

GOMOS Daily Report 11-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	13MAR2012 07:00:49
Data source version	GOMOS/6.01
Start time of products	11MAR2012 00:22:45
Stop time of products	11MAR2012 23:11:54
Store outputs in DB	Yes
Nb of level 1b prods	35
Nb of prods with errors	0

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

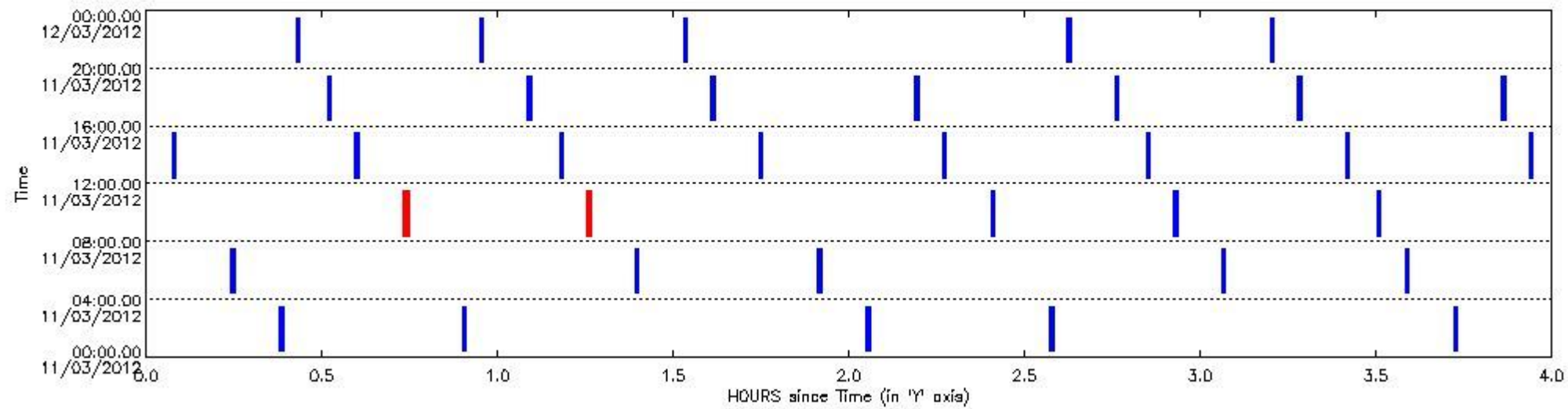
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

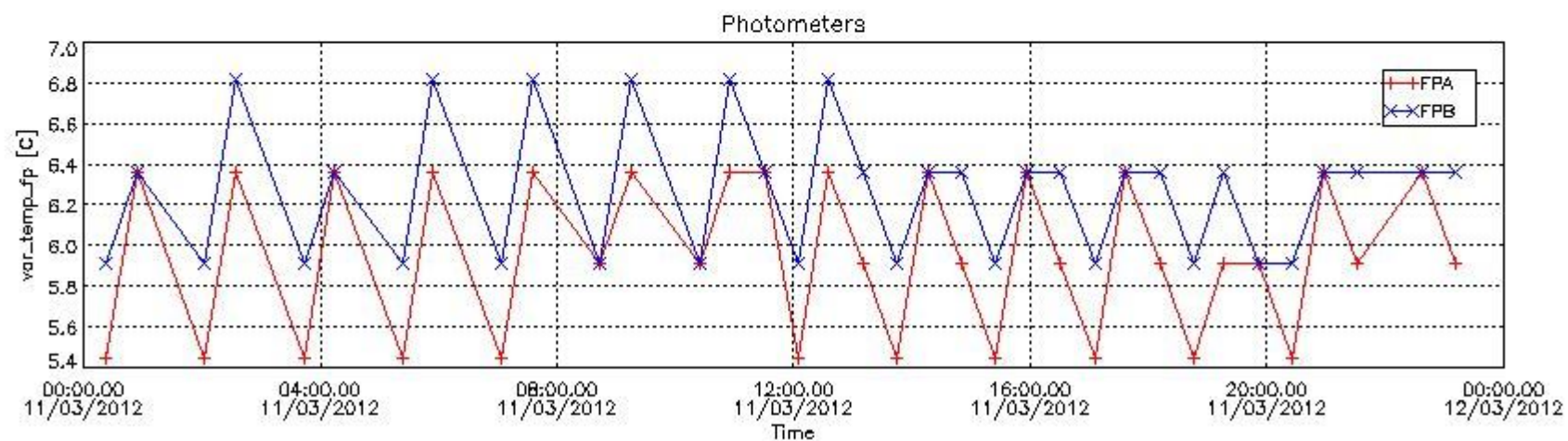
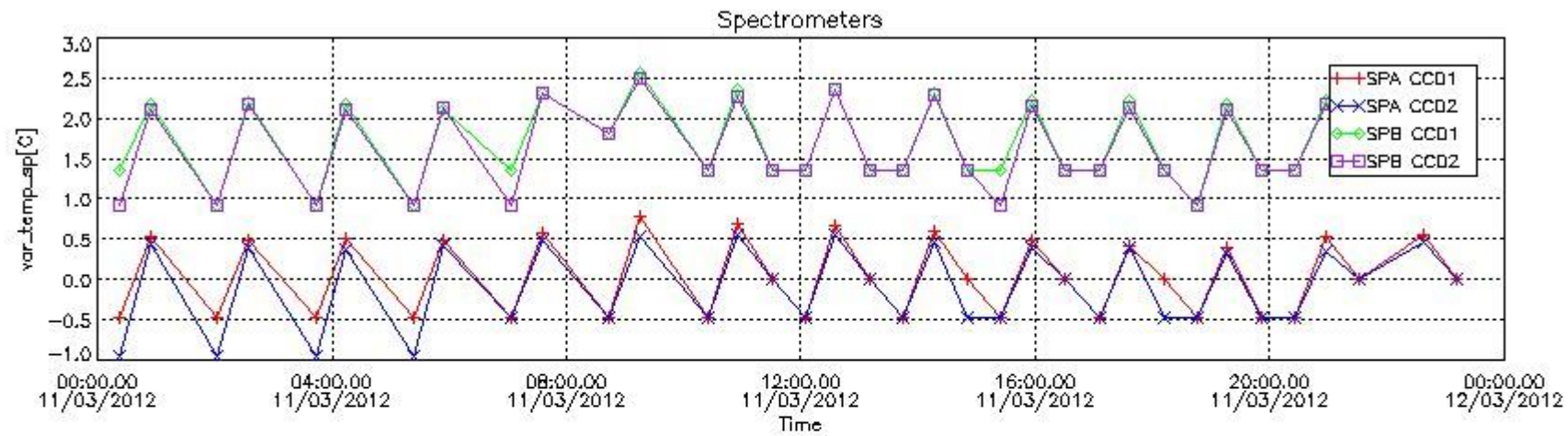
UTC start time	Star name	Star ID	Orbit
11-MAR-2012 08:43:52	37GamCyg	66	52463
11-MAR-2012 09:15:06	BetAra	141	52464

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_1PNPDE20120311_002245_000000363112_00289_52458_7652.N1	11-MAR-2012 00:22:45	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	52458	No
2	GOM_TRA_1PNPDE20120311_005356_000000423112_00290_52459_7682.N1	11-MAR-2012 00:53:56	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	52459	No
3	GOM_TRA_1PNPDE20120311_020259_000000383112_00290_52459_7683.N1	11-MAR-2012 02:02:59	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	52459	No
4	GOM_TRA_1PNPDE20120311_023411_000000443112_00291_52460_7710.N1	11-MAR-2012 02:34:11	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	52460	No
5	GOM_TRA_1PNPDE20120311_034312_000000363112_00291_52460_7750.N1	11-MAR-2012 03:43:12	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	52460	No
6	GOM_TRA_1PNPDE20120311_041426_000000513112_00292_52461_7751.N1	11-MAR-2012 04:14:26	Dark	50.500	141	Bet Ara	2.8400	4600.0	101	52461	No
7	GOM_TRA_1PNPDE20120311_052327_000000363112_00292_52461_7788.N1	11-MAR-2012 05:23:27	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	52461	No
8	GOM_TRA_1PNPDE20120311_055440_000000453112_00293_52462_7789.N1	11-MAR-2012 05:54:40	Dark	44.500	141	Bet Ara	2.8400	4600.0	89	52462	No
9	GOM_TRA_1PNPDK20120311_070341_000000363112_00293_52462_2741.N1	11-MAR-2012 07:03:41	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	52462	No

10	GOM_TRA_1PNPDK20120311_073455_000000443112_00294_52463_2742.N1	11-MAR-2012 07:34:55	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	52463	No
11	GOM_TRA_1PNPDK20120311_084355_000000373112_00294_52463_2764.N1	11-MAR-2012 08:43:55	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	52463	No
12	GOM_TRA_1PNPDK20120311_091510_000000443112_00295_52464_2765.N1	11-MAR-2012 09:15:10	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	52464	No
13	GOM_TRA_1PNPDK20120311_102409_000000363112_00295_52464_2790.N1	11-MAR-2012 10:24:09	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	52464	No
14	GOM_TRA_1PNPDK20120311_105524_000000423112_00296_52465_2791.N1	11-MAR-2012 10:55:24	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	52465	No
15	GOM_TRA_1PNPDK20120311_113017_000000303112_00296_52465_2834.N1	11-MAR-2012 11:30:17	Bright	30.000	51	41Gam1Leo	2.0100	4500.0	60	52465	No
16	GOM_TRA_1PNPDK20120311_120423_000000393112_00296_52465_2835.N1	11-MAR-2012 12:04:23	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	52465	No
17	GOM_TRA_1PNPDK20120311_123539_000000413112_00297_52466_2836.N1	11-MAR-2012 12:35:39	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	52466	No
18	GOM_TRA_1PNPDK20120311_131031_000000363112_00297_52466_2867.N1	11-MAR-2012 13:10:31	Bright	36.000	51	41Gam1Leo	2.0100	4500.0	72	52466	No
19	GOM_TRA_1PNPDK20120311_134437_000000373112_00297_52466_2868.N1	11-MAR-2012 13:44:37	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	52466	No
20	GOM_TRA_1PNPDK20120311_141553_000000413112_00298_52467_3109.N1	11-MAR-2012 14:15:53	Dark	41.000	141	Bet Ara	2.8400	4600.0	82	52467	No
21	GOM_TRA_1PNPDK20120311_145045_000000423112_00298_52467_3118.N1	11-MAR-2012 14:50:45	Bright	42.000	51	41Gam1Leo	2.0100	4500.0	84	52467	No
22	GOM_TRA_1PNPDK20120311_152451_000000373112_00298_52467_3119.N1	11-MAR-2012 15:24:51	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	52467	No
23	GOM_TRA_1PNPDK20120311_155608_000000423112_00299_52468_3120.N1	11-MAR-2012 15:56:08	Dark	41.500	141	Bet Ara	2.8400	4600.0	83	52468	No
24	GOM_TRA_1PNPDK20120311_163059_000000393112_00299_52468_3081.N1	11-MAR-2012 16:30:59	Bright	38.500	51	41Gam1Leo	2.0100	4500.0	77	52468	No
25	GOM_TRA_1PNPDK20120311_170505_000000383112_00299_52468_3082.N1	11-MAR-2012 17:05:05	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	52468	No
26	GOM_TRA_1PNPDK20120311_173622_000000443112_00300_52469_3083.N1	11-MAR-2012 17:36:22	Dark	43.500	141	Bet Ara	2.8400	4600.0	87	52469	No
27	GOM_TRA_1PNPDK20120311_181113_000000403112_00300_52469_3058.N1	11-MAR-2012 18:11:13	Bright	39.500	51	41Gam1Leo	2.0100	4500.0	79	52469	No
28	GOM_TRA_1PNPDK20120311_184519_000000393112_00300_52469_3059.N1	11-MAR-2012 18:45:19	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	52469	No
29	GOM_TRA_1PNPDK20120311_191637_000000443112_00301_52470_3060.N1	11-MAR-2012 19:16:37	Dark	44.000	141	Bet Ara	2.8400	4600.0	88	52470	No
30	GOM_TRA_1PNPDK20120311_195127_000000393112_00301_52470_3008.N1	11-MAR-2012 19:51:27	Bright	39.000	51	41Gam1Leo	2.0100	4500.0	78	52470	No
31	GOM_TRA_1PNPDK20120311_202533_000000303112_00301_52470_3009.N1	11-MAR-2012 20:25:33	Bright	30.000	66	37Gam Cyg	2.2080	5900.0	60	52470	No
32	GOM_TRA_1PNPDK20120311_205651_000000423112_00302_52471_3010.N1	11-MAR-2012 20:56:51	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	52471	No
33	GOM_TRA_1PNPDE20120311_213140_000000393112_00302_52471_7894.N1	11-MAR-2012 21:31:40	Bright	38.500	51	41Gam1Leo	2.0100	4500.0	77	52471	No
34	GOM_TRA_1PNPDE20120311_223706_000000523112_00303_52472_7916.N1	11-MAR-2012 22:37:06	Dark	51.500	141	Bet Ara	2.8400	4600.0	103	52472	No
35	GOM_TRA_1PNPDE20120311_231154_000000383112_00303_52472_7917.N1	11-MAR-2012 23:11:54	Bright	38.000	51	41Gam1Leo	2.0100	4500.0	76	52472	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).

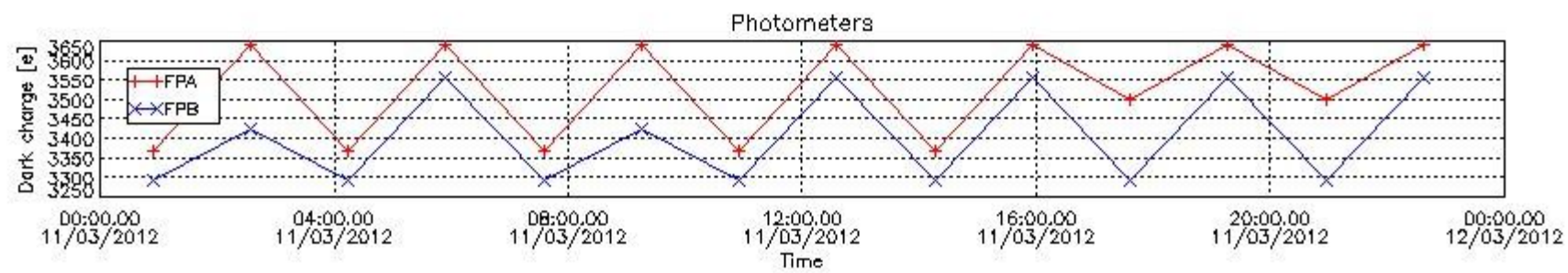
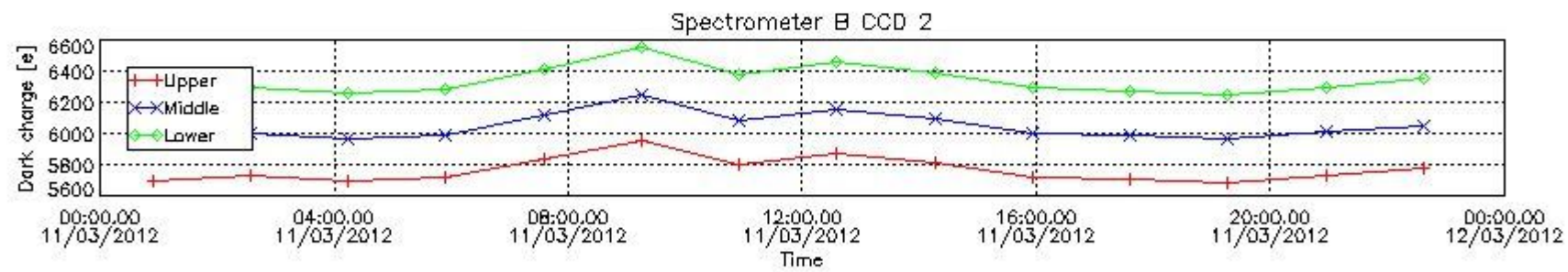
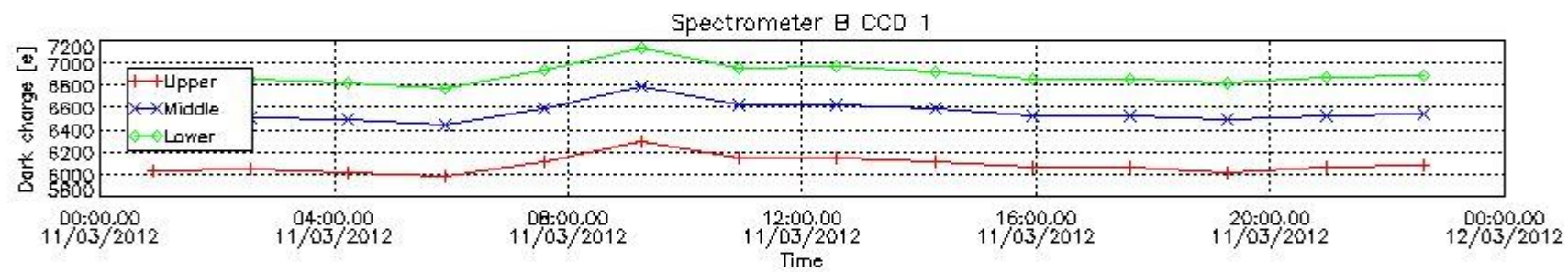
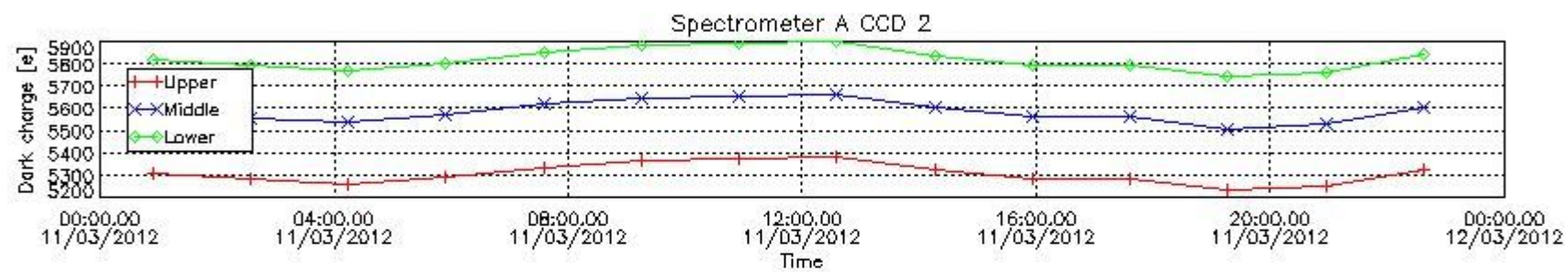
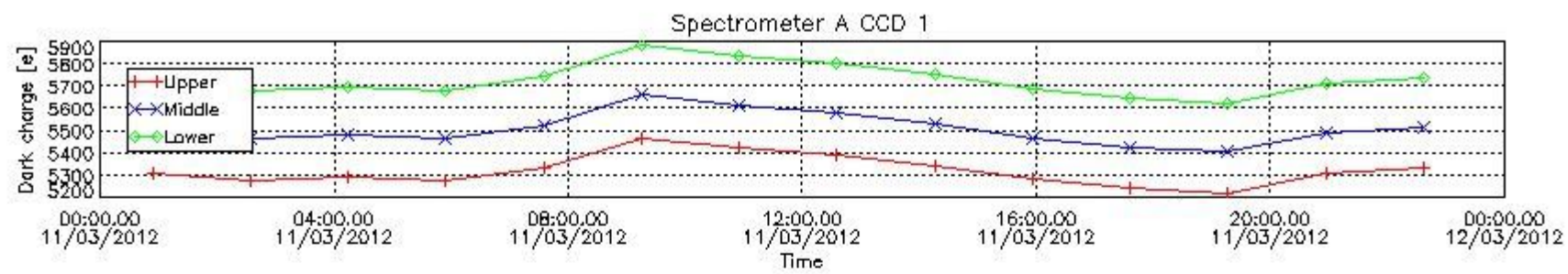
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20120311_002245_000000363112_00289_52458_7652.N1	DC map used
GOM_TRA_1PNPDE20120311_005356_000000423112_00290_52459_7682.N1	DC map used
GOM_TRA_1PNPDE20120311_020259_000000383112_00290_52459_7683.N1	DC map used
GOM_TRA_1PNPDE20120311_023411_000000443112_00291_52460_7710.N1	DC map used
GOM_TRA_1PNPDE20120311_034312_000000363112_00291_52460_7750.N1	DC map used
GOM_TRA_1PNPDE20120311_041426_000000513112_00292_52461_7751.N1	DC map used
GOM_TRA_1PNPDE20120311_052327_000000363112_00292_52461_7788.N1	DC map used
GOM_TRA_1PNPDE20120311_055440_000000453112_00293_52462_7789.N1	DC map used
GOM_TRA_1PNPDK20120311_070341_000000363112_00293_52462_2741.N1	DC map used
GOM_TRA_1PNPDK20120311_073455_000000443112_00294_52463_2742.N1	DC map used
GOM_TRA_1PNPDK20120311_084355_000000373112_00294_52463_2764.N1	DC map used
GOM_TRA_1PNPDK20120311_091510_000000443112_00295_52464_2765.N1	DC map used
GOM_TRA_1PNPDK20120311_102409_000000363112_00295_52464_2790.N1	DC map used
GOM_TRA_1PNPDK20120311_105524_000000423112_00296_52465_2791.N1	DC map used

GOM_TRA_1PNPDK20120311_113017_000000303112_00296_52465_2834.N1	DC map used
GOM_TRA_1PNPDK20120311_120423_000000393112_00296_52465_2835.N1	DC map used
GOM_TRA_1PNPDK20120311_123539_000000413112_00297_52466_2836.N1	DC map used
GOM_TRA_1PNPDK20120311_131031_000000363112_00297_52466_2867.N1	DC map used
GOM_TRA_1PNPDK20120311_134437_000000373112_00297_52466_2868.N1	DC map used
GOM_TRA_1PNPDK20120311_141553_000000413112_00298_52467_3109.N1	DC map used
GOM_TRA_1PNPDK20120311_145045_000000423112_00298_52467_3118.N1	DC map used
GOM_TRA_1PNPDK20120311_152451_000000373112_00298_52467_3119.N1	DC map used
GOM_TRA_1PNPDK20120311_155608_000000423112_00299_52468_3120.N1	DC map used
GOM_TRA_1PNPDK20120311_163059_000000393112_00299_52468_3081.N1	DC map used
GOM_TRA_1PNPDK20120311_170505_000000383112_00299_52468_3082.N1	DC map used
GOM_TRA_1PNPDK20120311_173622_000000443112_00300_52469_3083.N1	DC map used
GOM_TRA_1PNPDK20120311_181113_000000403112_00300_52469_3058.N1	DC map used
GOM_TRA_1PNPDK20120311_184519_000000393112_00300_52469_3059.N1	DC map used
GOM_TRA_1PNPDK20120311_191637_000000443112_00301_52470_3060.N1	DC map used
GOM_TRA_1PNPDK20120311_195127_000000393112_00301_52470_3008.N1	DC map used
GOM_TRA_1PNPDK20120311_202533_000000303112_00301_52470_3009.N1	DC map used
GOM_TRA_1PNPDK20120311_205651_000000423112_00302_52471_3010.N1	DC map used
GOM_TRA_1PNPDE20120311_213140_000000393112_00302_52471_7894.N1	DC map used
GOM_TRA_1PNPDE20120311_223706_000000523112_00303_52472_7916.N1	DC map used
GOM_TRA_1PNPDE20120311_231154_000000383112_00303_52472_7917.N1	DC map used

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



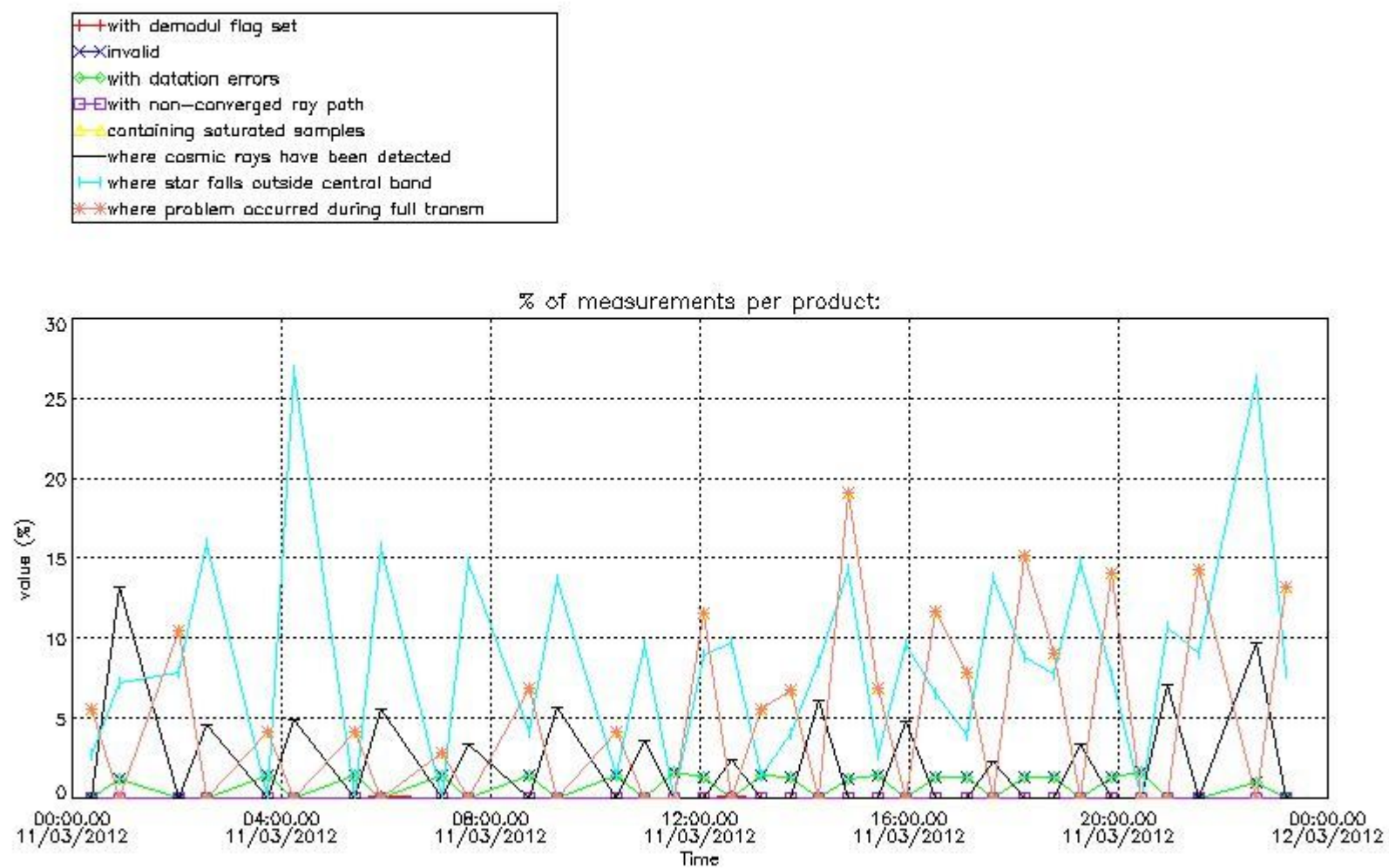
5. Demodulation flag and quality information monitoring

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.

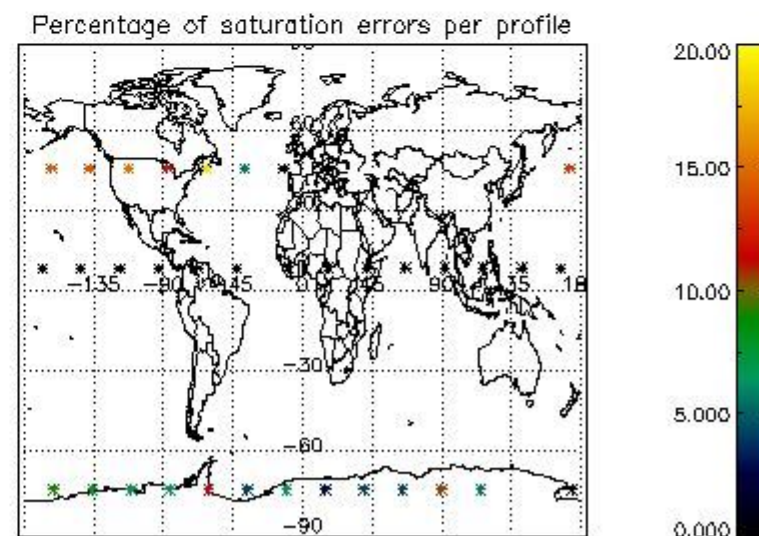
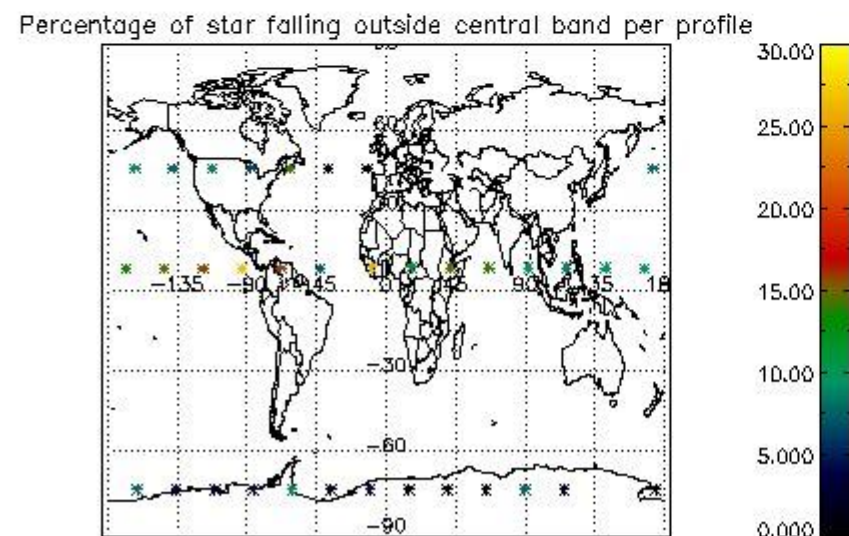
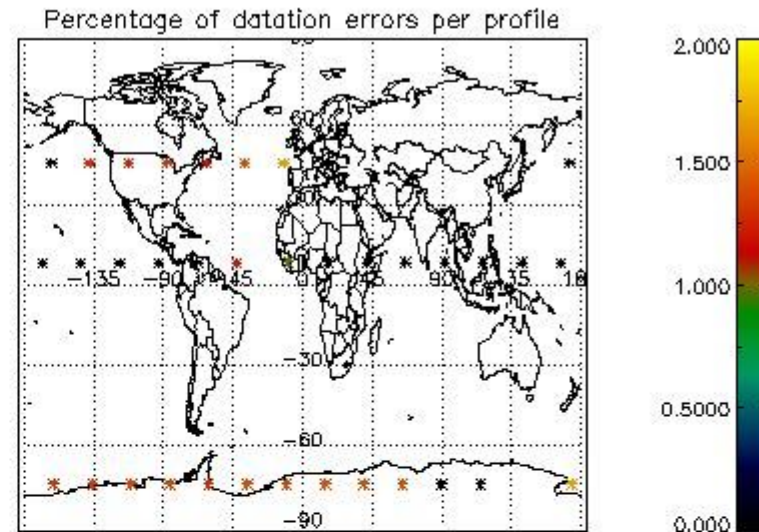
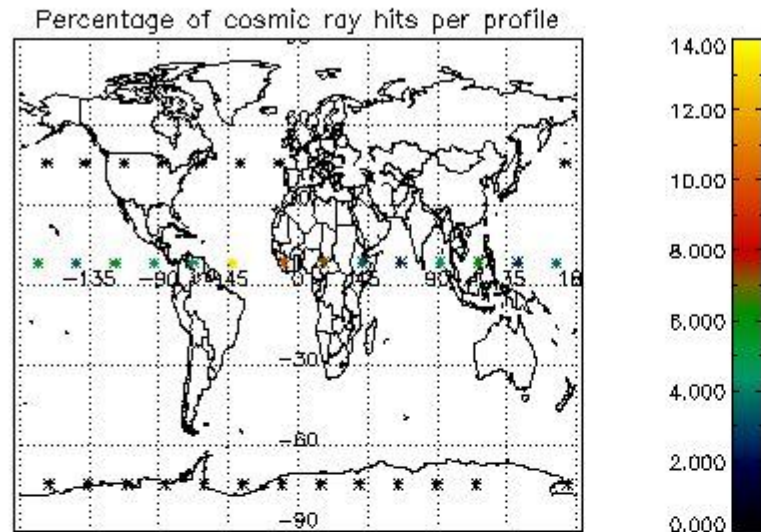
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.1429 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	60.0000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



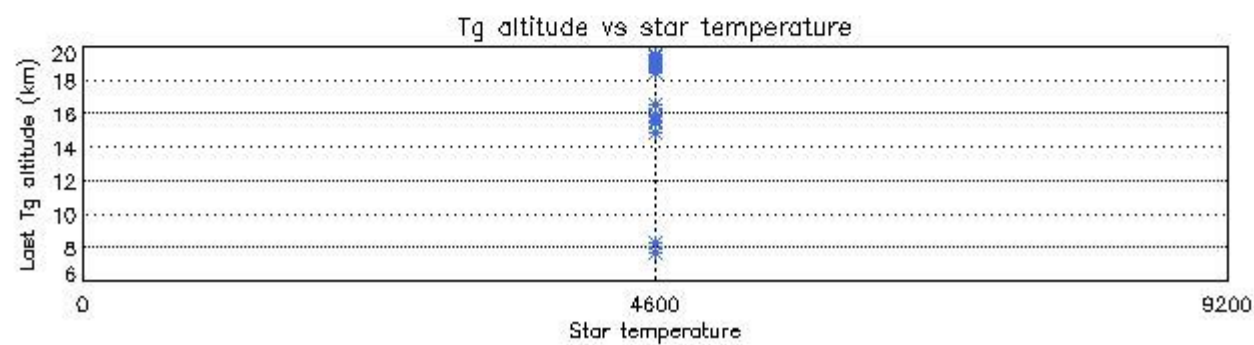
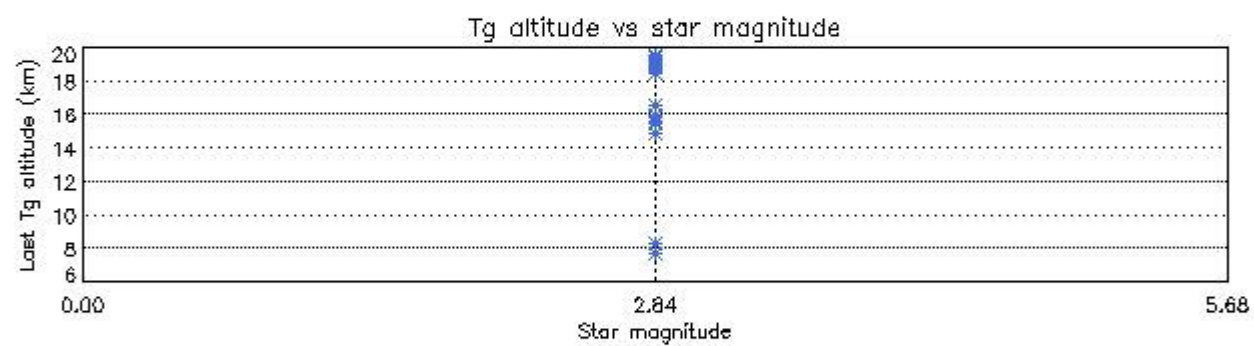
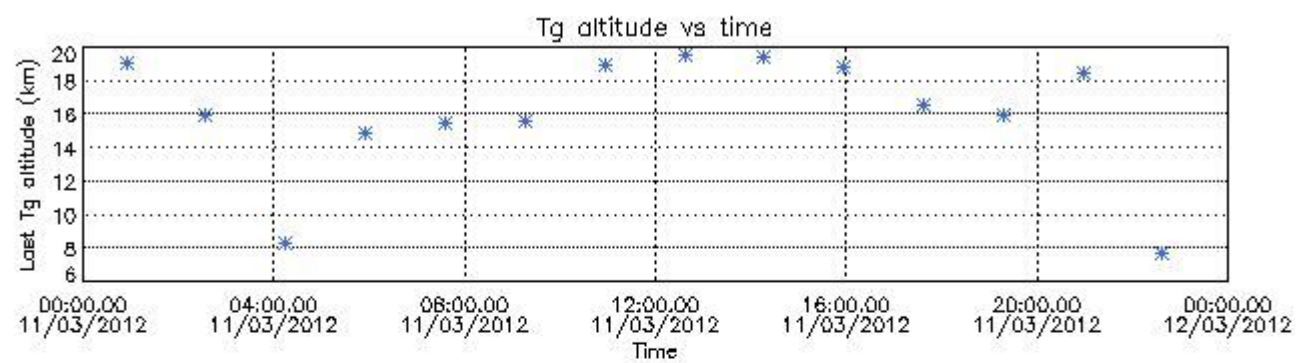
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.016	23.158	NaN
St. deviation:	3.7951	6.7721	NaN
Maximum:	19.478	41.950	NaN
Minimum:	7.6433	13.765	NaN
Number of data:	14.000	21.000	NaN

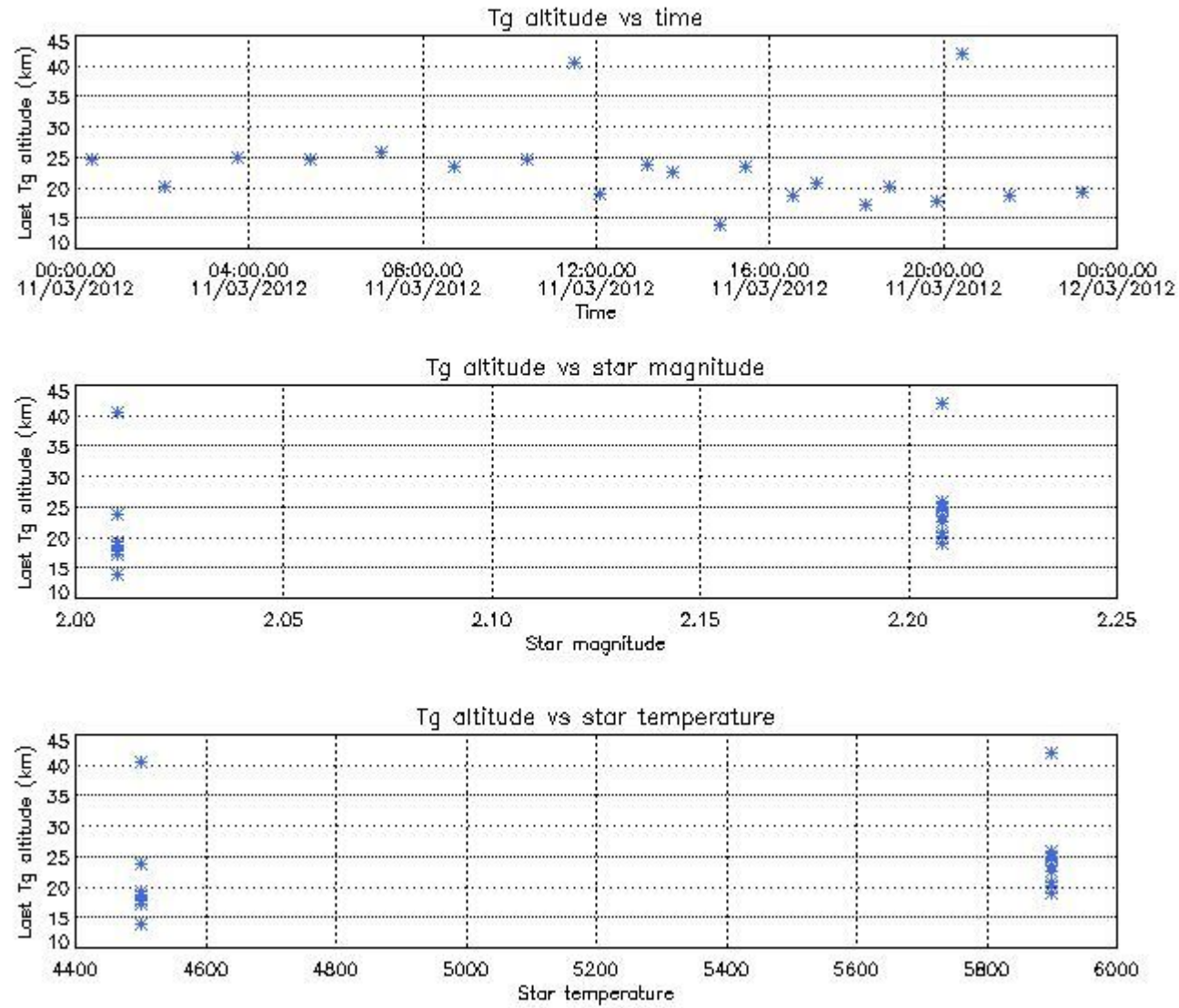
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

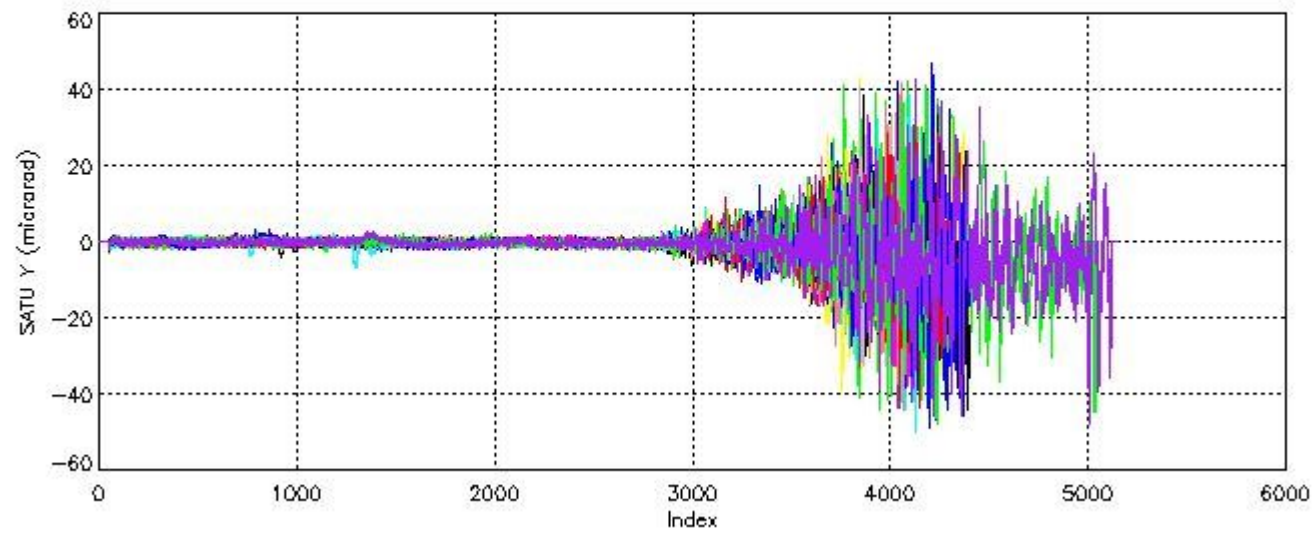
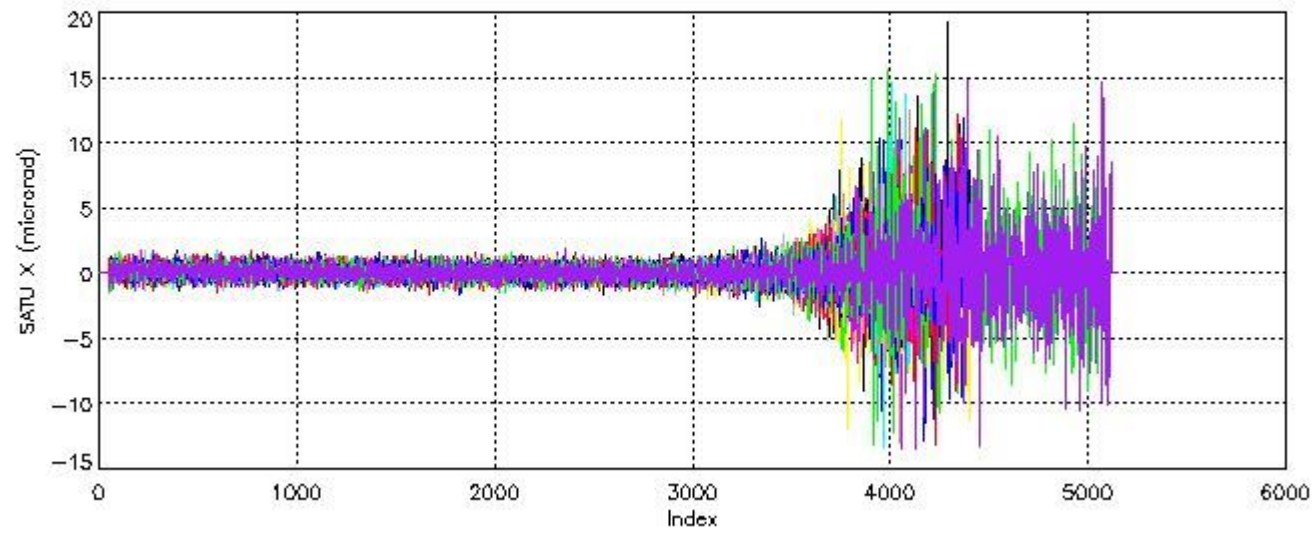


7. Star Acquisition and Tracking Unit (SATU)

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:	0.12940	-0.21125	0.14546	-0.28909
St. deviation:	0.42956	0.60254	0.50143	0.69288
Maximum:	1.8000	3.1000	2.4000	4.2000
Minimum:	-1.5000	-4.3000	-2.3000	-5.4000

Number of data:	13900.	13900.	18750.	18750.
90Percentile:	0.70000	0.50000	0.80000	0.60000

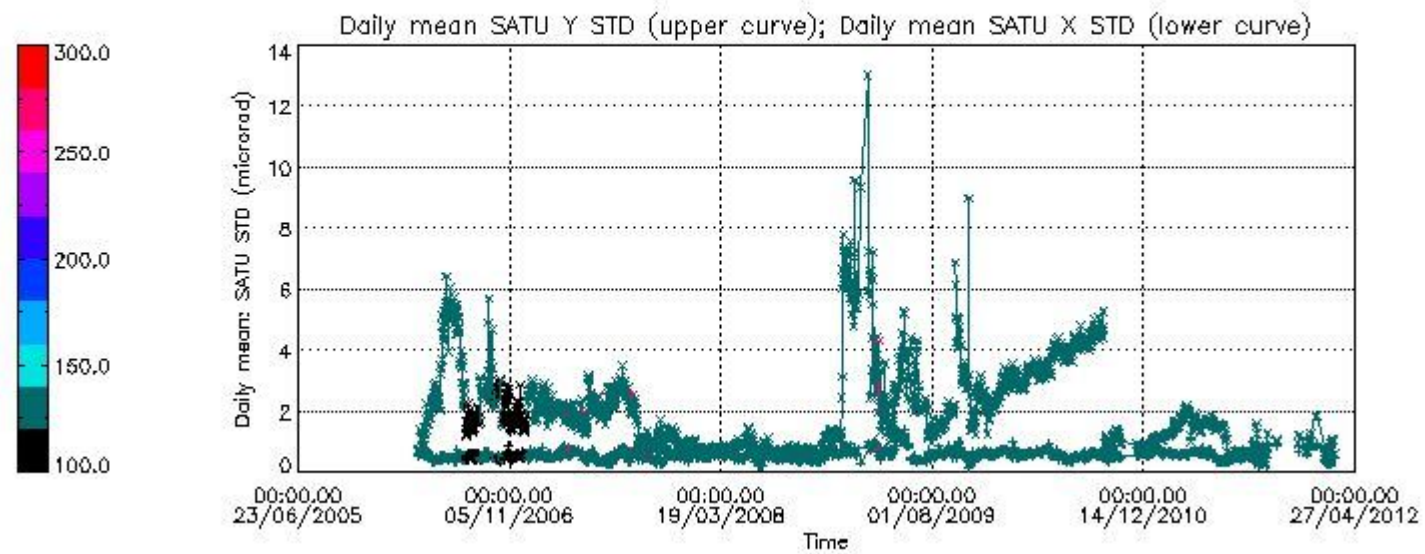
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

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.

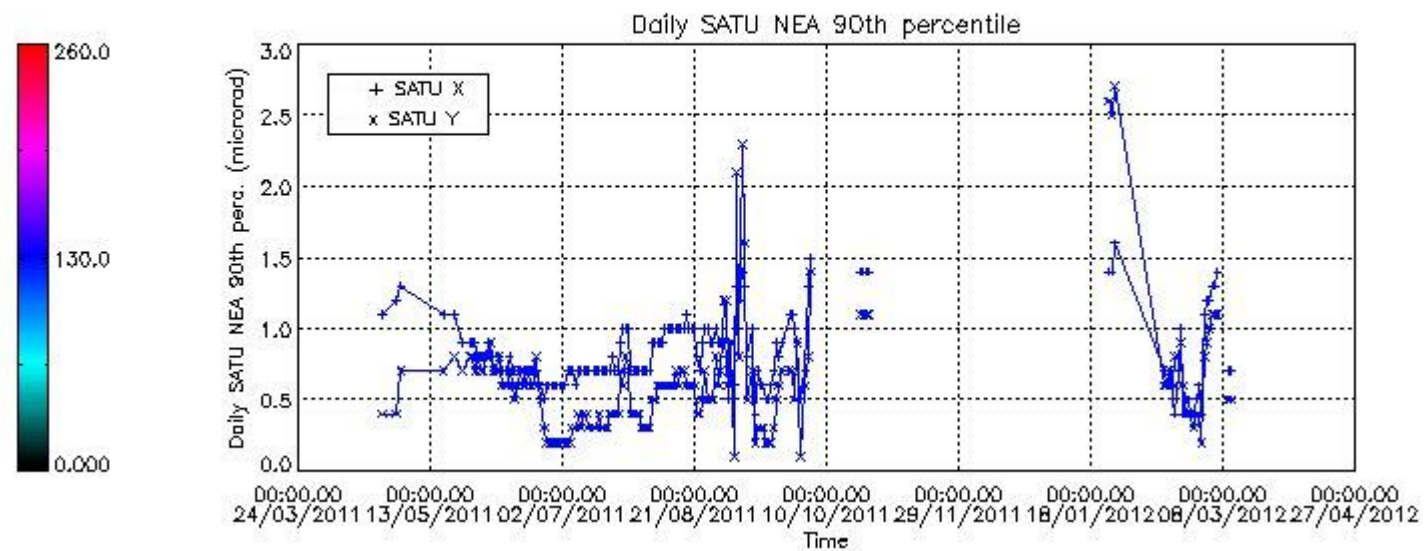
Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis



Lower curve: 90th percentile of SATU Y axis

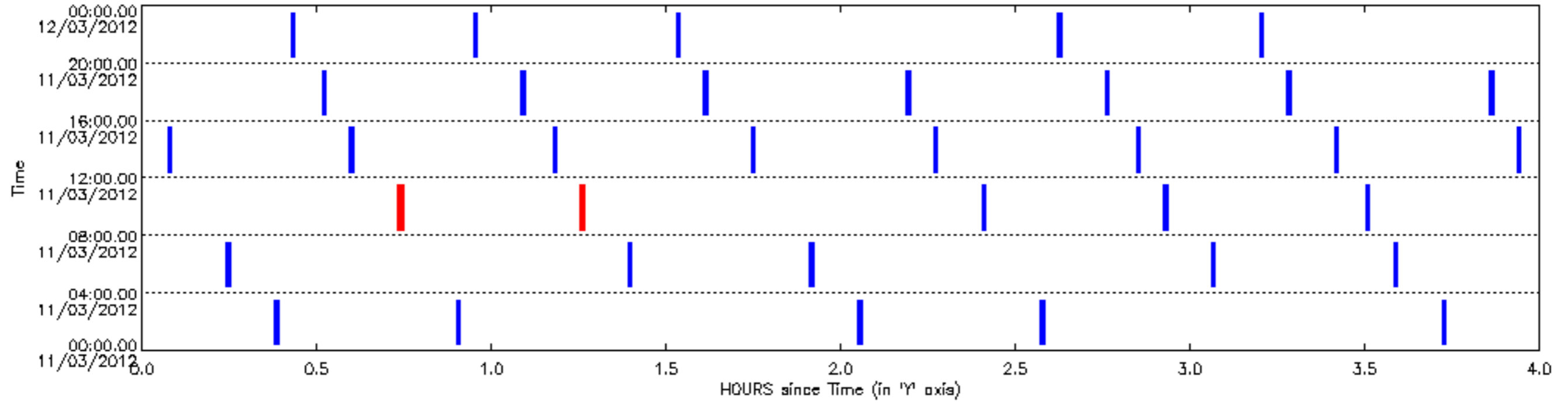
Upper curve: 90th percentile of SATU X axis

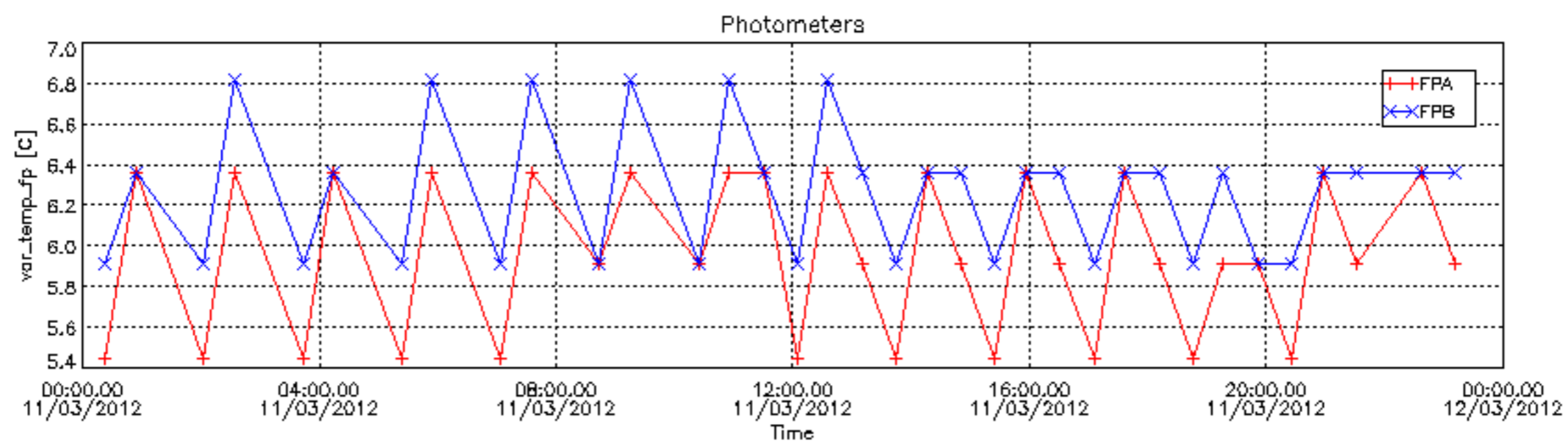
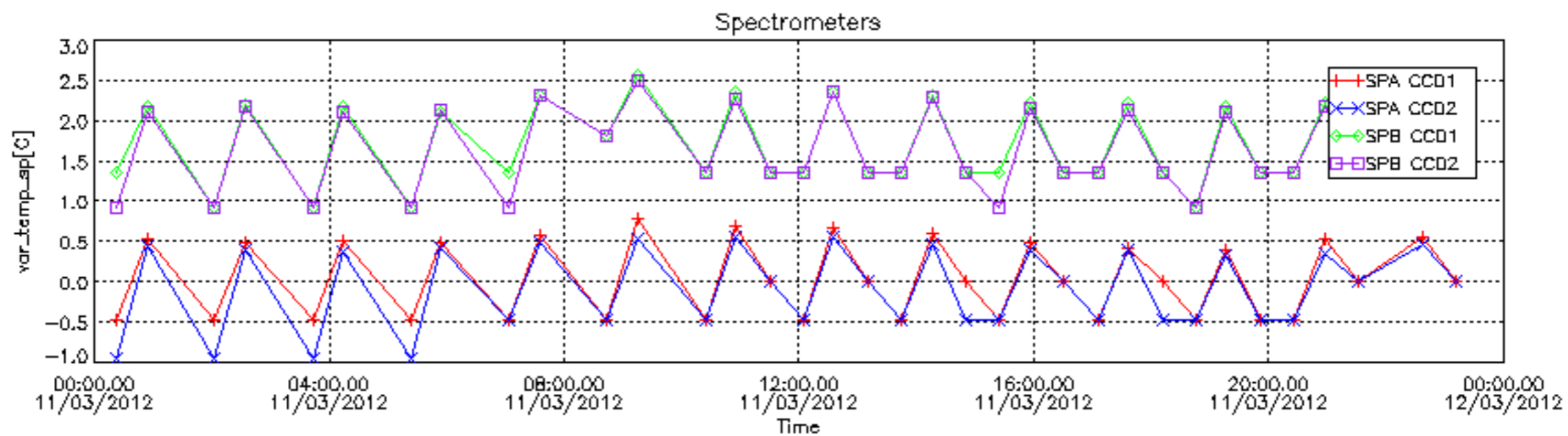


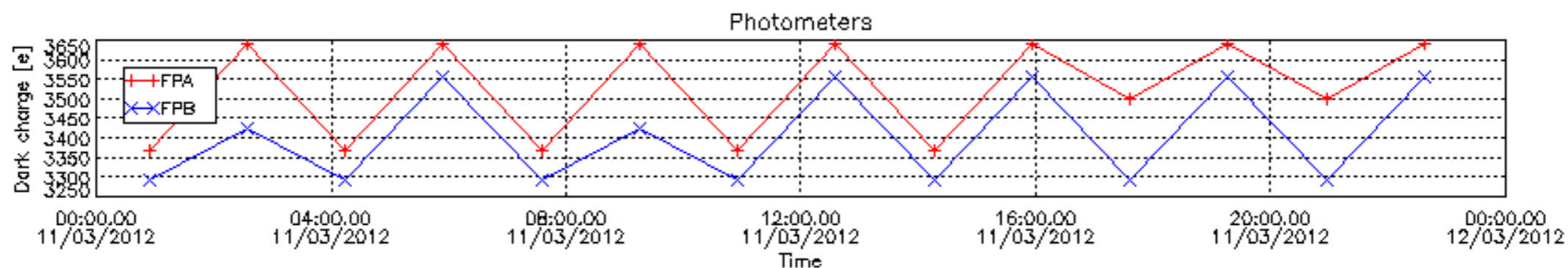
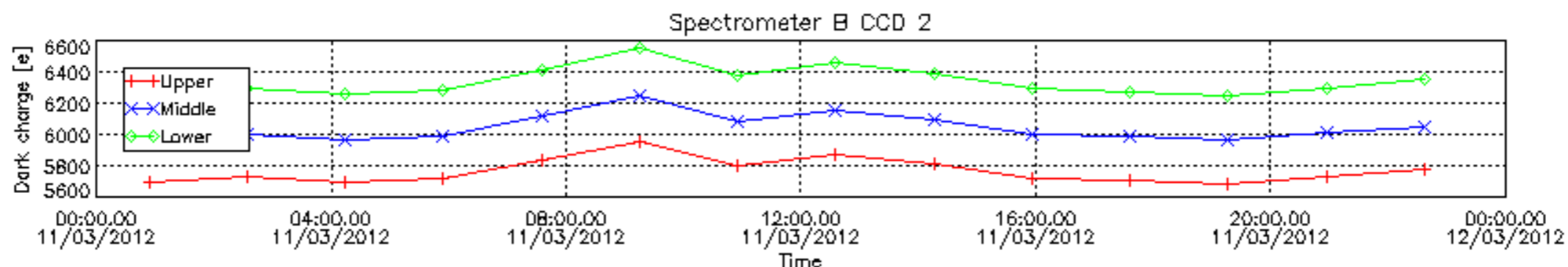
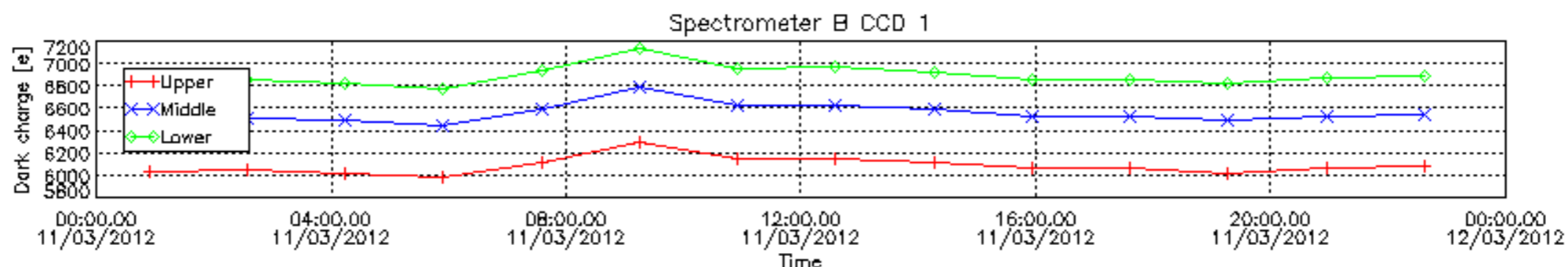
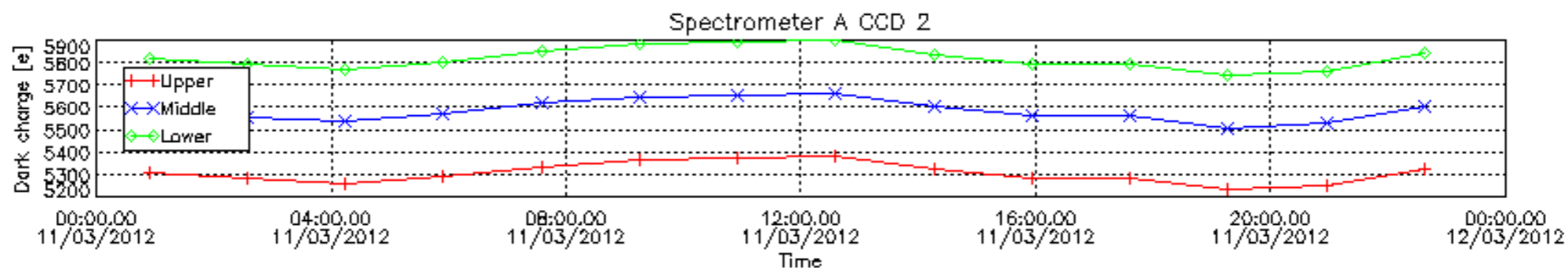
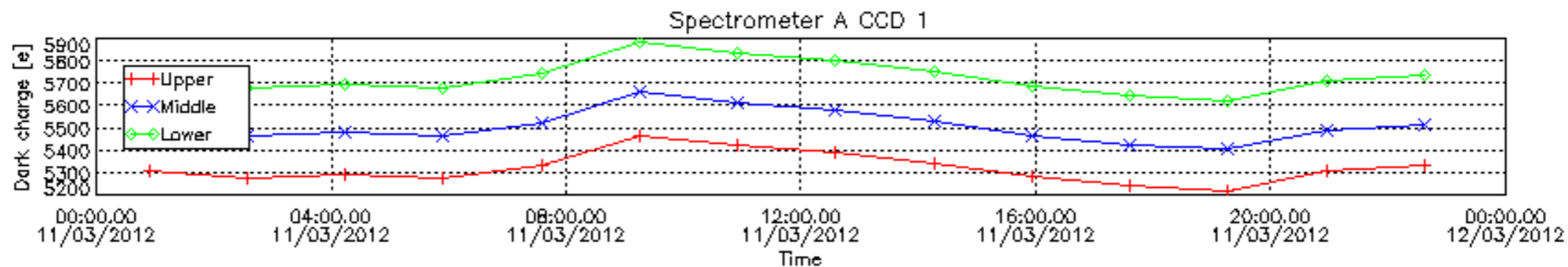
8. Auxiliary Data Files used for the production reported in section 2.4

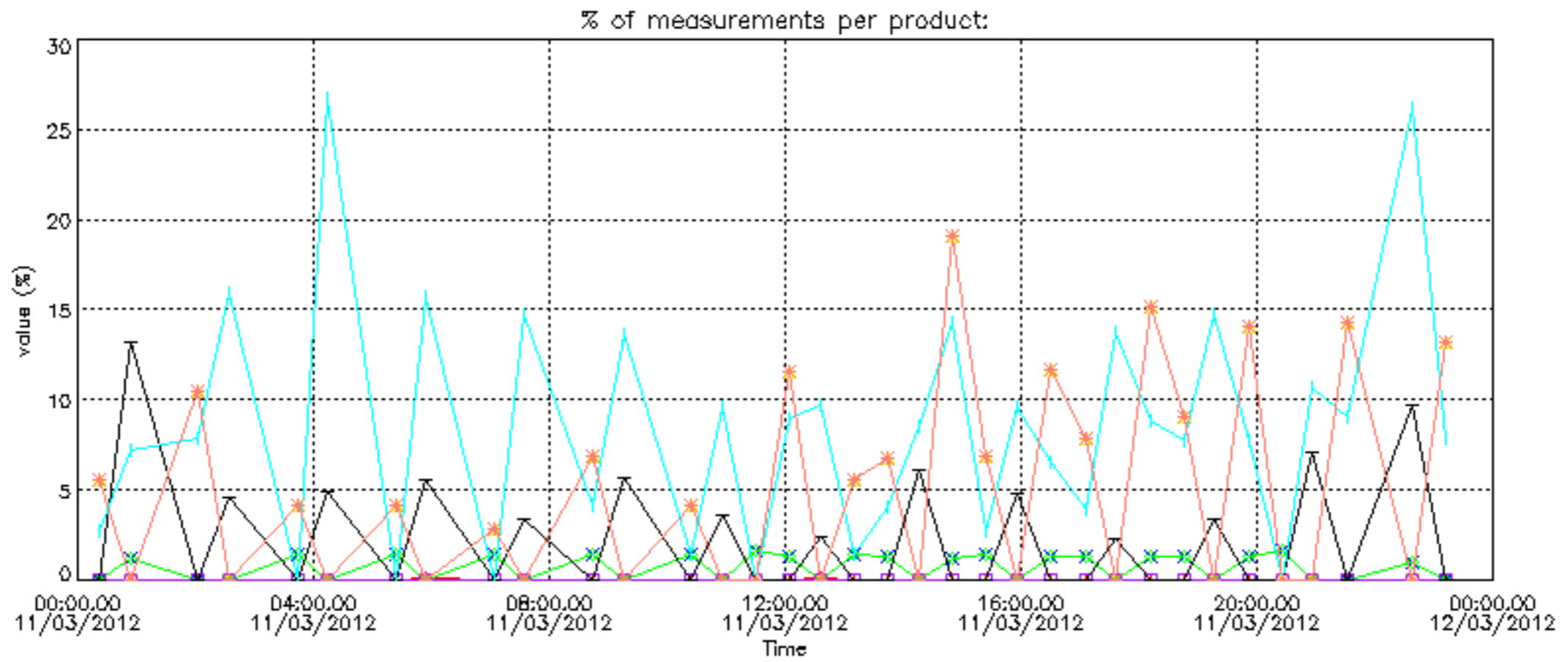
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	11-MAR-2012 00:22:45
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20120307_084038_20120305_000000_20500101_000000	1	11-MAR-2012 00:22:45
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	11-MAR-2012 00:22:45
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-MAR-2012 00:22:45
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	11-MAR-2012 00:22:45
ECMWF_FILE	AUX_ECF_AXNECM20120310_062114_20120310_210000_20120311_090000	1	11-MAR-2012 00:22:45
ECMWF_FILE	AUX_ECF_AXNECM20120310_183246_20120311_030000_20120311_150000	5	11-MAR-2012 03:43:12
ECMWF_FILE	AUX_ECA_AXNECM20120311_062113_20120310_210000_20120311_090000	7	11-MAR-2012 05:23:27
ECMWF_FILE	AUX_ECF_AXNECM20120310_183246_20120311_030000_20120311_150000	11	11-MAR-2012 08:43:55
ECMWF_FILE	AUX_ECF_AXNECM20120311_062113_20120311_090000_20120311_210000	13	11-MAR-2012 10:24:09
ECMWF_FILE	AUX_ECA_AXNECM20120311_182116_20120311_090000_20120311_210000	20	11-MAR-2012 14:15:53
ECMWF_FILE	AUX_ECF_AXNECM20120311_062114_20120311_210000_20120312_090000	33	11-MAR-2012 21:31:40
OPTIONAL_ECMWF_FILE	MISSING	1	11-MAR-2012 00:22:45
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120308_232629_20120308_192413_20120318_213752	1	11-MAR-2012 00:22:45

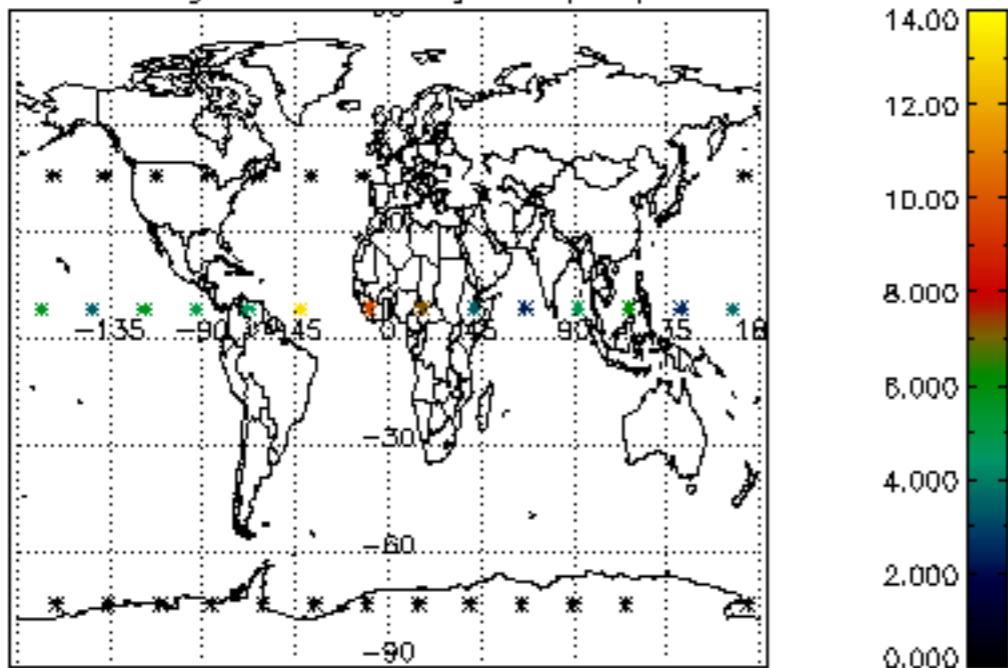




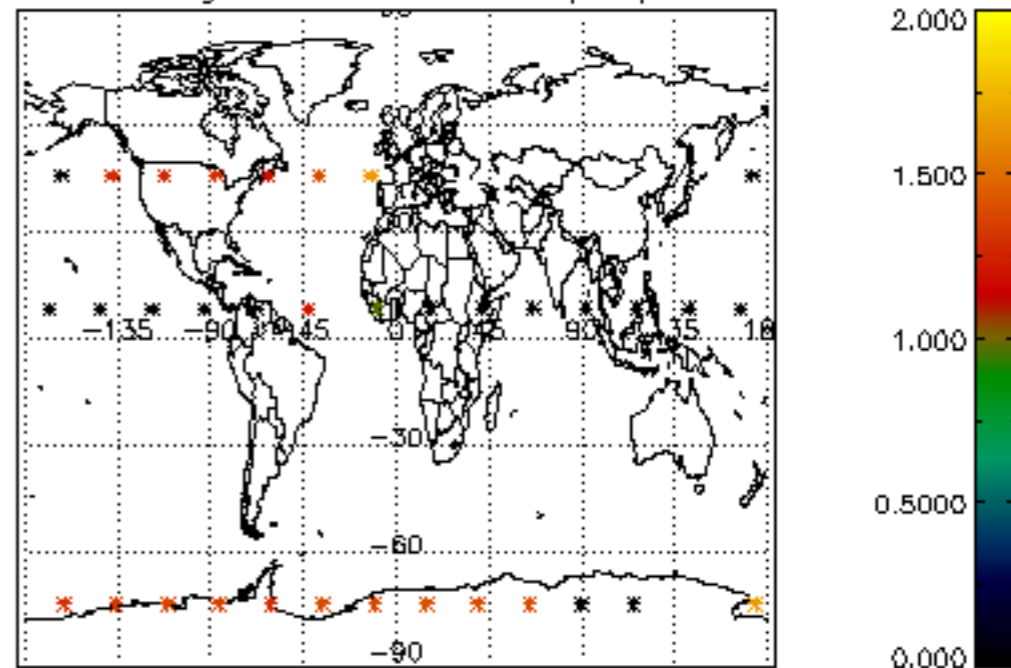




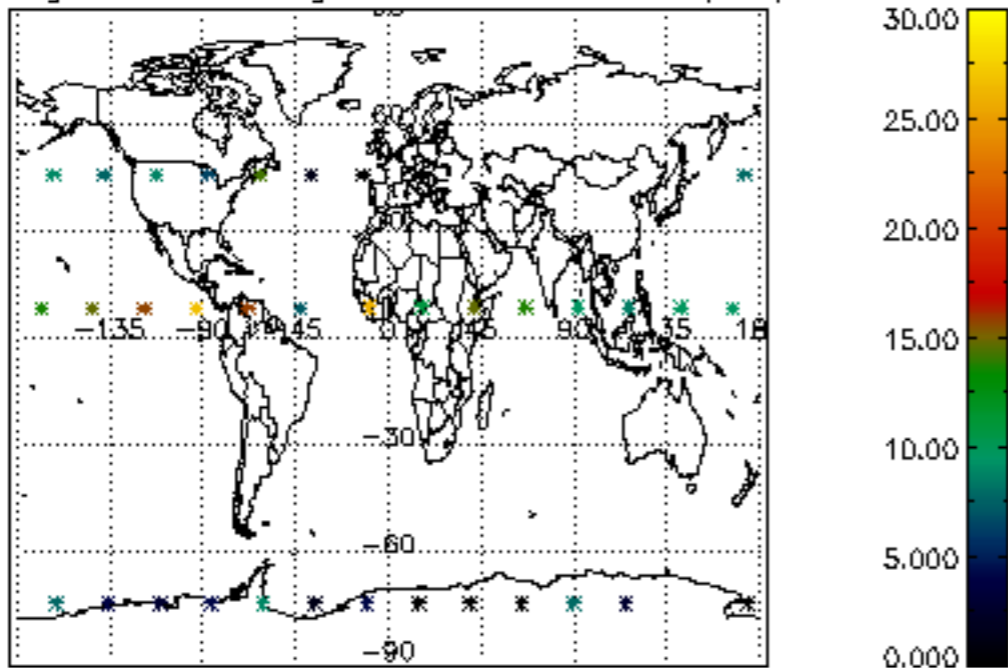
Percentage of cosmic ray hits per profile



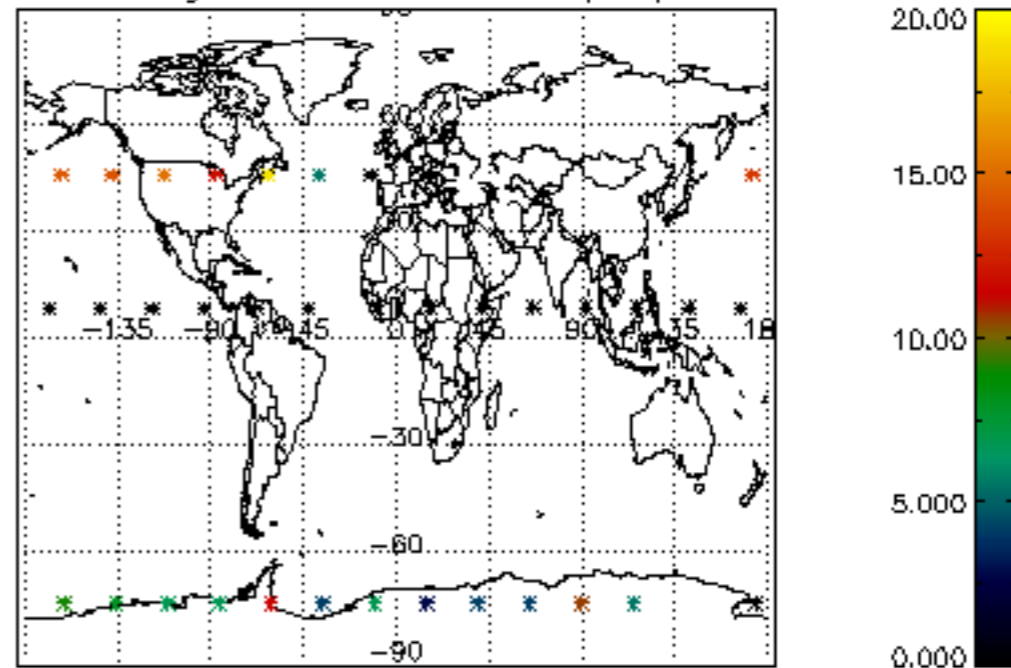
Percentage of datation errors per profile



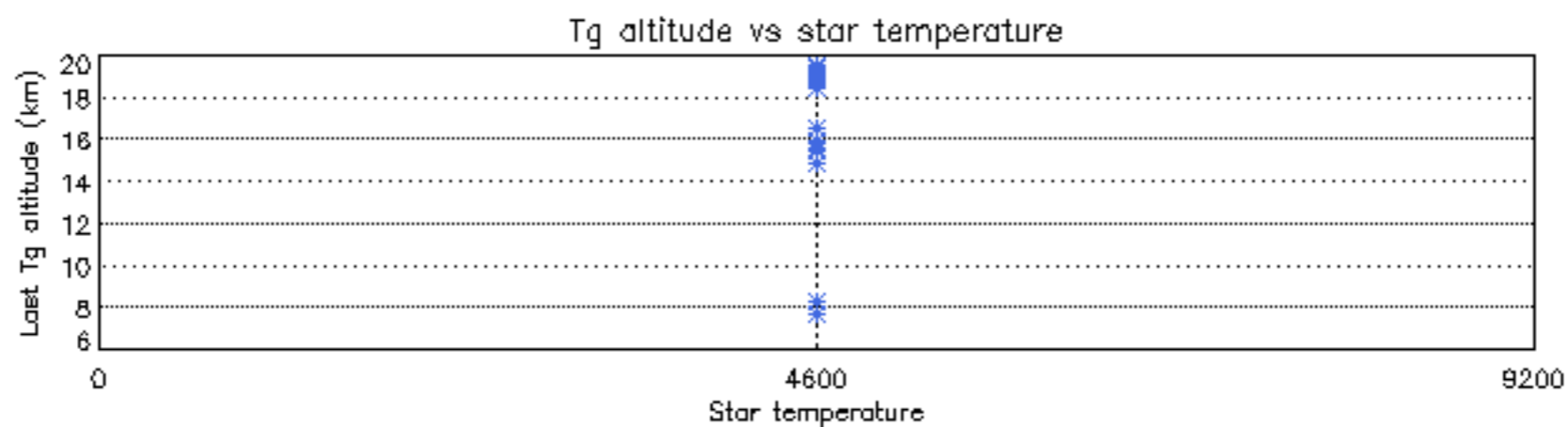
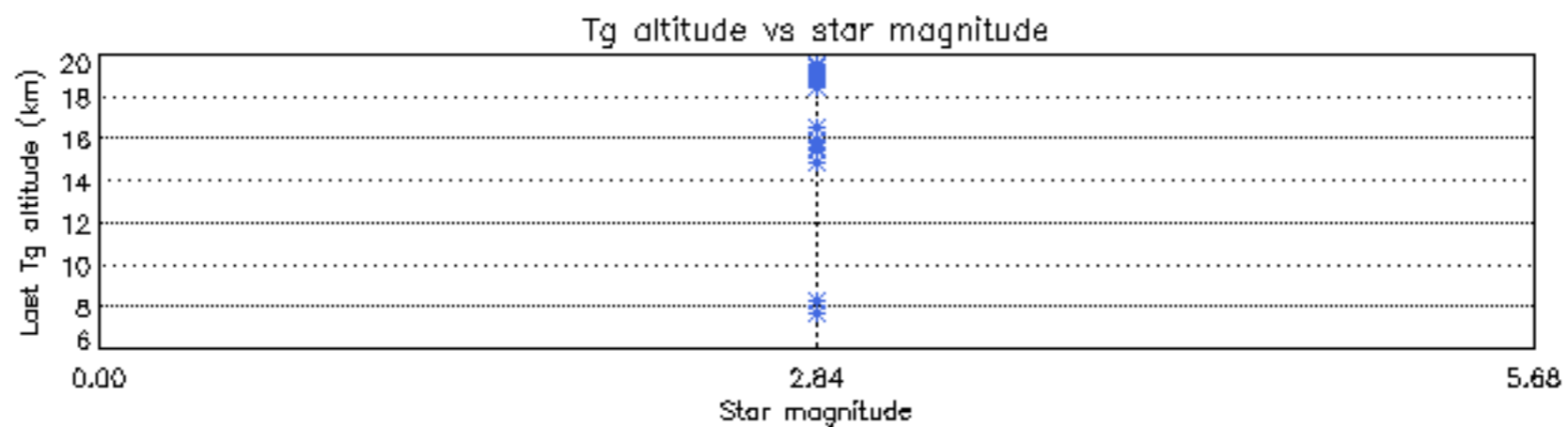
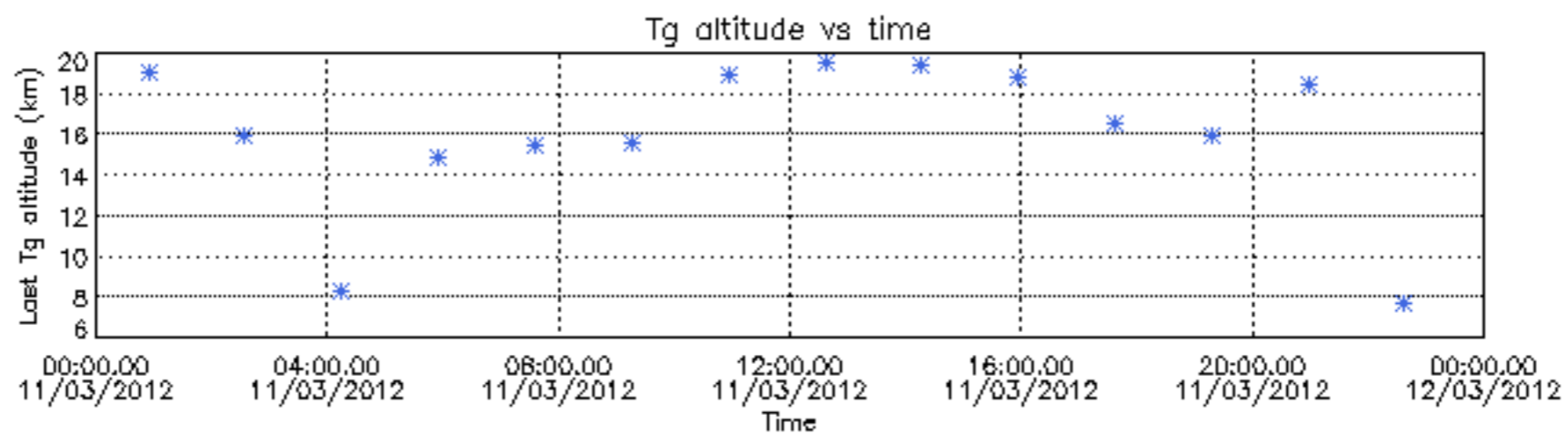
Percentage of star falling outside central band per profile



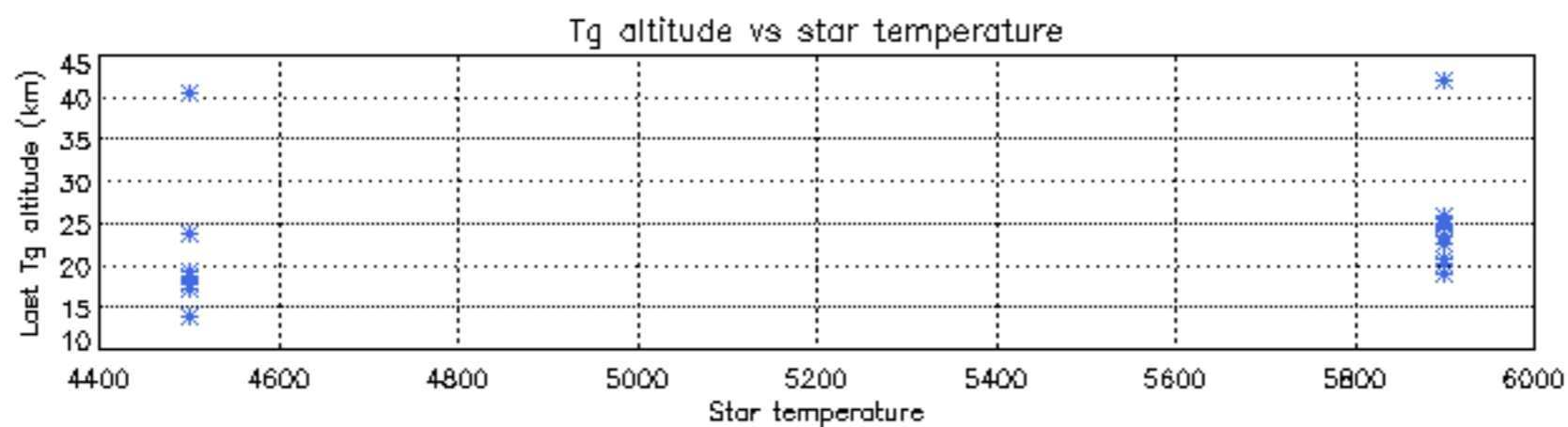
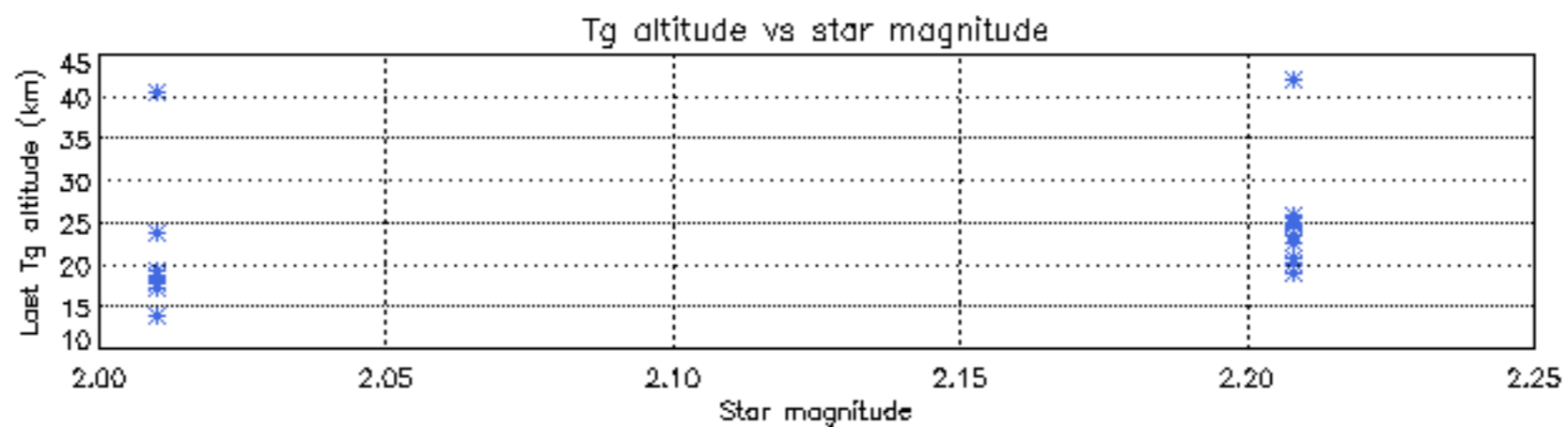
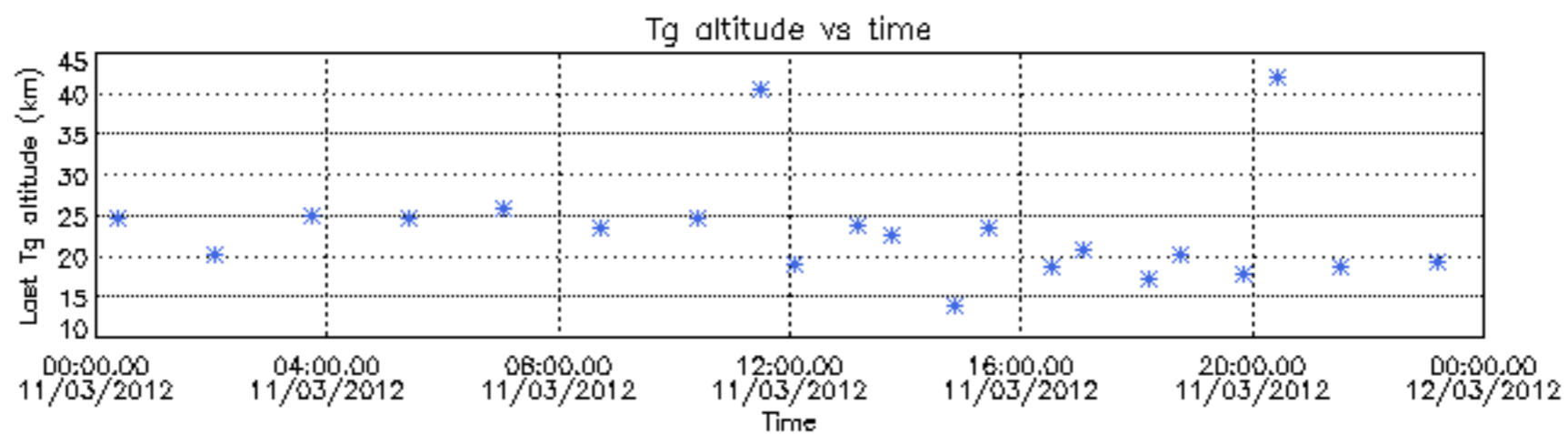
Percentage of saturation errors per profile

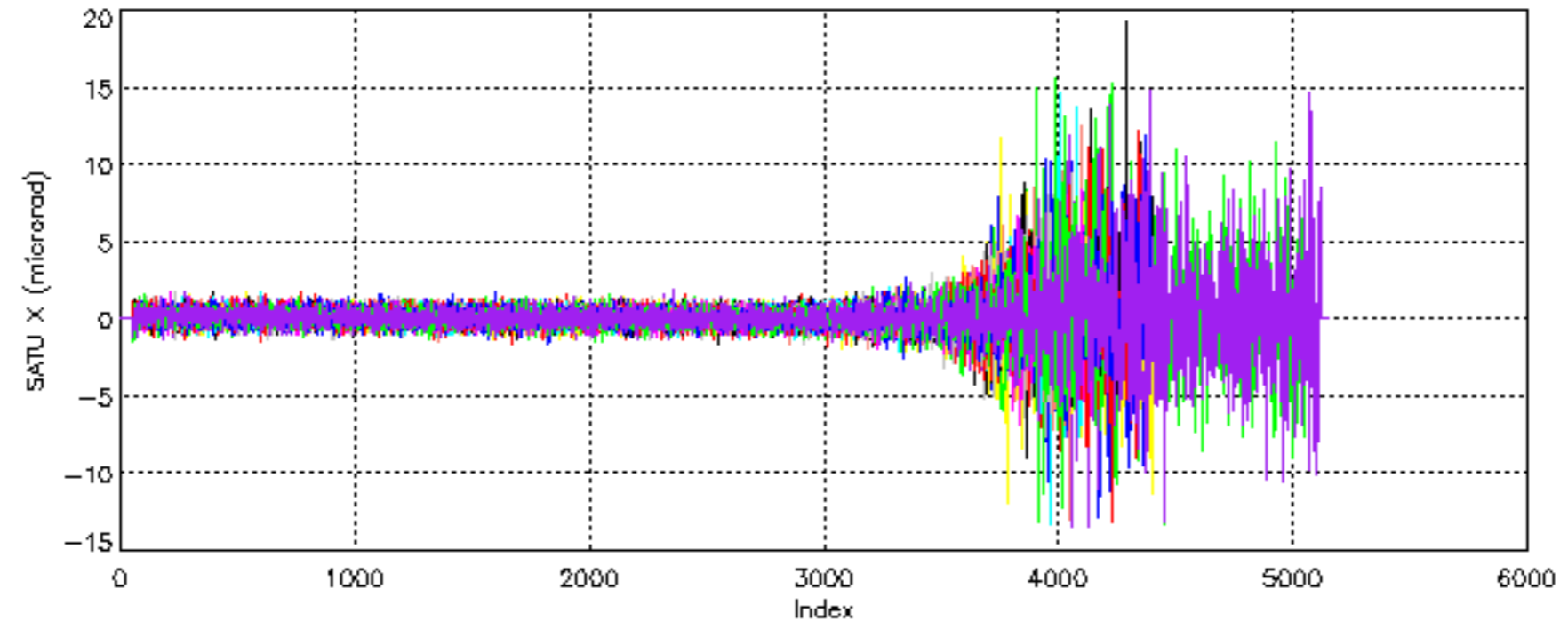


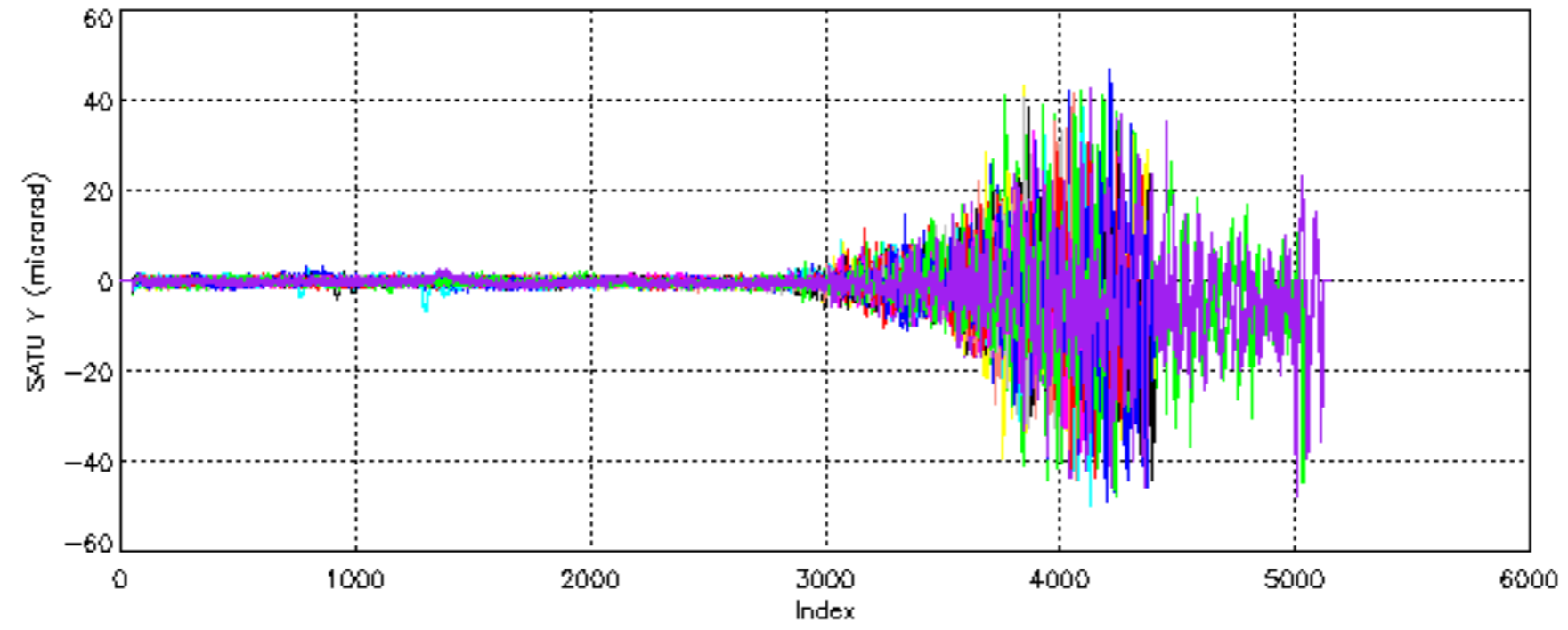
Tangent altitude at which the star is lost

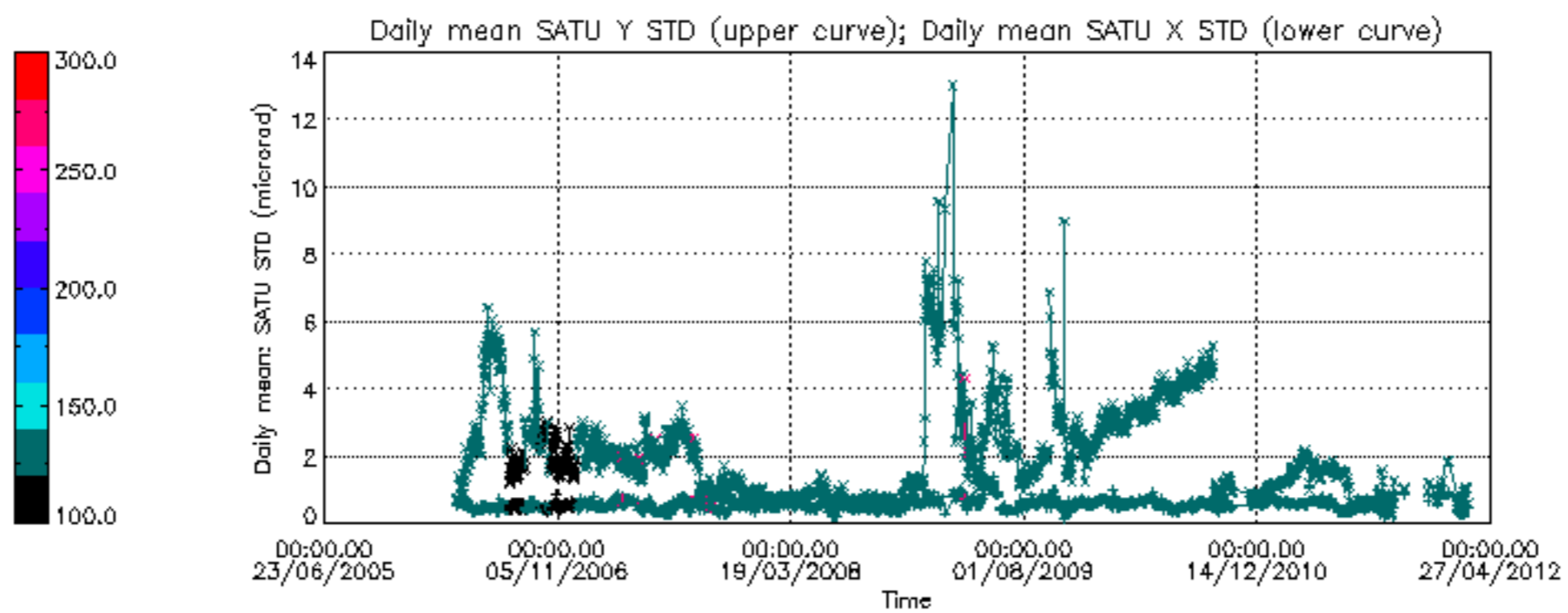


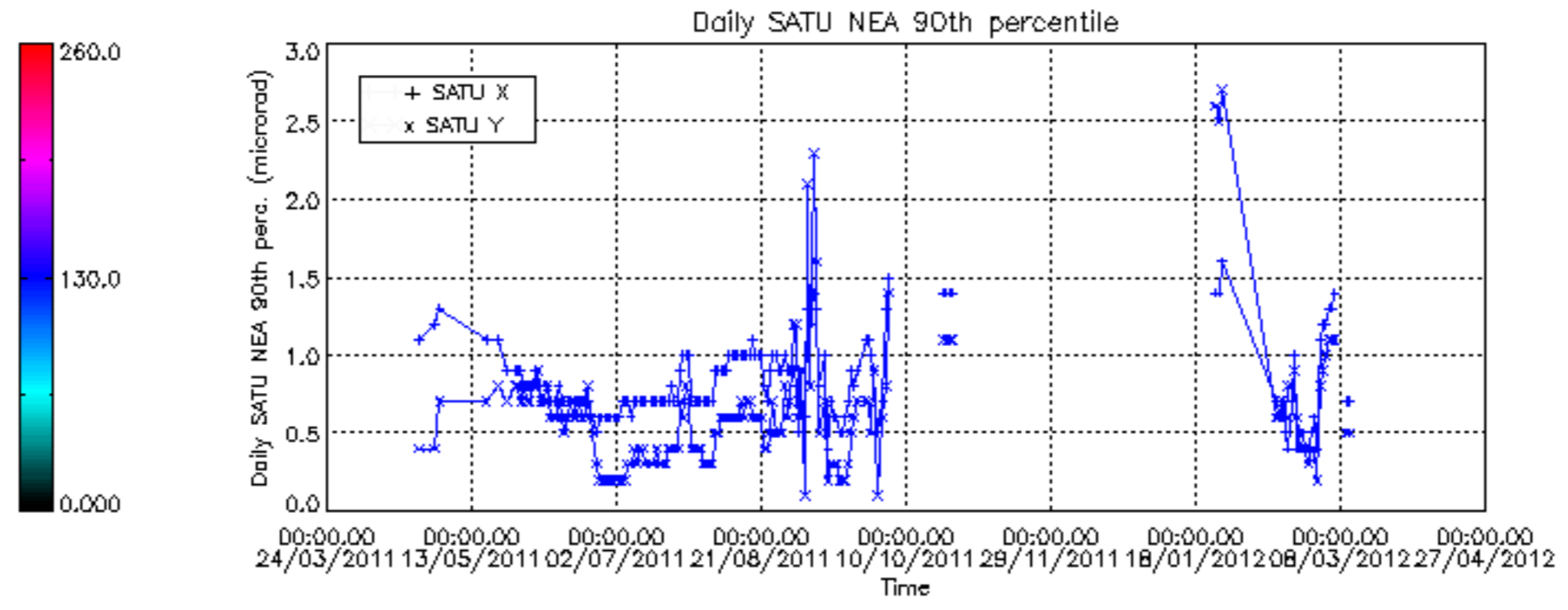
Tangent altitude at which the star is lost











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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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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
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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; 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
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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
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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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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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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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120315_212049_000000343112_00359_52528_6760.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120315_215720_000038583112_00360_52529_6761.N1

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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
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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; 562.9; 15-MAR-2012 11:55:53; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;52523
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120315_194035_000022433112_00358_52527_5820.N1
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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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120316_011750_000038743112_00362_52531_6763.N1
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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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120316_040145_000000353112_00363_52532_6764.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120316_054159_000000363112_00364_52533_6765.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120316_072213_000000533112_00365_52534_5821.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120316_104241_000000363112_00367_52536_5823.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120316_122255_000000353112_00368_52537_5824.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120316_140309_000000373112_00369_52538_5827.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120316_172338_000000353112_00371_52540_5829.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120318_201337_000000363112_00402_52571_6768.N1
1; 957.0; 18-MAR-2012 20:13:37; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 16;52571
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120318_213050_000014183112_00402_52571_6769.N1
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2; 949.3; 18-MAR-2012 21:53:43; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;52572
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120318_231104_000014163112_00403_52572_6770.N1
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2; 949.7; 18-MAR-2012 23:33:57; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;52573
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120318_083148_000000403112_00395_52564_5831.N1
1; 946.4; 18-MAR-2012 08:31:48; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;52564
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120318_094908_000014153112_00395_52564_5832.N1

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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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120318_112922_000014163112_00396_52565_5833.N1
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2; 946.9; 18-MAR-2012 11:52:17; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;52566
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120318_130937_000014133112_00397_52566_5834.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120318_144951_000014133112_00398_52567_5835.N1
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2; 947.7; 18-MAR-2012 15:12:45; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;52568
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120318_163006_000014143112_00399_52568_5836.N1
1; -425.5; 18-MAR-2012 16:30:06; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;52568
2; 948.2; 18-MAR-2012 16:53:00; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;52569
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120318_181021_000014143112_00400_52569_5837.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120318_195035_000014183112_00401_52570_5838.N1
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2; 949.0; 18-MAR-2012 20:13:29; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;52571
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120319_011411_000000413112_00405_52574_6771.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120319_025426_000000423112_00406_52575_6772.N1
1; 950.6; 19-MAR-2012 02:54:26; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;52575
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120319_043440_000000393112_00407_52576_6773.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120319_061454_000000423112_00408_52577_6774.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120319_075509_000000433112_00409_52578_5839.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120322_214020_000000373113_00029_52629_6775.N1
1; 2952.2; 22-MAR-2012 21:40:20; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0; -1
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120322_232034_000000353113_00030_52630_6776.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120322_181952_000000363113_00027_52627_5841.N1
1; 2952.5; 22-MAR-2012 18:19:52; Bright; 37.0; 36; 50Alp UMA ; 1.80; 6300;occ; 74; 0; -1
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120322_200006_000000363113_00028_52628_5842.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120323_010048_000000373113_00031_52631_6777.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120323_024101_000000353113_00032_52632_6778.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120323_042115_000000363113_00033_52633_6779.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120323_060129_000000363113_00034_52634_6780.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120323_210202_000001293113_00043_52643_6781.N1
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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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
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2; 2949.4; 24-MAR-2012 08:45:10; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 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; 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; 832.1; 25-MAR-2012 14:14:03; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 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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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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2; 2656.6; 26-MAR-2012 09:07:01; Bright; 29.0; 174; 52Psi UMa ; 3.00; 4400;occ; 58; 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
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4; 6852.9; 26-MAR-2012 15:17:39; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0; -1
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