

# GOMOS Daily Report 03-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	07MAR2012 07:01:38
Data source version	GOMOS/6.01
Start time of products	03MAR2012 02:16:37
Stop time of products	03MAR2012 23:57:53
Store outputs in DB	Yes
Nb of level 1b prods	22
Nb of prods with errors	0

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

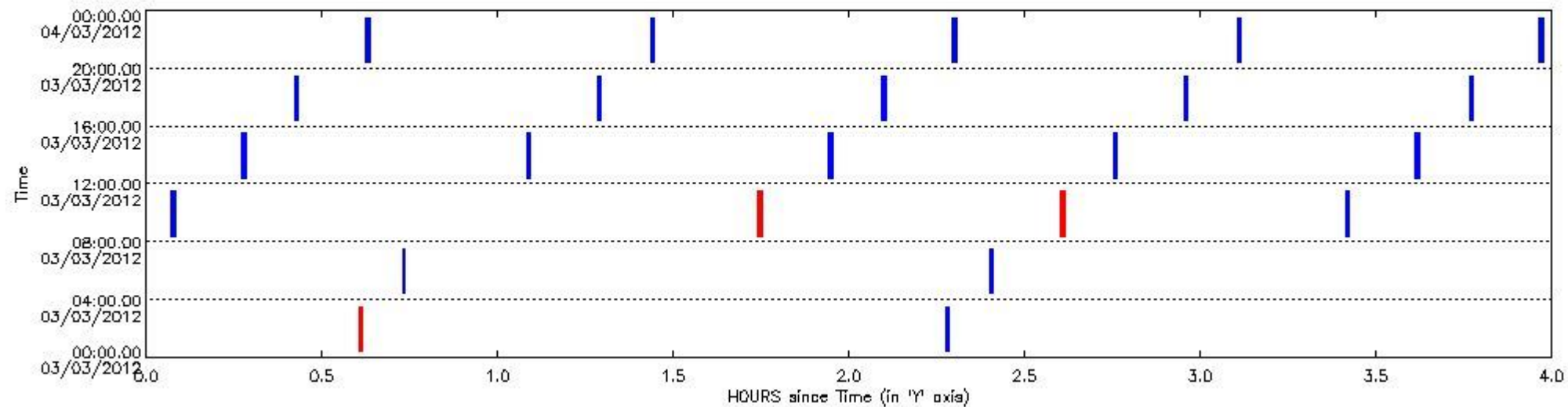
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

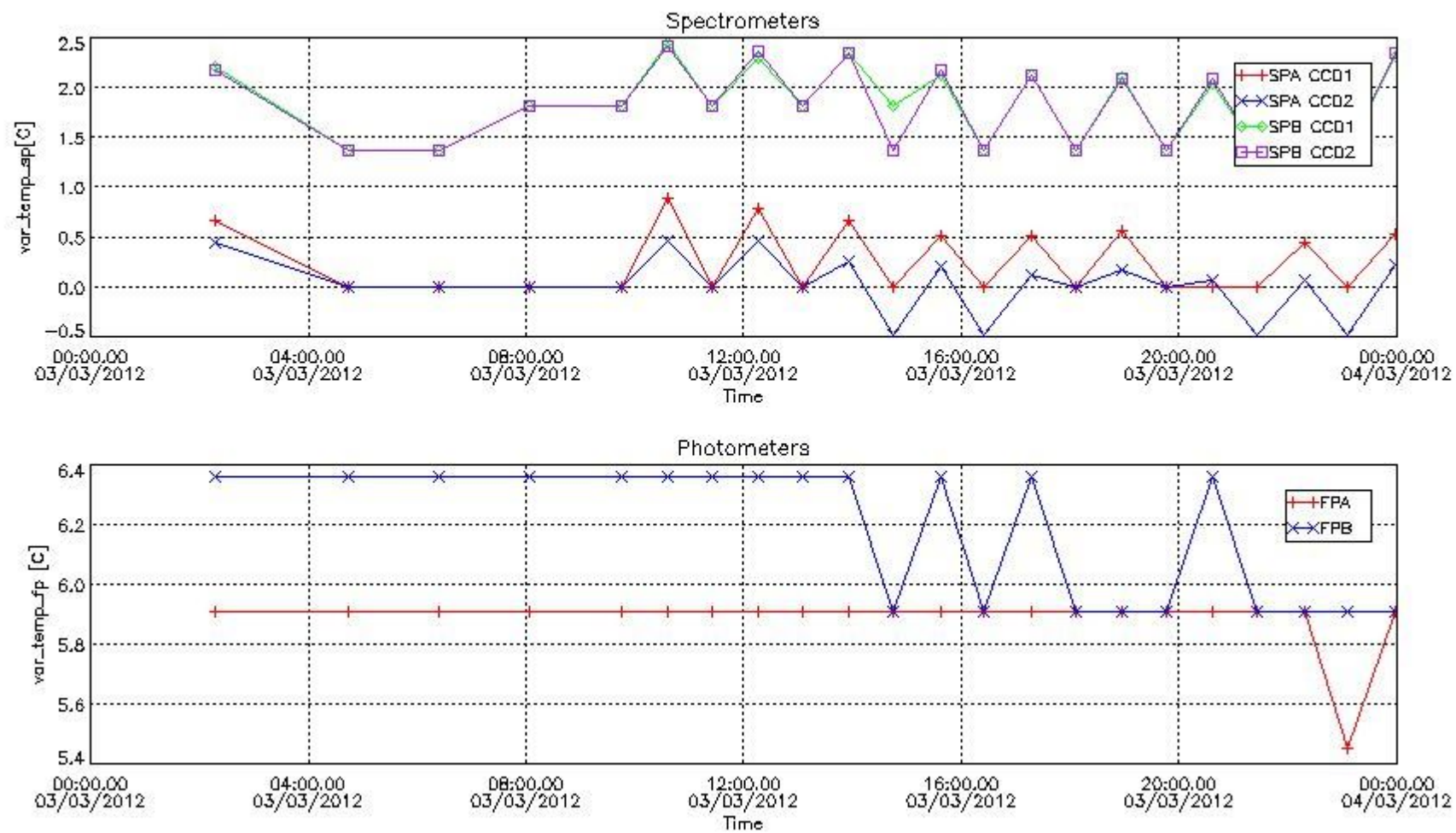
UTC start time	Star name	Star ID	Orbit
03-MAR-2012 00:36:22	34SigSgr	57	52357
03-MAR-2012 09:44:27	17EpsLeo	166	52362
03-MAR-2012 10:35:56	41PiSgr	155	52363

### 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_1PNPDE20120303_021637_000000313112_00175_52344_4461.N1	03-MAR-2012 02:16:37	Dark	30.500	57	34Sig Sgr	2.0660	26000.	61	52344	No
2	GOM_TRA_1PNPDE20120303_044346_000000273112_00177_52346_4515.N1	03-MAR-2012 04:43:46	Twilight_and_stray	26.500	166	17Eps Leo	2.9800	6000.0	53	52346	No
3	GOM_TRA_1PNPDE20120303_062400_000000333112_00178_52347_4567.N1	03-MAR-2012 06:24:00	Bright	32.500	166	17Eps Leo	2.9800	6000.0	65	52347	No
4	GOM_TRA_1PNPDK20120303_080414_000000383112_00179_52348_9285.N1	03-MAR-2012 08:04:14	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	52348	No
5	GOM_TRA_1PNPDK20120303_094428_000000383112_00180_52349_9320.N1	03-MAR-2012 09:44:28	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	52349	No
6	GOM_TRA_1PNPDK20120303_103557_000000463112_00180_52349_9321.N1	03-MAR-2012 10:35:57	Dark	45.500	155	41Pi Sgr	2.9000	6600.0	91	52349	No
7	GOM_TRA_1PNPDK20120303_112442_000000383112_00181_52350_9356.N1	03-MAR-2012 11:24:42	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	52350	No
8	GOM_TRA_1PNPDK20120303_121611_000000433112_00181_52350_9357.N1	03-MAR-2012 12:16:11	Dark	43.000	155	41Pi Sgr	2.9000	6600.0	86	52350	No

9	GOM_TRA_1PNPDK20120303_130455_000000393112_00182_52351_9395.N1	03-MAR-2012 13:04:55	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	52351	No
10	GOM_TRA_1PNPDK20120303_135626_000000423112_00182_52351_9396.N1	03-MAR-2012 13:56:26	Dark	41.500	155	41Pi Sgr	2.9000	6600.0	83	52351	No
11	GOM_TRA_1PNPDK20120303_144509_000000383112_00183_52352_9430.N1	03-MAR-2012 14:45:09	Bright	37.500	166	17Eps Leo	2.9800	6000.0	75	52352	No
12	GOM_TRA_1PNPDK20120303_153640_000000423112_00183_52352_9431.N1	03-MAR-2012 15:36:40	Dark	42.000	155	41Pi Sgr	2.9000	6600.0	84	52352	No
13	GOM_TRA_1PNPDK20120303_162524_000000373112_00184_52353_9453.N1	03-MAR-2012 16:25:24	Bright	37.000	166	17Eps Leo	2.9800	6000.0	74	52353	No
14	GOM_TRA_1PNPDK20120303_171655_000000453112_00184_52353_9454.N1	03-MAR-2012 17:16:55	Dark	44.500	155	41Pi Sgr	2.9000	6600.0	89	52353	No
15	GOM_TRA_1PNPDK20120303_180538_000000393112_00185_52354_9483.N1	03-MAR-2012 18:05:38	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	52354	No
16	GOM_TRA_1PNPDK20120303_185710_000000443112_00185_52354_9484.N1	03-MAR-2012 18:57:10	Dark	43.500	155	41Pi Sgr	2.9000	6600.0	87	52354	No
17	GOM_TRA_1PNPDK20120303_194552_000000393112_00186_52355_9512.N1	03-MAR-2012 19:45:52	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	52355	No
18	GOM_TRA_1PNPDK20120303_203725_000000423112_00186_52355_9513.N1	03-MAR-2012 20:37:25	Dark	42.000	155	41Pi Sgr	2.9000	6600.0	84	52355	No
19	GOM_TRA_1PNPDE20120303_212605_000000393112_00187_52356_4764.N1	03-MAR-2012 21:26:05	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	52356	No
20	GOM_TRA_1PNPDE20120303_221739_000000433112_00187_52356_4800.N1	03-MAR-2012 22:17:39	Dark	42.500	155	41Pi Sgr	2.9000	6600.0	85	52356	No
21	GOM_TRA_1PNPDE20120303_230619_000000383112_00188_52357_4801.N1	03-MAR-2012 23:06:19	Bright	38.000	166	17Eps Leo	2.9800	6000.0	76	52357	No
22	GOM_TRA_1PNPDE20120303_235753_000000463112_00188_52357_4825.N1	03-MAR-2012 23:57:53	Dark	45.500	155	41Pi Sgr	2.9000	6600.0	91	52357	No

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



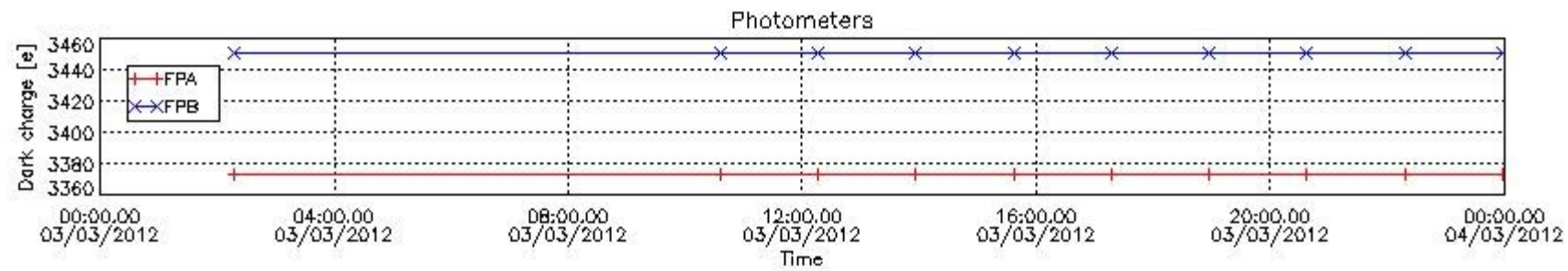
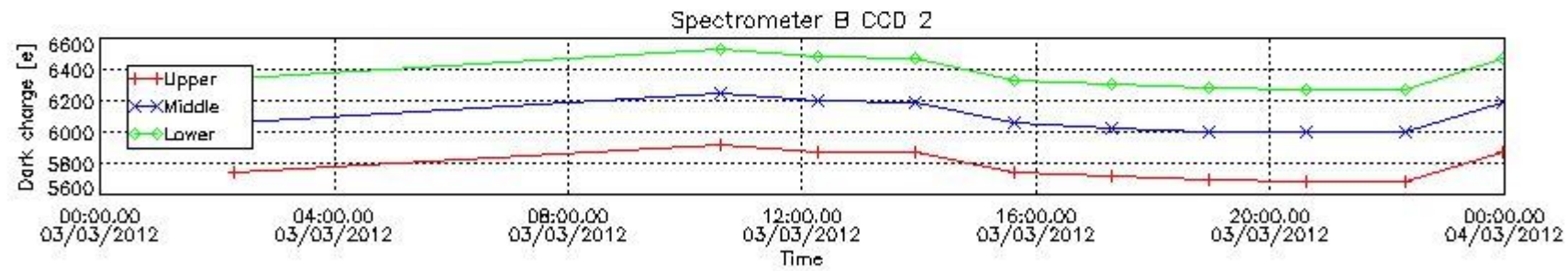
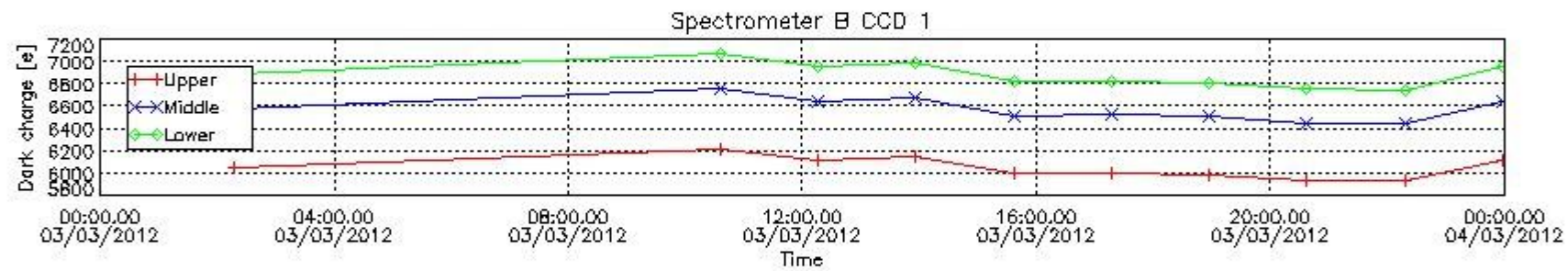
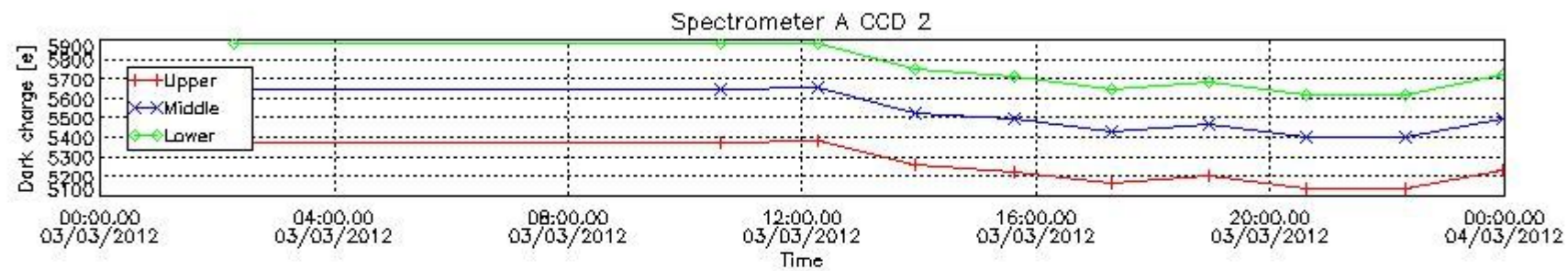
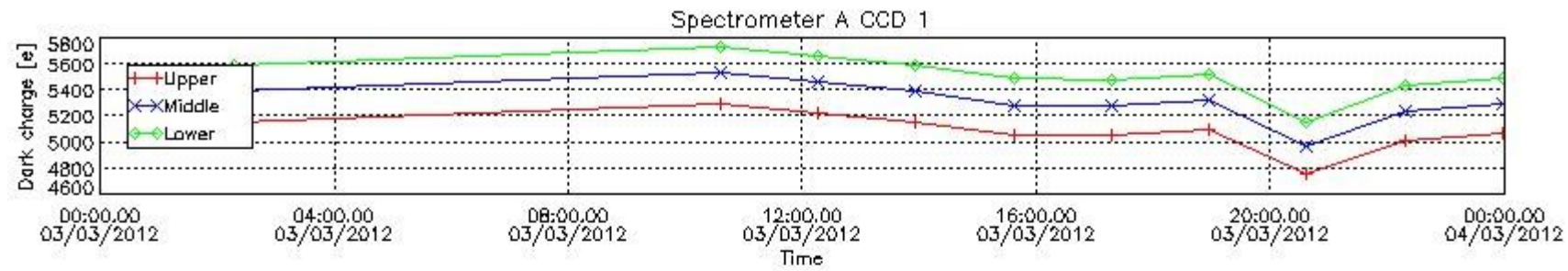
### 4. Overview of dark signal processing per product

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_1PNPDE20120303_021637_000000313112_00175_52344_4461.N1	DC map used
GOM_TRA_1PNPDE20120303_044346_000000273112_00177_52346_4515.N1	DC map used
GOM_TRA_1PNPDE20120303_062400_000000333112_00178_52347_4567.N1	DC map used
GOM_TRA_1PNPDK20120303_080414_000000383112_00179_52348_9285.N1	DC map used
GOM_TRA_1PNPDK20120303_094428_000000383112_00180_52349_9320.N1	DC map used
GOM_TRA_1PNPDK20120303_103557_000000463112_00180_52349_9321.N1	DC map used
GOM_TRA_1PNPDK20120303_112442_000000383112_00181_52350_9356.N1	DC map used
GOM_TRA_1PNPDK20120303_121611_000000433112_00181_52350_9357.N1	DC map used
GOM_TRA_1PNPDK20120303_130455_000000393112_00182_52351_9395.N1	DC map used
GOM_TRA_1PNPDK20120303_135626_000000423112_00182_52351_9396.N1	DC map used
GOM_TRA_1PNPDK20120303_144509_000000383112_00183_52352_9430.N1	DC map used
GOM_TRA_1PNPDK20120303_153640_000000423112_00183_52352_9431.N1	DC map used
GOM_TRA_1PNPDK20120303_162524_000000373112_00184_52353_9453.N1	DC map used
GOM_TRA_1PNPDK20120303_171655_000000453112_00184_52353_9454.N1	DC map used
GOM_TRA_1PNPDK20120303_180538_000000393112_00185_52354_9483.N1	DC map used
GOM_TRA_1PNPDK20120303_185710_000000443112_00185_52354_9484.N1	DC map used
GOM_TRA_1PNPDK20120303_194552_000000393112_00186_52355_9512.N1	DC map used
GOM_TRA_1PNPDK20120303_203725_000000423112_00186_52355_9513.N1	DC map used
GOM_TRA_1PNPDE20120303_212605_000000393112_00187_52356_4764.N1	DC map used
GOM_TRA_1PNPDE20120303_221739_000000433112_00187_52356_4800.N1	DC map used
GOM_TRA_1PNPDE20120303_230619_000000383112_00188_52357_4801.N1	DC map used
GOM_TRA_1PNPDE20120303_235753_000000463112_00188_52357_4825.N1	DC map used

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



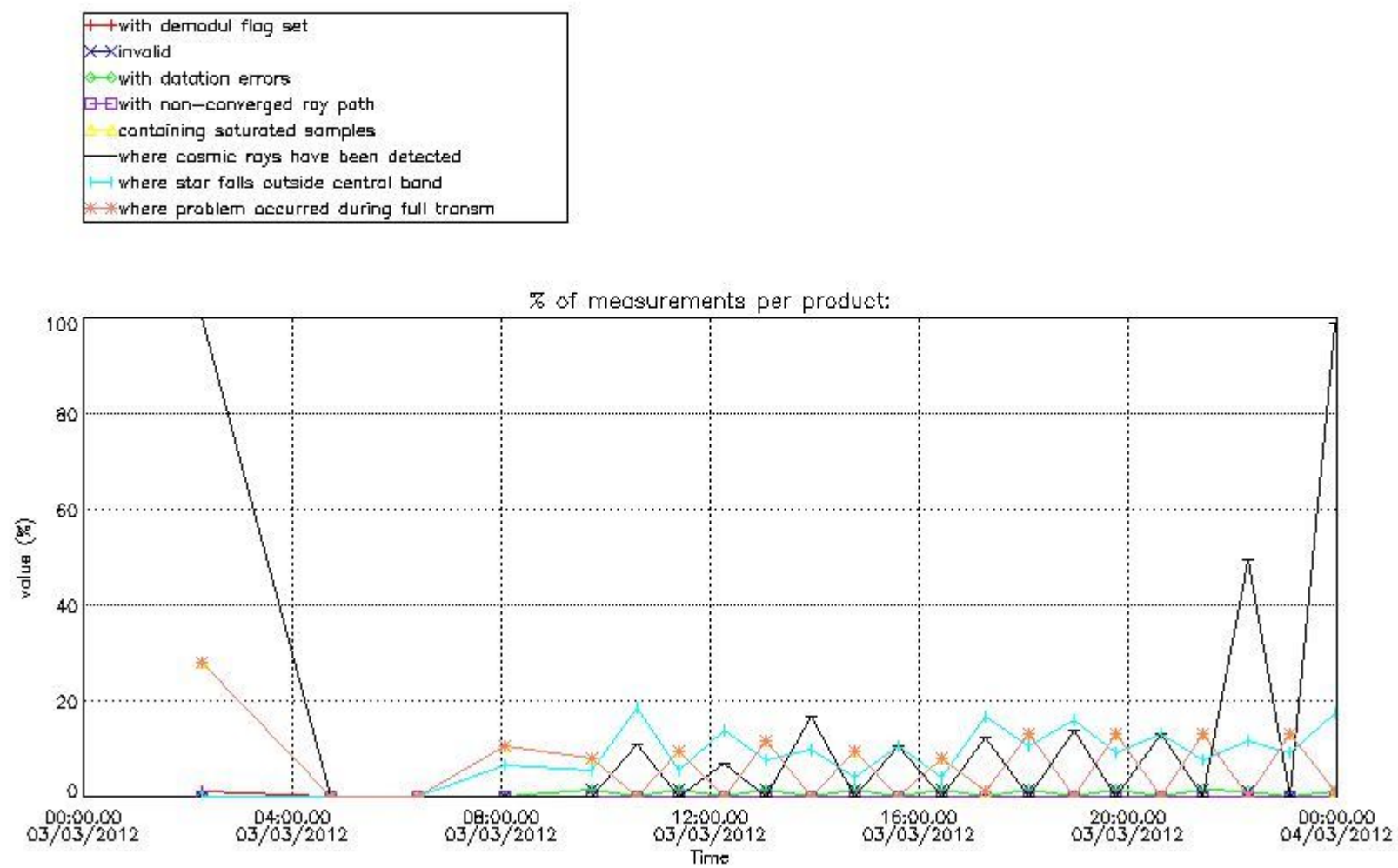
## 5. Demodulation flag and quality information monitoring

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.

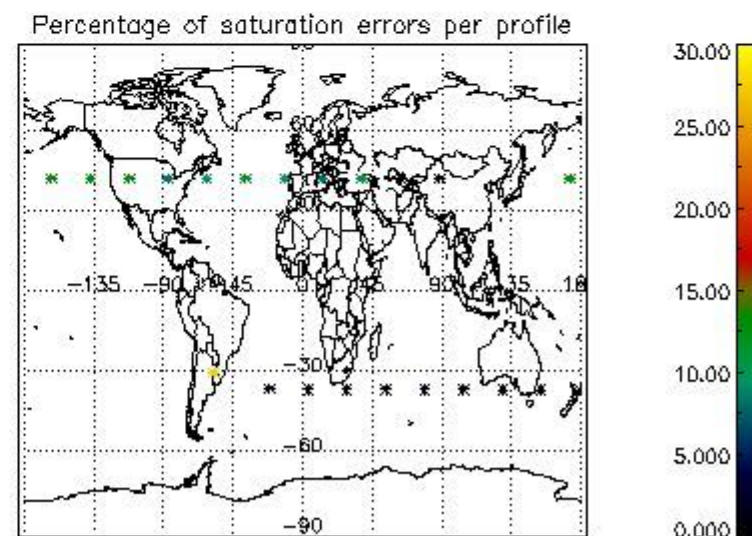
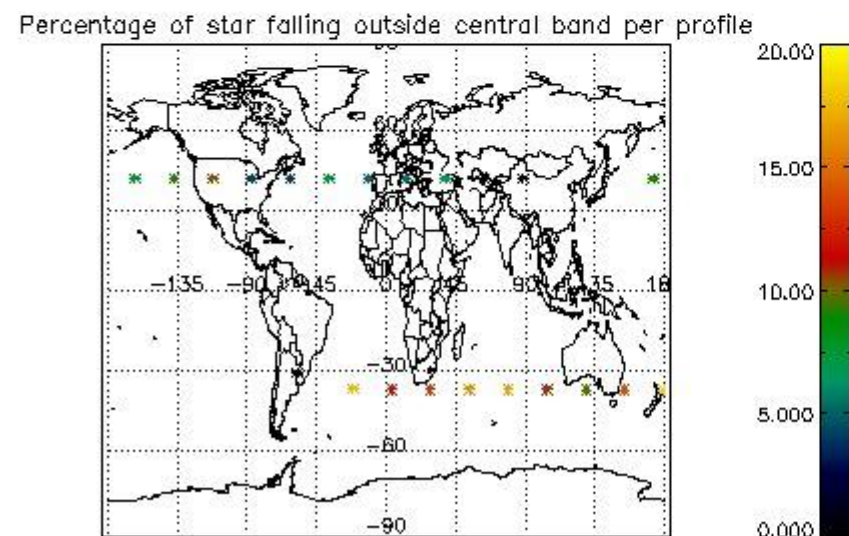
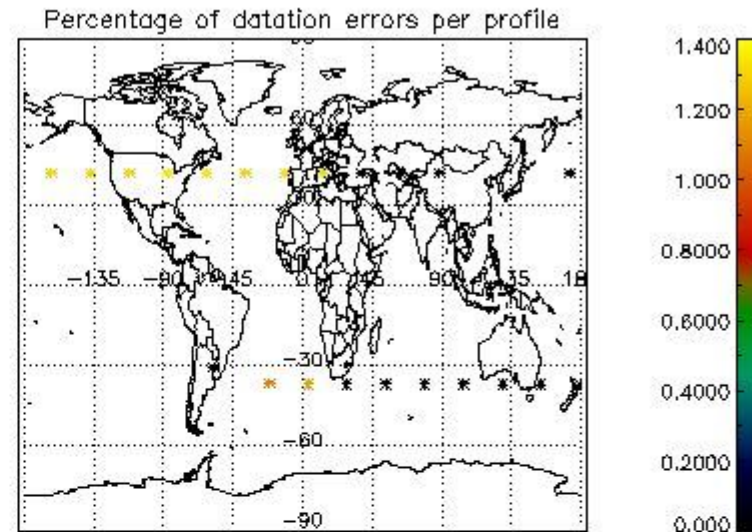
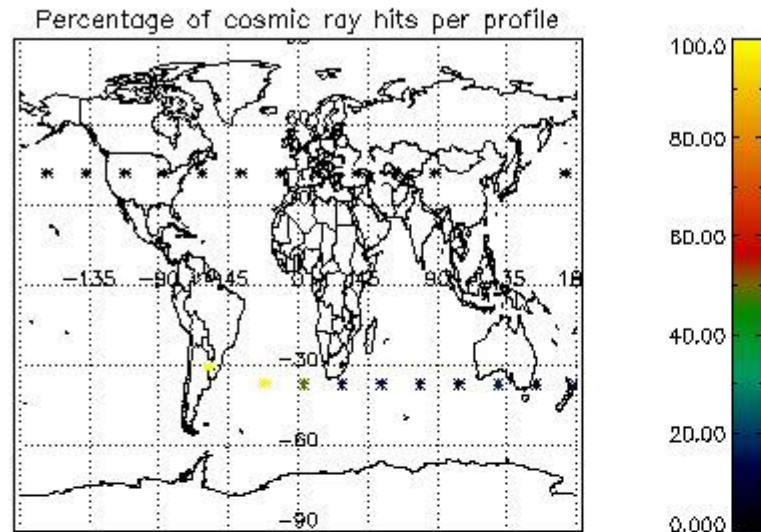
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	45.4545 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	50.0000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



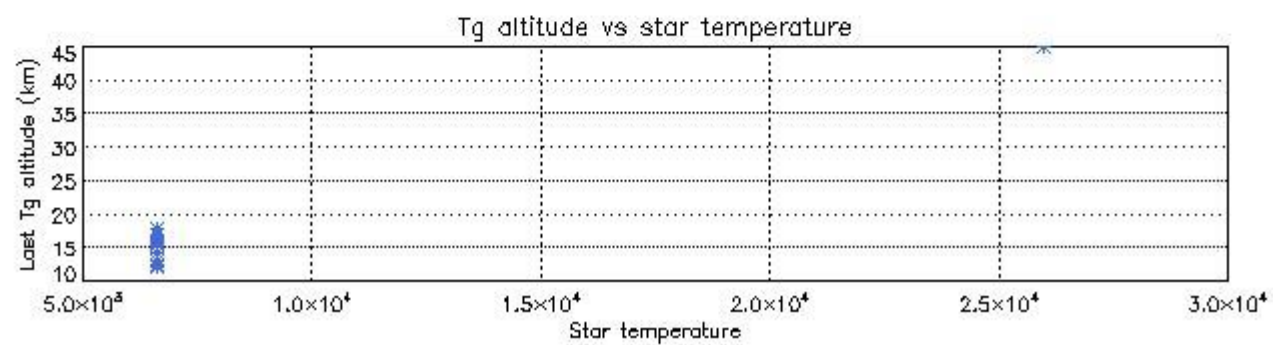
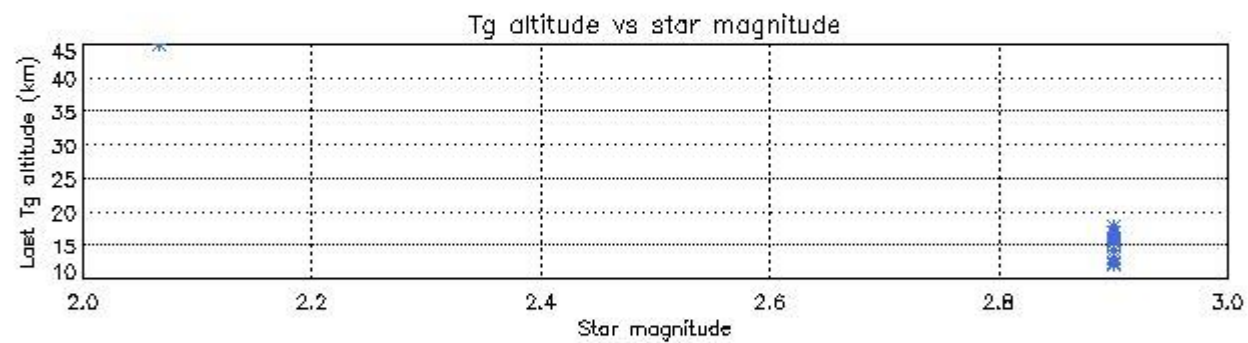
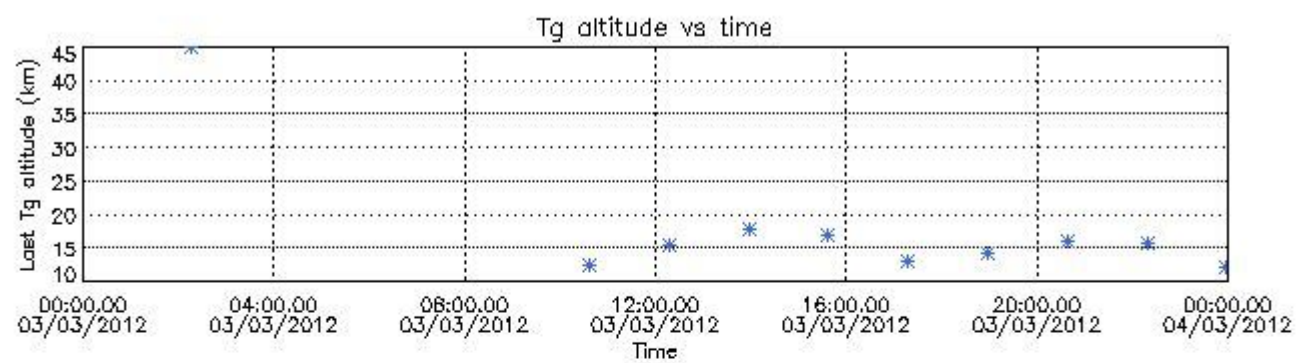
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.779	21.195	NaN
St. deviation:	9.7583	4.4220	NaN
Maximum:	44.999	33.895	NaN
Minimum:	11.956	18.115	NaN
Number of data:	10.000	11.000	NaN

### 6.2 Plot for DARK limb products

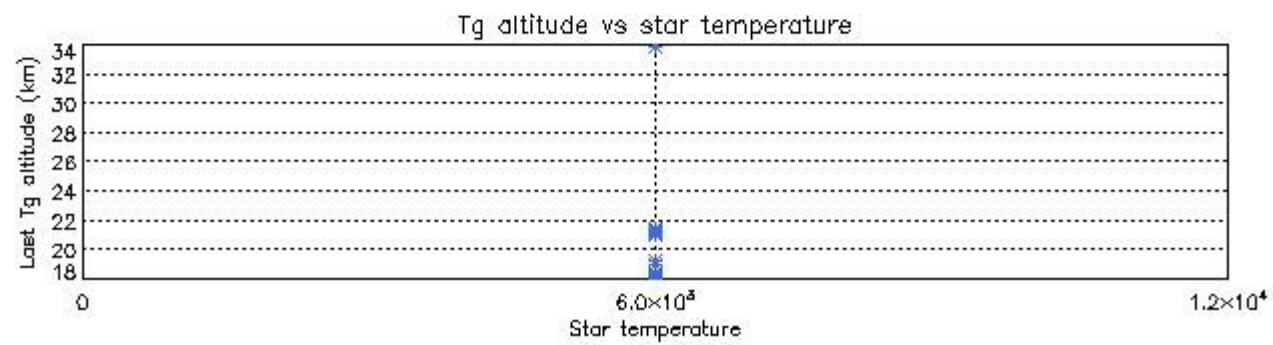
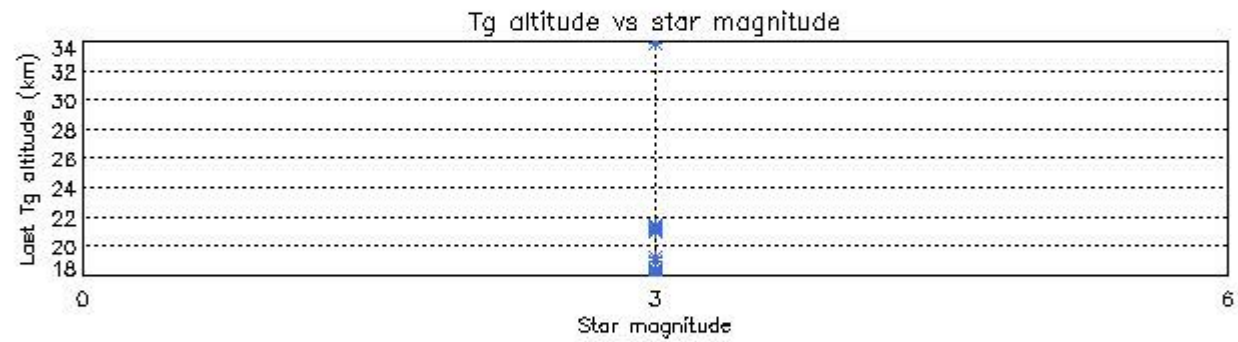
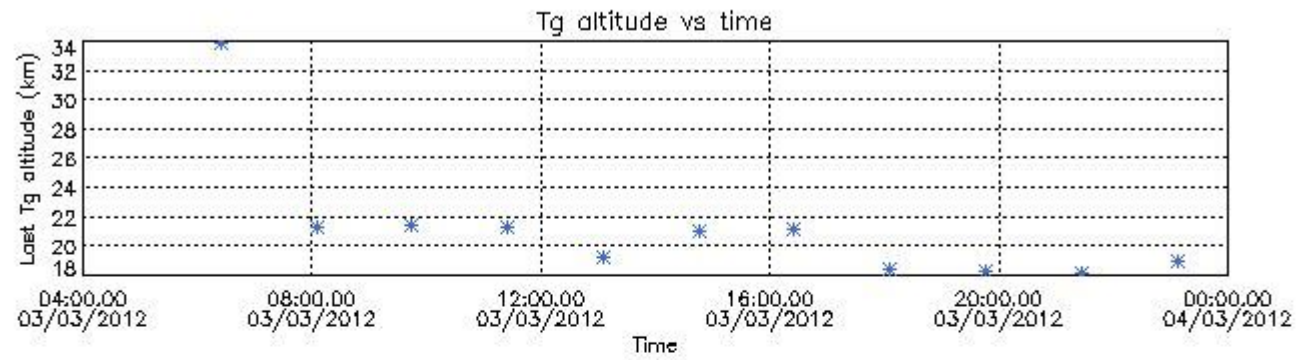
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost

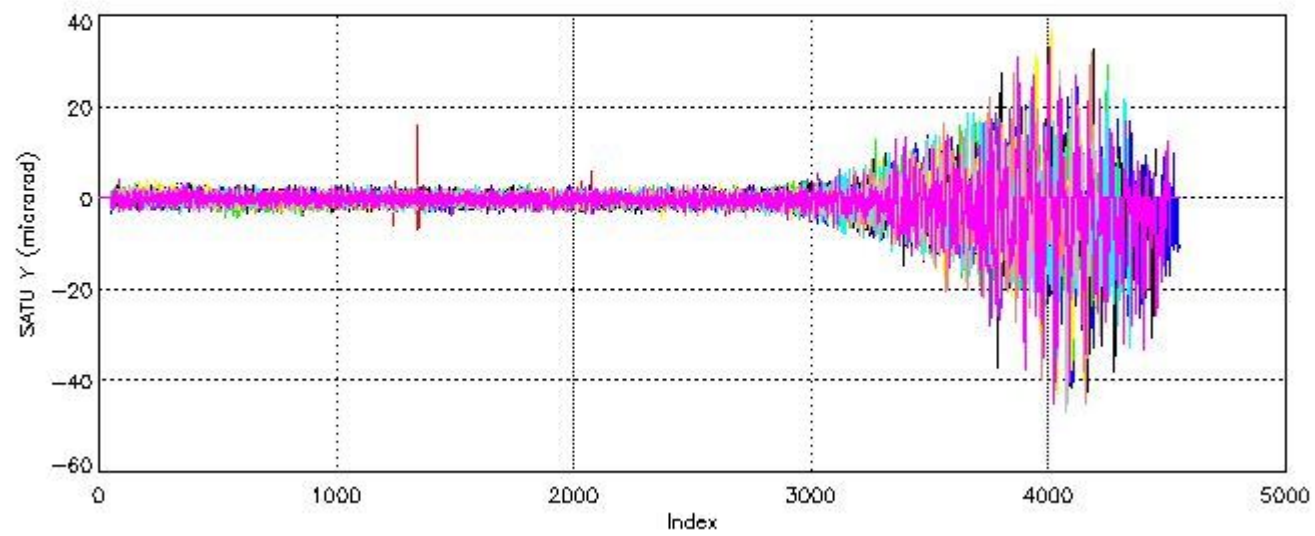
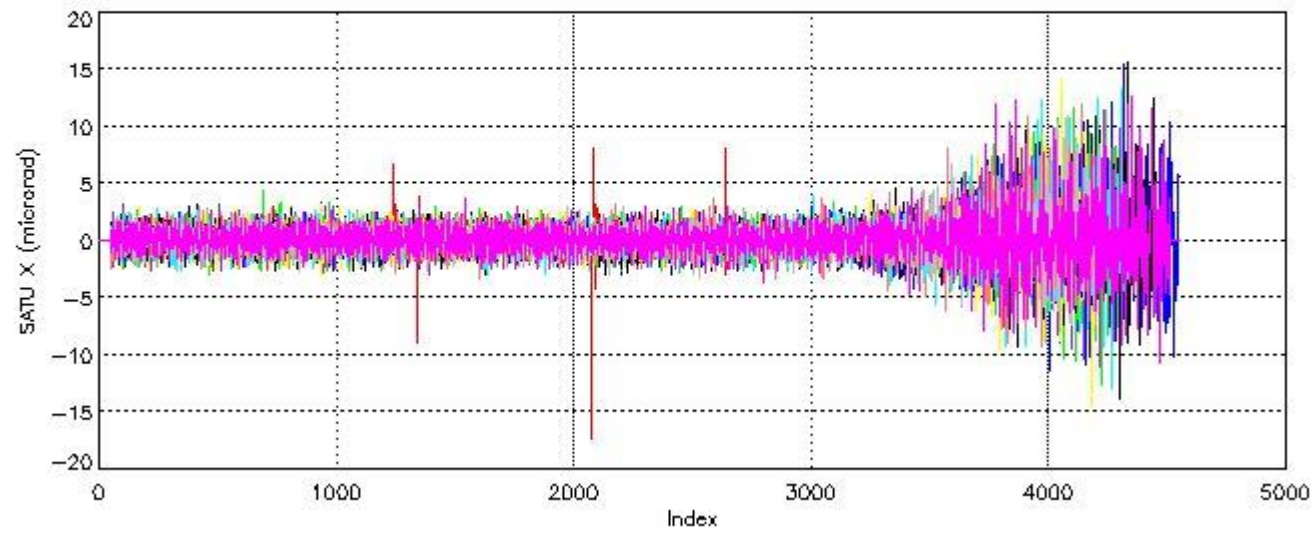


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.13556	-0.21849	0.17644	-0.22008
St. deviation:	0.87329	0.98377	0.95137	1.0566
Maximum:	4.4000	4.2000	3.9000	3.9000
Minimum:	-2.9000	-4.3000	-3.5000	-4.1000

Number of data:	9750.0	9750.0	9650.0	9650.0
90Percentile:	1.2000	1.0000	1.4000	1.1000

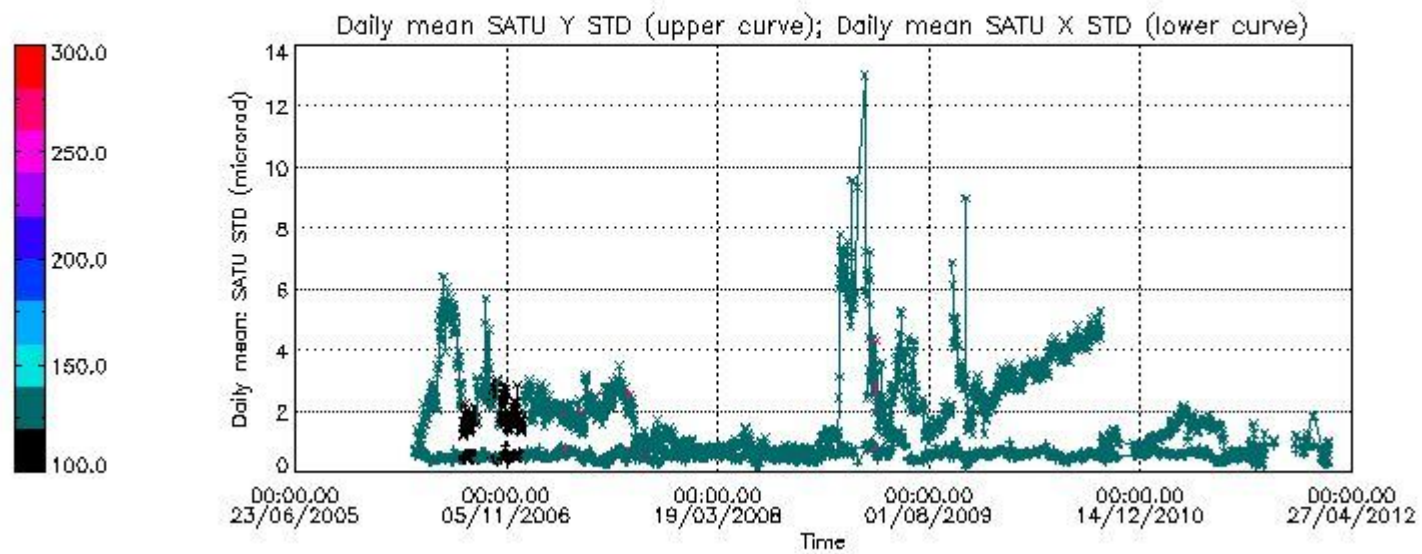
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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.

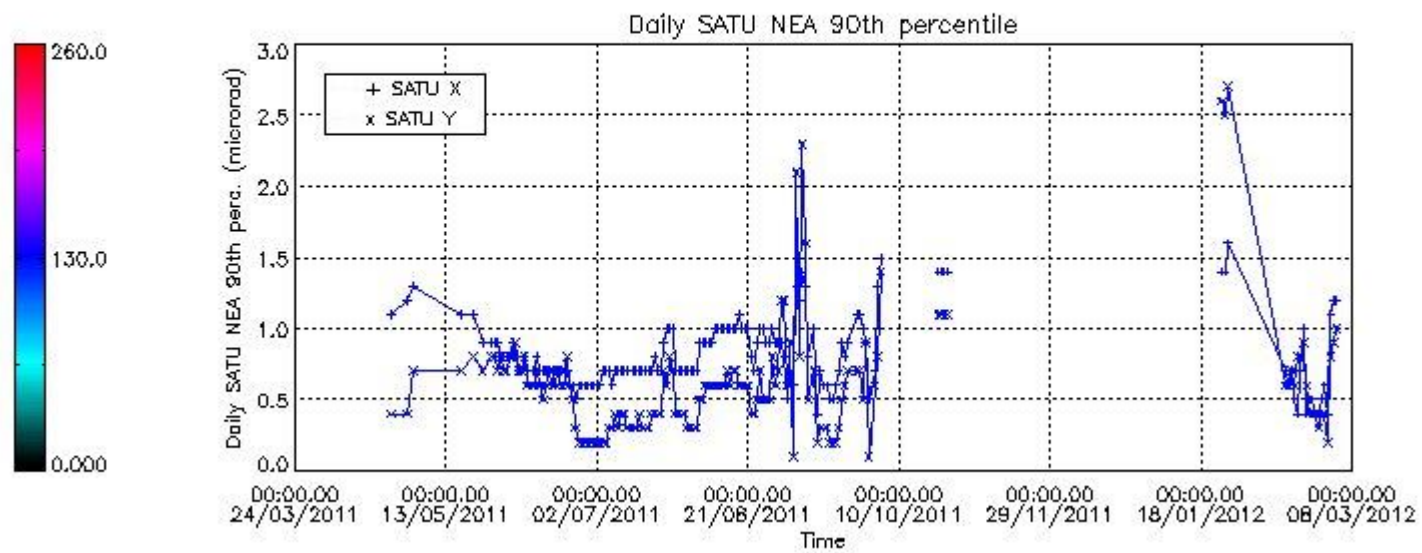
Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis



Lower curve: 90th percentile of SATU Y axis

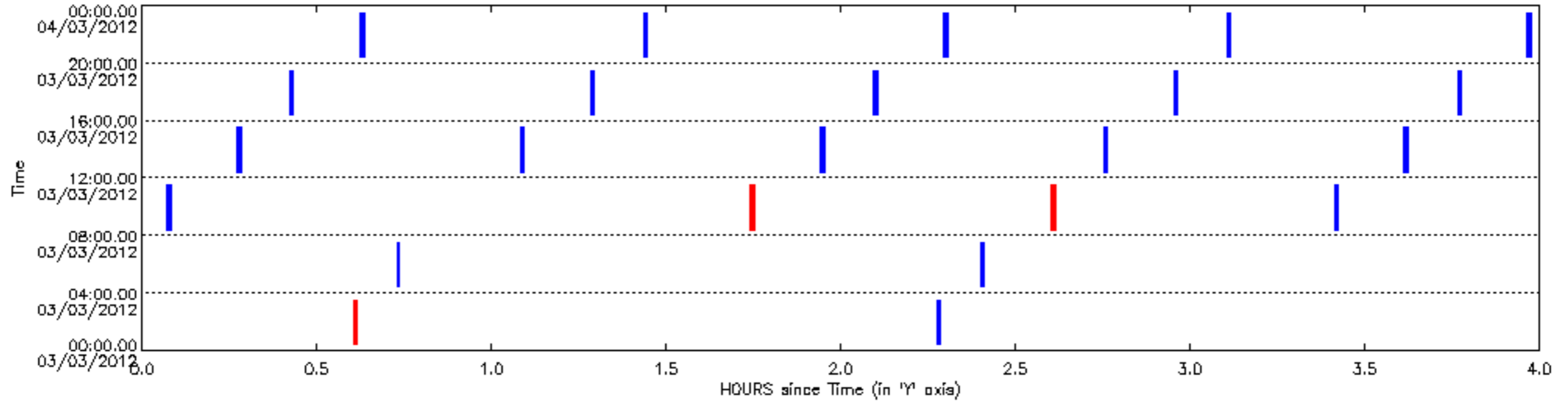
Upper curve: 90th percentile of SATU X axis

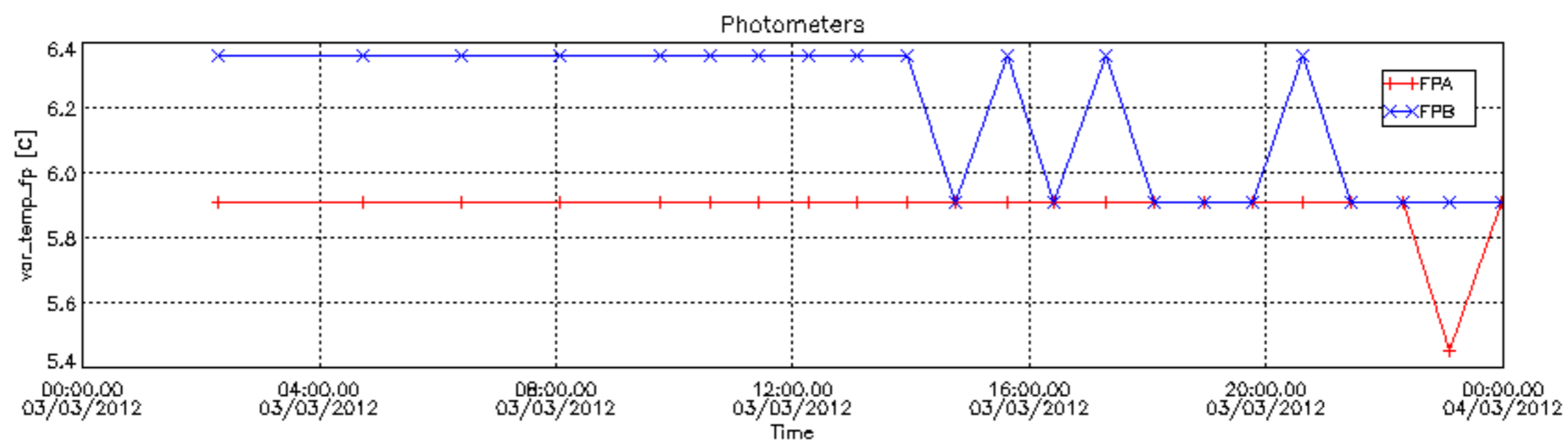
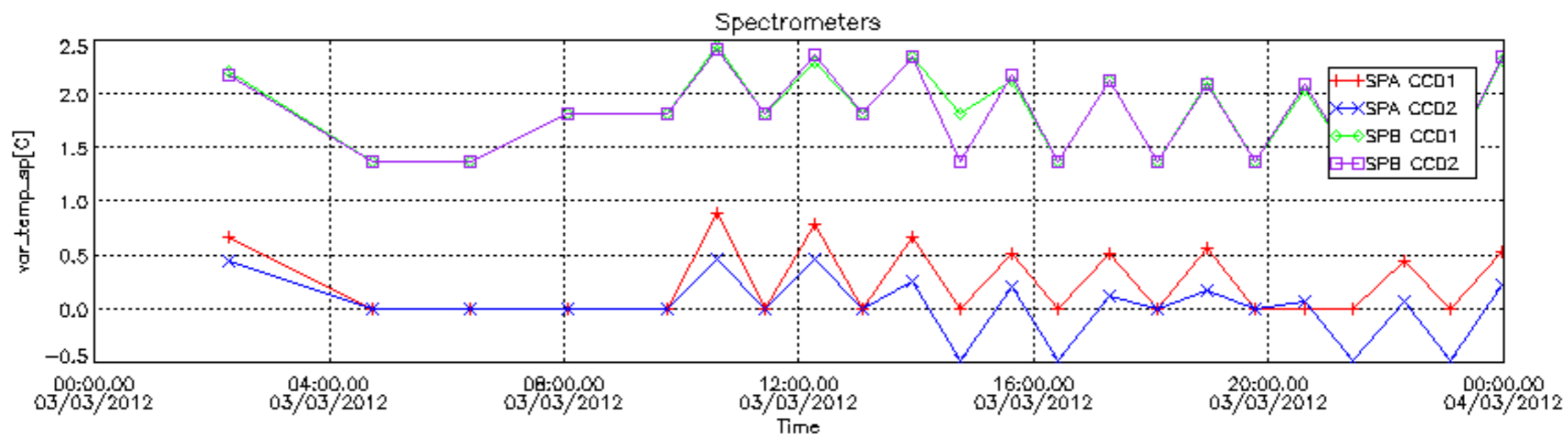


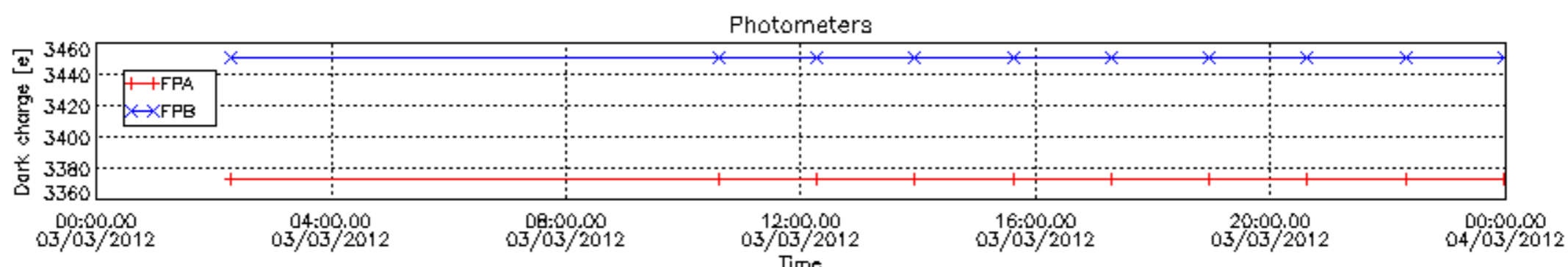
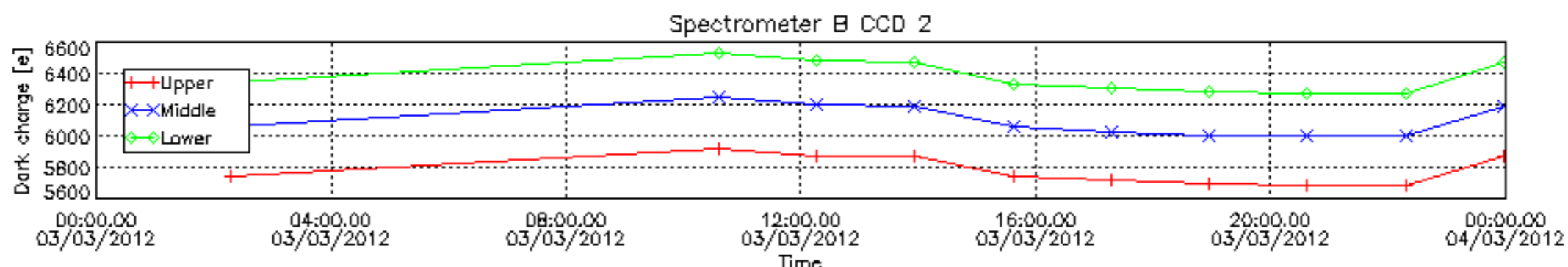
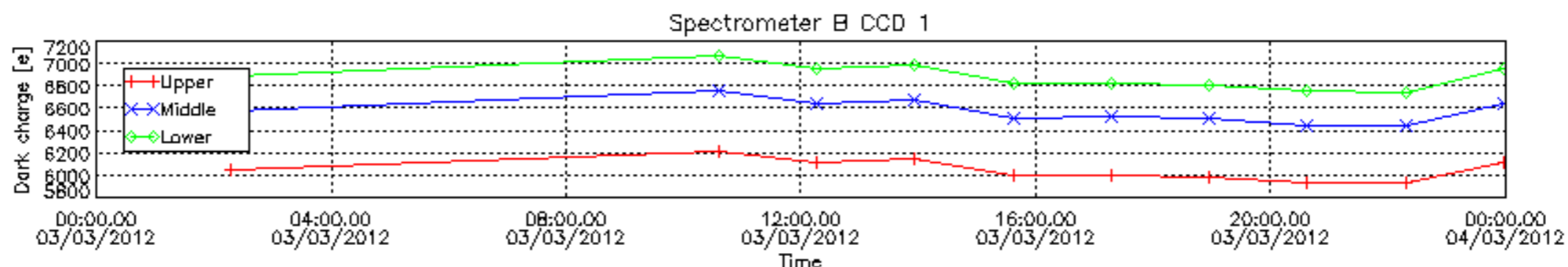
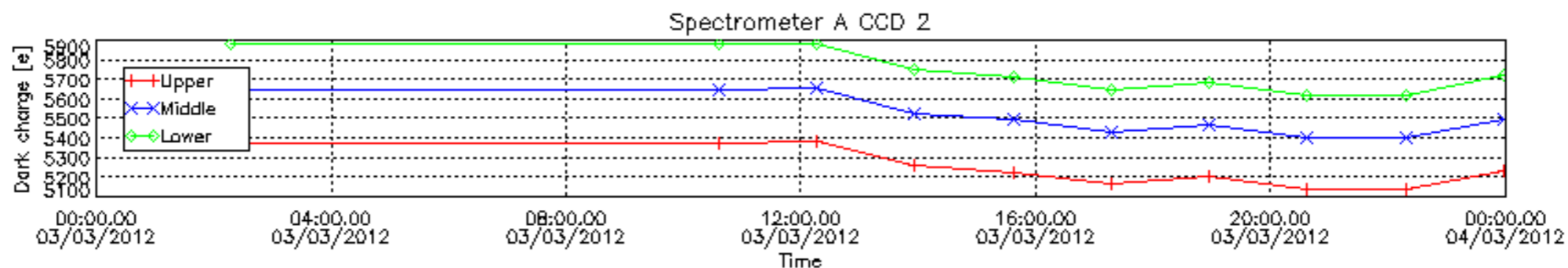
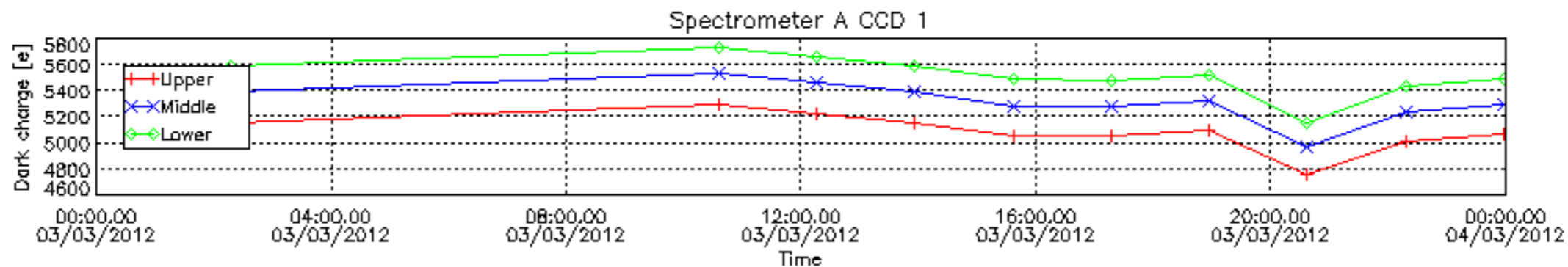
### 8. Auxiliary Data Files used for the production reported in section 2.4

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	03-MAR-2012 02:16:37
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20120130_103112_20120125_000000_20500101_000000	1	03-MAR-2012 02:16:37
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	03-MAR-2012 02:16:37
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-MAR-2012 02:16:37
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	03-MAR-2012 02:16:37
ECMWF_FILE	AUX_ECF_AXNECM20120302_062117_20120302_210000_20120303_090000	1	03-MAR-2012 02:16:37
ECMWF_FILE	AUX_ECF_AXNECM20120302_180836_20120303_030000_20120303_150000	2	03-MAR-2012 04:43:46
ECMWF_FILE	AUX_ECA_AXNECM20120303_062114_20120302_210000_20120303_090000	3	03-MAR-2012 06:24:00
ECMWF_FILE	AUX_ECF_AXNECM20120303_062115_20120303_090000_20120303_210000	5	03-MAR-2012 09:44:28
ECMWF_FILE	AUX_ECF_AXNECM20120303_062115_20120303_150000_20120304_030000	13	03-MAR-2012 16:25:24
ECMWF_FILE	AUX_ECA_AXNECM20120303_180350_20120303_090000_20120303_210000	15	03-MAR-2012 18:05:38
ECMWF_FILE	AUX_ECF_AXNECM20120303_062116_20120303_210000_20120304_090000	19	03-MAR-2012 21:26:05
OPTIONAL_ECMWF_FILE	MISSING	1	03-MAR-2012 02:16:37
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120302_232834_20120301_184045_20120311_205427	1	03-MAR-2012 02:16:37



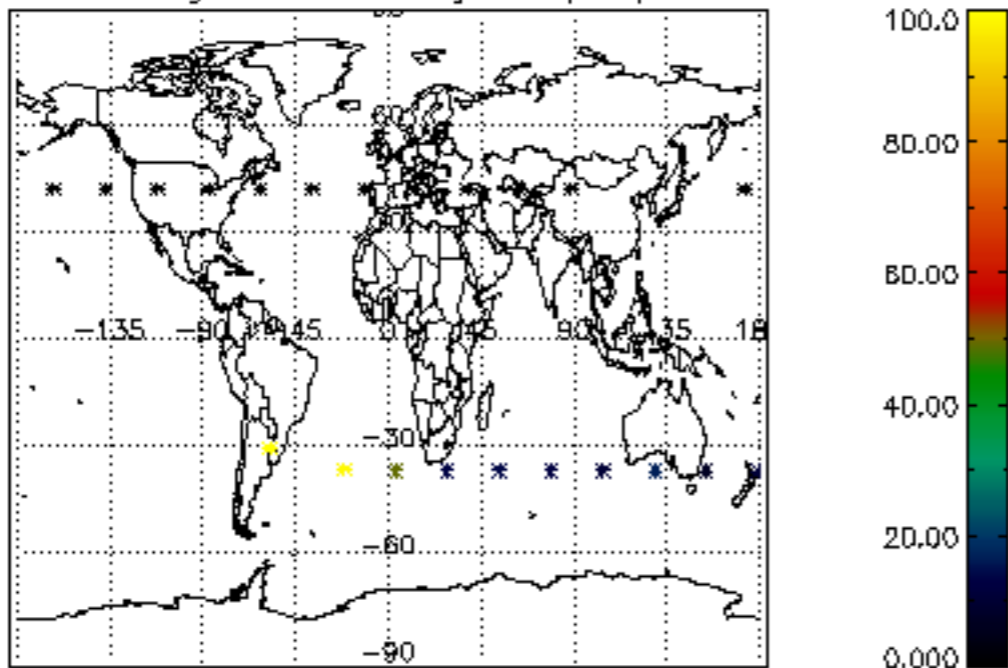




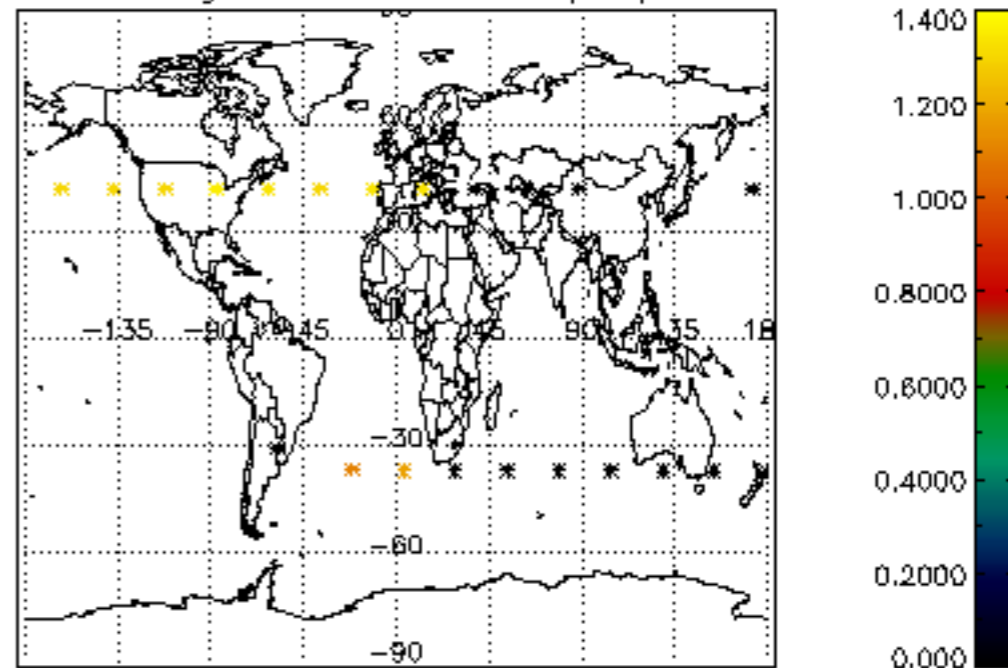




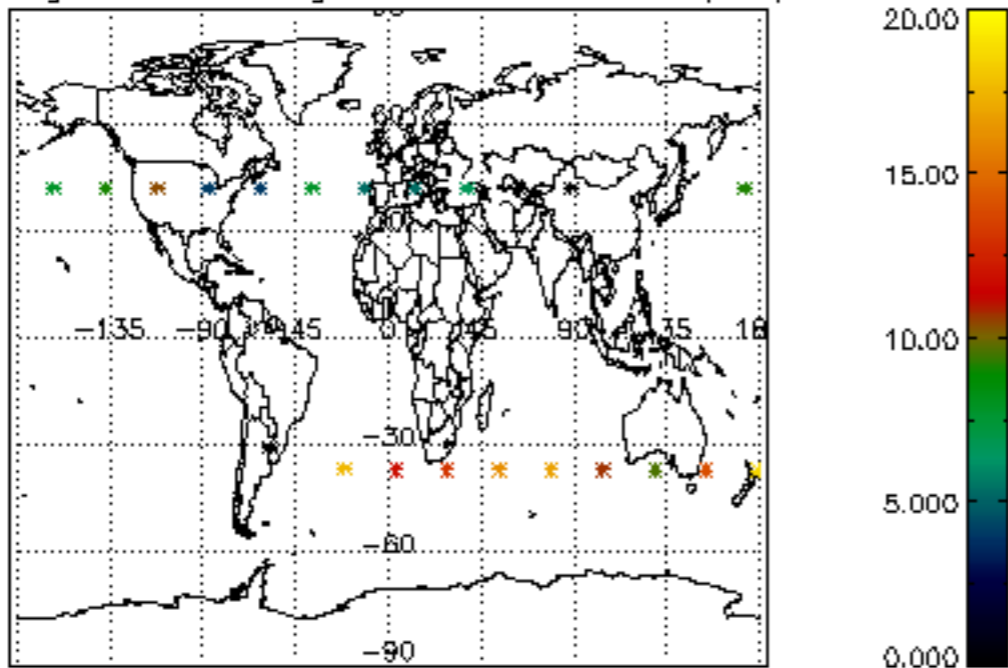
Percentage of cosmic ray hits per profile



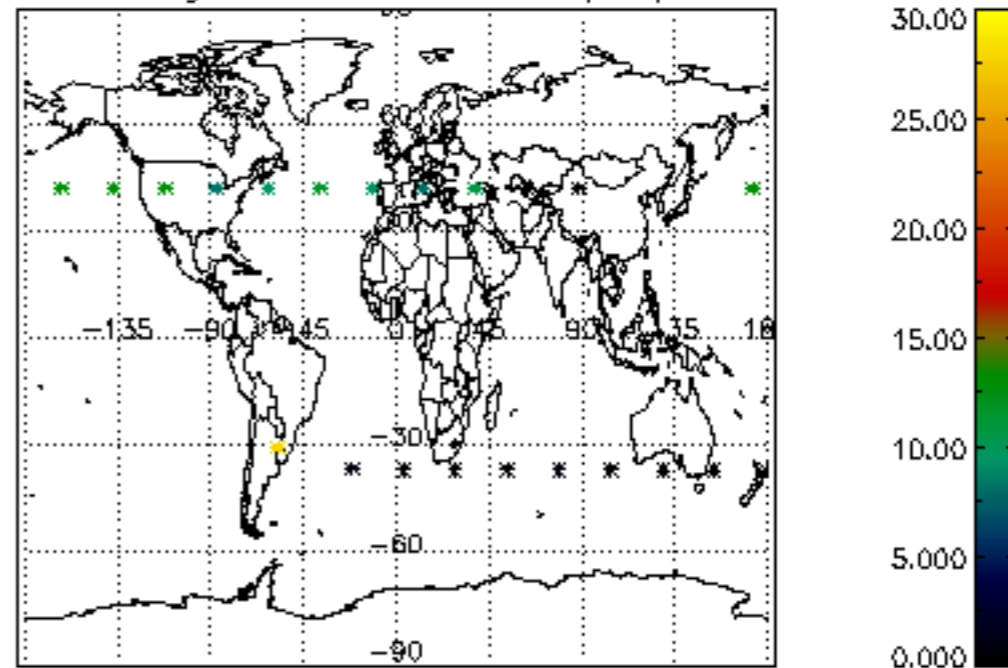
Percentage of datation errors per profile



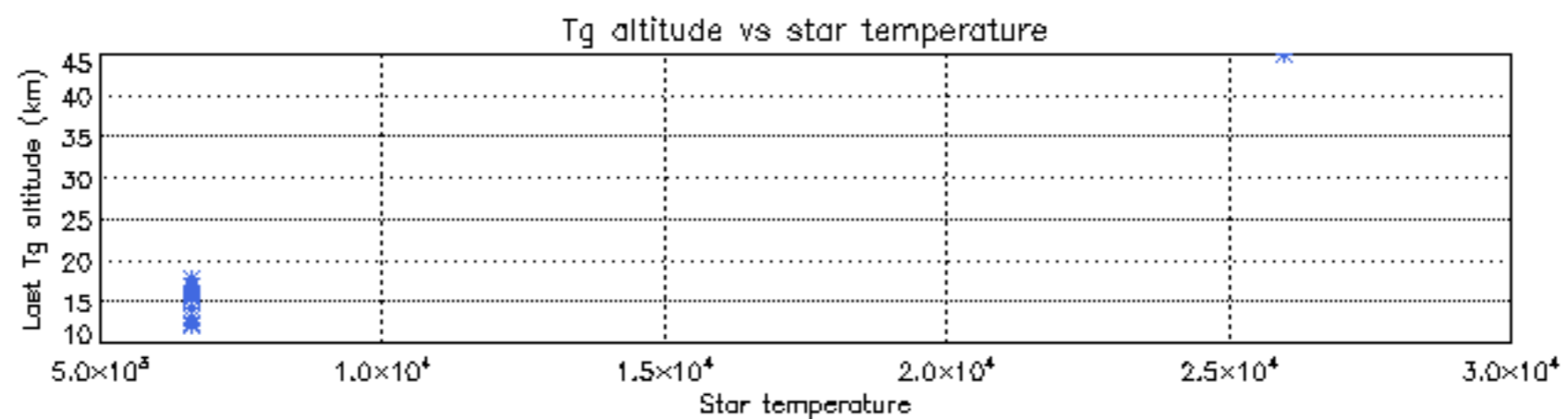
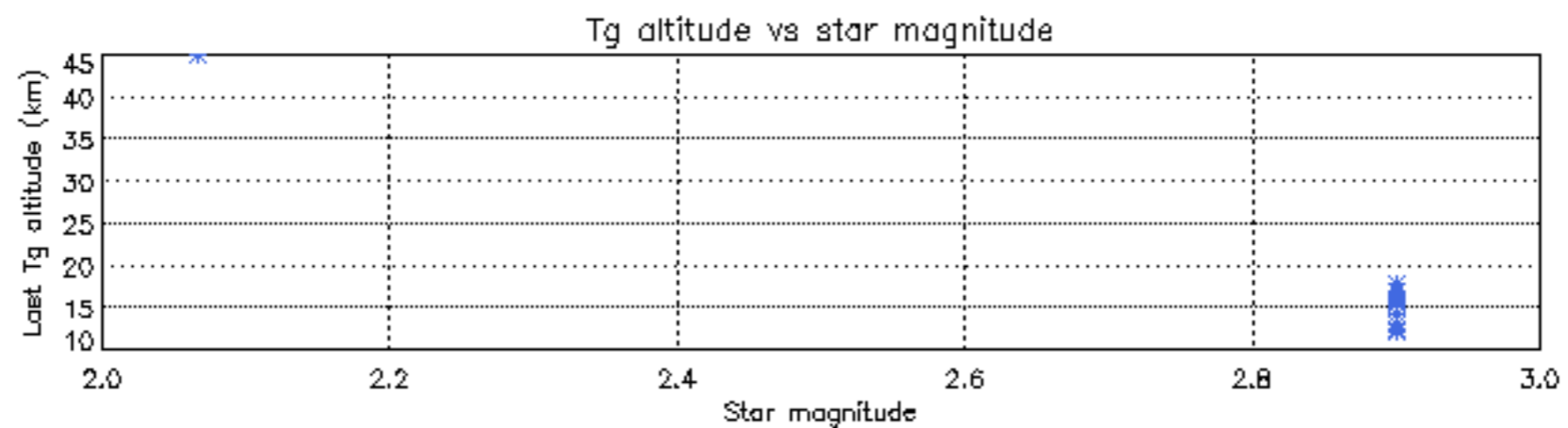
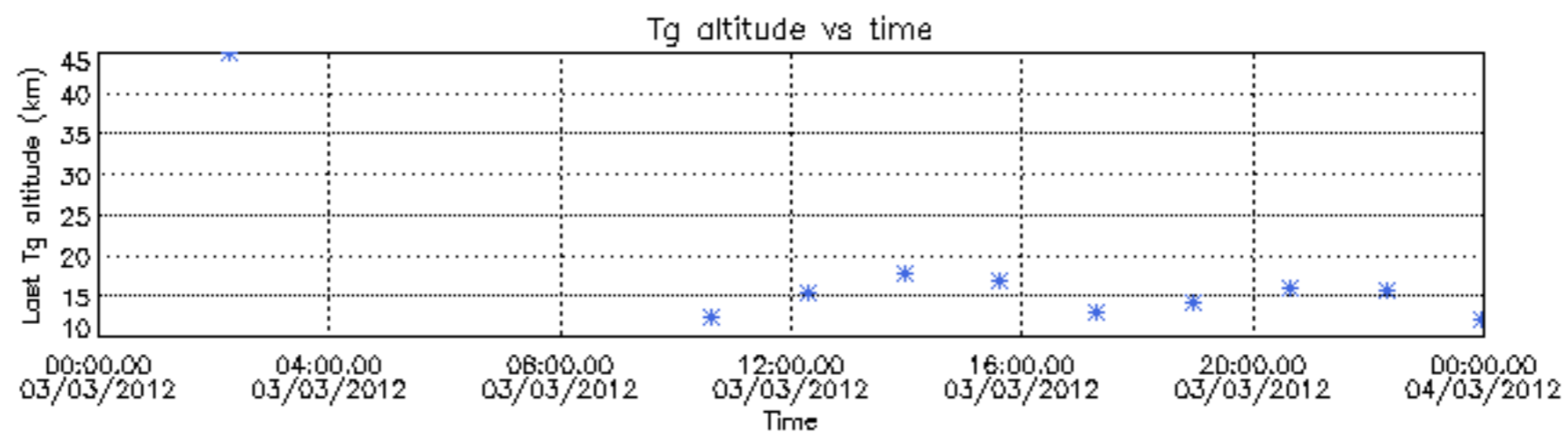
Percentage of star falling outside central band per profile



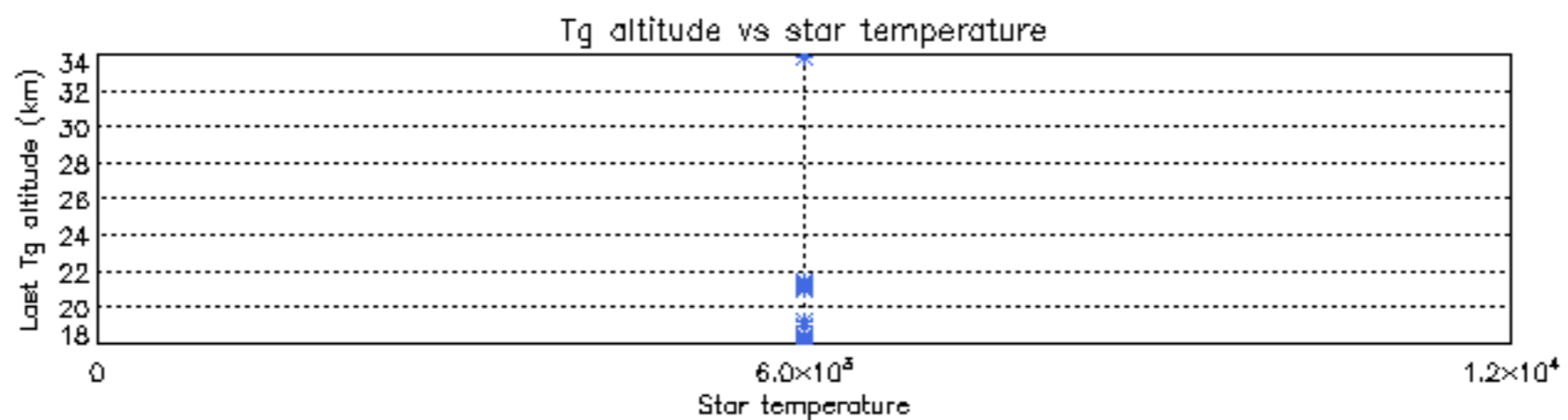
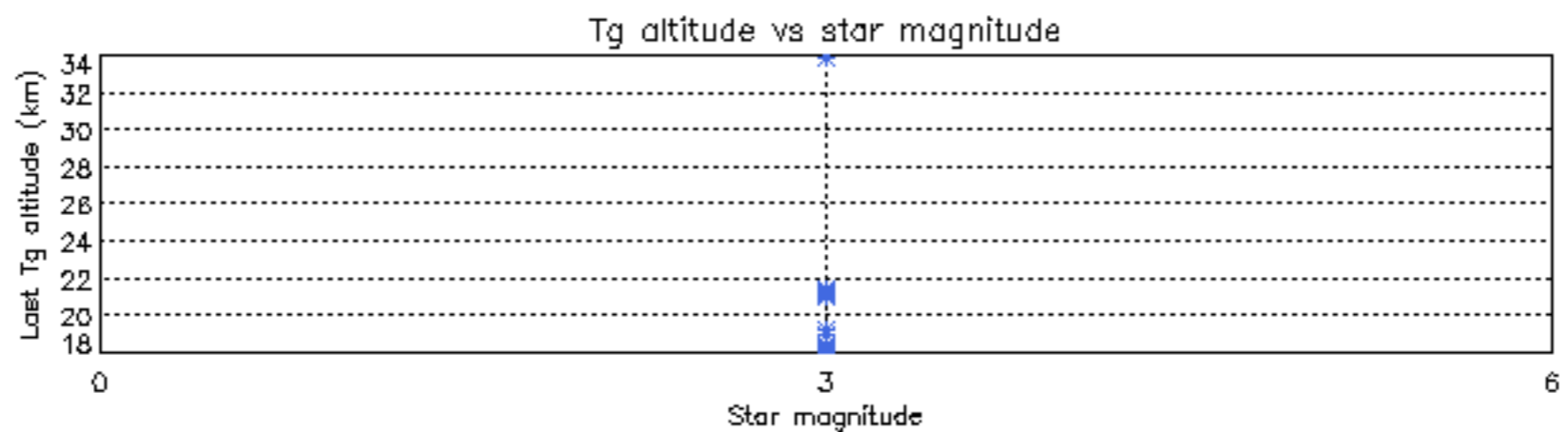
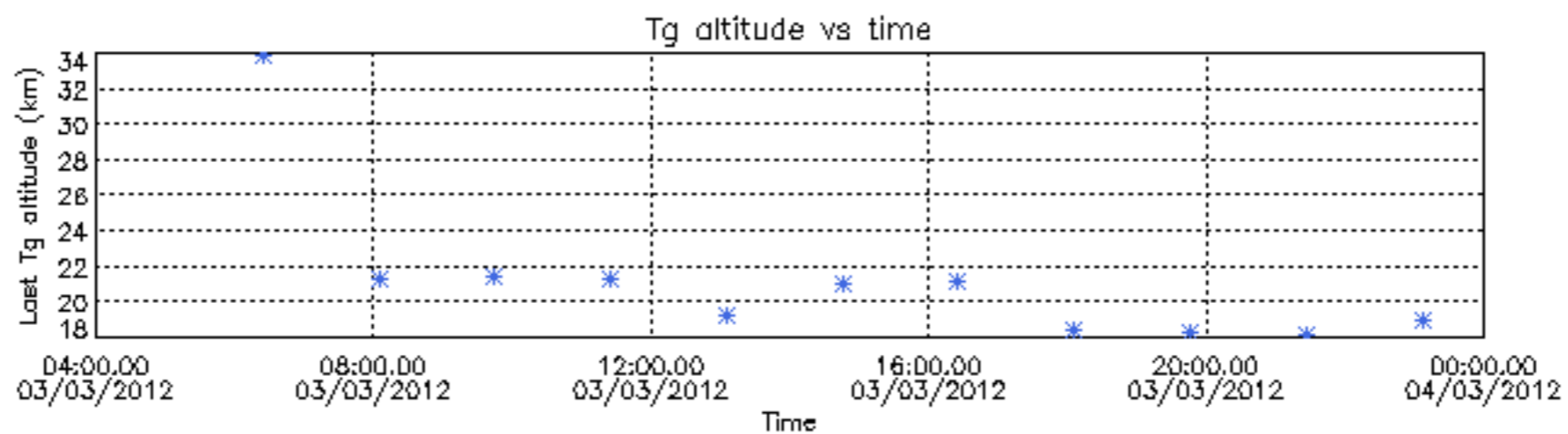
Percentage of saturation errors per profile

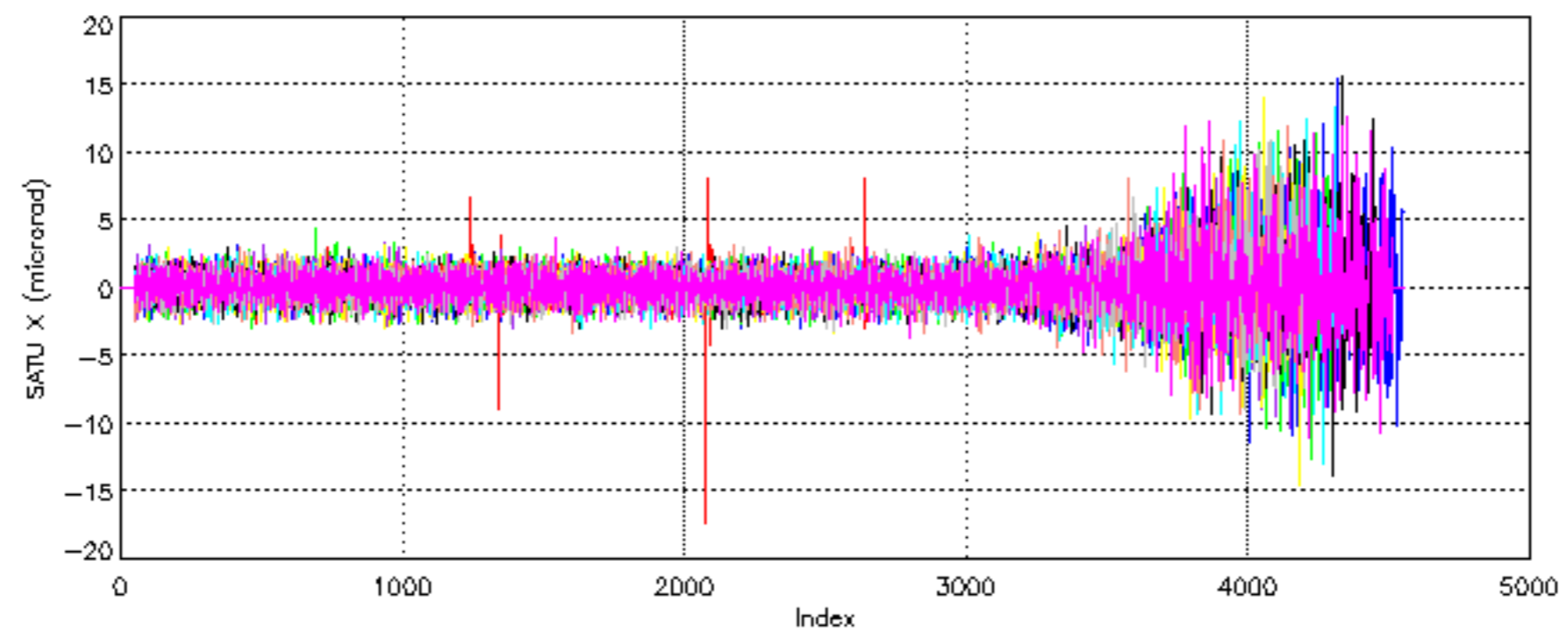


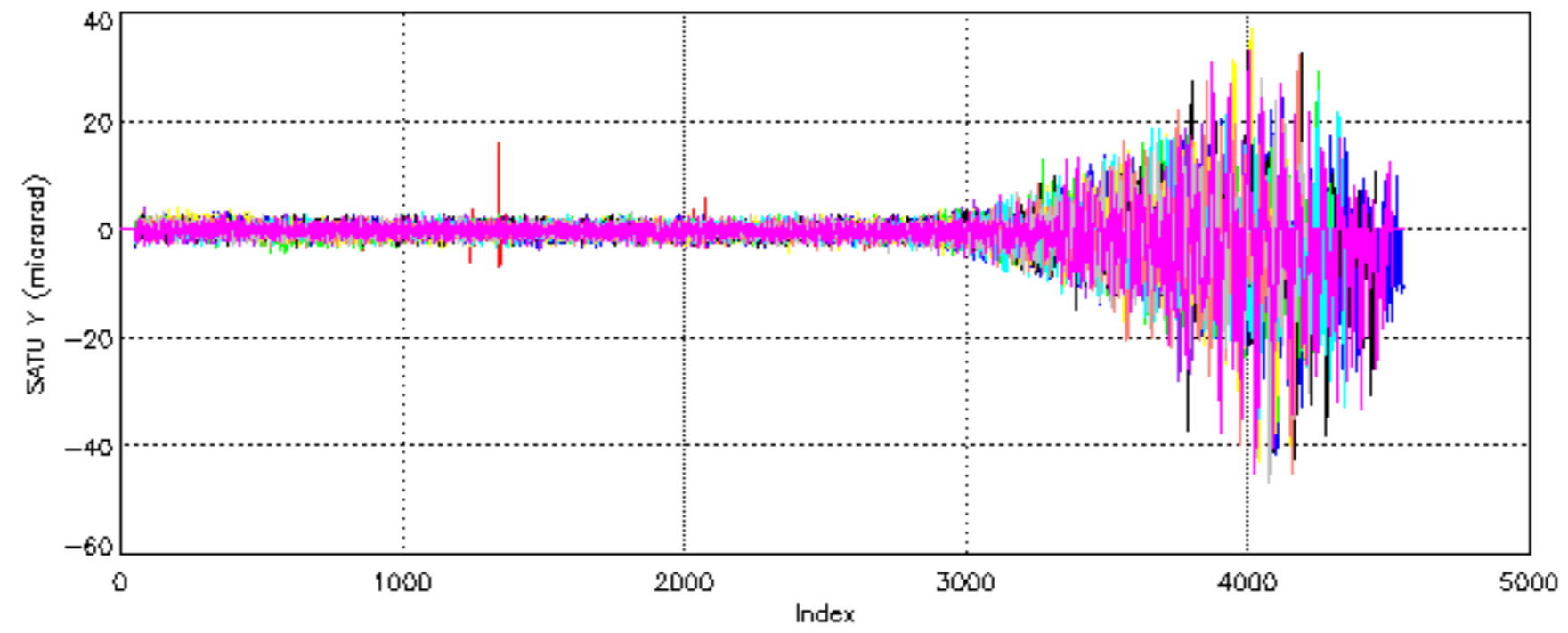
Tangent altitude at which the star is lost

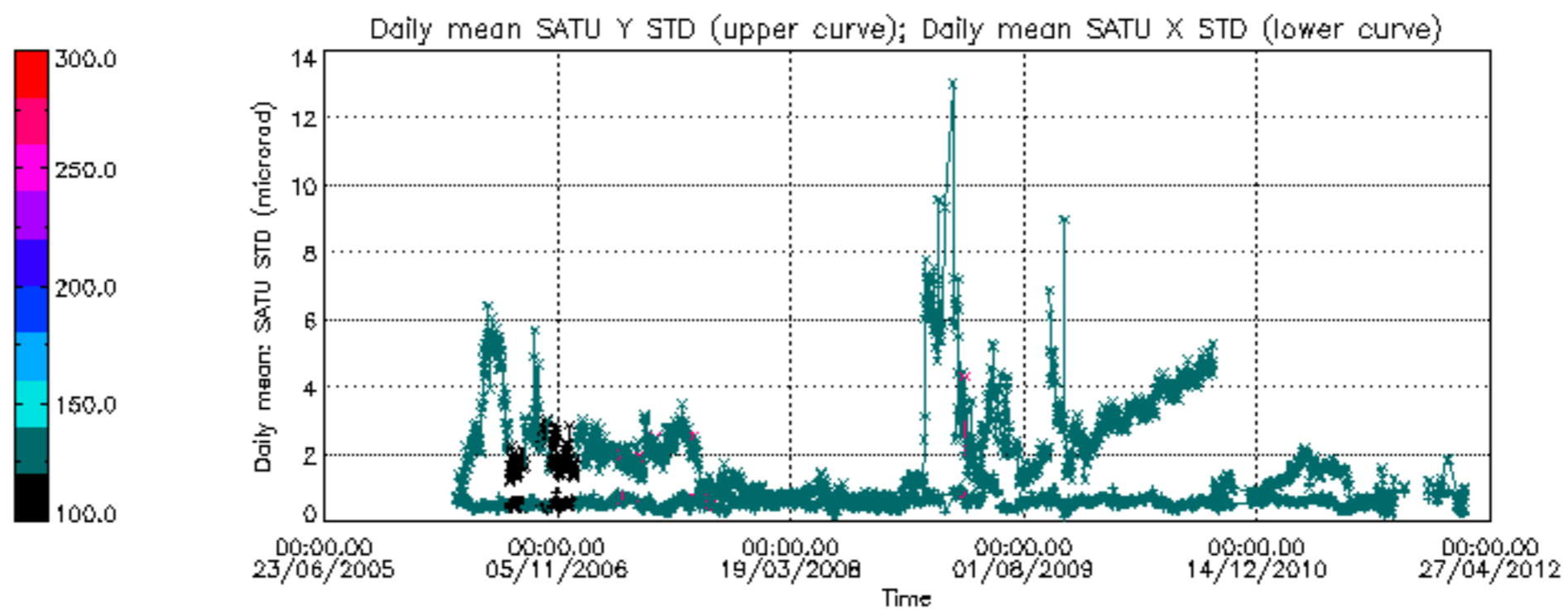


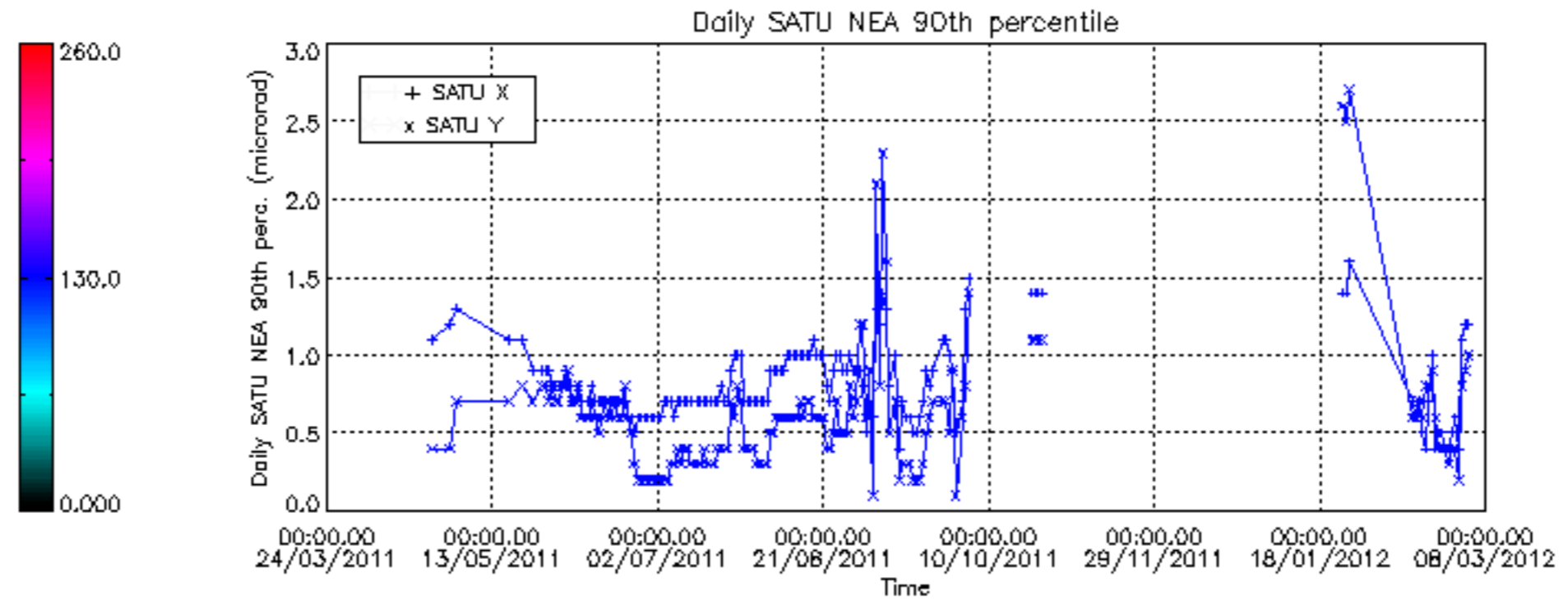
Tangent altitude at which the star is lost











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1; 521.9; 01-MAR-2012 00:26:53; Dark ; 46.5; 10; Bet Cen ; 0.61; 28000;occ; 93; 0;52315

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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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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  
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; -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; 5393.0; 03-MAR-2012 15:36:40; Dark ; 42.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 84; 0;52352  
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1; 138.2; 11-MAR-2012 02:34:11; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;52460  
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1;-1734.2; 11-MAR-2012 03:43:12; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;52460  
2; 139.0; 11-MAR-2012 04:14:26; Dark ; 50.5; 141; Bet Ara ; 2.84; 4600;occ; 101; 0;52461  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120311\_052327\_000019183112\_00292\_52461\_6736.N1  
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2; 139.6; 11-MAR-2012 05:54:40; Dark ; 44.5; 141; Bet Ara ; 2.84; 4600;occ; 89; 0;52462  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120311\_213140\_00000383112\_00302\_52471\_6737.N1  
1; 2234.4; 11-MAR-2012 21:31:40; Bright; 38.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 77; 0;52471  
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1; 146.0; 11-MAR-2012 22:37:06; Dark ; 51.5; 141; Bet Ara ; 2.84; 4600;occ; 103; 0;52472  
2; 2234.3; 11-MAR-2012 23:11:54; Bright; 38.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 76; 0;52472  
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1;-1733.9; 11-MAR-2012 07:03:41; Bright; 35.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 71; 0;52462  
2; 140.4; 11-MAR-2012 07:34:55; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;52463  
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2; 141.0; 11-MAR-2012 09:15:10; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;52464  
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1;-1733.7; 11-MAR-2012 10:24:09; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;52464  
2; 141.5; 11-MAR-2012 10:55:24; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;52465  
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1; 2234.9; 11-MAR-2012 11:30:17; Bright; 30.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 60; 0;52465  
2; 4280.2; 11-MAR-2012 12:04:23; Bright; 39.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 78; 0;52465  
3; 6156.1; 11-MAR-2012 12:35:39; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;52466  
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2; 4280.3; 11-MAR-2012 13:44:37; Bright; 37.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 74; 0;52466  
3; 6156.9; 11-MAR-2012 14:15:53; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;52467  
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1; 2234.7; 11-MAR-2012 14:50:45; Bright; 42.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 84; 0;52467  
2; 4280.5; 11-MAR-2012 15:24:51; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;52467  
3; 6157.5; 11-MAR-2012 15:56:08; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;52468  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120311\_163059\_000039663112\_00299\_52468\_5784.N1  
1; 2234.7; 11-MAR-2012 16:30:59; Bright; 38.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 77; 0;52468  
2; 4280.4; 11-MAR-2012 17:05:05; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;52468  
3; 6158.2; 11-MAR-2012 17:36:22; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;52469  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120311\_181113\_000039683112\_00300\_52469\_5785.N1  
1; 2234.6; 11-MAR-2012 18:11:13; Bright; 39.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 79; 0;52469  
2; 4280.4; 11-MAR-2012 18:45:19; Bright; 38.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 77; 0;52469  
3; 6158.8; 11-MAR-2012 19:16:37; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;52470  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120311\_195127\_000039663112\_00301\_52470\_5786.N1  
1; 2234.4; 11-MAR-2012 19:51:27; Bright; 39.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 78; 0;52470  
2; 4280.5; 11-MAR-2012 20:25:33; Bright; 30.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 60; 0;52470  
3; 6159.3; 11-MAR-2012 20:56:51; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;52471  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120312\_001720\_000021253112\_00304\_52473\_6739.N1  
1; 146.7; 12-MAR-2012 00:17:20; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;52473  
2; 2234.3; 12-MAR-2012 00:52:08; Bright; 38.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 76; 0;52473  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120312\_015735\_000021253112\_00305\_52474\_6740.N1  
1; 147.4; 12-MAR-2012 01:57:35; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;52474

2; 2234.2; 12-MAR-2012 02:32:22; Bright; 39.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 78; 0;52474  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120312\_033750\_000021253112\_00306\_52475\_6741.N1  
1; 148.2; 12-MAR-2012 03:37:50; Dark ; 44.5; 141; Bet Ara ; 2.84; 4600;occ; 89; 0;52475  
2; 2234.2; 12-MAR-2012 04:12:36; Bright; 39.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 78; 0;52475  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120312\_051804\_000021243112\_00307\_52476\_6742.N1  
1; 148.6; 12-MAR-2012 05:18:04; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;52476  
2; 2234.2; 12-MAR-2012 05:52:50; Bright; 39.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 78; 0;52476  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120312\_220030\_00000423112\_00317\_52486\_6743.N1  
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120312\_234045\_00000403112\_00318\_52487\_6744.N1  
1; 156.1; 12-MAR-2012 23:40:45; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;52487  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120312\_065819\_00000423112\_00308\_52477\_5787.N1  
1; 149.4; 12-MAR-2012 06:58:19; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;52477  
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1; 149.9; 12-MAR-2012 08:38:33; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;52478  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120312\_101848\_00000433112\_00310\_52479\_5789.N1  
1; 150.9; 12-MAR-2012 10:18:48; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;52479  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120312\_115903\_00000393112\_00311\_52480\_5790.N1  
1; 151.4; 12-MAR-2012 11:59:03; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;52480  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120312\_133917\_00000413112\_00312\_52481\_5791.N1  
1; 152.2; 12-MAR-2012 13:39:17; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;52481  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120312\_151932\_00000423112\_00313\_52482\_5792.N1  
1; 152.7; 12-MAR-2012 15:19:32; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;52482  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120312\_165946\_00000413112\_00314\_52483\_5793.N1  
1; 153.4; 12-MAR-2012 16:59:46; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;52483  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120312\_184001\_00000433112\_00315\_52484\_5794.N1  
1; 154.1; 12-MAR-2012 18:40:01; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;52484  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120312\_202016\_00000443112\_00316\_52485\_5795.N1  
1; 154.8; 12-MAR-2012 20:20:16; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;52485  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120313\_012059\_0000060563112\_00319\_52488\_6745.N1  
1; 156.7; 13-MAR-2012 01:20:59; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;52488  
2; 6171.4; 13-MAR-2012 03:01:14; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;52489  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120313\_044128\_00000393112\_00321\_52490\_6746.N1  
1; 158.0; 13-MAR-2012 04:41:28; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;52490  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120313\_062143\_00000373112\_00322\_52491\_6747.N1  
1; 158.5; 13-MAR-2012 06:21:43; Dark ; 37.5; 141; Bet Ara ; 2.84; 4600;occ; 75; 0;52491  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120313\_212555\_000003093112\_00331\_52500\_6748.N1  
1; 285.4; 13-MAR-2012 21:25:55; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52500  
2; 550.0; 13-MAR-2012 21:30:20; Dark ; 45.0; 4; Alp1Cen ;-0.01; 5800;occ; 90; 0;52500  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120313\_230610\_000003133112\_00332\_52501\_6749.N1  
1; 286.1; 13-MAR-2012 23:06:10; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52501  
2; 550.5; 13-MAR-2012 23:10:34; Dark ; 49.5; 4; Alp1Cen ;-0.01; 5800;occ; 99; 0;52501  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120313\_080158\_00000363112\_00323\_52492\_5796.N1  
1; 159.2; 13-MAR-2012 08:01:58; Dark ; 36.5; 141; Bet Ara ; 2.84; 4600;occ; 73; 0;52492  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120313\_112428\_000003123112\_00325\_52494\_5797.N1  
1; 281.7; 13-MAR-2012 11:24:28; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52494  
2; 546.9; 13-MAR-2012 11:28:53; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;52494  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120313\_130442\_000003063112\_00326\_52495\_5798.N1  
1; 282.4; 13-MAR-2012 13:04:42; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52495  
2; 547.3; 13-MAR-2012 13:09:07; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;52495  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120313\_144457\_000003073112\_00327\_52496\_5799.N1  
1; 283.0; 13-MAR-2012 14:44:57; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52496  
2; 548.0; 13-MAR-2012 14:49:22; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;52496  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120313\_162512\_000003133112\_00328\_52497\_5800.N1  
1; 283.6; 13-MAR-2012 16:25:12; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52497  
2; 548.5; 13-MAR-2012 16:29:36; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;52497  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120313\_180526\_000003083112\_00329\_52498\_5801.N1  
1; 284.2; 13-MAR-2012 18:05:26; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52498  
2; 549.0; 13-MAR-2012 18:09:51; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;52498  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120313\_194541\_000003213112\_00330\_52499\_5802.N1  
1; 284.8; 13-MAR-2012 19:45:41; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52499  
2; 549.5; 13-MAR-2012 19:50:05; Dark ; 56.5; 4; Alp1Cen ;-0.01; 5800;occ; 113; 0;52499  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120314\_004624\_000003203112\_00333\_52502\_6750.N1  
1; 286.7; 14-MAR-2012 00:46:24; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52502  
2; 551.0; 14-MAR-2012 00:50:49; Dark ; 56.5; 4; Alp1Cen ;-0.01; 5800;occ; 113; 0;52502  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120314\_022639\_000003113112\_00334\_52503\_6751.N1  
1; 287.3; 14-MAR-2012 02:26:39; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52503  
2; 551.7; 14-MAR-2012 02:31:03; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;52503

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1;-1824.7; 14-MAR-2012 03:31:41; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;52503  
2; 287.9; 14-MAR-2012 04:06:53; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52504  
3; 552.4; 14-MAR-2012 04:11:18; Dark ; 55.5; 4; Alp1Cen ;-0.01; 5800;occ; 111; 0;52504  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120314\_051155\_000024193112\_00335\_52504\_6753.N1  
1;-1824.7; 14-MAR-2012 05:11:55; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;52504  
2; 288.5; 14-MAR-2012 05:47:08; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52505  
3; 552.9; 14-MAR-2012 05:51:32; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;52505  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120314\_215415\_000000373112\_00345\_52514\_6754.N1  
1;-1824.1; 14-MAR-2012 21:54:15; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;52514  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20120314\_222933\_000039303112\_00346\_52515\_6755.N1  
1; 294.7; 14-MAR-2012 22:29:33; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52515  
2; 558.2; 14-MAR-2012 22:33:57; Dark ; 45.5; 4; Alp1Cen ;-0.01; 5800;occ; 91; 0;52515  
3; 4189.9; 14-MAR-2012 23:34:29; Bright; 35.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 70; 0;52515  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_065209\_000024233112\_00336\_52505\_5803.N1  
1;-1824.4; 14-MAR-2012 06:52:09; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;52505  
2; 289.1; 14-MAR-2012 07:27:22; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52506  
3; 553.4; 14-MAR-2012 07:31:47; Dark ; 45.5; 4; Alp1Cen ;-0.01; 5800;occ; 91; 0;52506  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_083223\_000024343112\_00337\_52506\_5804.N1  
1;-1824.4; 14-MAR-2012 08:32:23; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;52506  
2; 289.7; 14-MAR-2012 09:07:37; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52507  
3; 554.0; 14-MAR-2012 09:12:01; Dark ; 56.5; 4; Alp1Cen ;-0.01; 5800;occ; 113; 0;52507  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_101237\_000024273112\_00338\_52507\_5805.N1  
1;-1824.3; 14-MAR-2012 10:12:37; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;52507  
2; 290.4; 14-MAR-2012 10:47:51; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52508  
3; 554.5; 14-MAR-2012 10:52:16; Dark ; 48.5; 4; Alp1Cen ;-0.01; 5800;occ; 97; 0;52508  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_115251\_000024203112\_00339\_52508\_5806.N1  
1;-1824.3; 14-MAR-2012 11:52:51; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;52508  
2; 291.0; 14-MAR-2012 12:28:06; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52509  
3; 555.1; 14-MAR-2012 12:32:30; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;52509  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_133305\_000024223112\_00340\_52509\_5807.N1  
1;-1824.2; 14-MAR-2012 13:33:05; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;52509  
2; 291.6; 14-MAR-2012 14:08:20; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52510  
3; 555.7; 14-MAR-2012 14:12:45; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;52510  
/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20120314\_151319\_000024233112\_00341\_52510\_5808.N1  
1;-1824.1; 14-MAR-2012 15:13:19; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;52510  
2; 292.2; 14-MAR-2012 15:48:35; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52511  
3; 556.2; 14-MAR-2012 15:52:59; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;52511  
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1;-1824.3; 14-MAR-2012 16:53:33; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;52511  
2; 292.8; 14-MAR-2012 17:28:50; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52512  
3; 556.7; 14-MAR-2012 17:33:14; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;52512  
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2; 293.5; 14-MAR-2012 19:09:04; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52513  
3; 557.2; 14-MAR-2012 19:13:28; Dark ; 56.0; 4; Alp1Cen ;-0.01; 5800;occ; 112; 0;52513  
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2; 294.1; 14-MAR-2012 20:49:19; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;52514  
3; 557.7; 14-MAR-2012 20:53:42; Dark ; 44.5; 4; Alp1Cen ;-0.01; 5800;occ; 89; 0;52514  
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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  
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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1; 296.0; 15-MAR-2012 01:50:02; Dark ; 57.5; 0; ; 0.00; 0;occ; 115; 0;52517  
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  
3; 560.5; 15-MAR-2012 05:14:55; Dark ; 56.5; 4; Alp1Cen ;-0.01; 5800;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; 4389.1; 16-MAR-2012 00:41:17; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;52530  
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2; 297.7; 15-MAR-2012 06:50:46; Dark ; 55.5; 0; ; 0.00; 0;occ; 111; 0;52520  
3; 561.1; 15-MAR-2012 06:55:09; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;52520  
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2; 298.3; 15-MAR-2012 08:31:01; Dark ; 54.5; 0; ; 0.00; 0;occ; 109; 0;52521  
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2; 298.9; 15-MAR-2012 10:11:15; Dark ; 54.5; 0; ; 0.00; 0;occ; 109; 0;52522  
3; 562.2; 15-MAR-2012 10:15:38; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;52522  
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2; 565.4; 15-MAR-2012 20:17:05; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;52528  
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2; 4389.3; 16-MAR-2012 02:21:31; Bright; 53.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 107; 0;52531  
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1; 957.0; 18-MAR-2012 20:13:37; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 16;52571  
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2; 946.6; 18-MAR-2012 10:12:02; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;52565
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1; 2859.1; 23-MAR-2012 21:02:02; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0; -1
2; 2950.2; 23-MAR-2012 21:03:33; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0; -1
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1; 2858.9; 23-MAR-2012 22:42:16; Bright; 38.0; 82; 48Bet UMA ; 2.37; 10600;occ; 76; 0; -1
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1; 2860.4; 23-MAR-2012 07:40:12; Bright; 27.0; 82; 48Bet UMA ; 2.37; 10600;occ; 54; 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; 3884.5; 26-MAR-2012 19:28:53; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0; -1
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