

GOMOS Daily Report 09-JUN-2010

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

[4. Dark Charge monitoring](#)

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

[4.2 Plot of Dark Charge](#)

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

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

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

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

[6. Star tangent altitude lost](#)

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

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

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

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

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

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

[7.2 SATU Noise Equivalent Angle statistics](#)

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

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

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

[Level 2 products](#)

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	12JUN2010 04:51:17
Data source version	GOMOS/5.00L04
Start time of products	09JUN2010 00:01:35
Stop time of products	09JUN2010 23:54:26
Store outputs in DB	Yes
Nb of level 1b prods	120
Nb of prods with errors	1

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

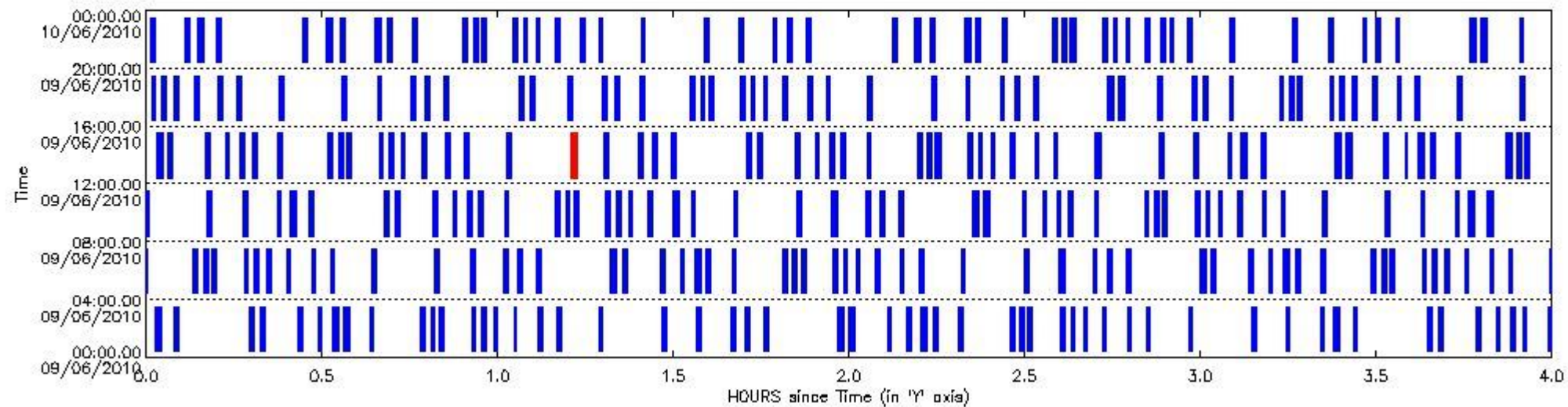
2.1 Level 0 products arrived in PCF (see template [here](#))

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).

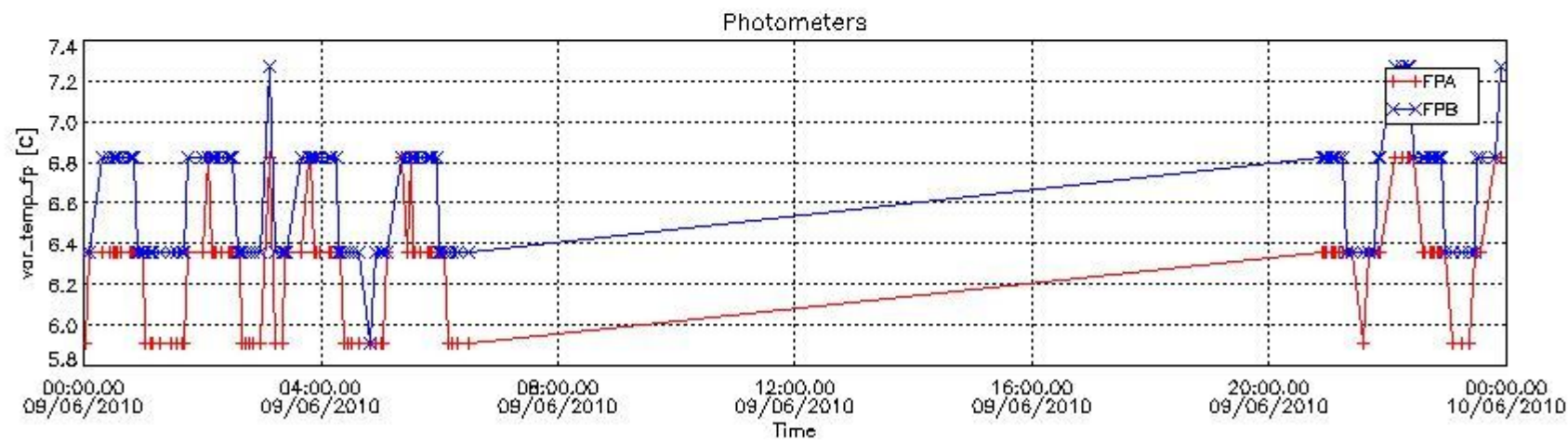
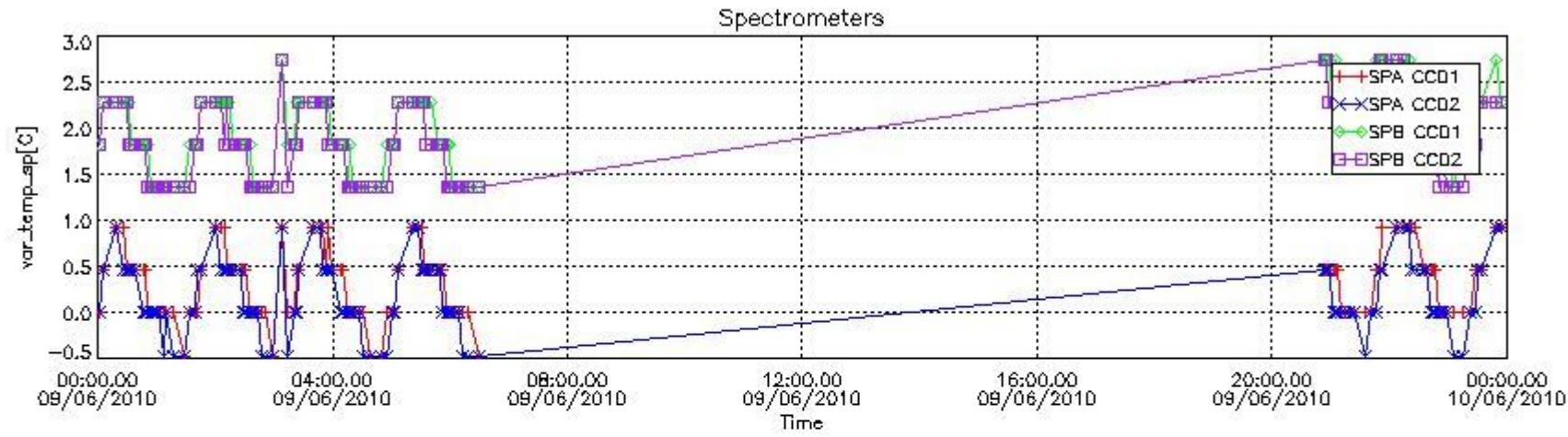


2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
09-JUN-2010 13:12:22	5AlpCep	89	43264

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_1PNPDE20100609_000135_000000572090_00116_43256_7584.N1	09-JUN-2010 00:01:35	Bright	56.500	53	43Bet And	2.0480	3300.0	113	43256	No
2	GOM_TRA_1PNPDE20100609_000450_000000482090_00116_43256_7585.N1	09-JUN-2010 00:04:50	Twilight	48.000	50	13Alp Ari	2.0070	4250.0	96	43256	No
3	GOM_TRA_1PNPDE20100609_001921_000000522090_00116_43256_7583.N1	09-JUN-2010 00:19:21	Dark	51.500	52	16Bet Cet	2.0370	4500.0	103	43256	No
4	GOM_TRA_1PNPDE20100609_002553_000000432090_00116_43256_7584.N1	09-JUN-2010 00:25:53	Dark	42.500	84	Alp Phe	2.3970	4500.0	85	43256	No
5	GOM_TRA_1PNPDE20100609_002918_000000422090_00117_43257_7585.N1	09-JUN-2010 00:29:18	Dark	42.000	18	24Alp PsA	1.1660	9700.0	84	43257	No
6	GOM_TRA_1PNPDE20100609_003144_000000632090_00117_43257_7586.N1	09-JUN-2010 00:31:44	Dark	62.500	63	Bet Gru	2.1500	2800.0	125	43257	No
7	GOM_TRA_1PNPDE20100609_003343_000000532090_00117_43257_7587.N1	09-JUN-2010 00:33:43	Dark	52.500	31	Alp Gru	1.7340	15200.	105	43257	No
8	GOM_TRA_1PNPDE20100609_003810_000000422090_00117_43257_7588.N1	09-JUN-2010 00:38:10	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	43257	No
9	GOM_TRA_1PNPDE20100609_004648_000000512090_00117_43257_7589.N1	09-JUN-2010 00:46:48	Straylight	51.000	40	The Sco	1.8590	7100.0	102	43257	No
10	GOM_TRA_1PNPDE20100609_004833_000000462090_00117_43257_7590.N1	09-JUN-2010 00:48:33	Twilight_and_stray	45.500	25	35Lam Sco	1.6200	28000.	91	43257	No



4. Overview of dark signal processing per product

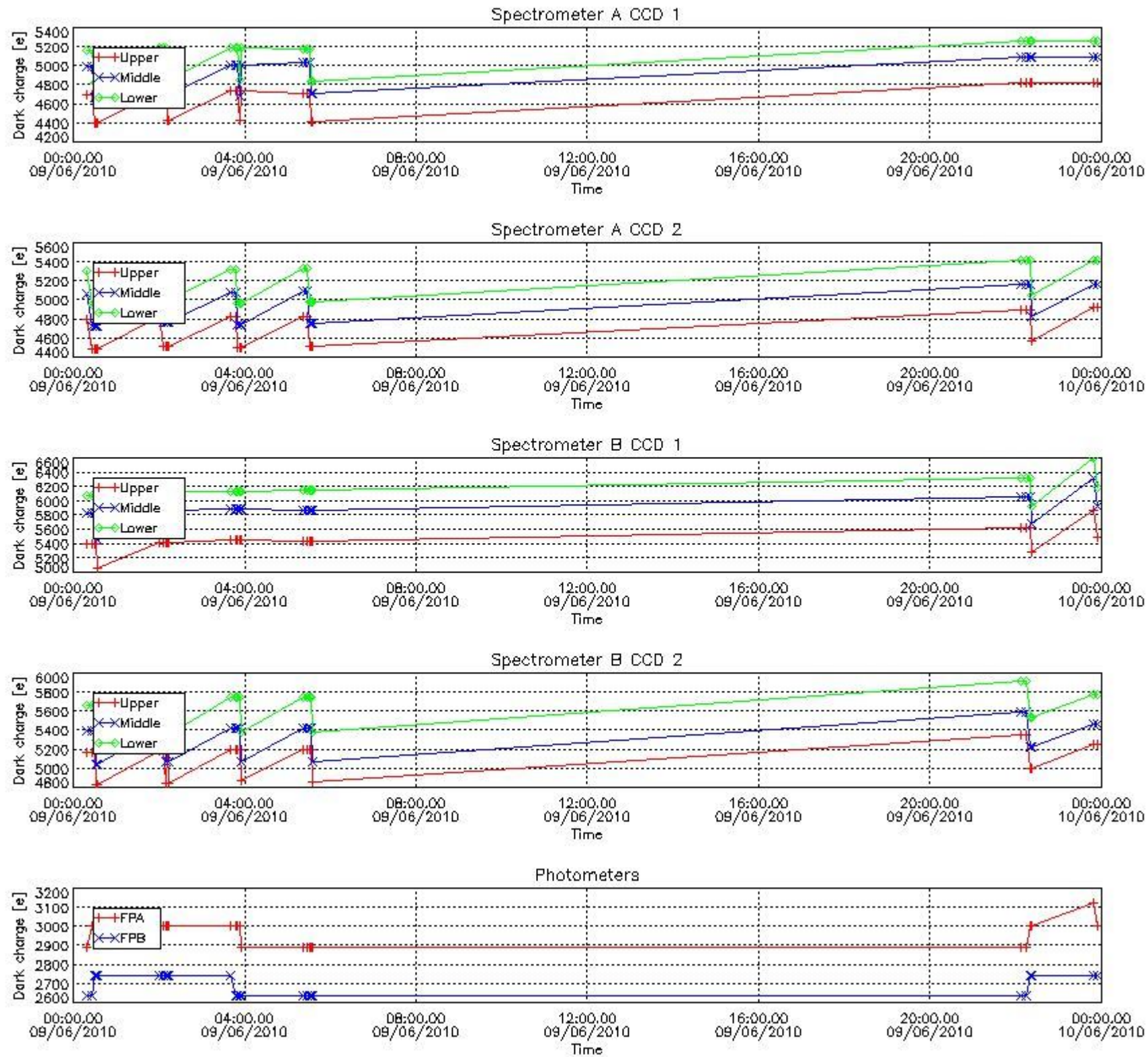
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100609_205404_000000522090_00129_43269_7718.N1	DC map used
GOM_TRA_1PNPDE20100609_205549_000000452090_00129_43269_7719.N1	DC map used
GOM_TRA_1PNPDE20100609_205710_000000482090_00129_43269_7720.N1	DC map used
GOM_TRA_1PNPDE20100609_210242_000000432090_00129_43269_7721.N1	DC map used
GOM_TRA_1PNPDE20100609_210428_000000392090_00129_43269_7722.N1	DC map used
GOM_TRA_1PNPDE20100609_210635_000000382090_00129_43269_7723.N1	DC map used
GOM_TRA_1PNPDE20100609_210953_000000482090_00129_43269_7724.N1	DC map used
GOM_TRA_1PNPDE20100609_211407_000000392090_00129_43269_7725.N1	DC map used
GOM_TRA_1PNPDE20100609_211718_000000402090_00129_43269_7726.N1	DC map used
GOM_TRA_1PNPDE20100609_212425_000000442090_00129_43269_7727.N1	DC map used
GOM_TRA_1PNPDE20100609_213510_000000492090_00129_43269_7728.N1	DC map used
GOM_TRA_1PNPDE20100609_214112_000000412090_00129_43269_7729.N1	DC map used
GOM_TRA_1PNPDE20100609_214704_000000392090_00129_43269_7730.N1	DC map used
GOM_TRA_1PNPDE20100609_214923_000000592090_00129_43269_7731.N1	DC map used

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



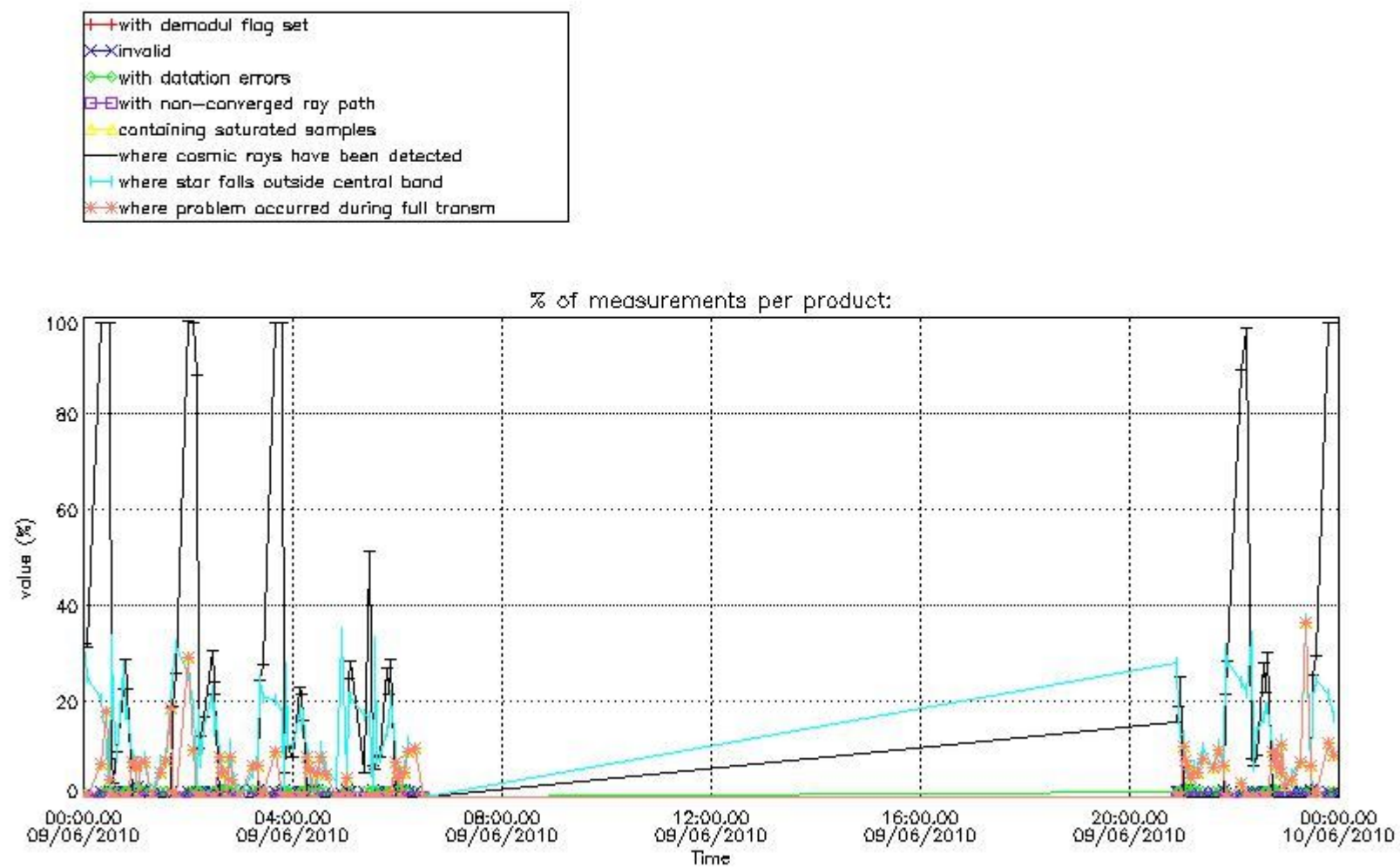
5. Demodulation flag and quality information monitoring

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.

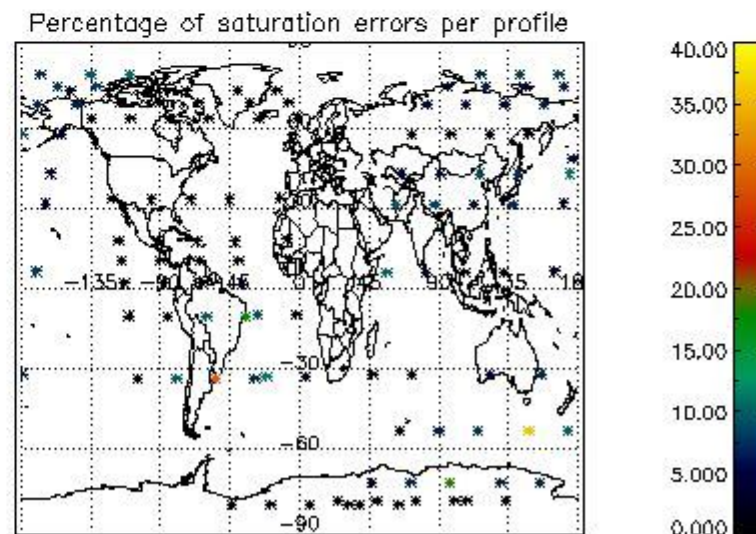
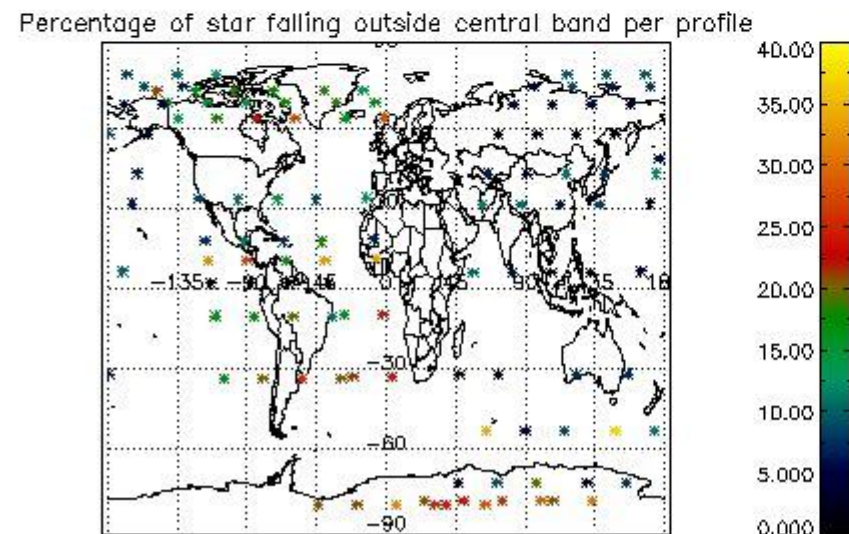
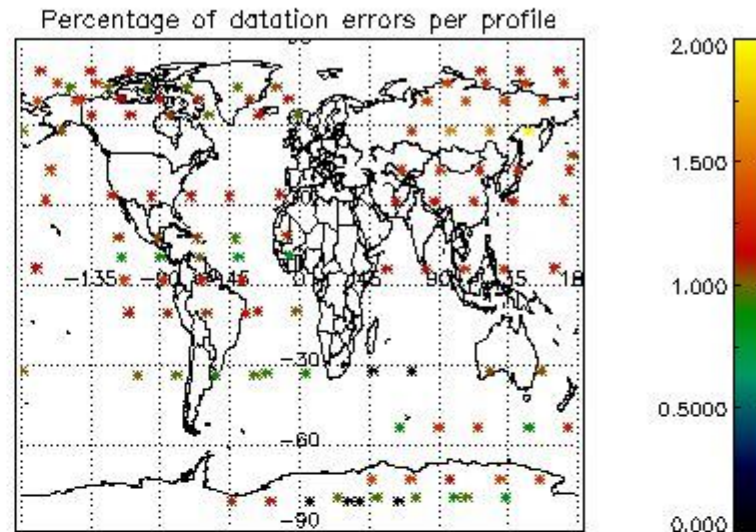
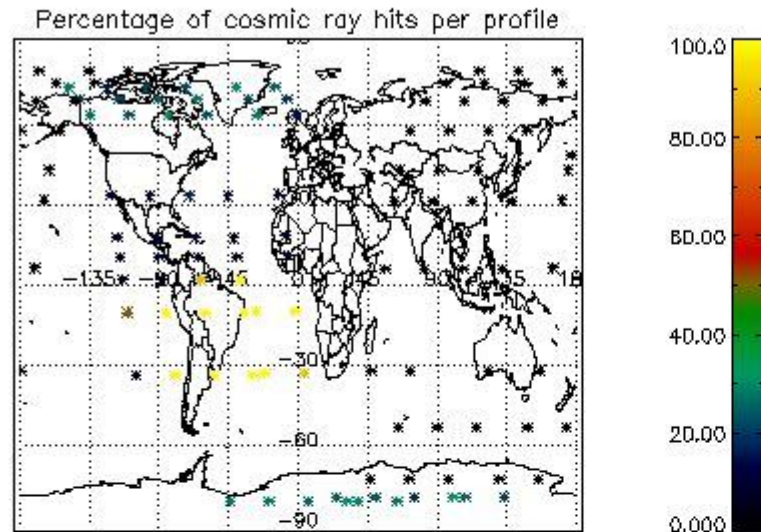
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	42.8571 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



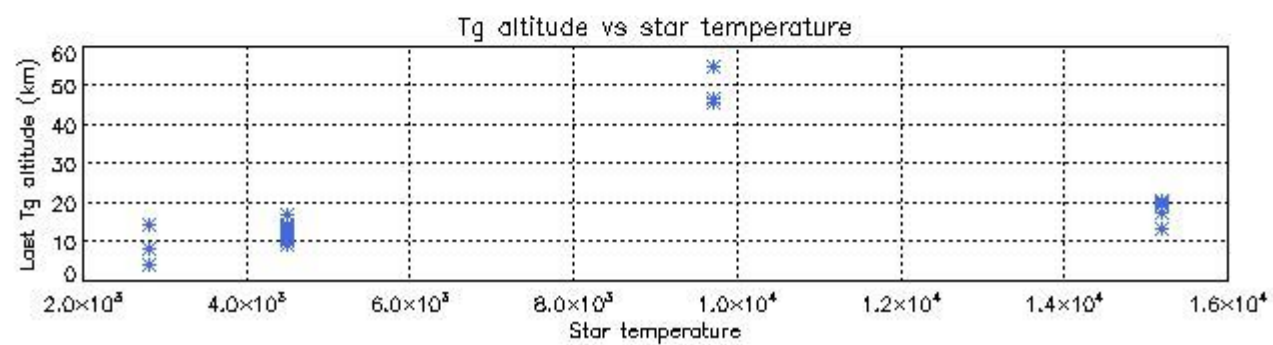
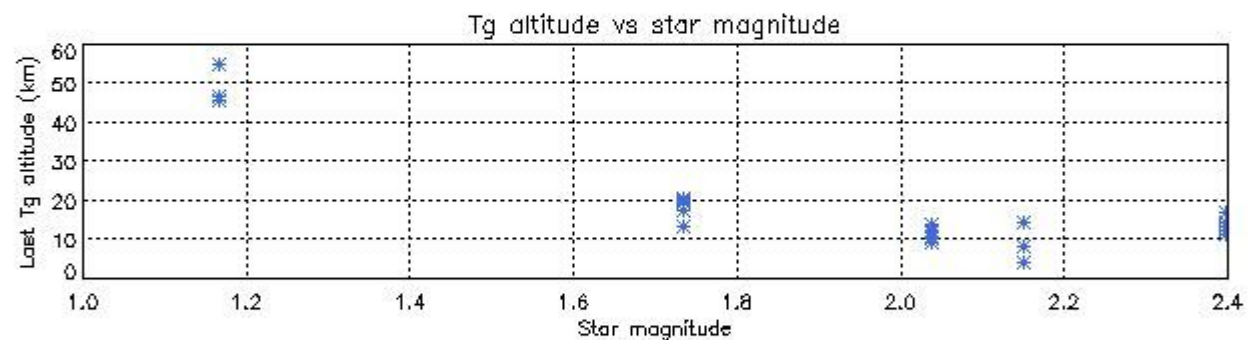
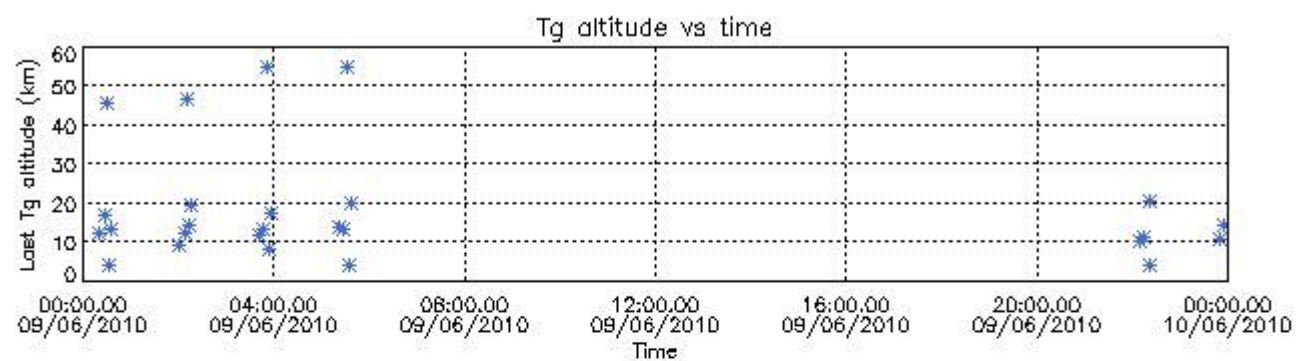
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.348	18.916	8.8133
St. deviation:	14.752	5.7705	1.7926
Maximum:	55.069	42.637	10.600
Minimum:	3.9815	3.7080	5.8613
Number of data:	26.000	59.000	6.0000

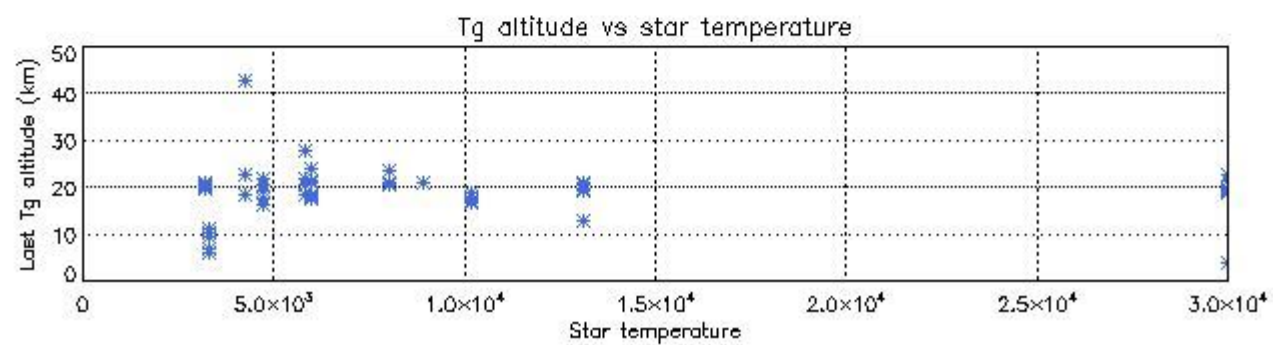
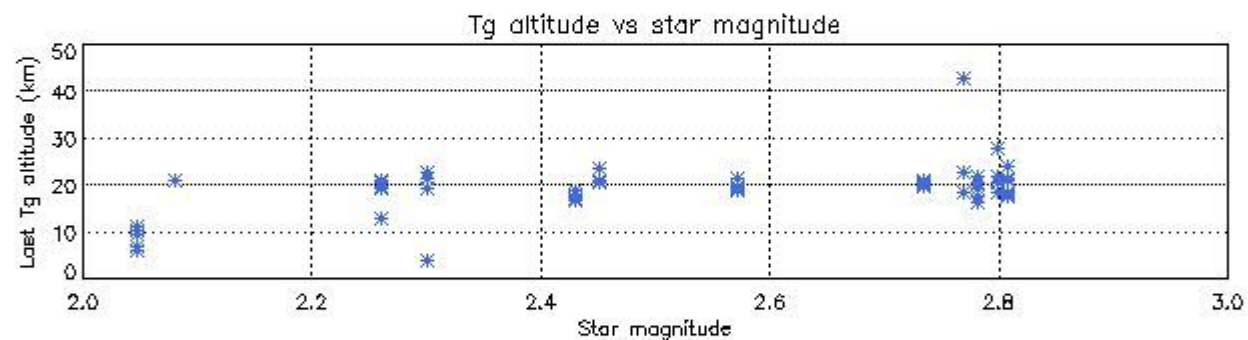
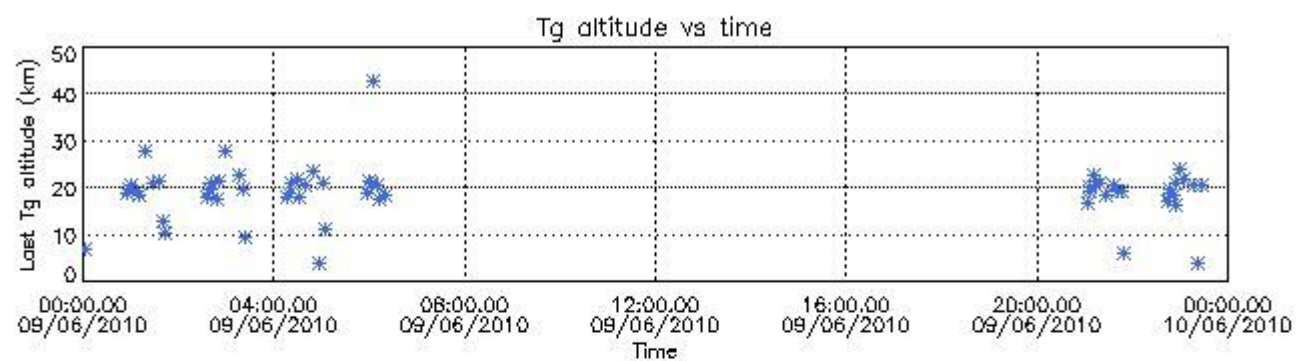
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



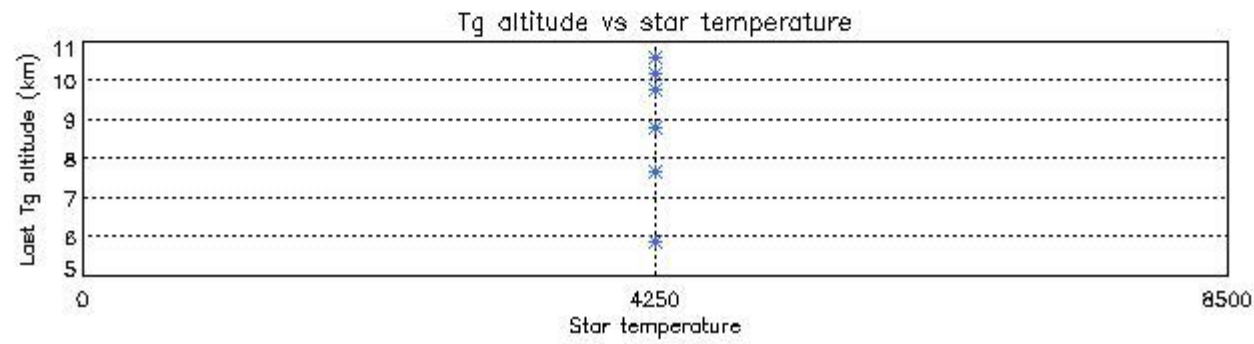
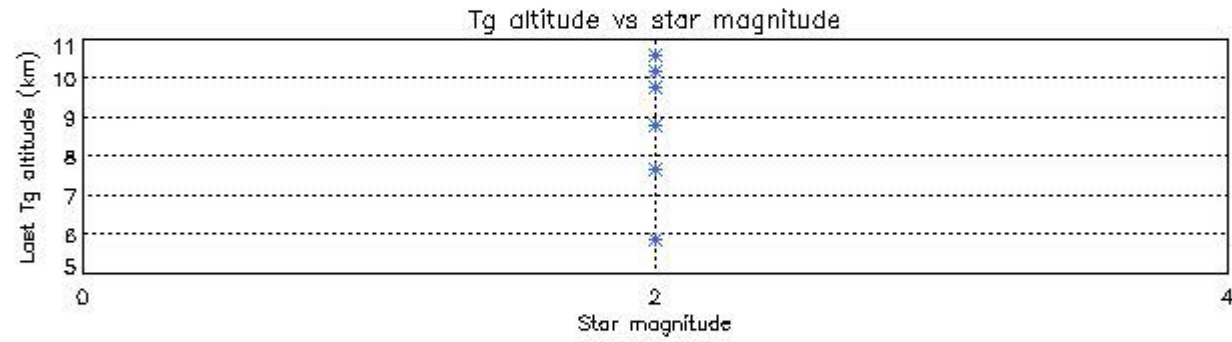
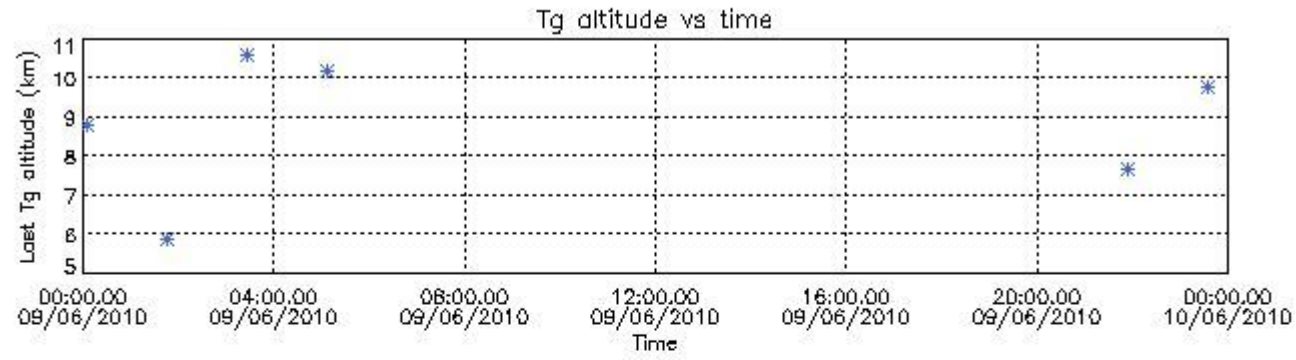
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

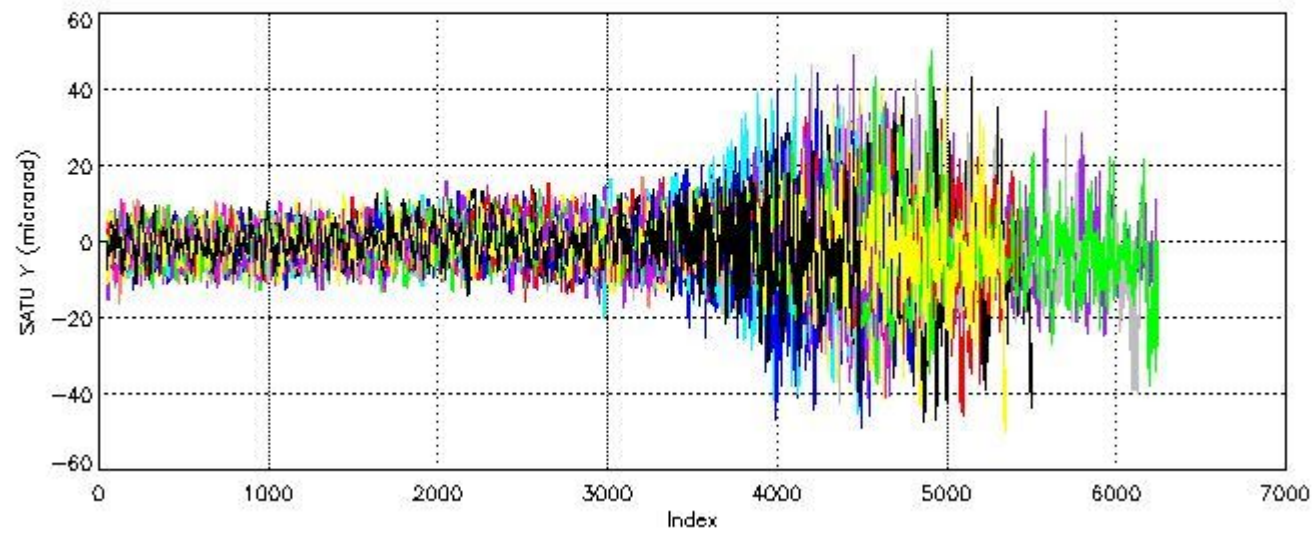
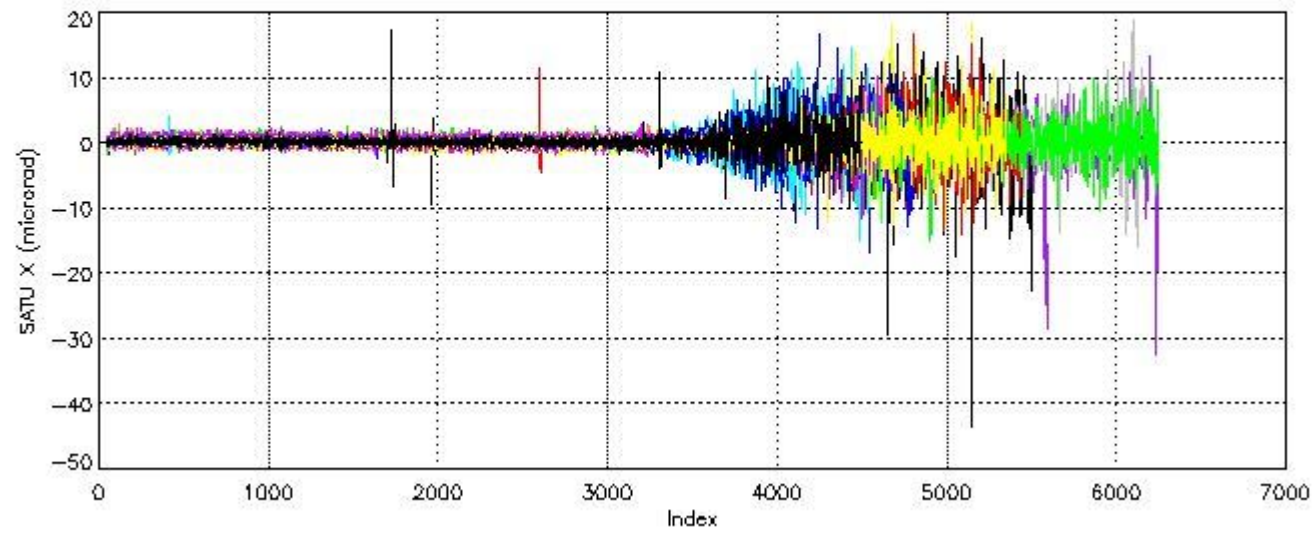


7. Star Acquisition and Tracking Unit (SATU)

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:	0.23063	-0.79223	0.19637	-0.67627
St. deviation:	0.39328	3.6547	0.73083	3.4331
Maximum:	4.1000	10.800	4.0000	14.200
Minimum:	-1.9000	-16.200	-3.8000	-16.600

Number of data:	28550.	28550.	57300.	57300.
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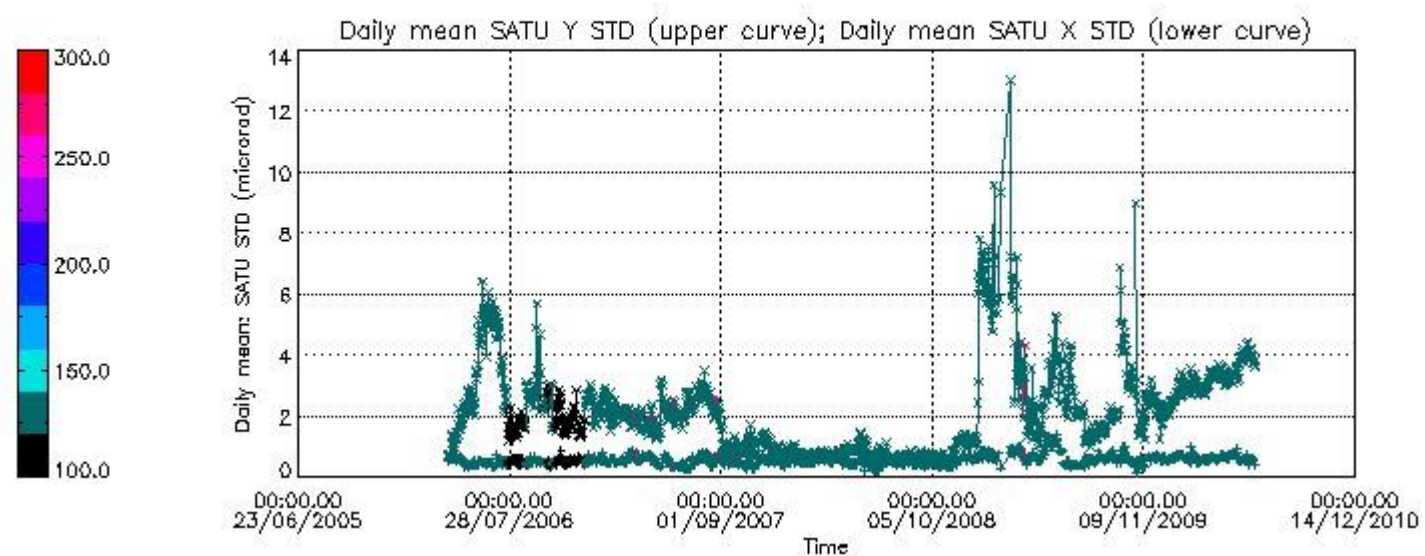
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

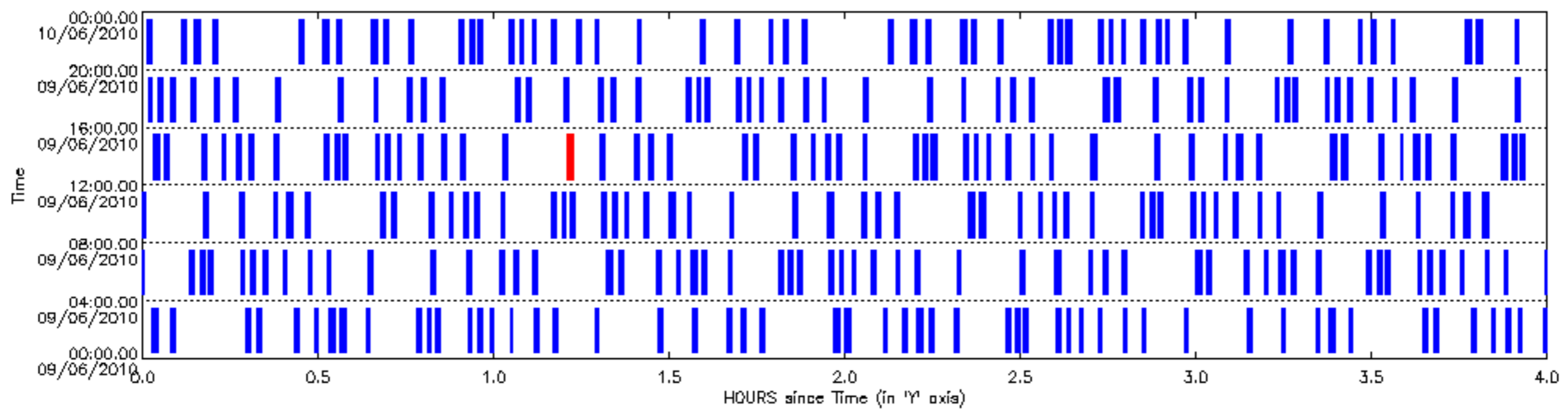
Lower curve: STD of SATU X axis

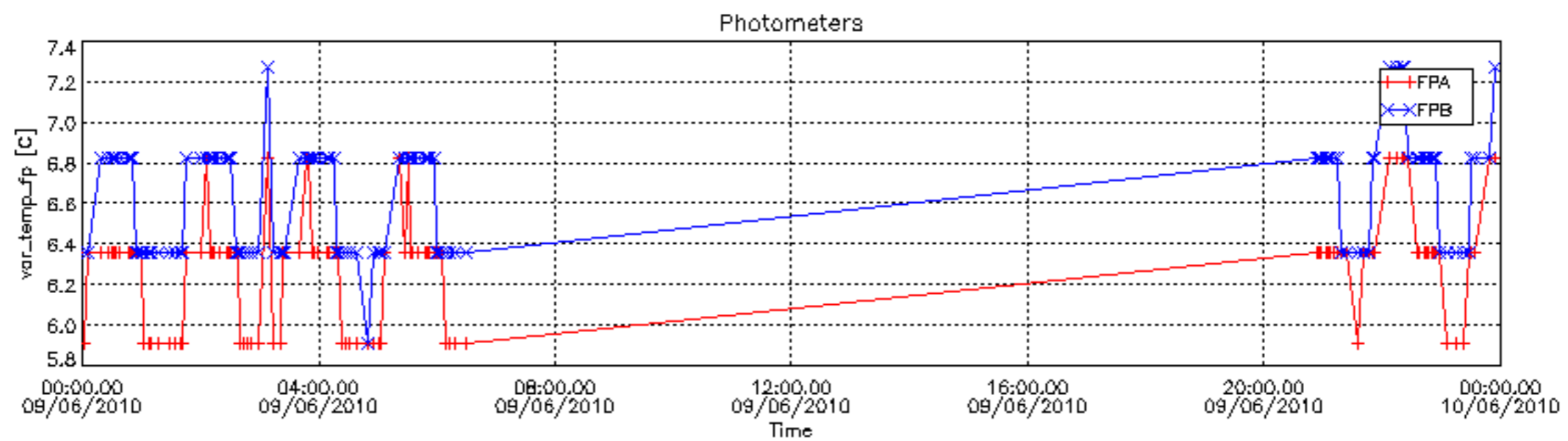
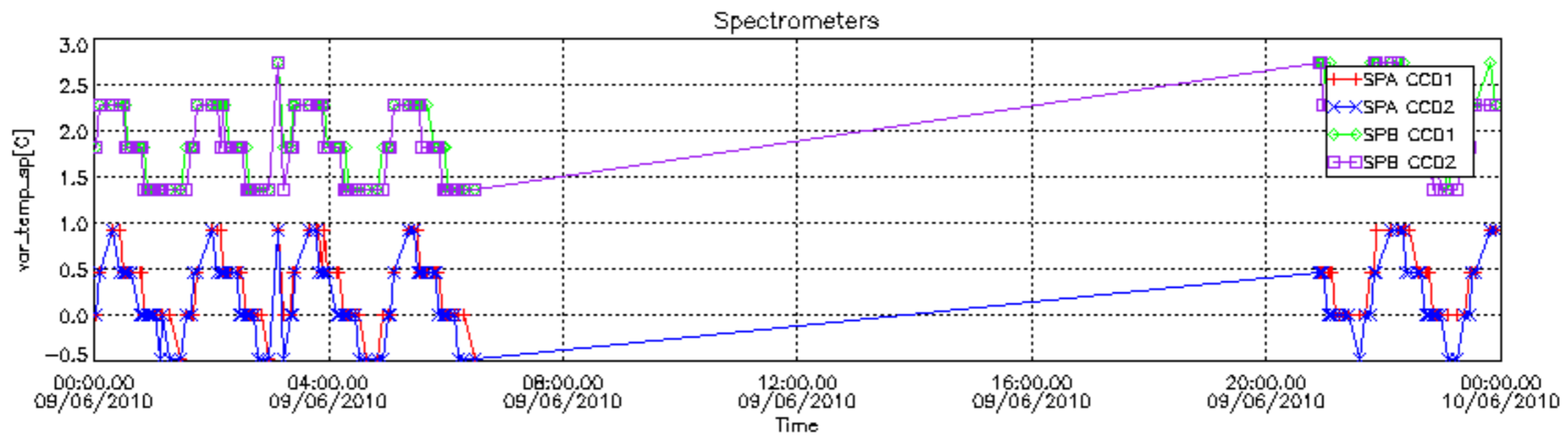


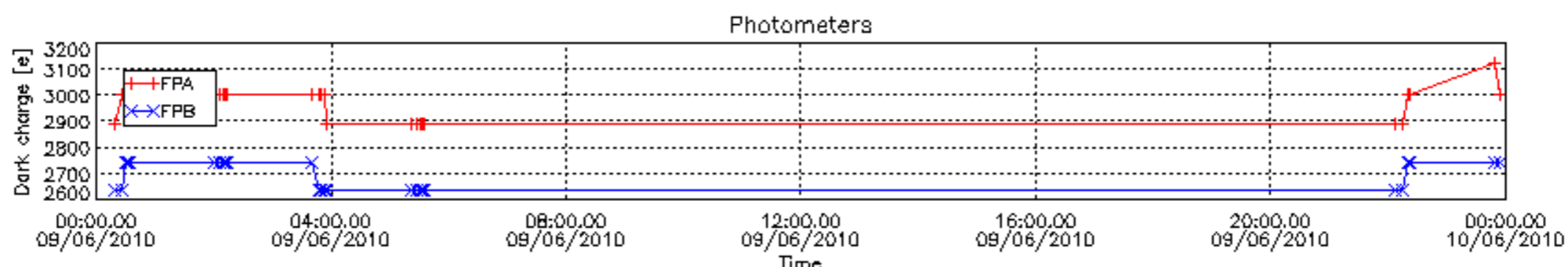
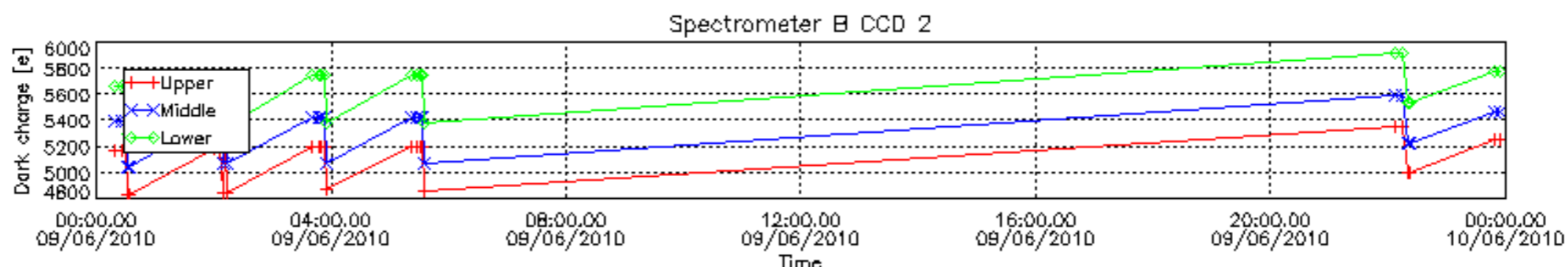
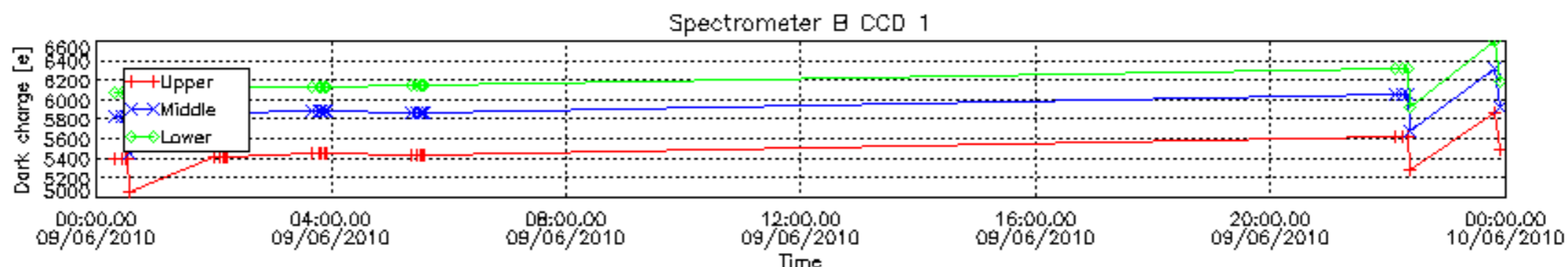
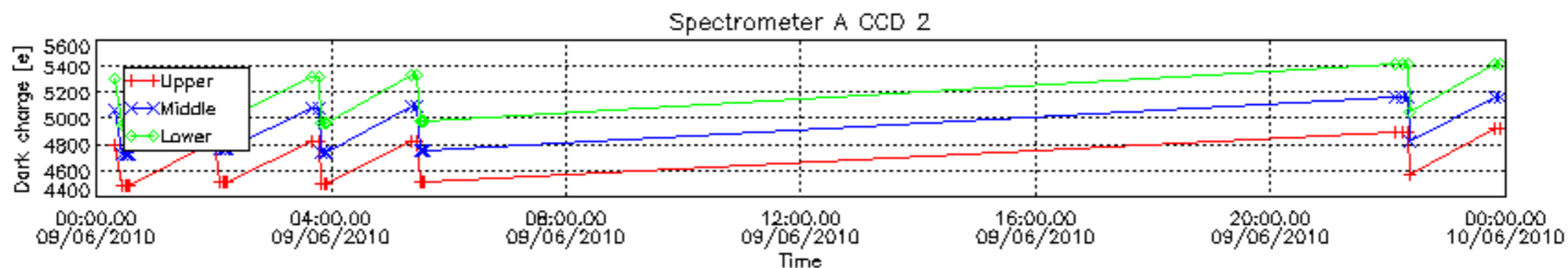
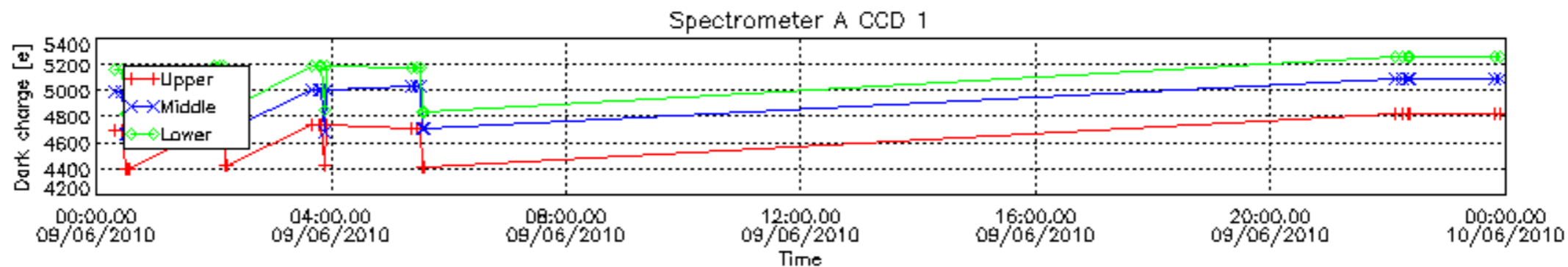
8. Auxiliary Data Files used for the production reported in section 2.4

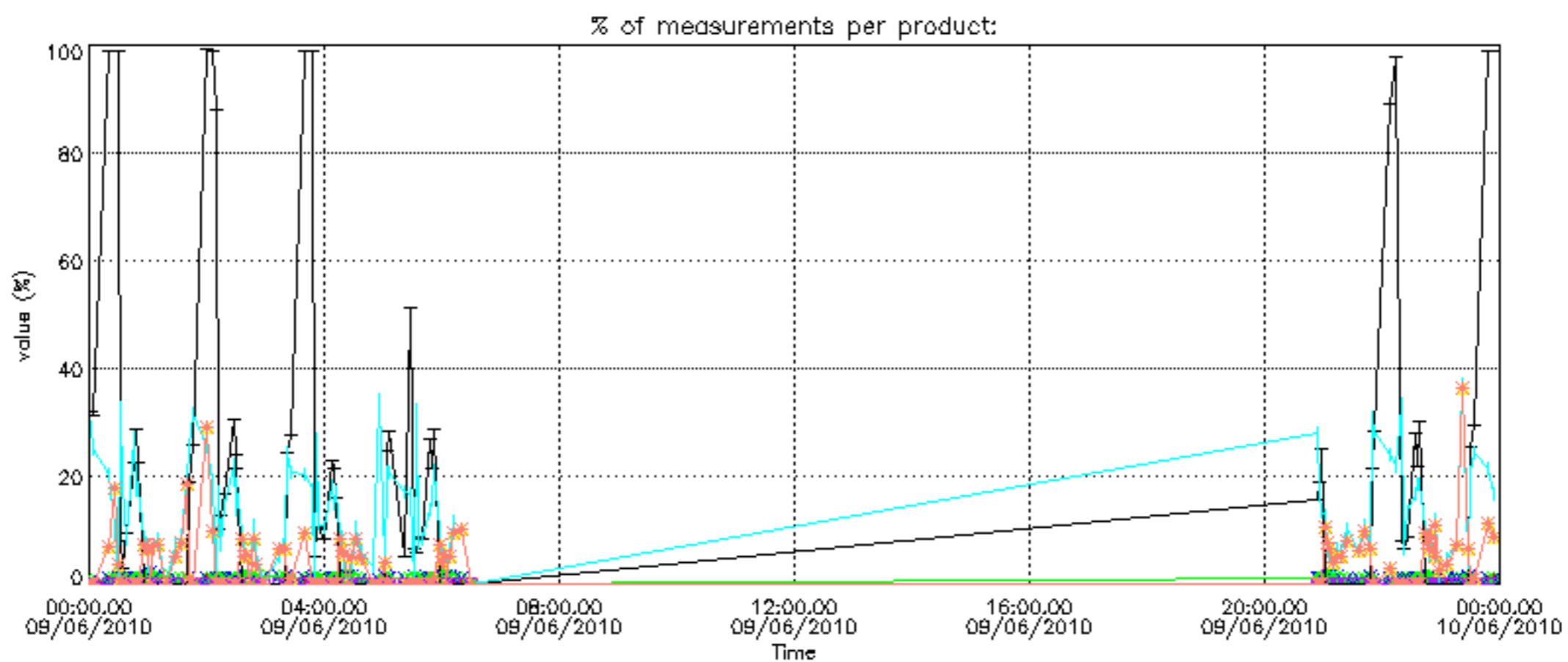
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-JUN-2010 00:01:35
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100604_095219_20100603_000000_20500101_000000	1	09-JUN-2010 00:01:35
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100609_081029_20100607_000000_20500101_000000	83	09-JUN-2010 20:54:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	09-JUN-2010 00:01:35
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-JUN-2010 00:01:35
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	09-JUN-2010 00:01:35
ECMWF_FILE	AUX_ECF_AXNECM20100608_054114_20100608_210000_20100609_090000	1	09-JUN-2010 00:01:35
ECMWF_FILE	AUX_ECF_AXNECM20100608_172114_20100609_030000_20100609_150000	40	09-JUN-2010 03:08:42
ECMWF_FILE	AUX_ECA_AXNECM20100609_052114_20100608_210000_20100609_090000	62	09-JUN-2010 04:55:14
ECMWF_FILE	AUX_ECF_AXNECM20100609_052115_20100609_150000_20100610_030000	83	09-JUN-2010 20:54:04
ECMWF_FILE	AUX_ECF_AXNECM20100609_054113_20100609_210000_20100610_090000	98	09-JUN-2010 22:07:19
OPTIONAL_ECMWF_FILE	MISSING	1	09-JUN-2010 00:01:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100608_223637_000054192090_00115_43255_0513.N1	1	09-JUN-2010 00:01:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100609_001215_000057382090_00116_43256_0514.N1	3	09-JUN-2010 00:19:21
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100608_092112_20100607_195837_20100617_212450	24	09-JUN-2010 01:59:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100609_044832_000057382090_00119_43259_0517.N1	62	09-JUN-2010 04:55:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100609_205013_000041442090_00129_43269_0518.N1	83	09-JUN-2010 20:54:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100609_215917_000057382090_00129_43269_0519.N1	98	09-JUN-2010 22:07:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100609_234014_000057382090_00130_43270_0520.N1	119	09-JUN-2010 23:47:56

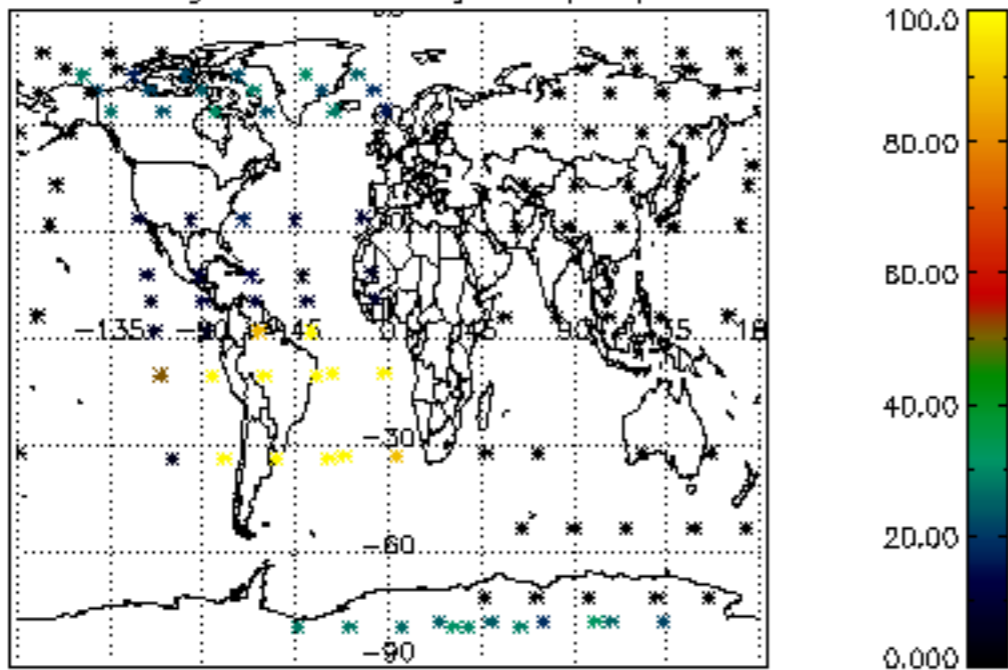




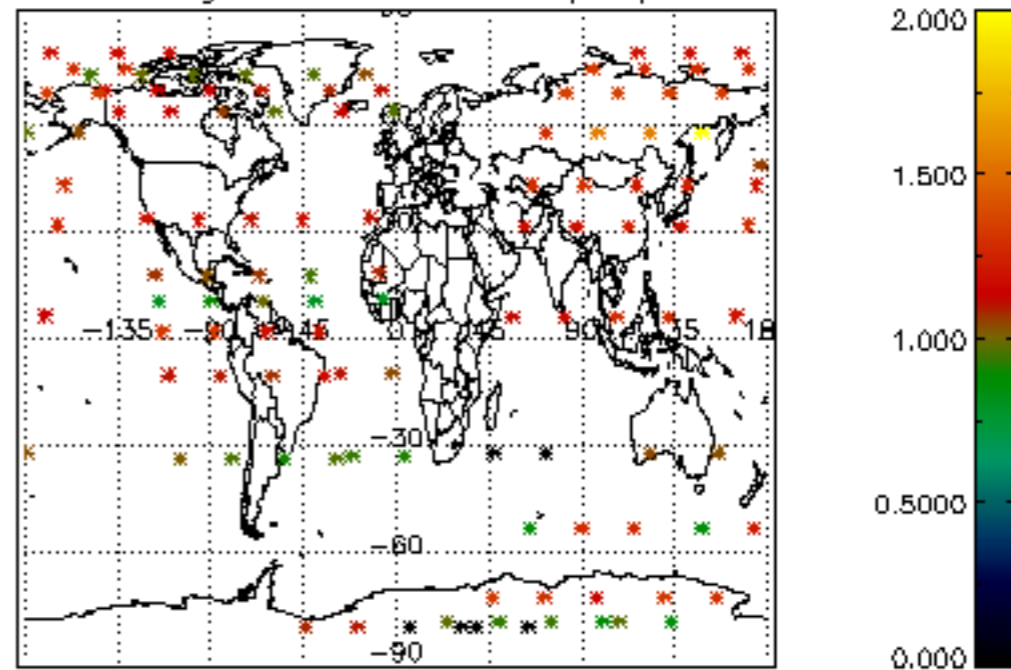




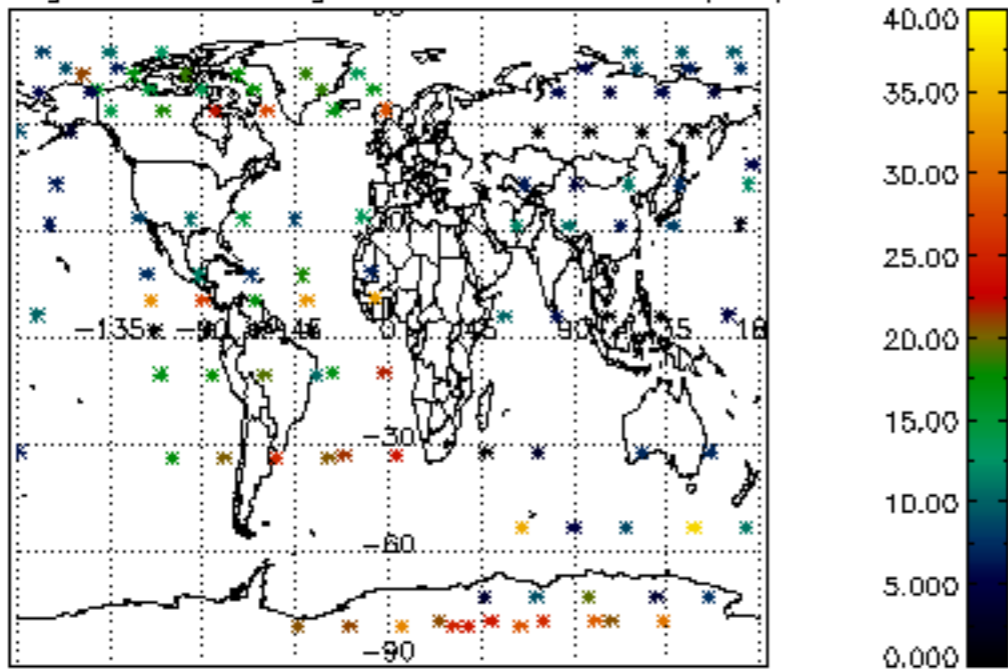
Percentage of cosmic ray hits per profile



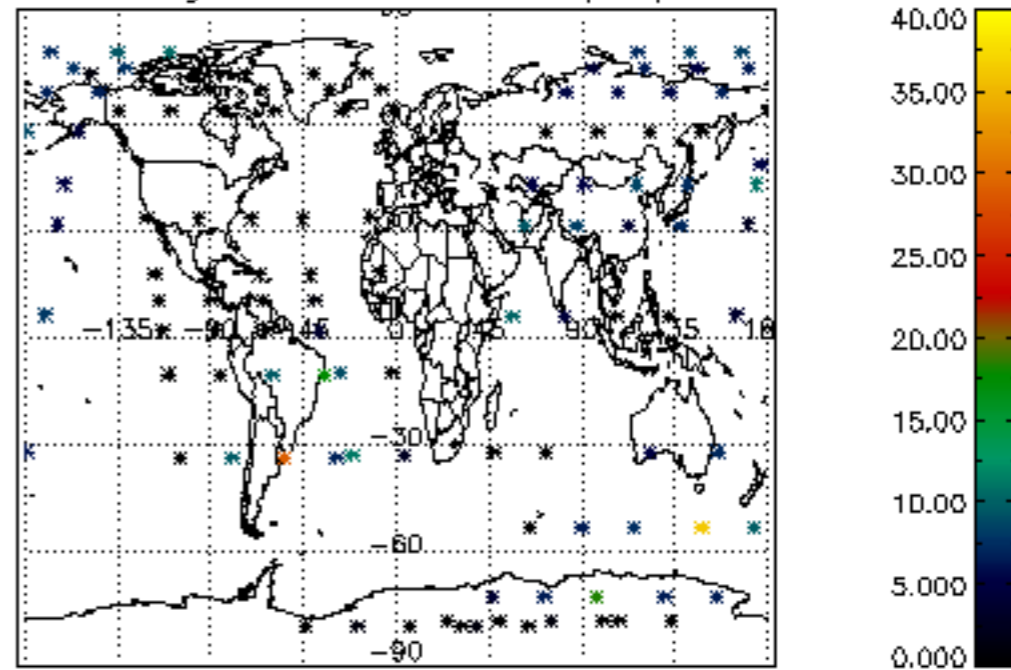
Percentage of datation errors per profile



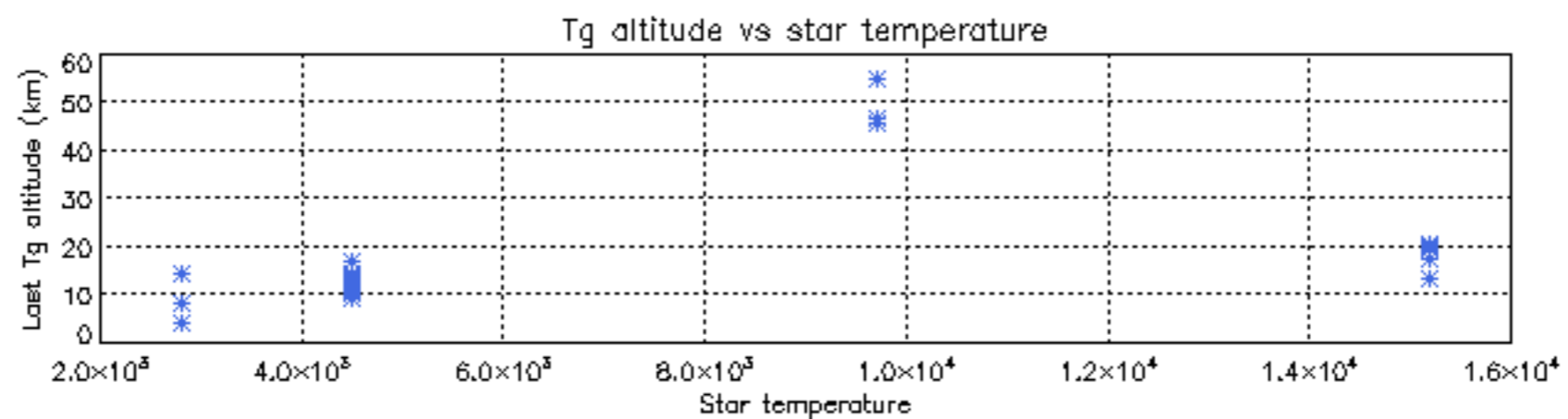
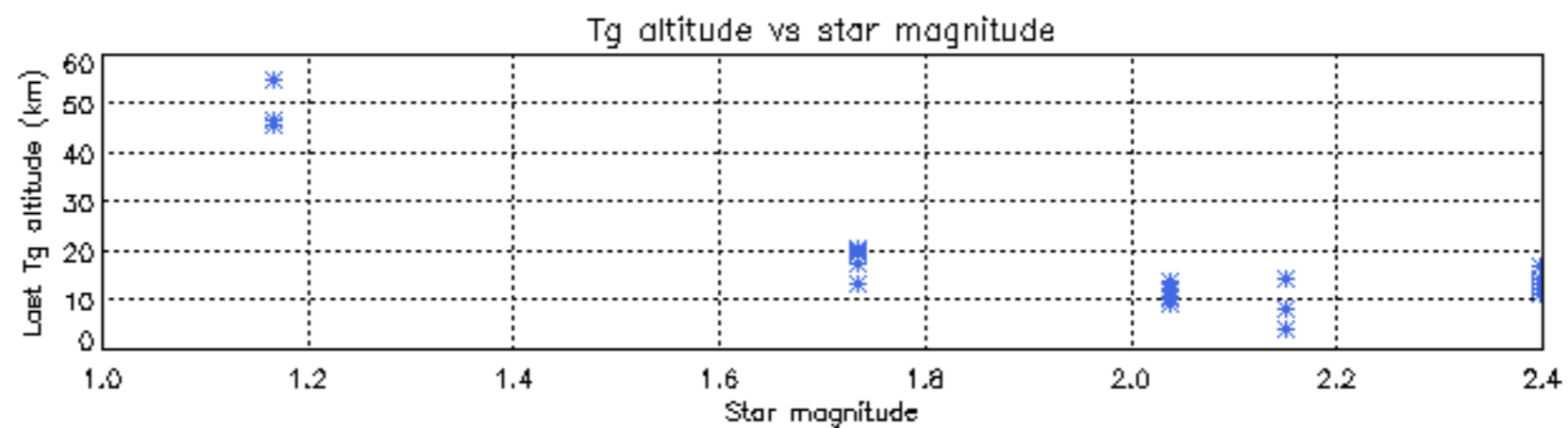
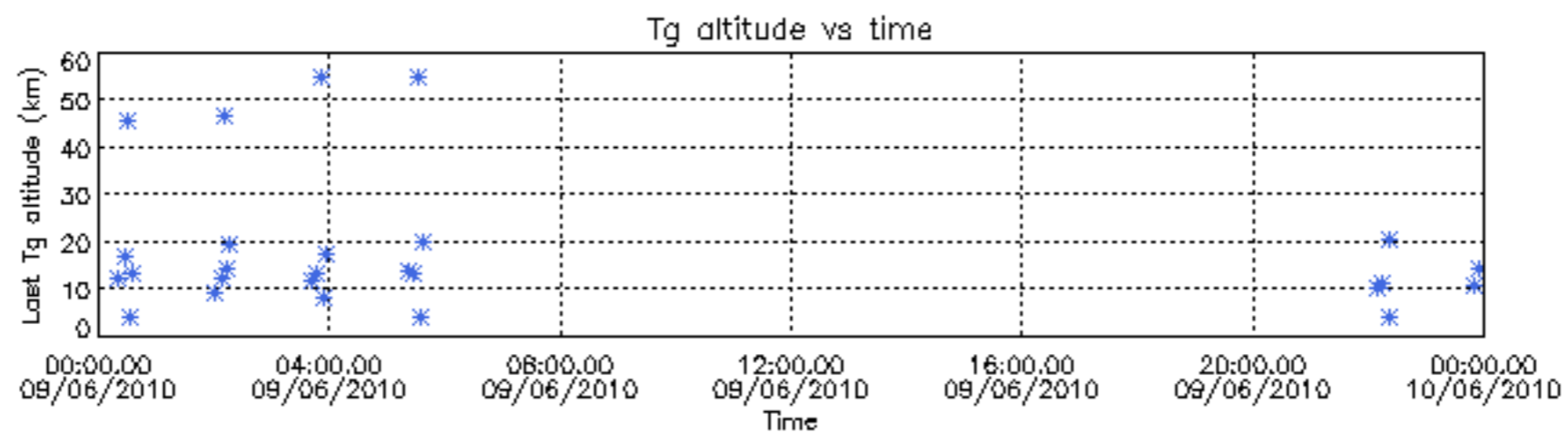
Percentage of star falling outside central band per profile



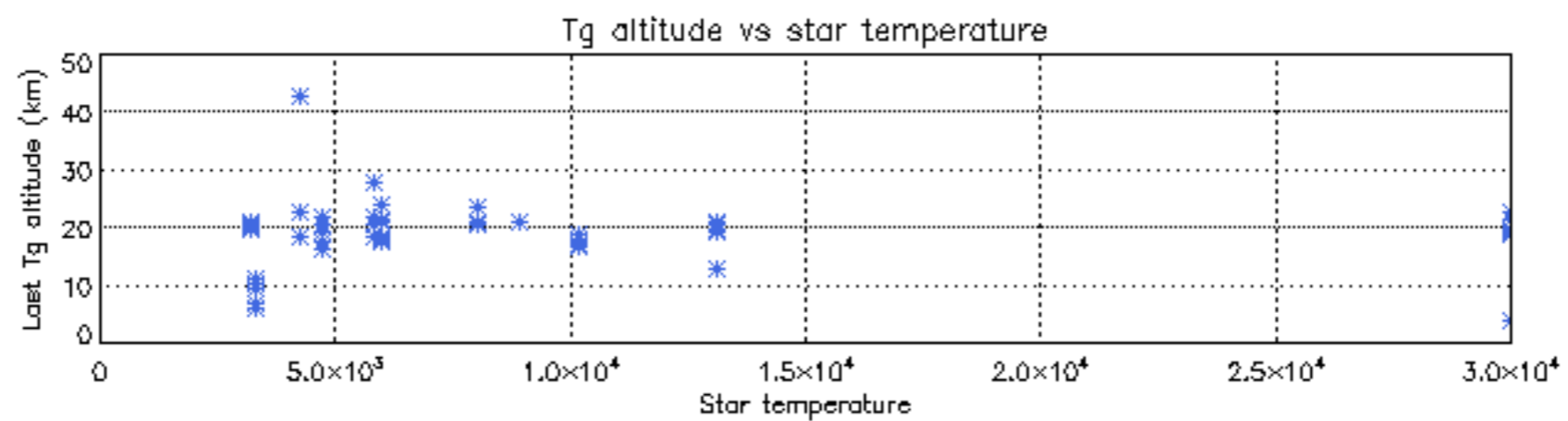
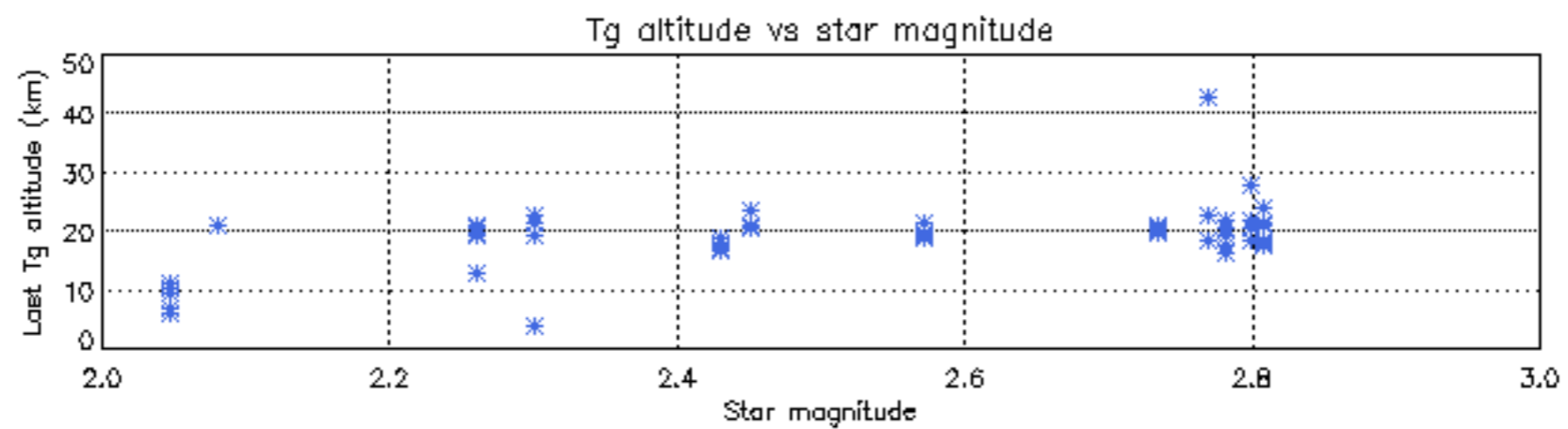
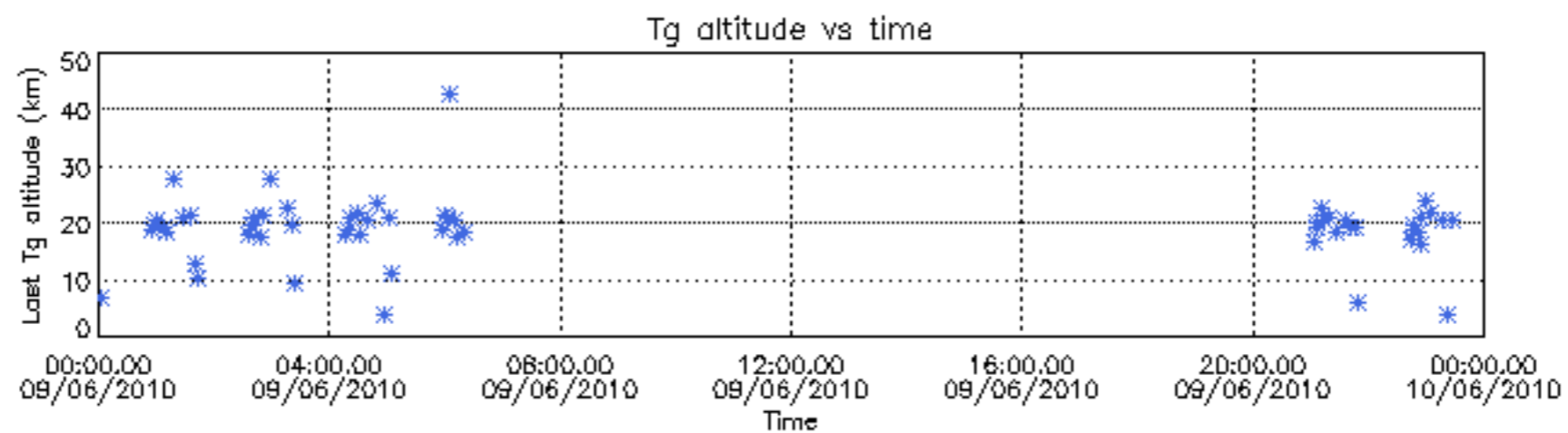
Percentage of saturation errors per profile



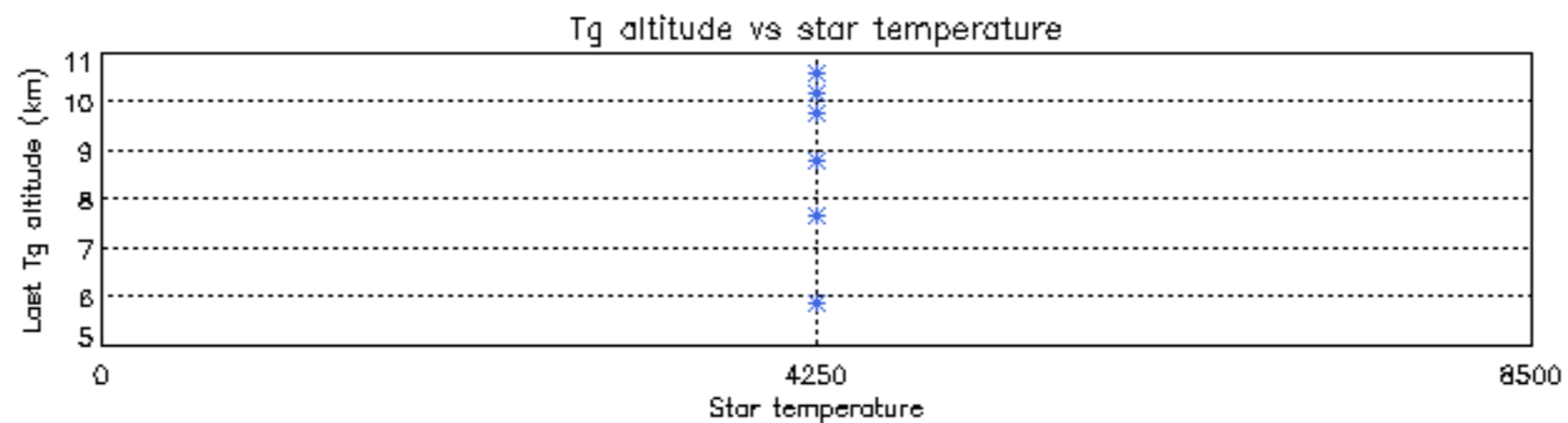
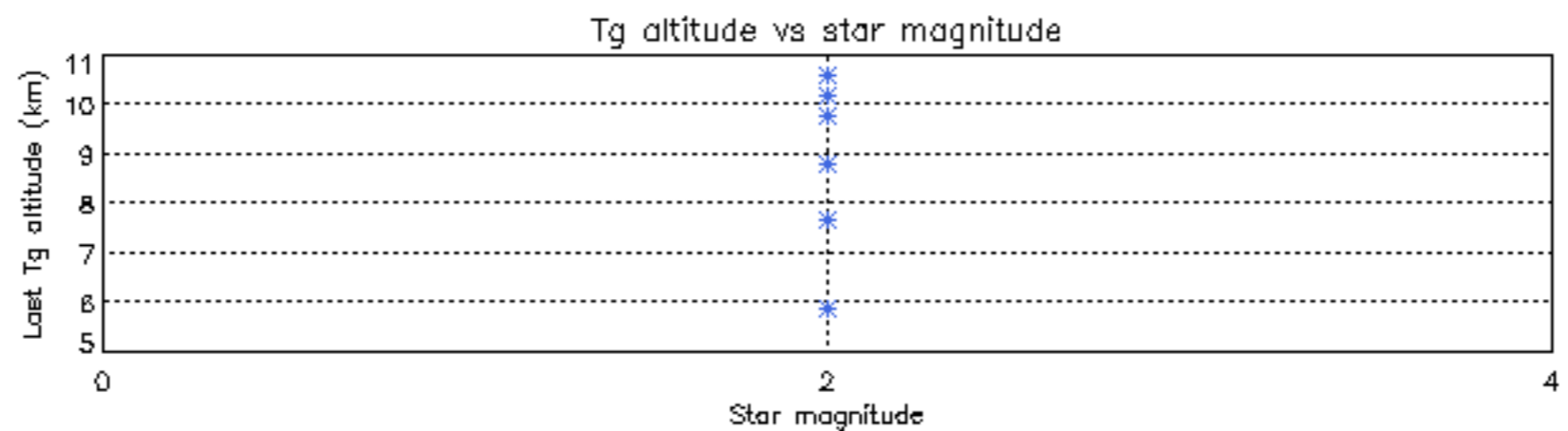
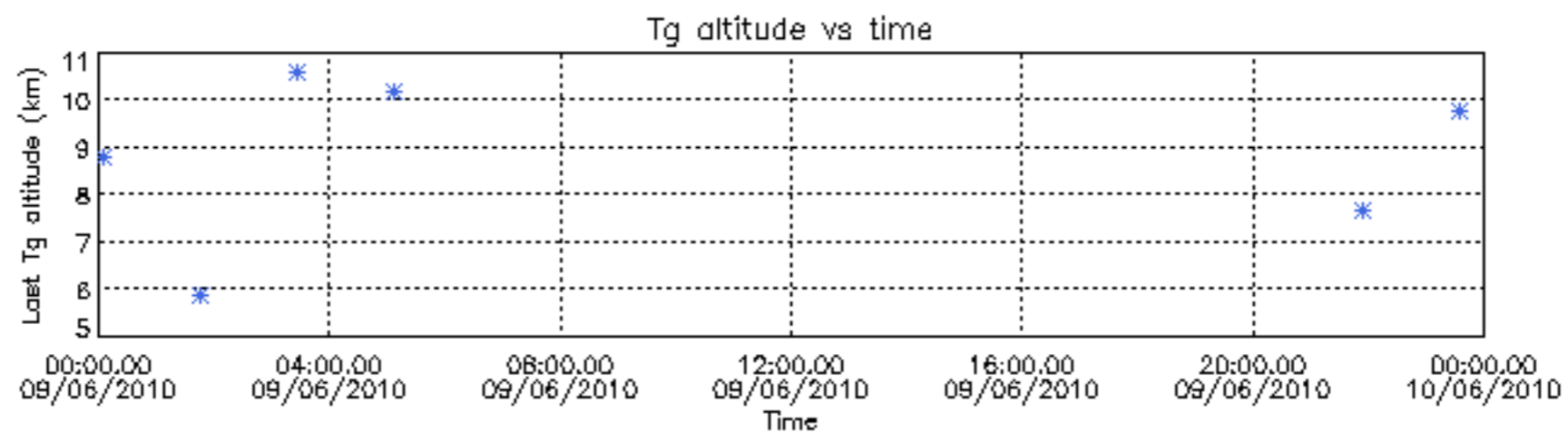
Tangent altitude at which the star is lost

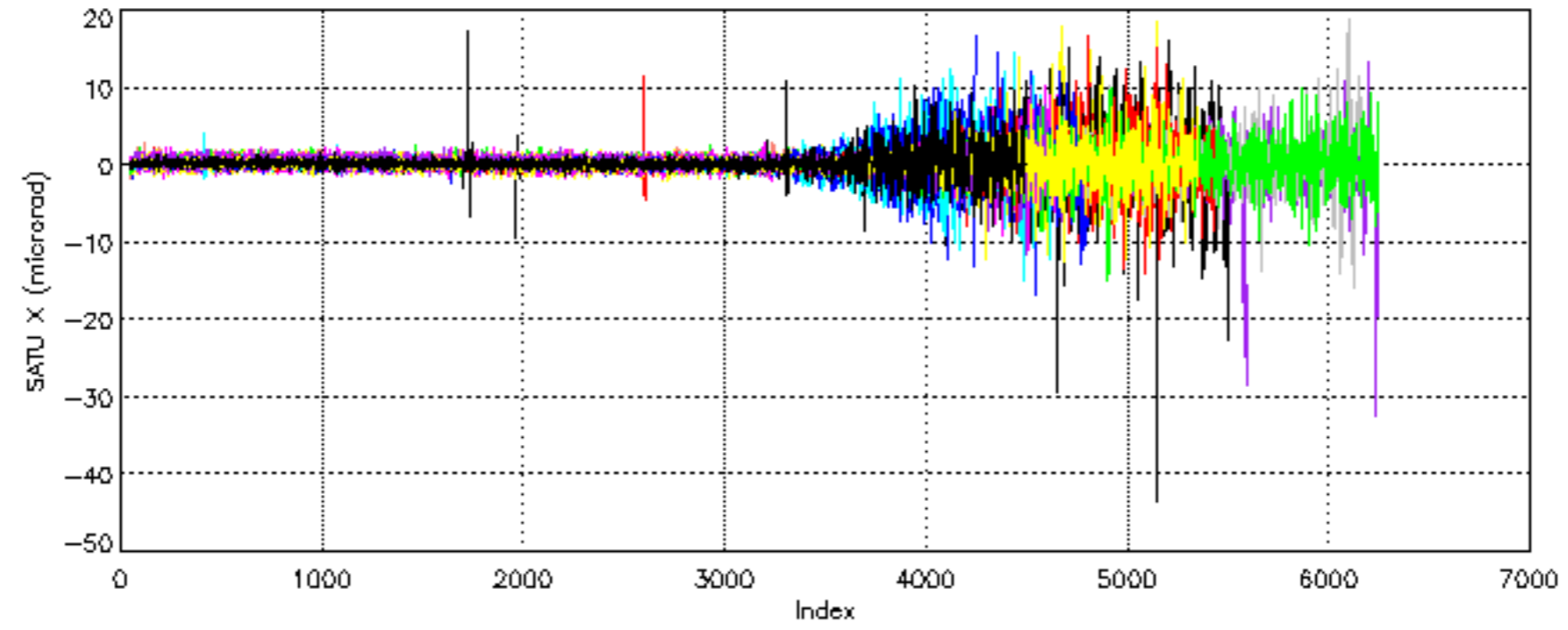


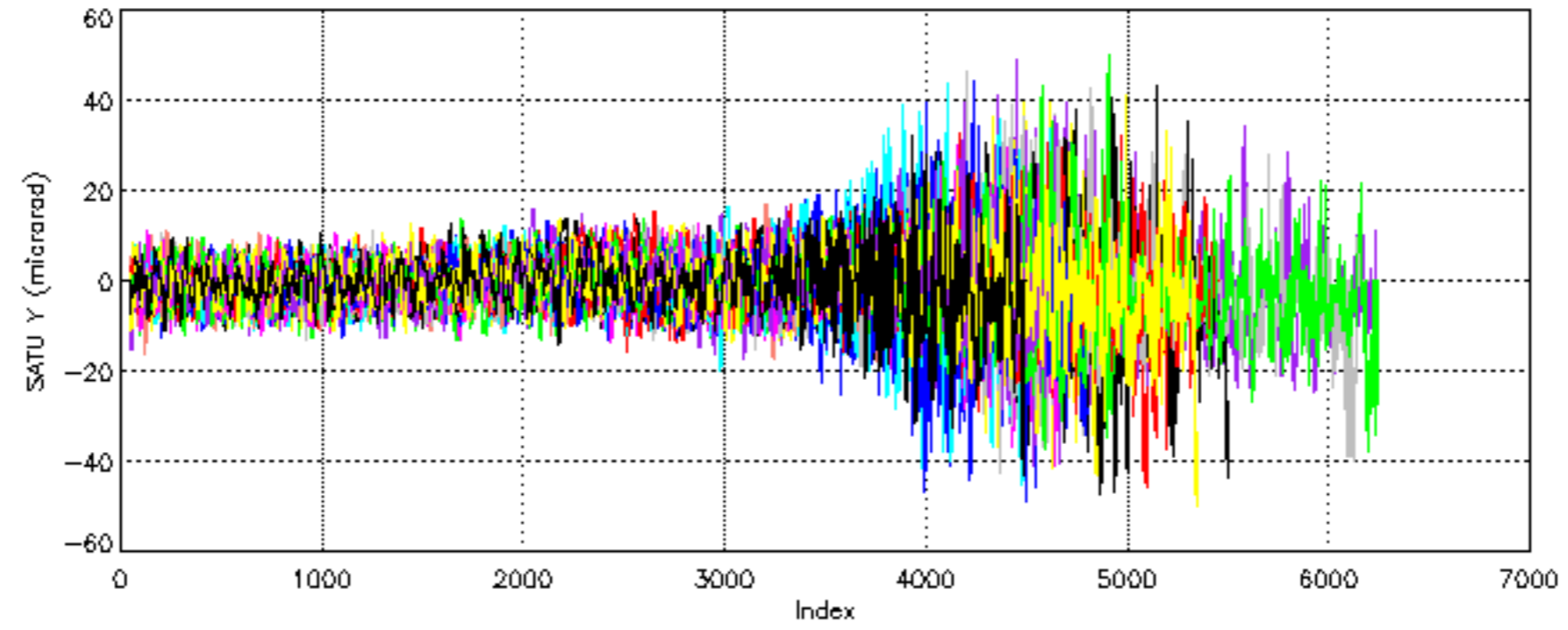
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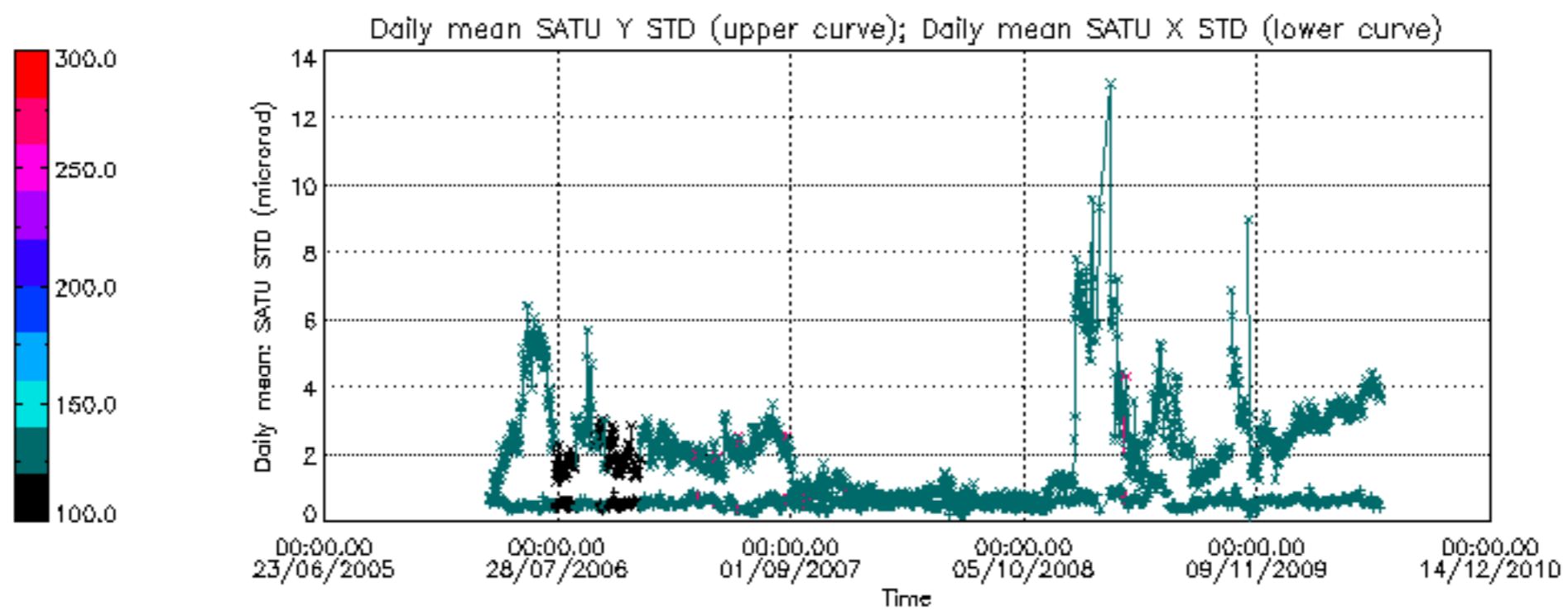


Tangent altitude at which the star is lost









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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100602_222429_000060862090_00029_43169_0174.N1

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13; 1593.1; 02-JUN-2010 23:03:15; Bright; 46.0; 86; 35Eta Oph ; 2.43; 10200;occ; 92; 0;43170
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11; 204.1; 02-JUN-2010 07:34:42; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;43161
12; 498.3; 02-JUN-2010 07:39:36; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43161
13; 941.1; 02-JUN-2010 07:46:59; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;43161
14; 1043.0; 02-JUN-2010 07:48:41; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;43161
15; 1150.3; 02-JUN-2010 07:50:29; Dark ; 49.5; 25; 35Lam Sco ; 1.62; 28000;occ; 99; 0;43161
16; 1255.4; 02-JUN-2010 07:52:14; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;43161
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23; 7291.5; 02-JUN-2010 09:32:50; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;43162
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13; 5402.2; 02-JUN-2010 10:41:56; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;43162
14; 5803.1; 02-JUN-2010 10:48:37; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;43162
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23; 7412.6; 02-JUN-2010 11:15:27; Dark ; 40.5; 136; 23Tau Sco ; 2.82; 30000;occ; 81; 0;43163
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22; 7187.5; 02-JUN-2010 12:52:17; Dark ; 49.0; 25; 35Lam Sco ; 1.62; 28000;occ; 98; 0;43164
23; 7291.7; 02-JUN-2010 12:54:02; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;43164

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3; 1703.2; 02-JUN-2010 14:42:05; Bright; 42.0; 98; 13Zet Oph ; 2.57; 30000;occ; 84; 0;43165
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3;-1774.2; 06-JUN-2010 03:14:40; Bright; 34.5; 73; 57Gam1And ; 2.26; 13100;occ; 69; 0;43215
4;-1635.8; 06-JUN-2010 03:16:58; Dark ; 59.0; 53; 43Bet And ; 2.05; 3300;occ; 118; 0;43215
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6;-1389.6; 06-JUN-2010 03:21:05; Dark ; 44.0; 105; 6Bet Ari ; 2.64; 8900;occ; 88; 0;43215
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9; -597.4; 06-JUN-2010 03:34:17; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;43215
10; -200.9; 06-JUN-2010 03:40:53; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;43215
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13; 256.6; 06-JUN-2010 03:48:31; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;43216
14; 535.7; 06-JUN-2010 03:53:10; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43216
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16; 1171.8; 06-JUN-2010 04:03:46; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;43216
17; 1270.5; 06-JUN-2010 04:05:25; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;43216
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21; 2497.5; 06-JUN-2010 06:06:28; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;43217
22; 2933.9; 06-JUN-2010 06:13:44; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;43217
23; 3584.8; 06-JUN-2010 06:24:35; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43217

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5; -1389.2; 06-JUN-2010 06:42:17; Dark ; 43.0; 105; 6Bet Ari ; 2.64; 8900;occ; 86; 0;43217
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7; -684.9; 06-JUN-2010 06:54:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43217
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9; -199.5; 06-JUN-2010 07:02:07; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;43217
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11; 140.6; 06-JUN-2010 07:07:47; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;43218
12; 258.4; 06-JUN-2010 07:09:45; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;43218
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14; 1066.6; 06-JUN-2010 07:23:13; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;43218
15; 1172.7; 06-JUN-2010 07:24:59; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;43218
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4; 2496.8; 06-JUN-2010 07:47:03; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;43218
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6; 3584.4; 06-JUN-2010 08:05:11; Bright; 48.0; 89; 5Alp Cep ; 2.45; 8000;occ; 96; 0;43218
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9; 4400.7; 06-JUN-2010 08:18:47; Dark ; 46.5; 53; 43Bet And ; 2.05; 3300;occ; 93; 0;43218
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12; 5352.1; 06-JUN-2010 08:34:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43218
13; 5440.6; 06-JUN-2010 08:36:07; Dark ; 52.5; 52; 16Bet Cet ; 2.04; 4500;occ; 105; 0;43218
14; 5836.5; 06-JUN-2010 08:42:43; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;43218
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16; 6177.8; 06-JUN-2010 08:48:24; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;43219
17; 6295.7; 06-JUN-2010 08:50:22; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;43219
18; 6573.9; 06-JUN-2010 08:55:00; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43219
19; 7102.9; 06-JUN-2010 09:03:49; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;43219
20; 7209.0; 06-JUN-2010 09:05:35; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;43219
21; 7307.2; 06-JUN-2010 09:07:13; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;43219
22; 7425.4; 06-JUN-2010 09:09:12; Dark ; 44.0; 136; 23Tau Sco ; 2.82; 30000;occ; 88; 0;43219
23; 7633.9; 06-JUN-2010 09:12:40; Bright; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;43219
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 7; 4261.9; 06-JUN-2010 09:57:04; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;43219
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 10; 4893.9; 06-JUN-2010 10:07:36; Dark ; 26.0; 140; 88Gam Peg ; 2.83; 26000;occ; 52; 0;43219
 11; 5353.1; 06-JUN-2010 10:15:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43219
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 17; 6574.2; 06-JUN-2010 10:35:36; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43220
 18; 7103.3; 06-JUN-2010 10:44:25; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;43220
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 11; 5354.2; 06-JUN-2010 11:55:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43220
 12; 5442.3; 06-JUN-2010 11:57:20; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;43220
 13; 5838.1; 06-JUN-2010 12:03:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;43220
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 16; 6297.2; 06-JUN-2010 12:11:35; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43221
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 6; 2275.9; 16-JUN-2010 19:13:11; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;43368
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 22; 7489.9; 22-JUN-2010 09:07:23; Bright; 52.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 104; 0;43448
 23; 7661.1; 22-JUN-2010 09:10:14; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;43448

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 20; 7358.9; 22-JUN-2010 10:45:48; Dark ; 50.5; 116; 19Del Sgr ; 2.70; 4100;occ; 101; 0;43449
 21; 7490.0; 22-JUN-2010 10:47:59; Bright; 52.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 104; 0;43449
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19; 7273.4; 22-JUN-2010 12:24:59; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;43450
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 5; 1990.1; 22-JUN-2010 21:00:31; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;43455
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11; 509.0; 24-JUN-2010 04:27:12; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;43474
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 13; 1245.7; 24-JUN-2010 06:20:05; Dark ; 47.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 94; 0;43475
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 15; 1460.1; 24-JUN-2010 06:23:39; Bright; 50.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 100; 0;43475
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 8; 1332.8; 24-JUN-2010 21:26:55; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;43484
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 13; 2827.1; 24-JUN-2010 21:51:50; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43484
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3; 10.9; 25-JUN-2010 02:06:41; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;43487
4; 400.3; 25-JUN-2010 02:13:10; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;43487
5; 521.4; 25-JUN-2010 02:15:12; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;43487
6; 700.1; 25-JUN-2010 02:18:10; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43487
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9; 1462.7; 25-JUN-2010 02:30:53; Bright; 48.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 96; 0;43487
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13; 2826.6; 25-JUN-2010 02:53:37; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;43487
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9; 12.0; 25-JUN-2010 03:47:18; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;43488
10; 401.2; 25-JUN-2010 03:53:47; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;43488
11; 522.3; 25-JUN-2010 03:55:48; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;43488
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13; 1249.4; 25-JUN-2010 04:07:55; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;43488
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15; 1462.9; 25-JUN-2010 04:11:29; Bright; 50.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 101; 0;43488
16; 1986.8; 25-JUN-2010 04:20:13; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43488
17; 2130.0; 25-JUN-2010 04:22:36; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;43488
18; 2700.3; 25-JUN-2010 04:32:06; Bright; 49.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 98; 0;43488
19; 2826.3; 25-JUN-2010 04:34:12; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;43488
20; 3403.2; 25-JUN-2010 04:43:49; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43488

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 3; -1971.3; 25-JUN-2010 04:54:51; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43488
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 6; -1382.9; 25-JUN-2010 05:04:39; Dark ; 54.5; 50; 13Alp Ari ; 2.01; 4250;occ; 109; 0;43488
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 9; 12.9; 25-JUN-2010 05:27:55; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;43489
 10; 402.1; 25-JUN-2010 05:34:24; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;43489
 11; 523.1; 25-JUN-2010 05:36:25; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;43489
 12; 701.3; 25-JUN-2010 05:39:23; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43489
 13; 1249.8; 25-JUN-2010 05:48:32; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;43489
 14; 1333.9; 25-JUN-2010 05:49:56; Dark ; 47.0; 116; 19Del Sgr ; 2.70; 4100;occ; 94; 0;43489
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 16; 1986.8; 25-JUN-2010 06:00:49; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;43489
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 18; 2699.6; 25-JUN-2010 06:12:42; Bright; 51.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 102; 0;43489
 19; 2826.0; 25-JUN-2010 06:14:48; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;43489
 20; 3402.4; 25-JUN-2010 06:24:24; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;43489

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 3; 1464.9; 25-JUN-2010 20:57:30; Bright; 48.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 97; 0;43498
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 11; 4064.7; 25-JUN-2010 21:40:50; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43498
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 14; 4656.0; 25-JUN-2010 21:50:42; Dark ; 57.5; 50; 13Alp Ari ; 2.01; 4250;occ; 115; 0;43498
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 4; 532.8; 25-JUN-2010 22:22:34; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;43499
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 6; 1252.6; 25-JUN-2010 22:34:34; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;43499
 7; 1336.7; 25-JUN-2010 22:35:58; Dark ; 50.5; 116; 19Del Sgr ; 2.70; 4100;occ; 101; 0;43499
 8; 1465.3; 25-JUN-2010 22:38:07; Bright; 49.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 99; 0;43499
 9; 1985.3; 25-JUN-2010 22:46:47; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;43499
 10; 2128.1; 25-JUN-2010 22:49:10; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;43499
 11; 2693.2; 25-JUN-2010 22:58:35; Bright; 50.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 100; 0;43499
 12; 2823.5; 25-JUN-2010 23:00:45; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;43499
 13; 3395.3; 25-JUN-2010 23:10:17; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43499
 14; 3821.7; 25-JUN-2010 23:17:23; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;43499
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 4; 533.7; 26-JUN-2010 00:03:11; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;43500
 5; 706.9; 26-JUN-2010 00:06:04; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43500
 6; 1252.6; 26-JUN-2010 00:15:10; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;43500
 7; 1336.7; 26-JUN-2010 00:16:34; Dark ; 53.0; 116; 19Del Sgr ; 2.70; 4100;occ; 106; 0;43500
 8; 1465.2; 26-JUN-2010 00:18:43; Bright; 49.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 99; 0;43500
 9; 1985.6; 26-JUN-2010 00:27:23; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;43500

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12; 2823.3; 26-JUN-2010 00:41:21; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;43500
13; 3394.6; 26-JUN-2010 00:50:52; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43500
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18; 4418.6; 26-JUN-2010 01:07:56; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43500
19; 4656.4; 26-JUN-2010 01:11:54; Dark ; 58.0; 50; 13Alp Ari ; 2.01; 4250;occ; 116; 0;43500
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3; 534.5; 26-JUN-2010 01:43:48; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;43501
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6;-1379.4; 26-JUN-2010 02:52:30; Dark ; 52.5; 50; 13Alp Ari ; 2.01; 4250;occ; 105; 0;43501
7;-1086.9; 26-JUN-2010 02:57:22; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;43501
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9; 414.9; 26-JUN-2010 03:22:24; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43502
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