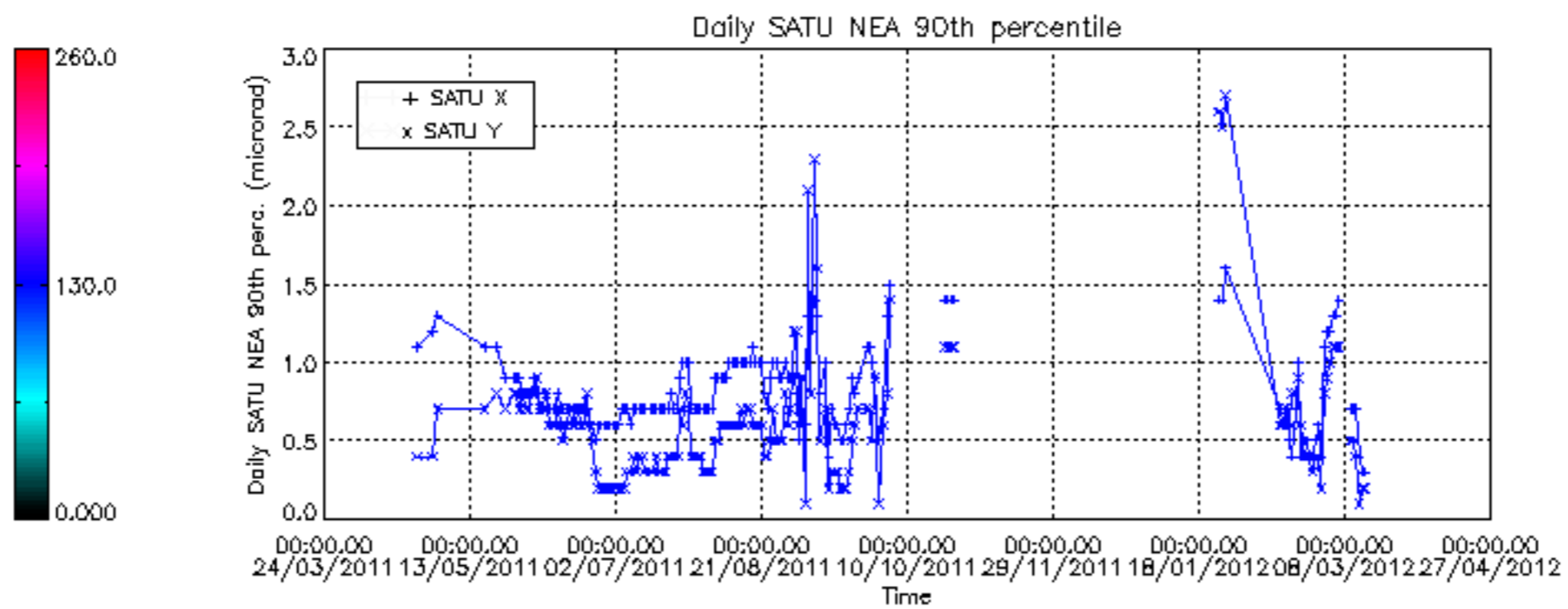
Tangent altitude at which the star is lost











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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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120301_062846_000023863112_00149_52318_5720.N1
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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
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2; -10.3; 02-MAR-2012 04:41:58; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;52331
3; 532.0; 02-MAR-2012 04:51:00; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;52332

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

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

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

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

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2; -8.4; 02-MAR-2012 09:42:42; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52334
3; 533.6; 02-MAR-2012 09:51:44; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;52335
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2; -7.6; 02-MAR-2012 11:22:56; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;52335
3; 534.1; 02-MAR-2012 11:31:58; Dark ; 52.0; 10; Bet Cen ; 0.61; 28000;occ; 104; 0;52336
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2; -7.0; 02-MAR-2012 13:03:11; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;52336
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2; -6.3; 02-MAR-2012 14:43:25; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;52337
3; 536.9; 02-MAR-2012 14:52:29; Dark ; 39.5; 10; Bet Cen ; 0.61; 28000;occ; 79; 0;52338
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3; 4190.0; 15-MAR-2012 01:14:42; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;52516
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2; 559.3; 15-MAR-2012 01:54:26; Dark ; 46.5; 4; Alp1Cen ;-0.01; 5800;occ; 93; 0;52517
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2; 296.6; 15-MAR-2012 03:30:17; Dark ; 56.5; 0; ; 0.00; 0;occ; 113; 0;52518
3; 560.0; 15-MAR-2012 03:34:40; Dark ; 48.5; 4; Alp1Cen ;-0.01; 5800;occ; 97; 0;52518
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2; 297.2; 15-MAR-2012 05:10:31; Dark ; 56.5; 0; ; 0.00; 0;occ; 113; 0;52519
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2; 4389.0; 15-MAR-2012 23:01:03; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;52529
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2; 298.9; 15-MAR-2012 10:11:15; Dark ; 54.5; 0; ; 0.00; 0;occ; 109; 0;52522
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3; 8872.6; 24-MAR-2012 03:42:57; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0; -1
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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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3; 3884.5; 26-MAR-2012 12:47:57; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0; -1
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3; 3884.6; 26-MAR-2012 14:28:11; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0; -1
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2; 2655.8; 26-MAR-2012 19:08:24; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0; -1
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