

# GOMOS Daily Report 16-JUN-2010

## 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	19JUN2010 04:48:20
Data source version	GOMOS/5.01
Start time of products	16JUN2010 20:36:01
Stop time of products	16JUN2010 23:58:43
Store outputs in DB	Yes
Nb of level 1b prods	43
Nb of prods with errors	0

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

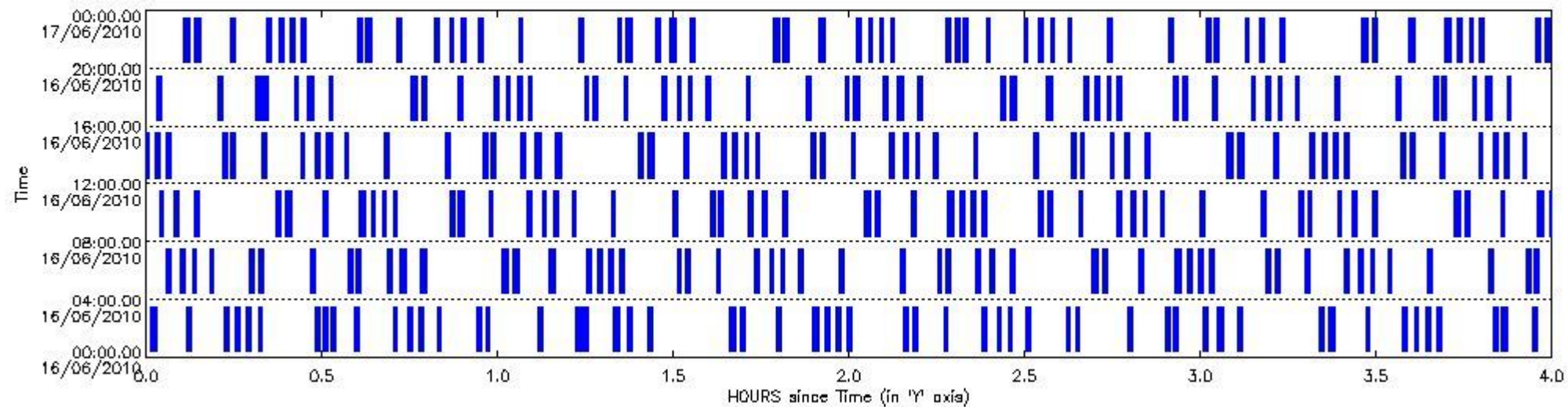
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

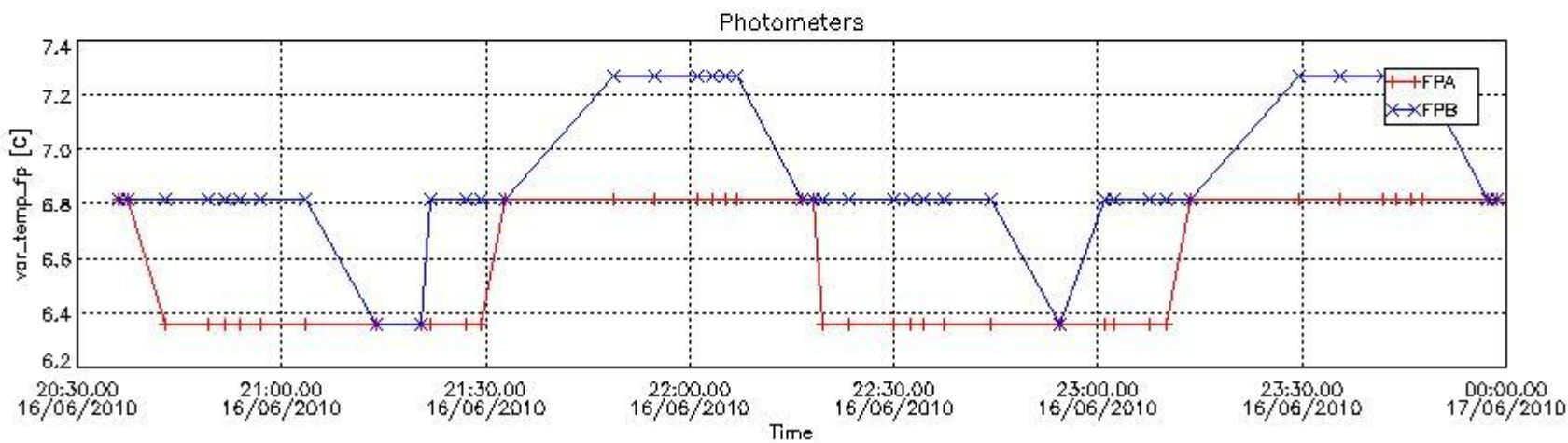
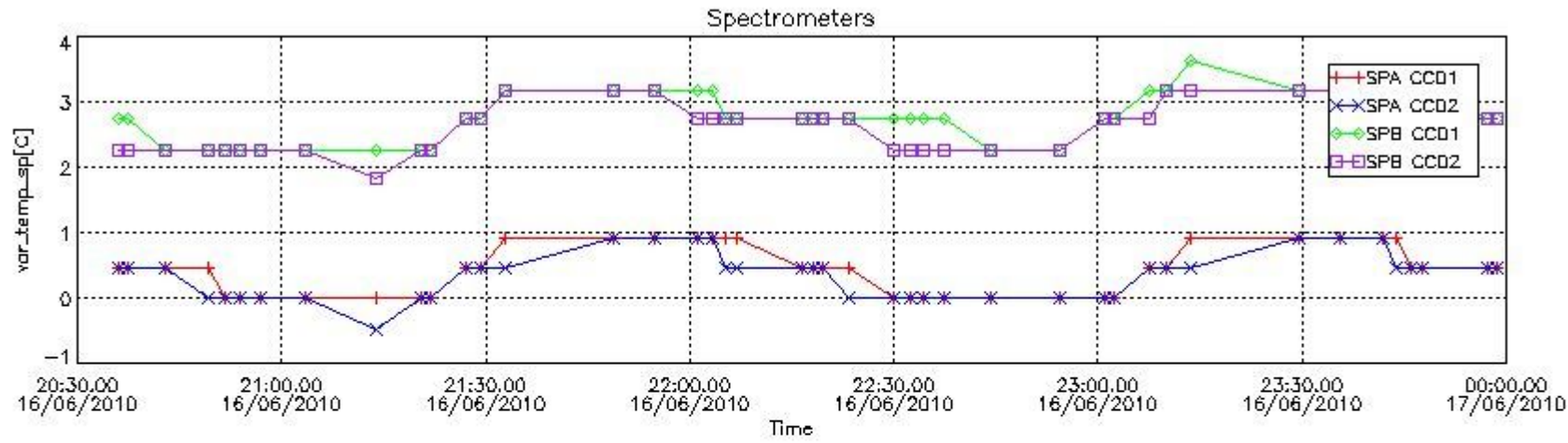
No missing products.

### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100616_203601_000000472090_00229_43369_9564.N1	16-JUN-2010 20:36:01	Twilight	46.500	38	20Eps Sgr	1.8360	11000.	93	43369	No
2	GOM_TRA_1PNPDE20100616_203730_000000512090_00229_43369_9565.N1	16-JUN-2010 20:37:30	Twilight	51.000	116	19Del Sgr	2.7000	4100.0	102	43369	No
3	GOM_TRA_1PNPDE20100616_204246_000000402090_00229_43369_9566.N1	16-JUN-2010 20:42:46	Bright	39.500	86	35Eta Oph	2.4300	10200.	79	43369	No
4	GOM_TRA_1PNPDE20100616_204916_000000442090_00229_43369_9567.N1	16-JUN-2010 20:49:16	Bright	43.500	126	60Bet Oph	2.7700	4250.0	87	43369	No
5	GOM_TRA_1PNPDE20100616_205146_000000422090_00229_43369_9568.N1	16-JUN-2010 20:51:46	Bright	41.500	59	55Alp Oph	2.0800	8900.0	83	43369	No
6	GOM_TRA_1PNPDE20100616_205347_000000382090_00229_43369_9569.N1	16-JUN-2010 20:53:47	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	43369	No
7	GOM_TRA_1PNPDE20100616_205648_000000402090_00229_43369_9570.N1	16-JUN-2010 20:56:48	Bright	39.500	133	40Zet Her	2.8070	6000.0	79	43369	No
8	GOM_TRA_1PNPDE20100616_210335_000000442090_00229_43369_9571.N1	16-JUN-2010 21:03:35	Bright	43.500	130	23Bet Dra	2.7990	5800.0	87	43369	No
9	GOM_TRA_1PNPDE20100616_211356_000000502090_00229_43369_9572.N1	16-JUN-2010 21:13:56	Bright	49.500	89	5Alp Cep	2.4510	8000.0	99	43369	No
10	GOM_TRA_1PNPDE20100616_212025_000000432090_00229_43369_9573.N1	16-JUN-2010 21:20:25	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	43369	No
11	GOM_TRA_1PNPDE20100616_212149_000000632090_00229_43369_9574.N1	16-JUN-2010 21:21:49	Bright	63.000	68	18Alp Cas	2.2250	4500.0	126	43369	No
12	GOM_TRA_1PNPDE20100616_212701_000000412090_00229_43369_9575.N1	16-JUN-2010 21:27:01	Bright	41.000	73	57Gam1And	2.2600	13100.	82	43369	No

13	GOM_TRA_1PNPDE20100616_212923_000000612090_00229_43369_9576.N1	16-JUN-2010 21:29:23	Twilight	60.500	53	43Bet And	2.0480	3300.0	121	43369	No
14	GOM_TRA_1PNPDE20100616_213254_000000522090_00229_43369_9577.N1	16-JUN-2010 21:32:54	Twilight	52.000	50	13Alp Ari	2.0070	4250.0	104	43369	No
15	GOM_TRA_1PNPDE20100616_214846_000000592090_00229_43369_9594.N1	16-JUN-2010 21:48:46	Dark	58.500	52	16Bet Cet	2.0370	4500.0	117	43369	No
16	GOM_TRA_1PNPDE20100616_215456_000000542090_00229_43369_9595.N1	16-JUN-2010 21:54:56	Dark	54.000	84	Alp Phe	2.3970	4500.0	108	43369	No
17	GOM_TRA_1PNPDE20100616_220112_000000512090_00230_43370_9596.N1	16-JUN-2010 22:01:12	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	43370	No
18	GOM_TRA_1PNPDE20100616_220315_000000492090_00230_43370_9597.N1	16-JUN-2010 22:03:15	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	43370	No
19	GOM_TRA_1PNPDE20100616_220514_000000412090_00230_43370_9598.N1	16-JUN-2010 22:05:14	Straylight	41.000	172	Gam Gru	3.0030	13100.	82	43370	No
20	GOM_TRA_1PNPDE20100616_220700_000000432090_00230_43370_9599.N1	16-JUN-2010 22:07:00	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	43370	No
21	GOM_TRA_1PNPDE20100616_221637_000000472090_00230_43370_9600.N1	16-JUN-2010 22:16:37	Twilight	47.000	38	20Eps Sgr	1.8360	11000.	94	43370	No
22	GOM_TRA_1PNPDE20100616_221806_000000512090_00230_43370_9601.N1	16-JUN-2010 22:18:06	Twilight	51.000	116	19Del Sgr	2.7000	4100.0	102	43370	No
23	GOM_TRA_1PNPDE20100616_221925_000000502090_00230_43370_9602.N1	16-JUN-2010 22:19:25	Bright	50.000	137	22Lam Sgr	2.8240	4400.0	100	43370	No
24	GOM_TRA_1PNPDE20100616_222322_000000392090_00230_43370_9603.N1	16-JUN-2010 22:23:22	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	43370	No
25	GOM_TRA_1PNPDE20100616_222952_000000432090_00230_43370_9604.N1	16-JUN-2010 22:29:52	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	43370	No
26	GOM_TRA_1PNPDE20100616_223222_000000432090_00230_43370_9605.N1	16-JUN-2010 22:32:22	Bright	42.500	59	55Alp Oph	2.0800	8900.0	85	43370	No
27	GOM_TRA_1PNPDE20100616_223423_000000382090_00230_43370_9606.N1	16-JUN-2010 22:34:23	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	43370	No
28	GOM_TRA_1PNPDE20100616_223724_000000402090_00230_43370_9607.N1	16-JUN-2010 22:37:24	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	43370	No
29	GOM_TRA_1PNPDE20100616_224410_000000412090_00230_43370_9608.N1	16-JUN-2010 22:44:10	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	43370	No
30	GOM_TRA_1PNPDE20100616_225431_000000482090_00230_43370_9609.N1	16-JUN-2010 22:54:31	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	43370	No
31	GOM_TRA_1PNPDE20100616_230101_000000452090_00230_43370_9610.N1	16-JUN-2010 23:01:01	Bright	44.500	74	11Bet Cas	2.2680	6600.0	89	43370	No
32	GOM_TRA_1PNPDE20100616_230225_000000472090_00230_43370_9611.N1	16-JUN-2010 23:02:25	Bright	46.500	68	18Alp Cas	2.2250	4500.0	93	43370	No
33	GOM_TRA_1PNPDE20100616_230737_000000412090_00230_43370_9612.N1	16-JUN-2010 23:07:37	Bright	41.000	73	57Gam1And	2.2600	13100.	82	43370	No
34	GOM_TRA_1PNPDE20100616_230959_000000582090_00230_43370_9613.N1	16-JUN-2010 23:09:59	Twilight	57.500	53	43Bet And	2.0480	3300.0	115	43370	No
35	GOM_TRA_1PNPDE20100616_231330_000000482090_00230_43370_9614.N1	16-JUN-2010 23:13:30	Twilight	47.500	50	13Alp Ari	2.0070	4250.0	95	43370	No
36	GOM_TRA_1PNPDE20100616_232924_000000552090_00230_43370_9608.N1	16-JUN-2010 23:29:24	Dark	55.000	52	16Bet Cet	2.0370	4500.0	110	43370	No
37	GOM_TRA_1PNPDE20100616_233533_000000562090_00230_43370_9609.N1	16-JUN-2010 23:35:33	Dark	56.000	84	Alp Phe	2.3970	4500.0	112	43370	No
38	GOM_TRA_1PNPDE20100616_234149_000000532090_00231_43371_9610.N1	16-JUN-2010 23:41:49	Dark	52.500	63	Bet Gru	2.1500	2800.0	105	43371	No
39	GOM_TRA_1PNPDE20100616_234352_000000482090_00231_43371_9611.N1	16-JUN-2010 23:43:52	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	43371	No
40	GOM_TRA_1PNPDE20100616_234551_000000412090_00231_43371_9612.N1	16-JUN-2010 23:45:51	Straylight	41.000	172	Gam Gru	3.0030	13100.	82	43371	No
41	GOM_TRA_1PNPDE20100616_234737_000000432090_00231_43371_9613.N1	16-JUN-2010 23:47:37	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	43371	No
42	GOM_TRA_1PNPDE20100616_235713_000000462090_00231_43371_9614.N1	16-JUN-2010 23:57:13	Twilight	46.000	38	20Eps Sgr	1.8360	11000.	92	43371	No
43	GOM_TRA_1PNPDE20100616_235843_000000492090_00231_43371_9615.N1	16-JUN-2010 23:58:43	Twilight	49.000	116	19Del Sgr	2.7000	4100.0	98	43371	No

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



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

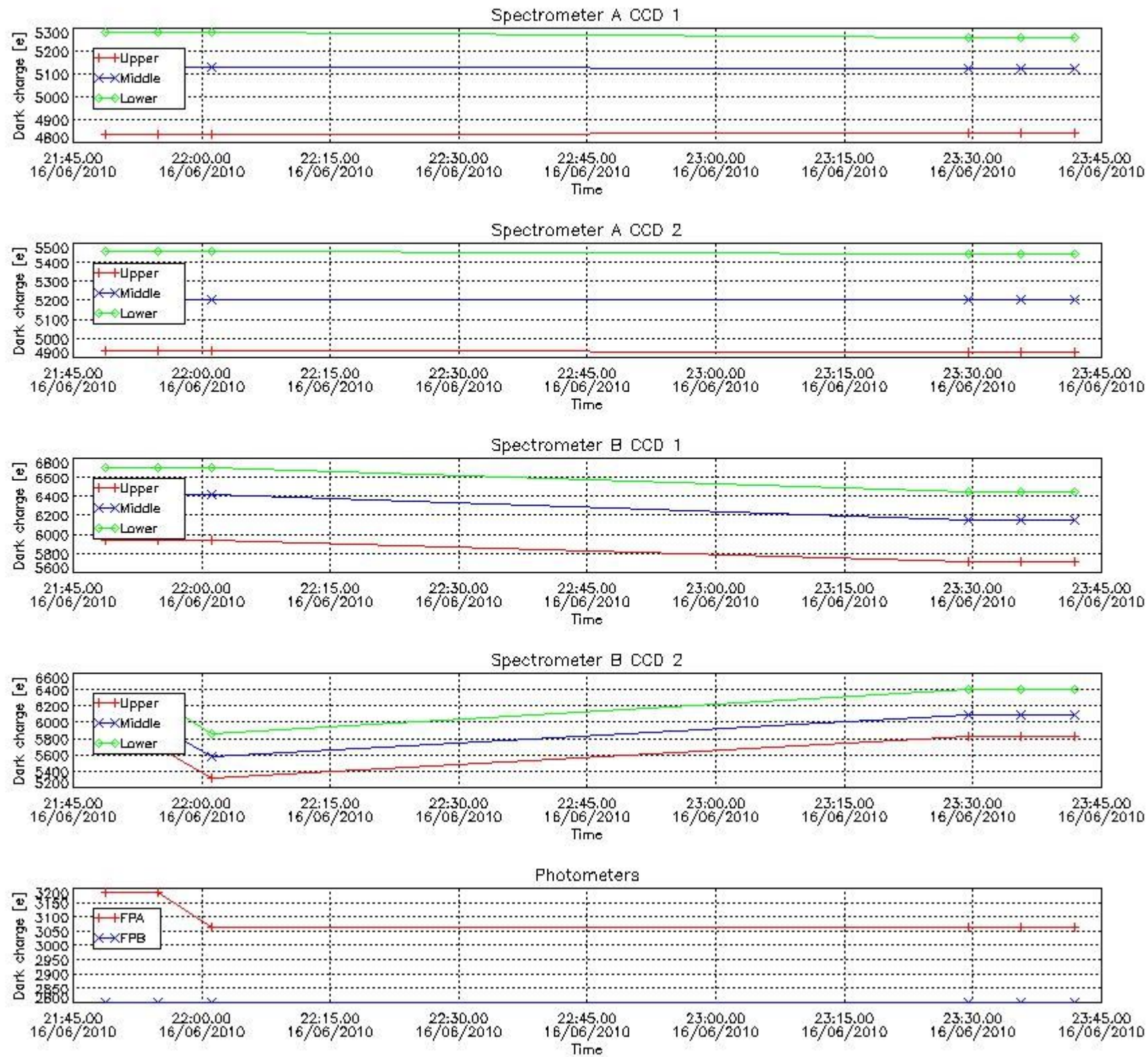
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100616_203601_000000472090_00229_43369_9564.N1	DC map used
GOM_TRA_1PNPDE20100616_203730_000000512090_00229_43369_9565.N1	DC map used
GOM_TRA_1PNPDE20100616_204246_000000402090_00229_43369_9566.N1	DC map used
GOM_TRA_1PNPDE20100616_204916_000000442090_00229_43369_9567.N1	DC map used
GOM_TRA_1PNPDE20100616_205146_000000422090_00229_43369_9568.N1	DC map used
GOM_TRA_1PNPDE20100616_205347_000000382090_00229_43369_9569.N1	DC map used
GOM_TRA_1PNPDE20100616_205648_000000402090_00229_43369_9570.N1	DC map used
GOM_TRA_1PNPDE20100616_210335_000000442090_00229_43369_9571.N1	DC map used
GOM_TRA_1PNPDE20100616_211356_000000502090_00229_43369_9572.N1	DC map used
GOM_TRA_1PNPDE20100616_212025_000000432090_00229_43369_9573.N1	DC map used
GOM_TRA_1PNPDE20100616_212149_000000632090_00229_43369_9574.N1	DC map used
GOM_TRA_1PNPDE20100616_212701_000000412090_00229_43369_9575.N1	DC map used
GOM_TRA_1PNPDE20100616_212923_000000612090_00229_43369_9576.N1	DC map used
GOM_TRA_1PNPDE20100616_213254_000000522090_00229_43369_9577.N1	DC map used

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



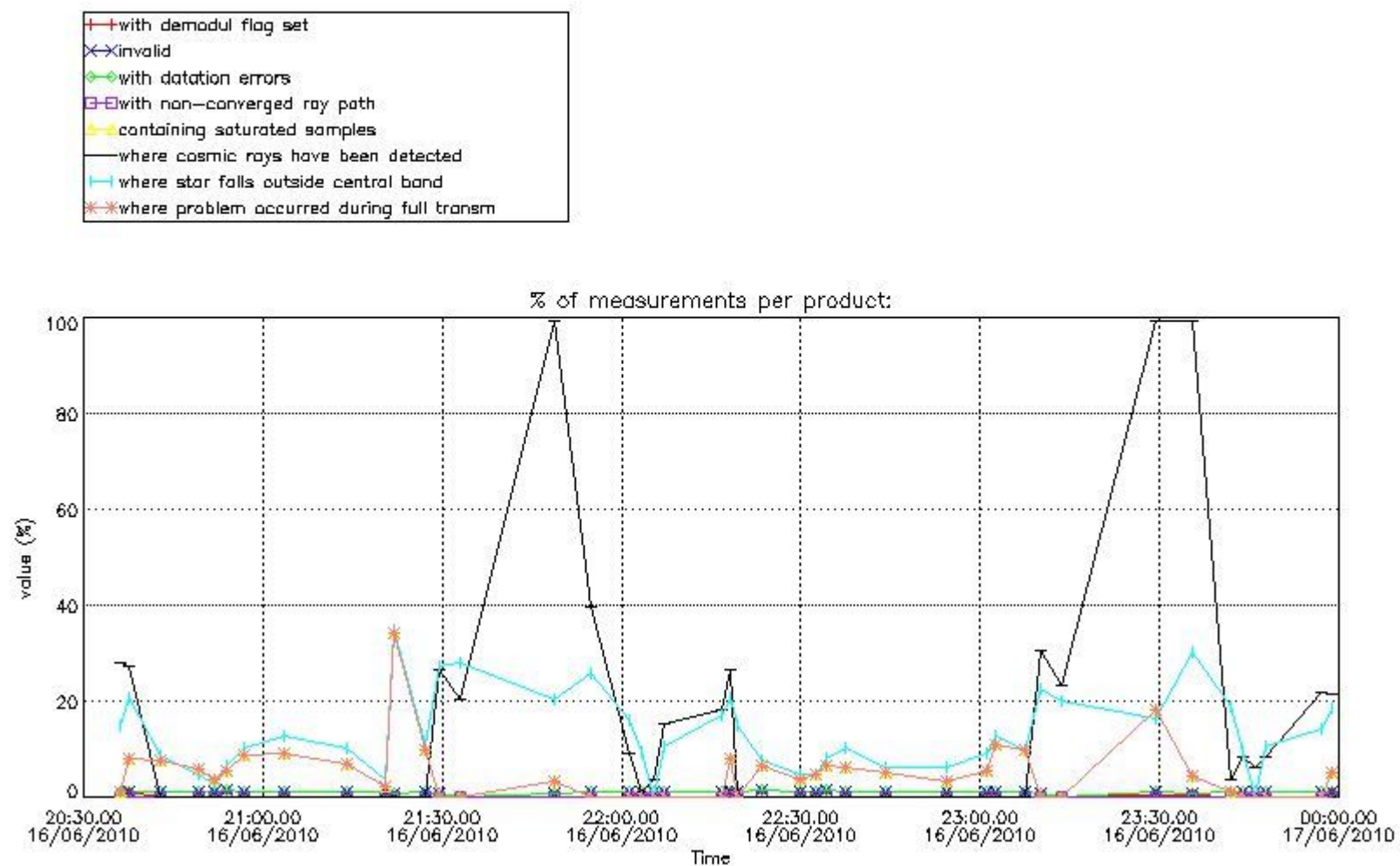
#### 5. Demodulation flag and quality information monitoring

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.

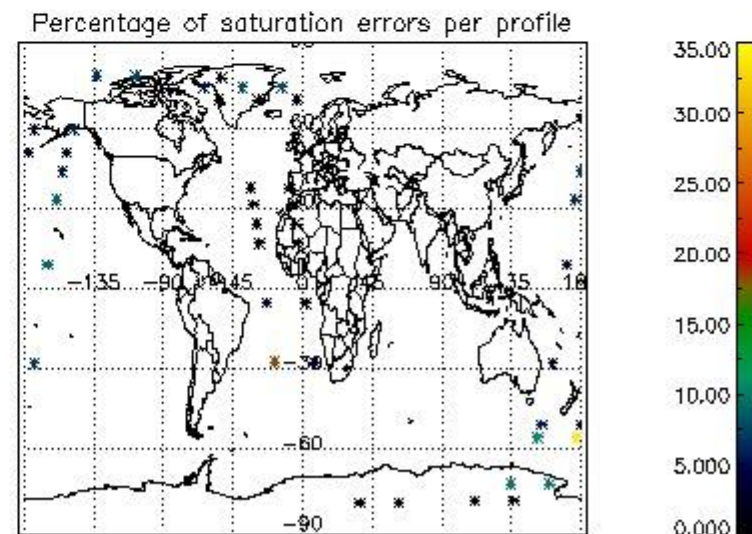
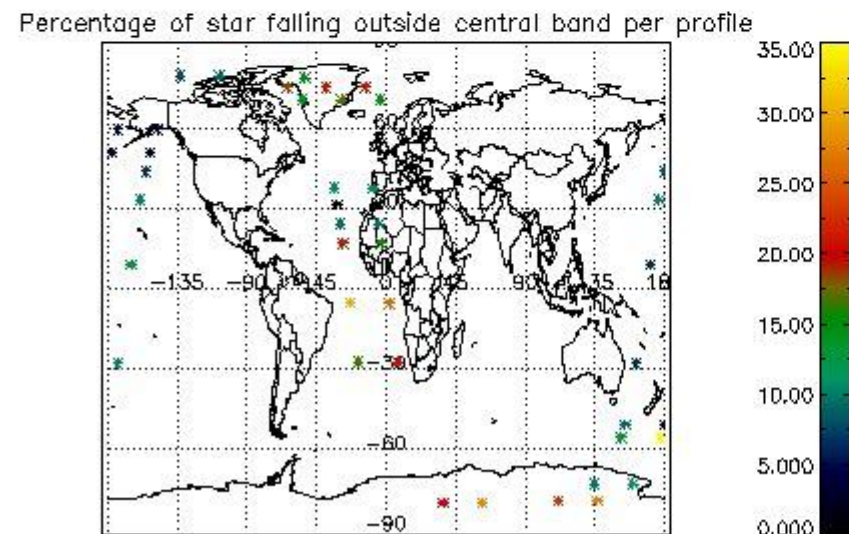
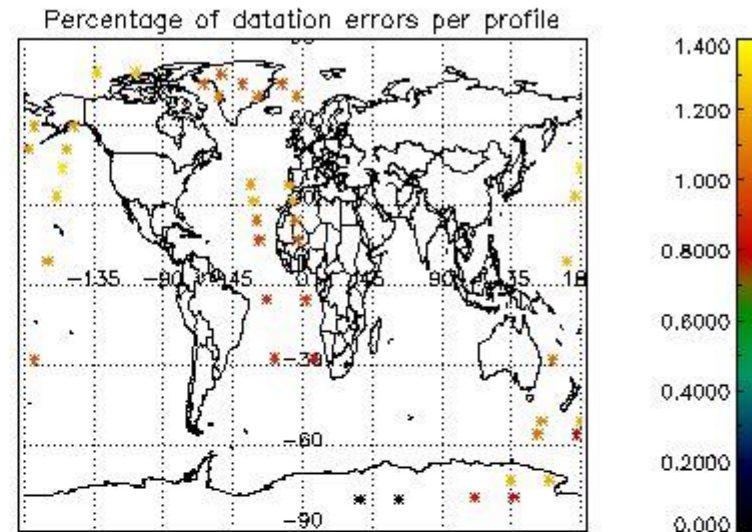
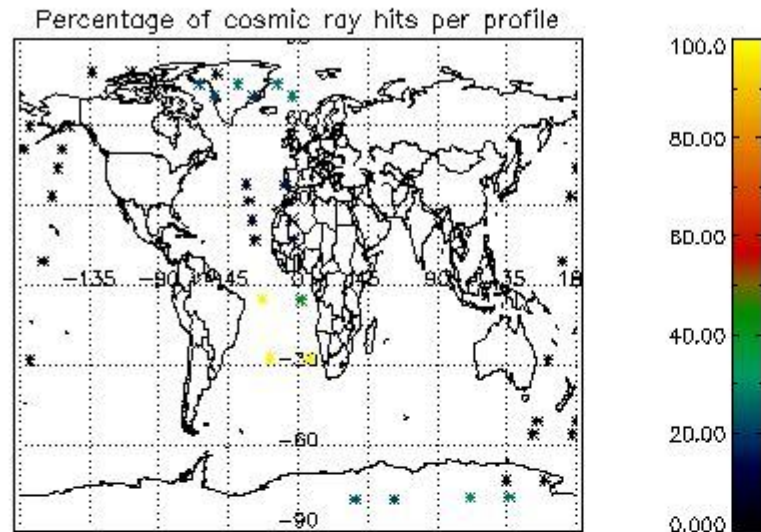
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	41.8605 %
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)



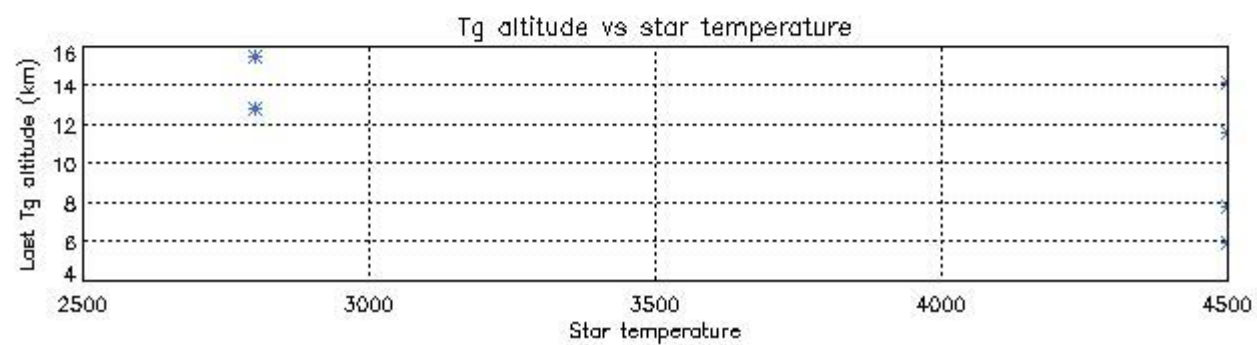
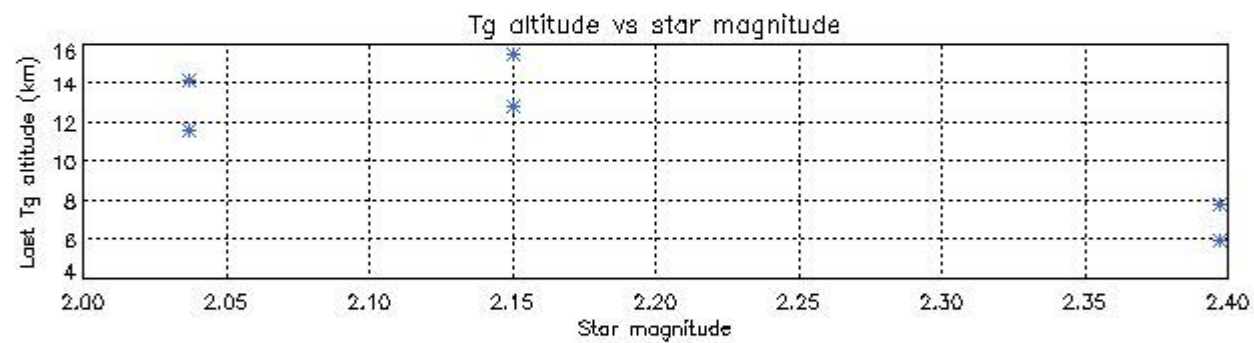
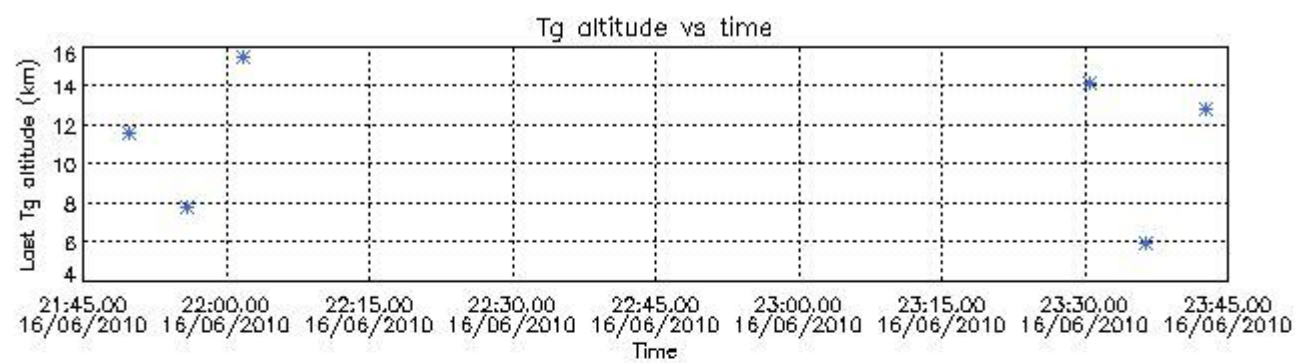
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.285	18.810	9.8404
St. deviation:	3.6974	4.1357	2.2297
Maximum:	15.454	24.501	11.417
Minimum:	5.9552	4.0427	8.2638
Number of data:	6.0000	21.000	2.0000

### 6.2 Plot for DARK limb products

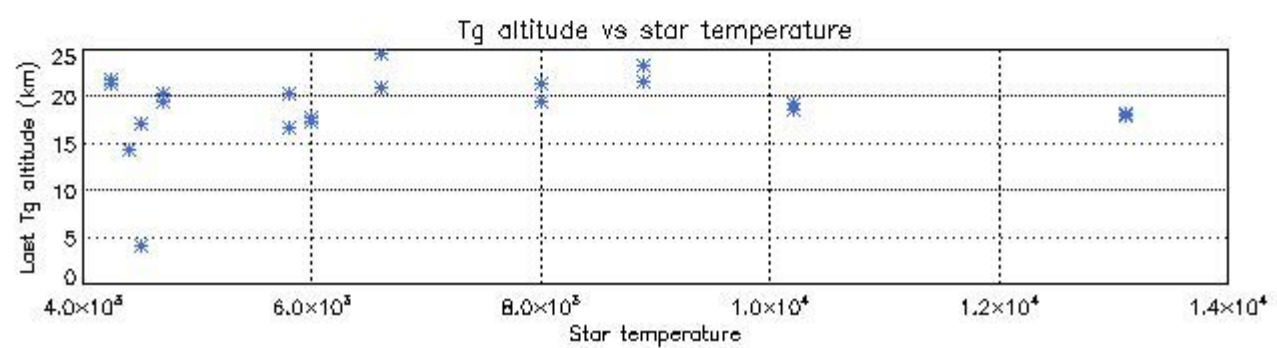
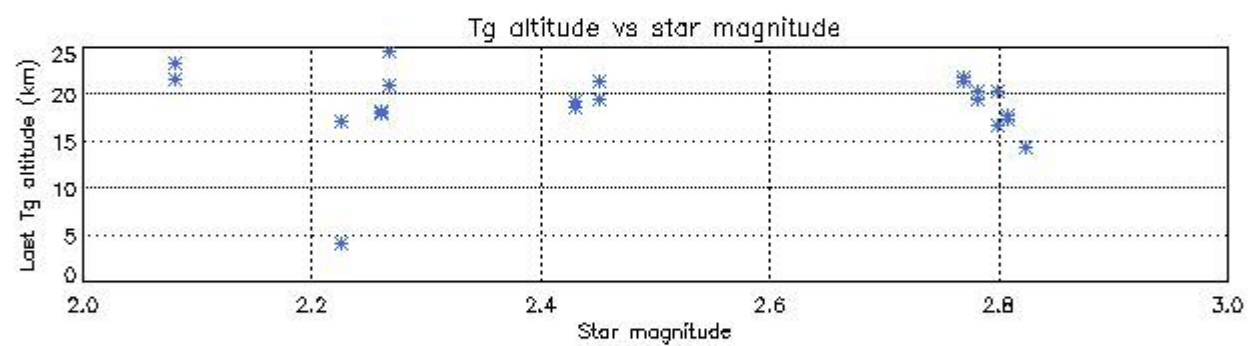
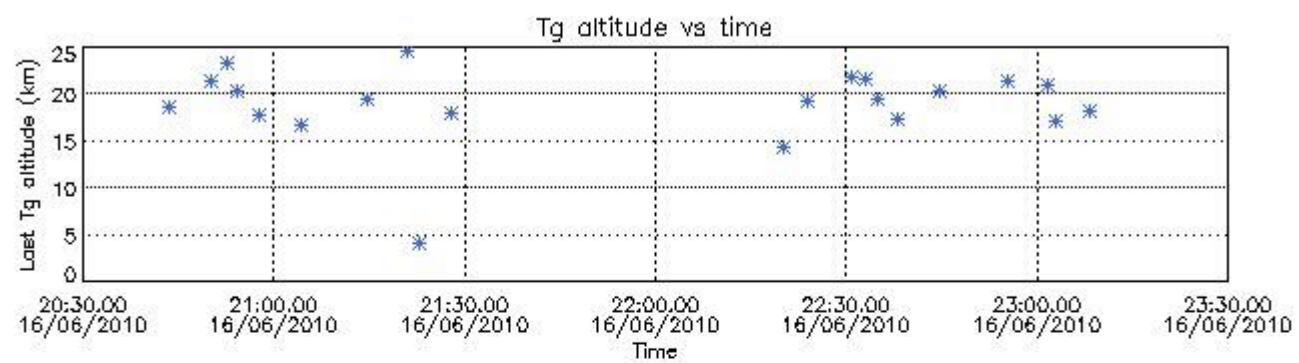
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

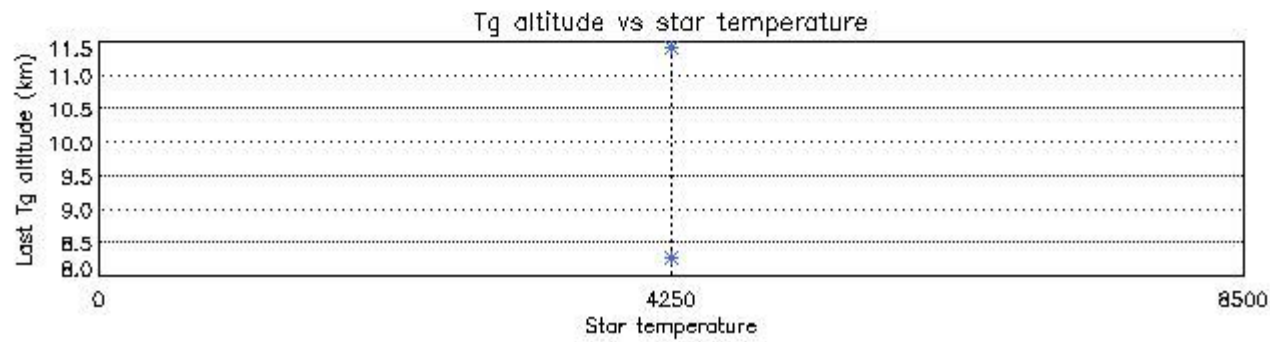
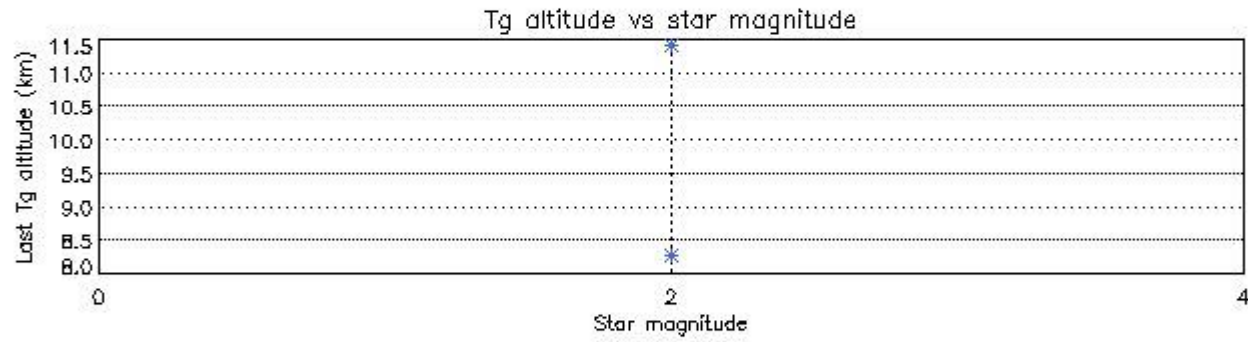
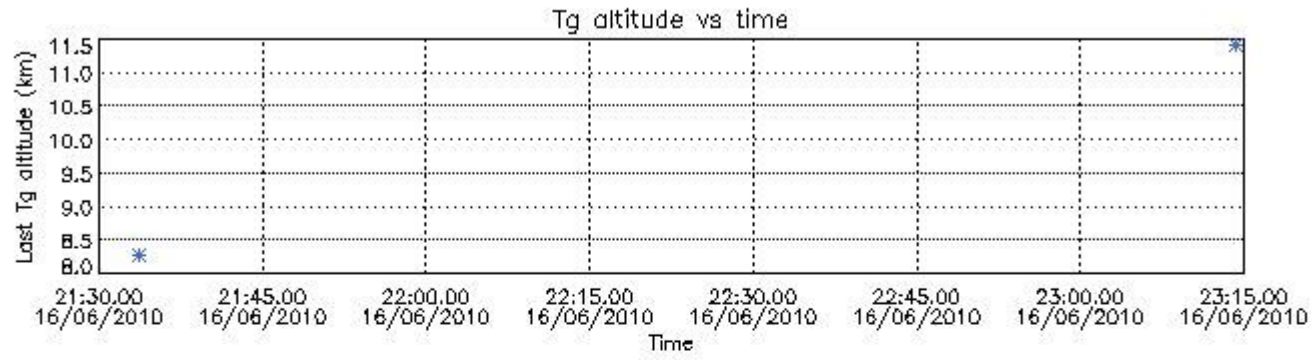


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

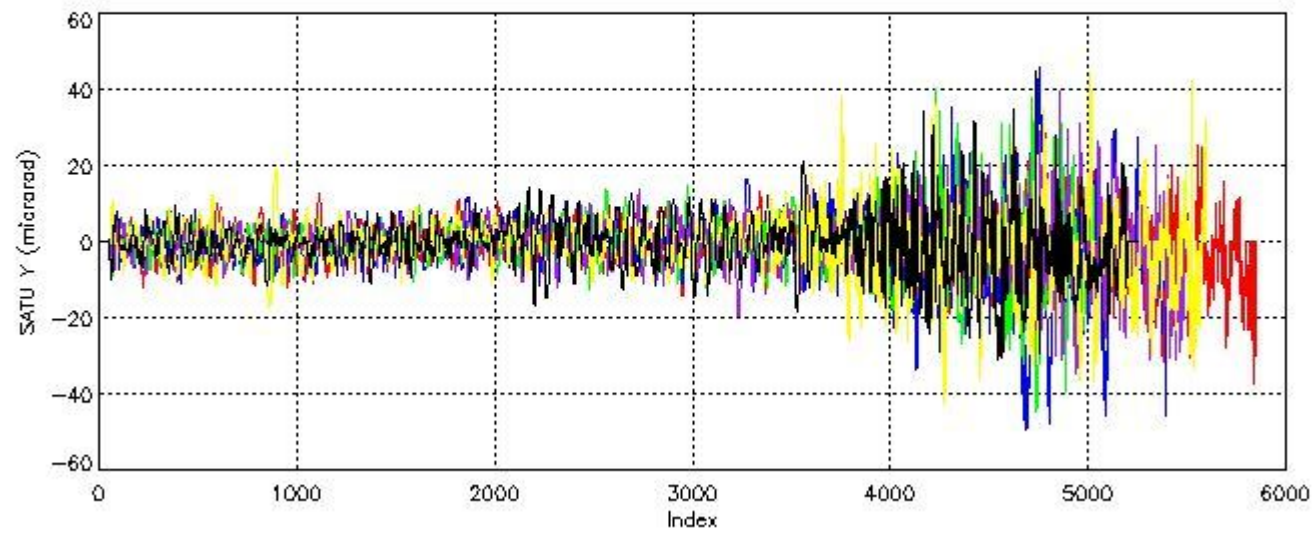
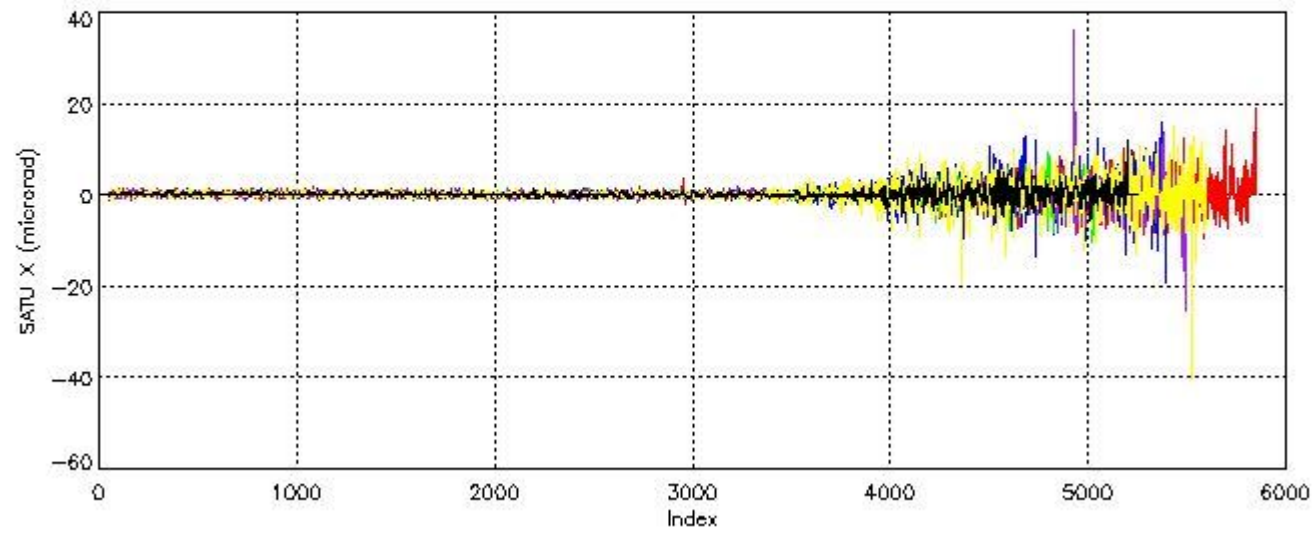


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.18554	-0.69709	0.21608	-0.64661
St. deviation:	0.34360	4.0147	0.73983	3.4782
Maximum:	1.9000	19.000	4.1000	15.400
Minimum:	-1.3000	-17.500	-3.2000	-16.900

Number of data:	6600.0	6600.0	21050.	21050.
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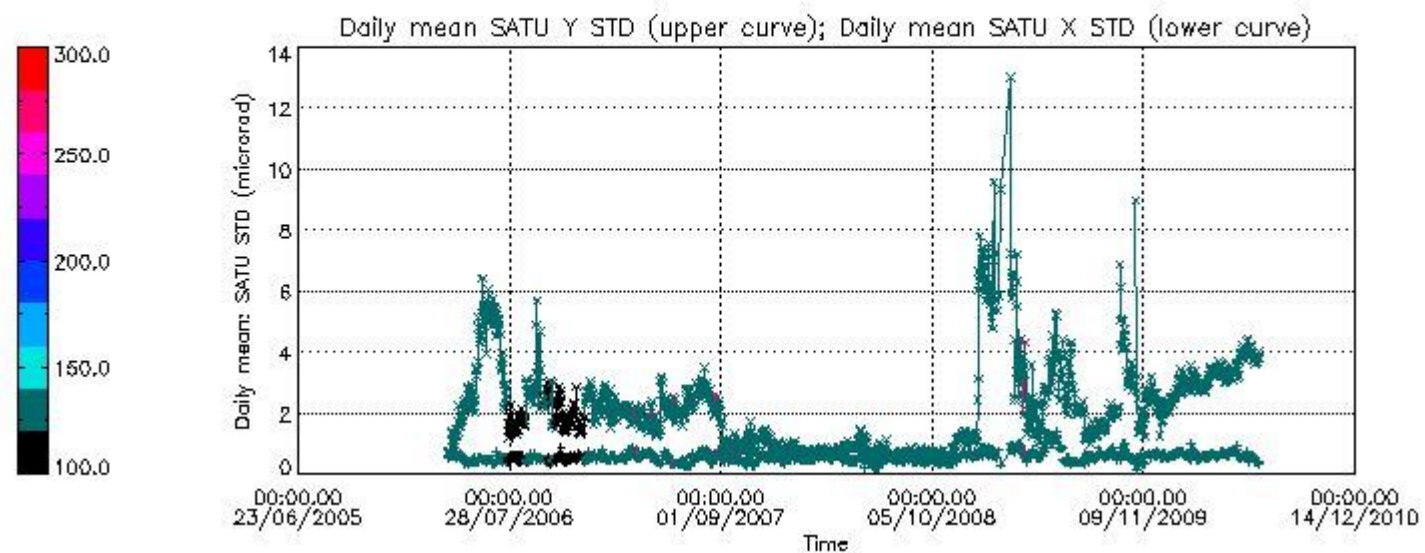
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

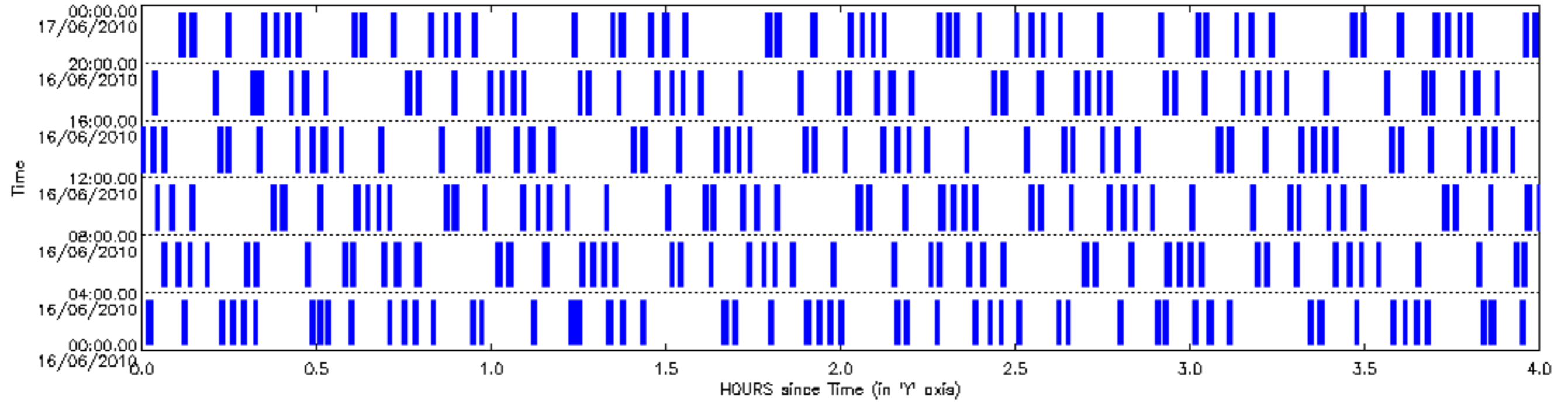
Lower curve: STD of SATU X axis

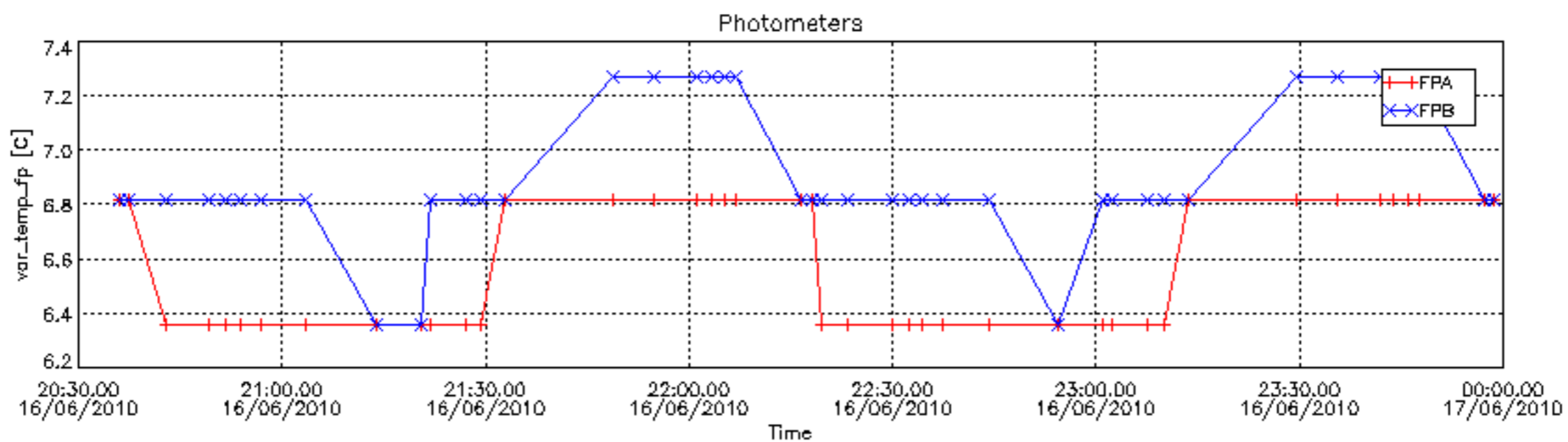
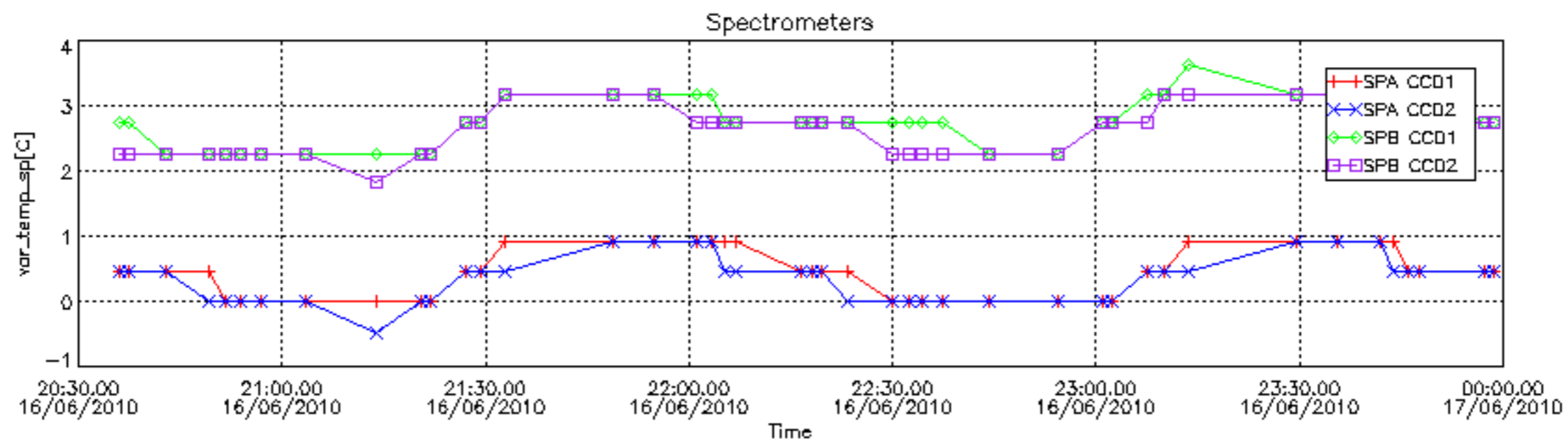


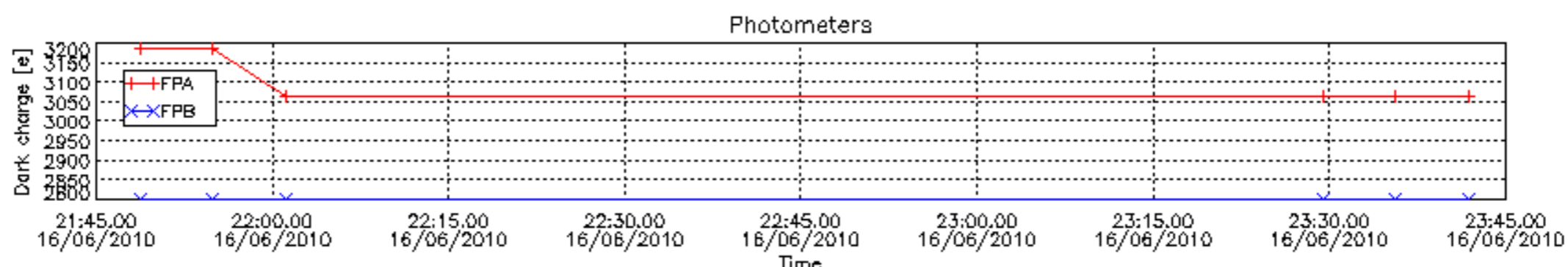
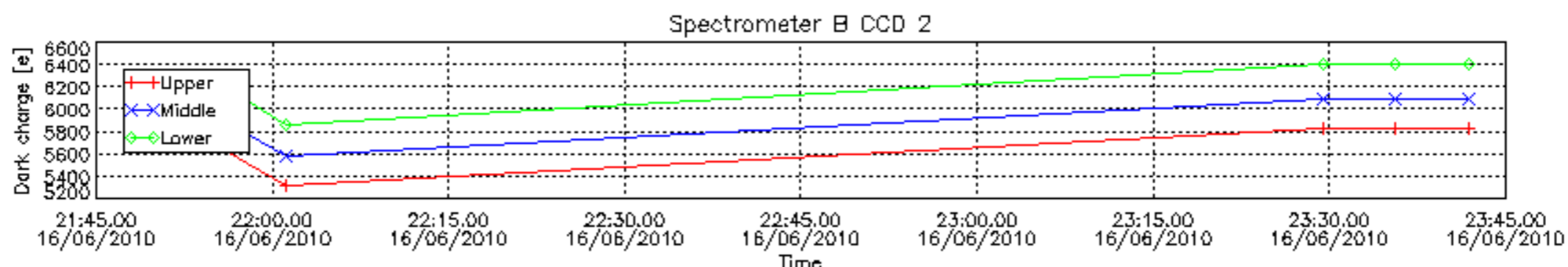
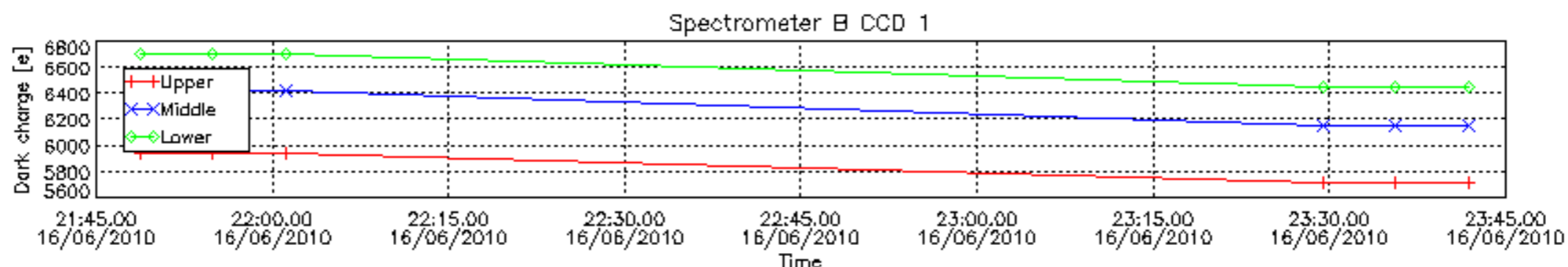
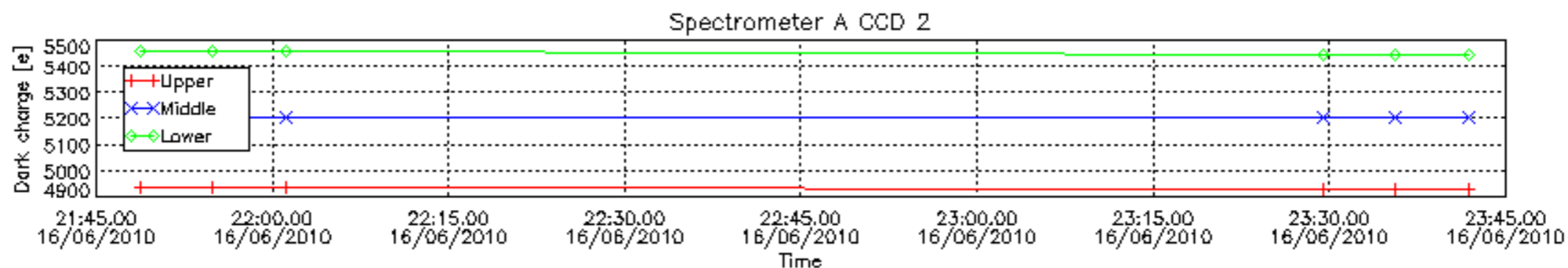
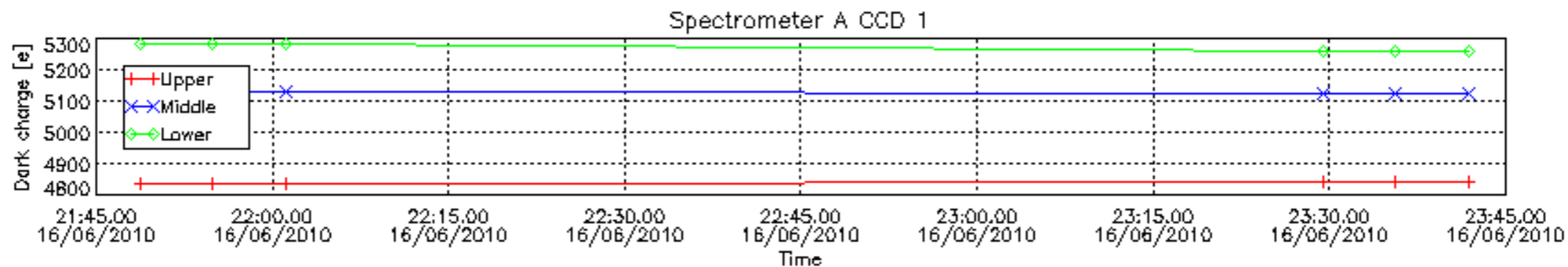
### 8. Auxiliary Data Files used for the production reported in section 2.4

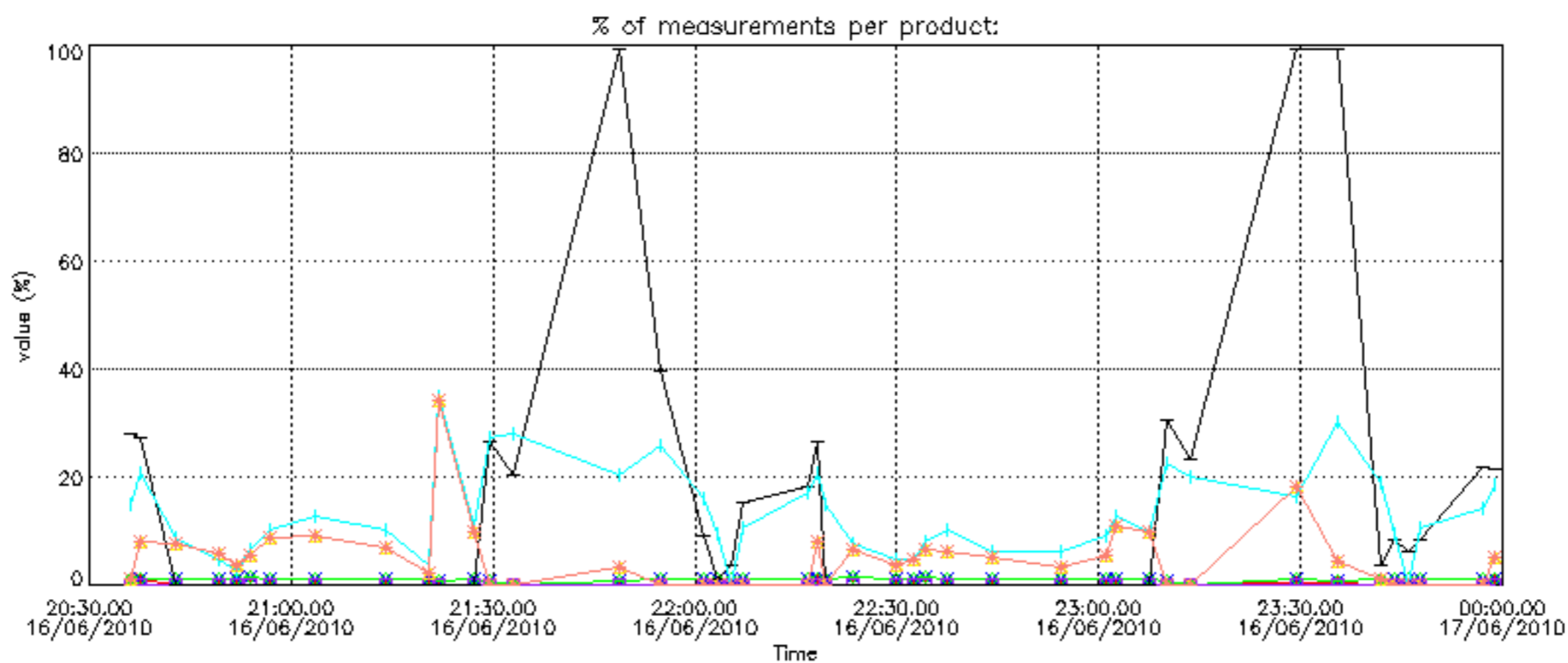
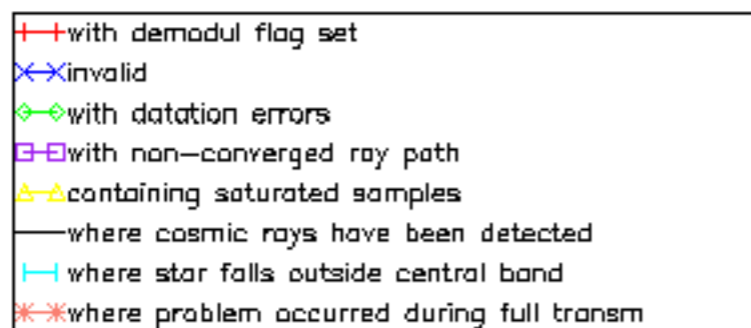
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-JUN-2010 20:36:01
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100615_083814_20100613_000000_20500101_000000	1	16-JUN-2010 20:36:01
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	16-JUN-2010 20:36:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-JUN-2010 20:36:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	16-JUN-2010 20:36:01
ECMWF_FILE	AUX_ECF_AXNECM20100616_052115_20100616_150000_20100617_030000	1	16-JUN-2010 20:36:01
ECMWF_FILE	AUX_ECF_AXNECM20100616_054112_20100616_210000_20100617_090000	15	16-JUN-2010 21:48:46
OPTIONAL_ECMWF_FILE	MISSING	1	16-JUN-2010 20:36:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100616_202801_000041442090_00229_43369_0564.N1	1	16-JUN-2010 20:36:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100616_214224_000057382090_00229_43369_0565.N1	15	16-JUN-2010 21:48:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100616_232321_000057382090_00230_43370_0566.N1	36	16-JUN-2010 23:29:24



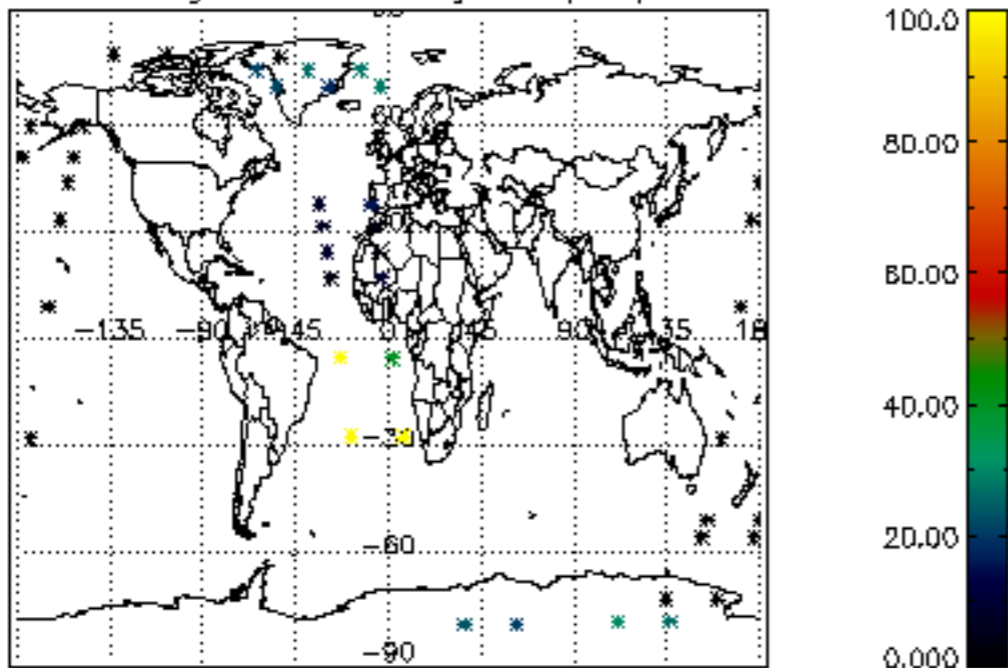




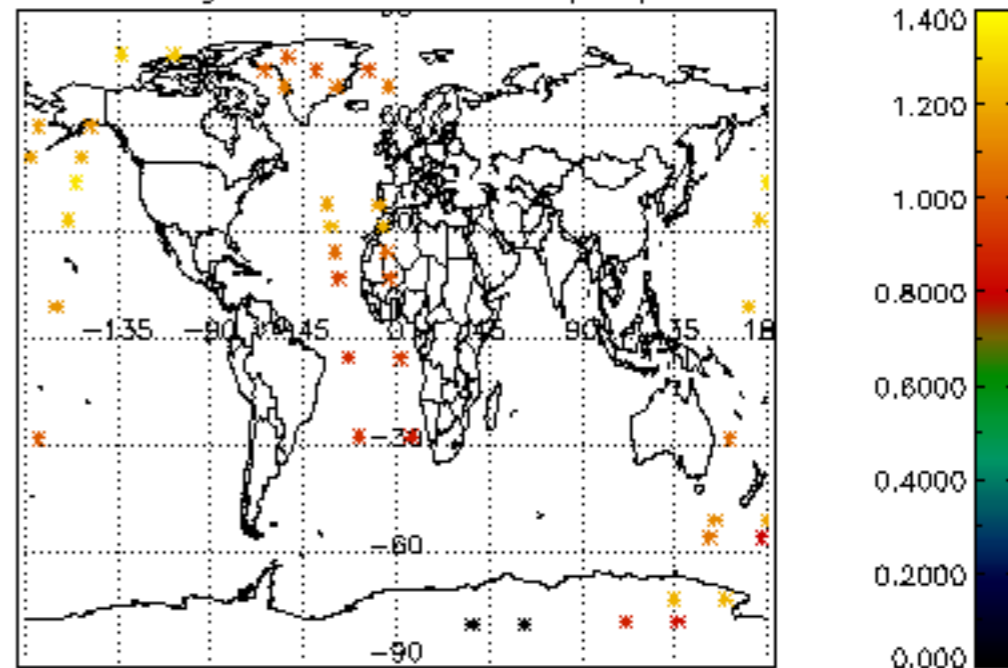




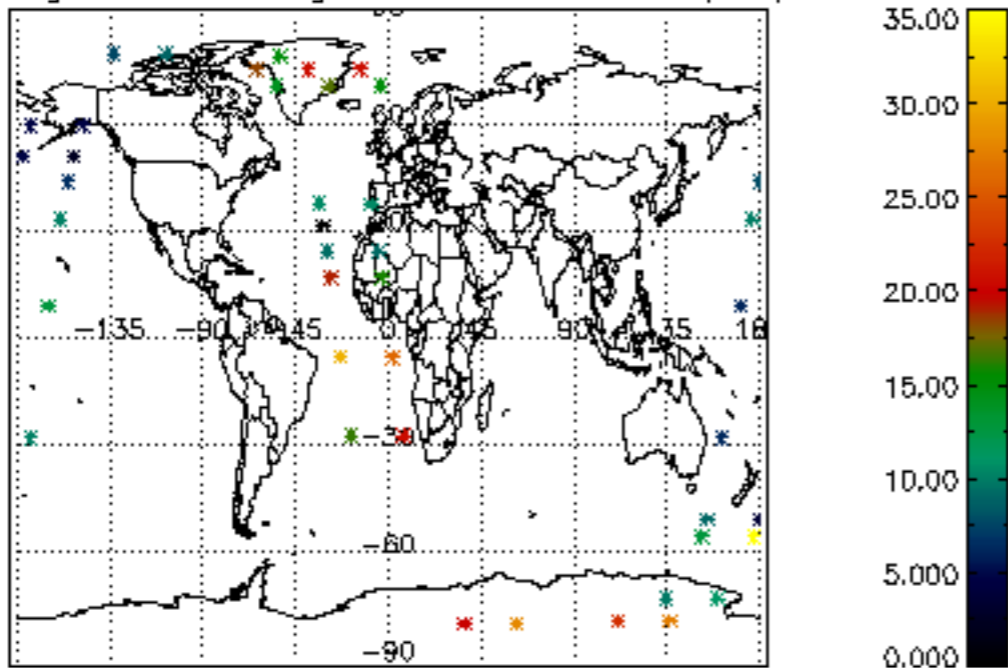
Percentage of cosmic ray hits per profile



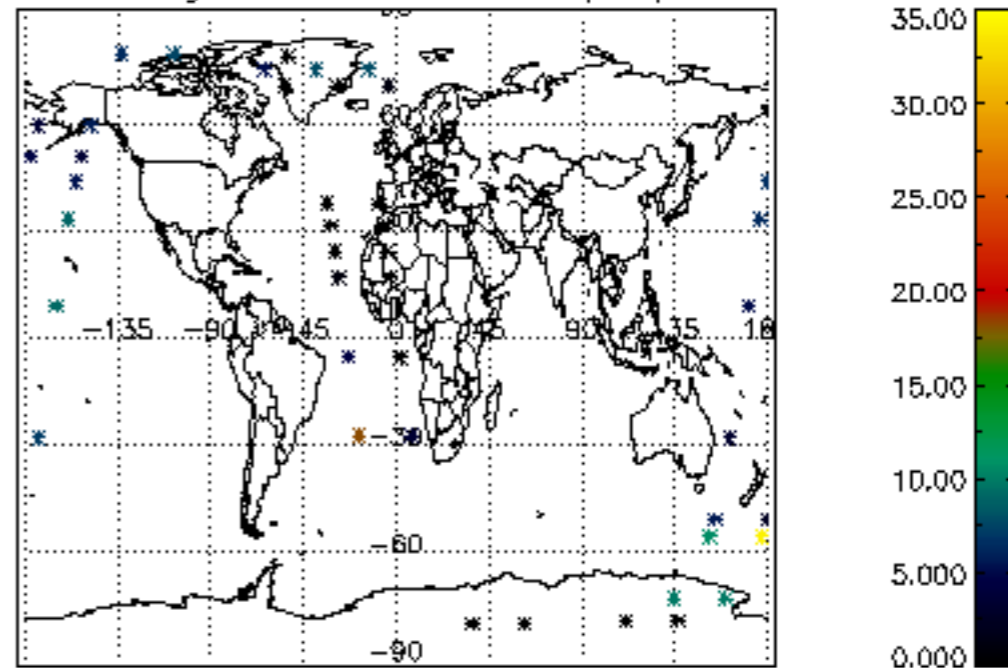
Percentage of datation errors per profile



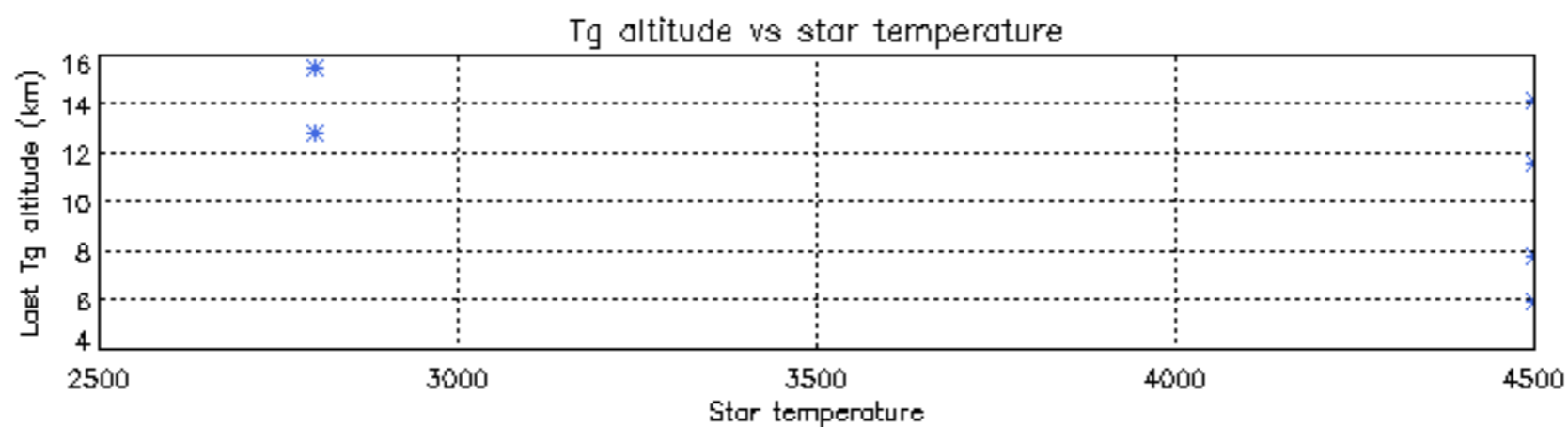
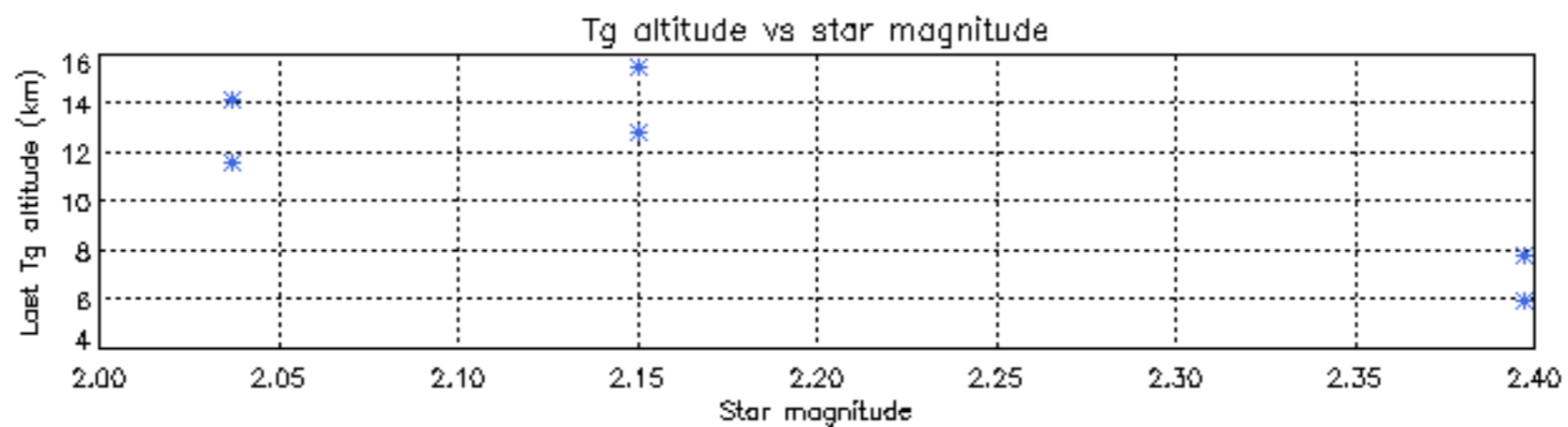
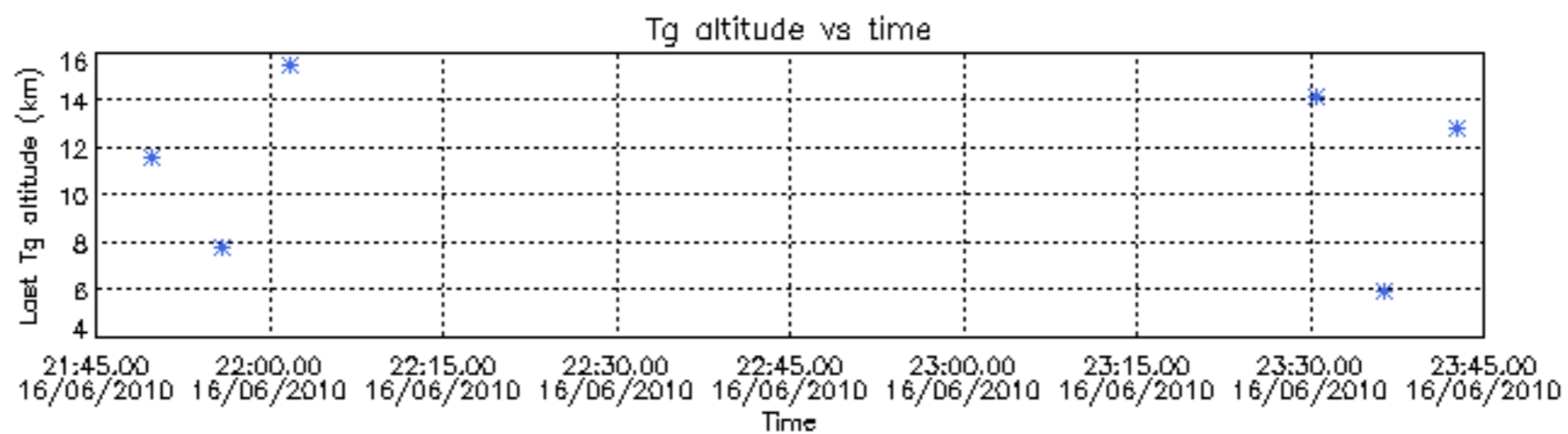
Percentage of star falling outside central band per profile



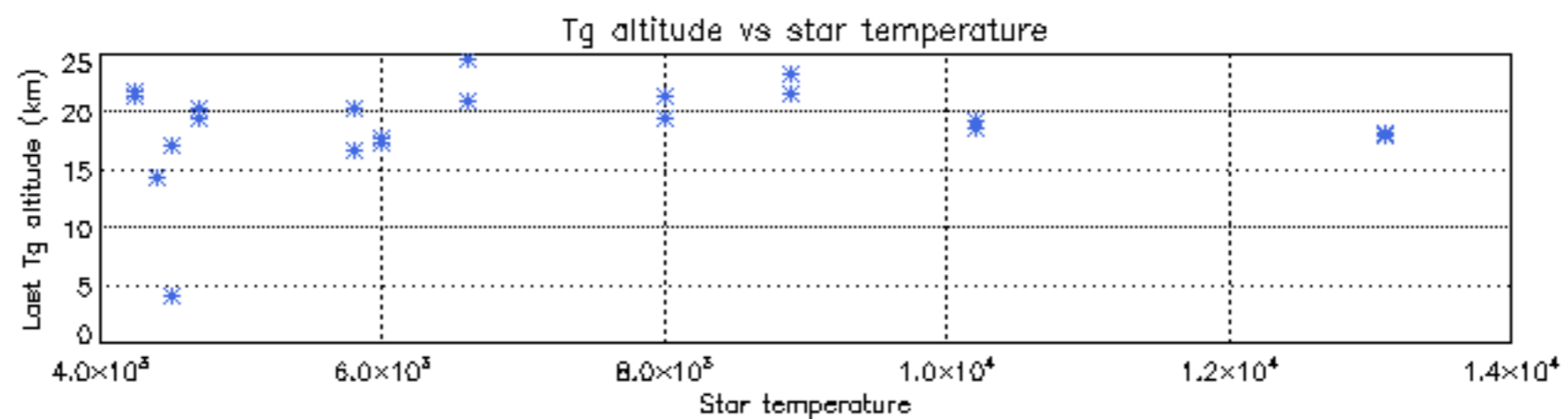
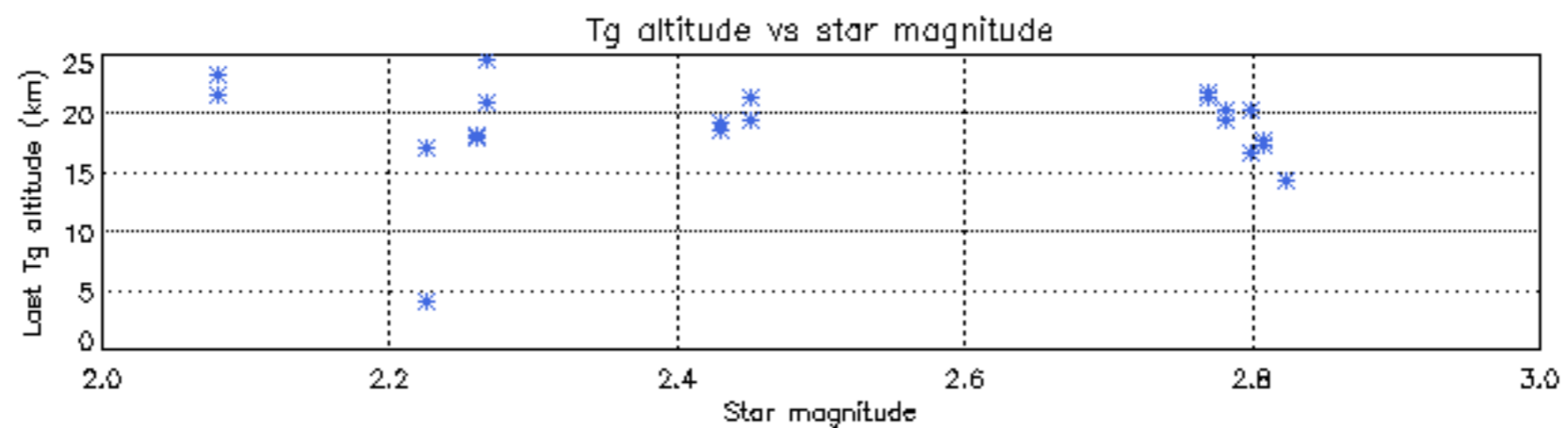
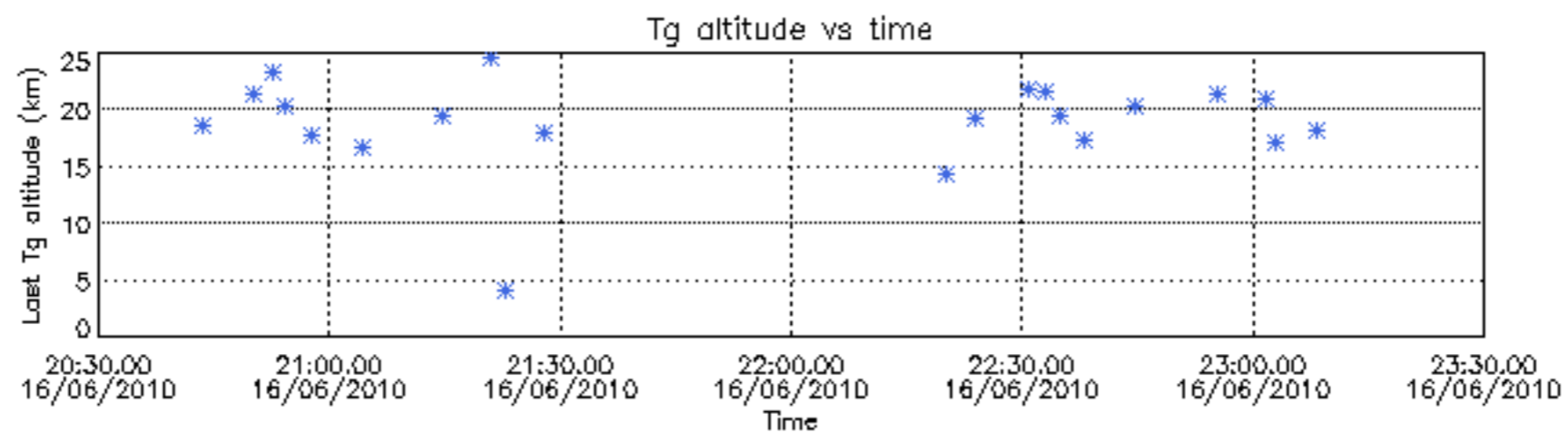
Percentage of saturation errors per profile



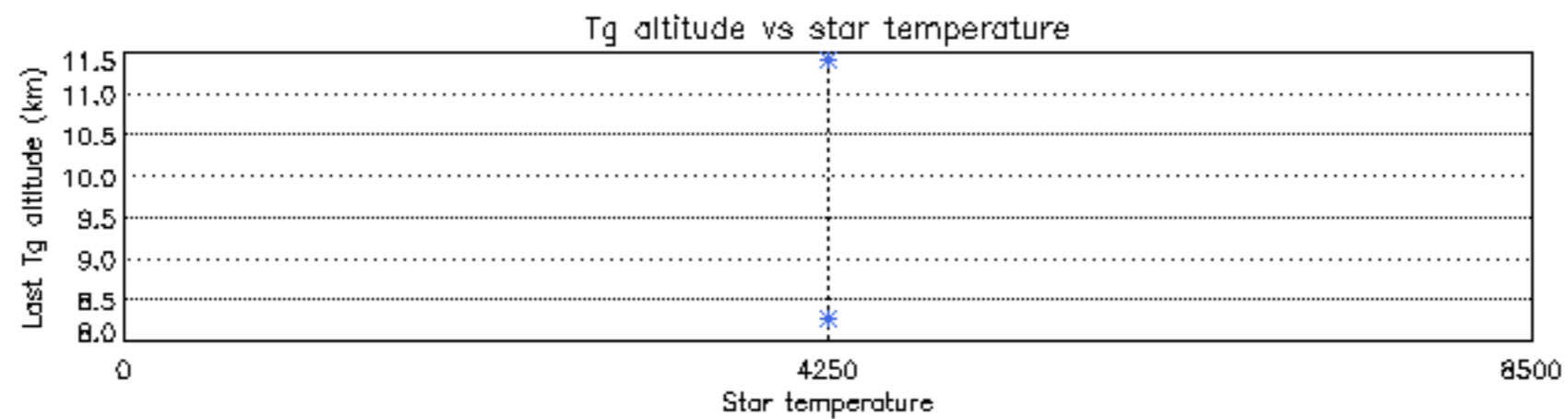
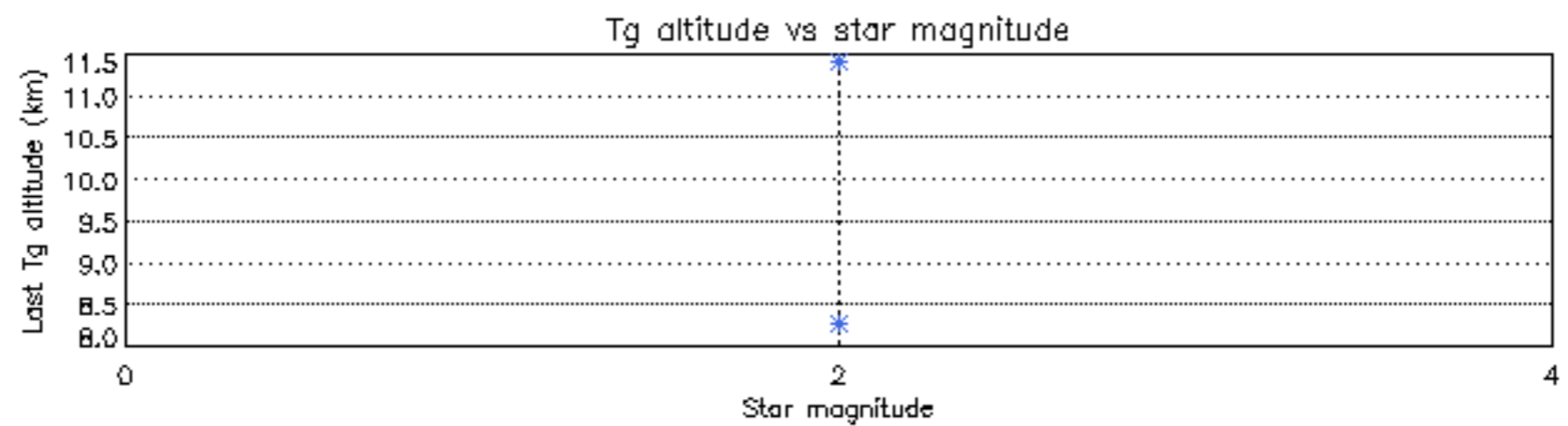
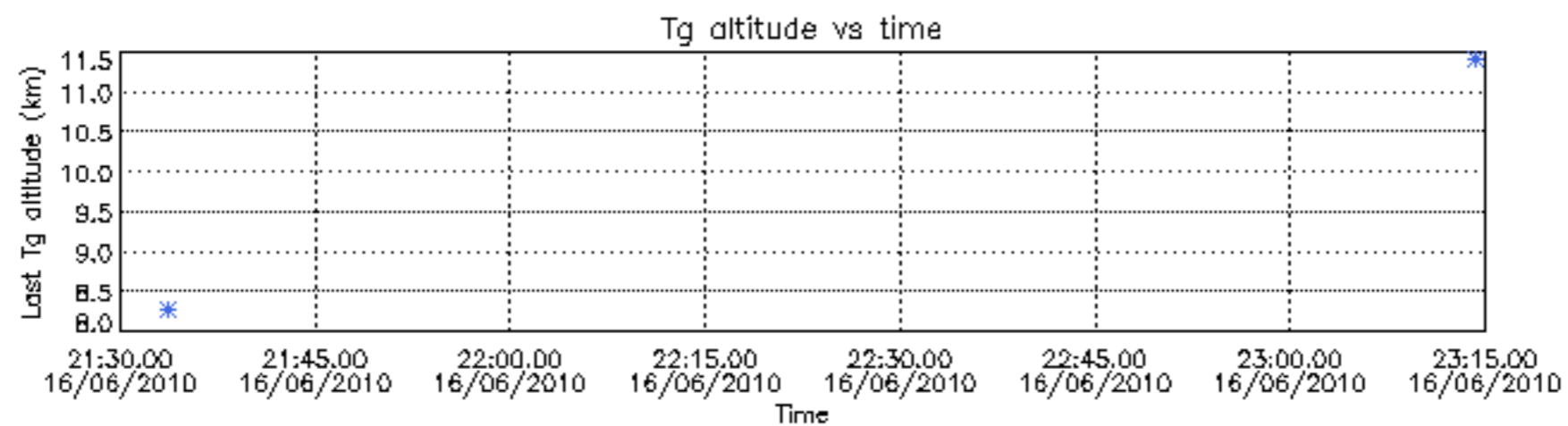
Tangent altitude at which the star is lost

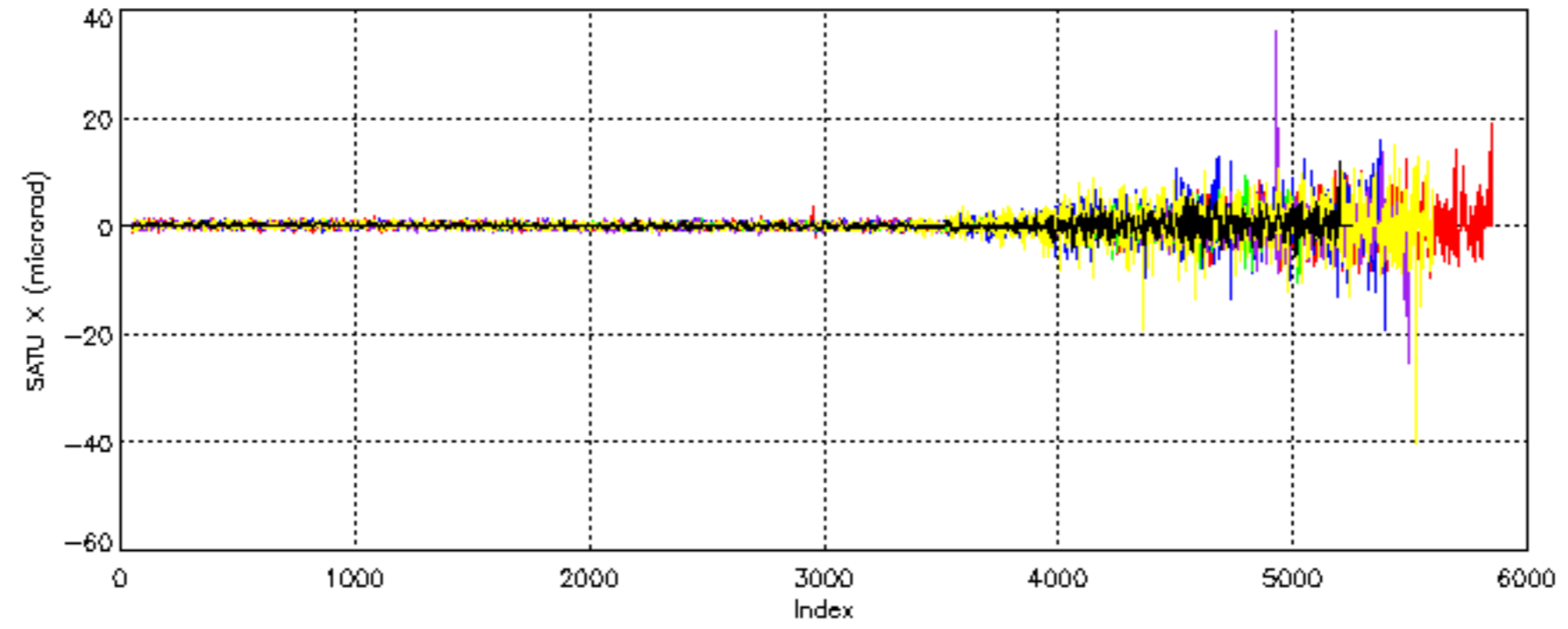


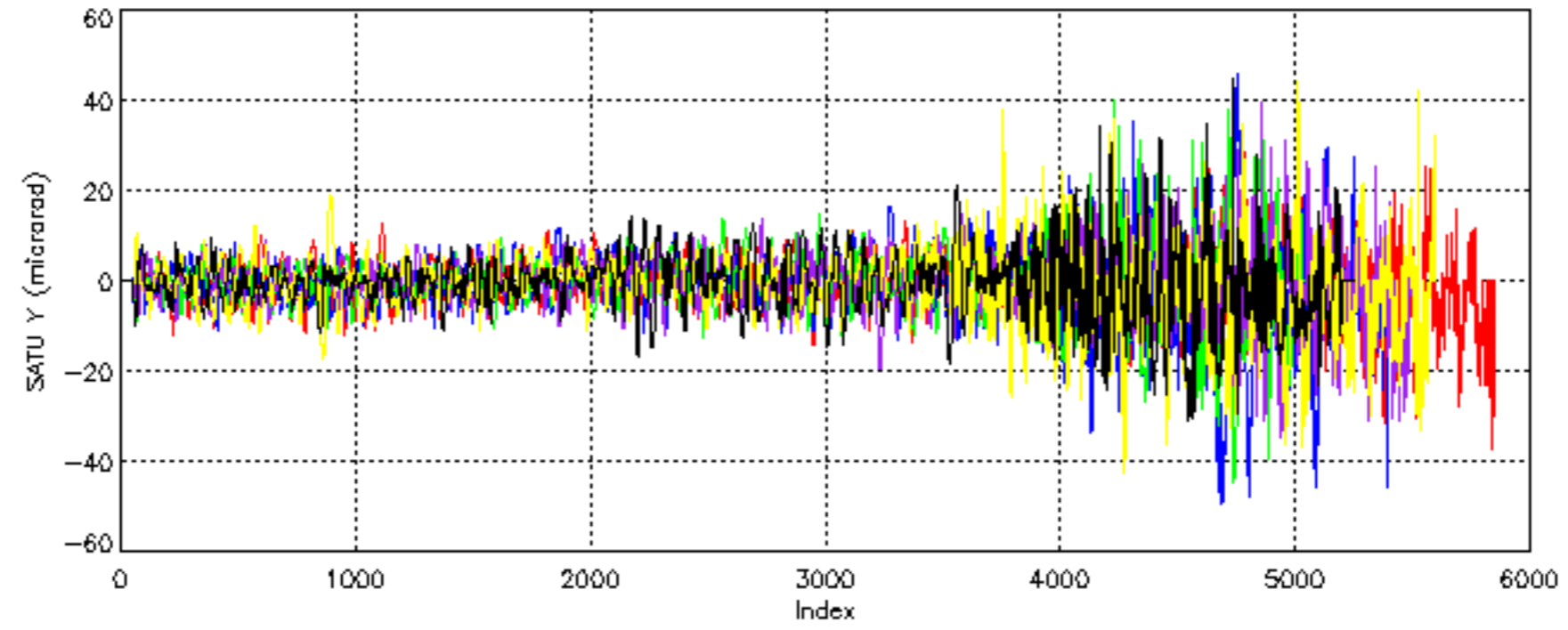
Tangent altitude at which the star is lost

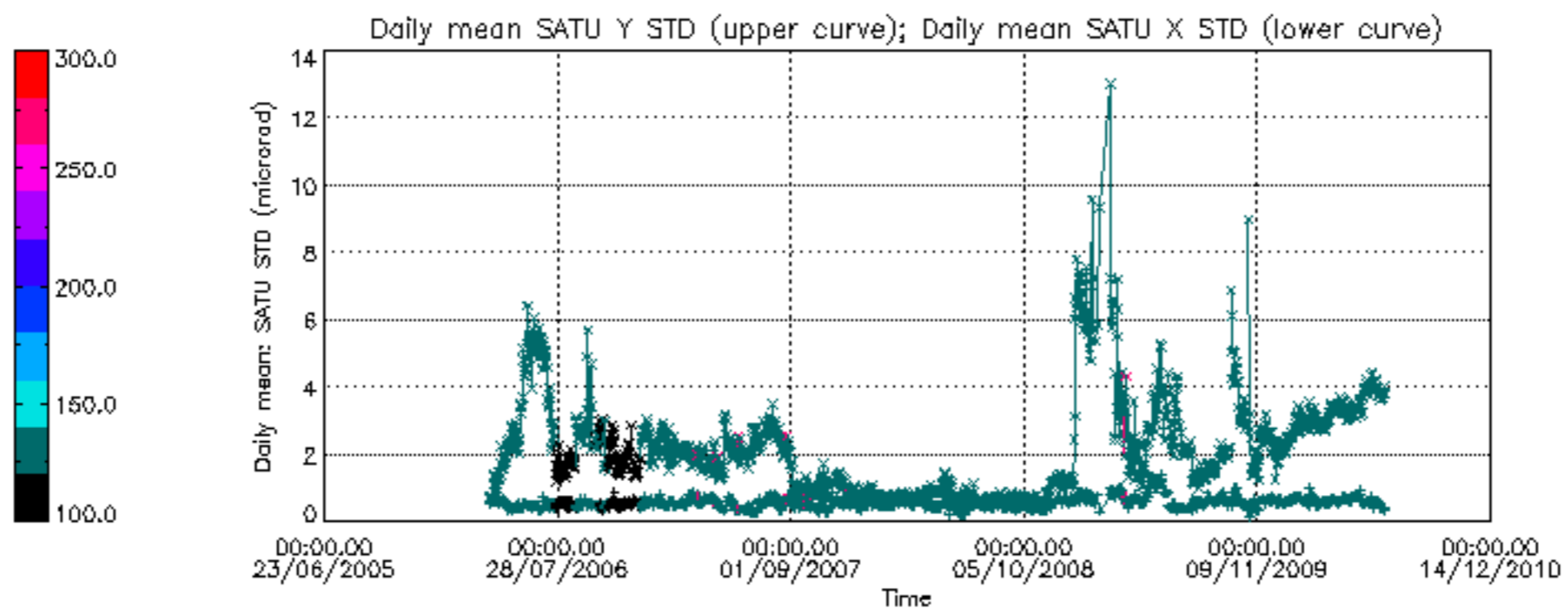


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20100601\_010946\_000092532090\_00002\_43142\_0163.N1

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 4; 187.0; 01-JUN-2010 01:23:38; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;43143  
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 6; 933.8; 01-JUN-2010 01:36:05; Dark ; 40.0; 147; Alp Ara ; 2.88; 26000;occ; 80; 0;43143  
 7; 1034.9; 01-JUN-2010 01:37:46; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;43143  
 8; 1142.8; 01-JUN-2010 01:39:34; Dark ; 49.5; 25; 35Lam Sco ; 1.62; 28000;occ; 99; 0;43143  
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 11; 1497.2; 01-JUN-2010 01:45:29; Bright; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;43143  
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 2; 3629.4; 01-JUN-2010 04:01:37; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;43144  
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 13; 6970.6; 01-JUN-2010 04:57:18; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;43145  
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 22; 8050.5; 01-JUN-2010 05:15:18; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;43145  
 23; 8405.1; 01-JUN-2010 05:21:12; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;43145  
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 25; 9040.7; 01-JUN-2010 05:31:48; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;43145



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8; 77.3; 01-JUN-2010 06:23:37; Dark ; 56.5; 63; Bet Gru ; 2.15; 2800;occ; 113; 0;43146
9; 190.0; 01-JUN-2010 06:25:29; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;43146
10; 488.6; 01-JUN-2010 06:30:28; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43146
11; 935.0; 01-JUN-2010 06:37:54; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;43146
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13; 1144.5; 01-JUN-2010 06:41:24; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;43146
14; 1250.5; 01-JUN-2010 06:43:10; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;43146
15; 1372.9; 01-JUN-2010 06:45:12; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;43146
16; 1497.6; 01-JUN-2010 06:47:17; Bright; 41.0; 80; 7Del Sco ; 2.32; 30000;occ; 82; 0;43146
17; 1590.9; 01-JUN-2010 06:48:50; Bright; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;43146
18; 1702.5; 01-JUN-2010 06:50:42; Bright; 42.0; 98; 13Zet Oph ; 2.57; 30000;occ; 84; 0;43146
19; 1833.8; 01-JUN-2010 06:52:53; Bright; 40.5; 120; 1Del Oph ; 2.73; 3200;occ; 81; 0;43146
20; 2014.5; 01-JUN-2010 06:55:54; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;43146
21; 2368.8; 01-JUN-2010 07:01:48; Bright; 39.5; 67; 5Alp CrB ; 2.22; 11000;occ; 79; 0;43146
22; 2528.1; 01-JUN-2010 07:04:27; Bright; 61.0; 133; 40Zet Her ; 2.81; 6000;occ; 122; 0;43146
23; 3004.5; 01-JUN-2010 07:12:24; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;43146
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6; -643.6; 01-JUN-2010 07:52:12; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;43146
7; -241.5; 01-JUN-2010 07:58:54; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;43146
8; -120.7; 01-JUN-2010 08:00:54; Dark ; 53.5; 18; 24Alp PsA ; 1.17; 9700;occ; 107; 0;43146
9; 78.4; 01-JUN-2010 08:04:14; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;43147
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11; 488.7; 01-JUN-2010 08:11:04; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43147
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5; 2514.6; 03-JUN-2010 07:41:36; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;43175
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9; 4396.6; 03-JUN-2010 08:12:58; Bright; 46.5; 53; 43Bet And ; 2.05; 3300;occ; 93; 0;43175
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 16; 6180.3; 06-JUN-2010 13:50:14; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;43222  
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13; 4631.6; 19-JUN-2010 11:35:12; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;43406  
14; 5381.1; 19-JUN-2010 11:47:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43406  
15; 5616.5; 19-JUN-2010 11:51:37; Dark ; 59.5; 52; 16Bet Cet ; 2.04; 4500;occ; 119; 0;43406  
16; 5975.5; 19-JUN-2010 11:57:36; Dark ; 57.0; 84; Alp Phe ; 2.40; 4500;occ; 114; 0;43406  
17; 6356.9; 19-JUN-2010 12:03:57; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;43407  
18; 6480.1; 19-JUN-2010 12:06:01; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;43407  
19; 6690.8; 19-JUN-2010 12:09:31; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;43407  
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21; 7346.2; 19-JUN-2010 12:20:27; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;43407  
22; 7424.1; 19-JUN-2010 12:21:45; Bright; 45.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 91; 0;43407  
23; 7655.5; 19-JUN-2010 12:25:36; Bright; 20.5; 86; 35Eta Oph ; 2.43; 10200;occ; 41; 0;43407

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3; 2144.7; 19-JUN-2010 12:34:21; Bright; 60.0; 59; 55Alp Oph ; 2.08; 8900;occ; 120; 0;43407  
4; 2274.1; 19-JUN-2010 12:36:30; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;43407  
5; 2451.9; 19-JUN-2010 12:39:28; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;43407  
6; 2849.8; 19-JUN-2010 12:46:06; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;43407  
7; 2956.1; 19-JUN-2010 12:47:52; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;43407  
8; 3458.9; 19-JUN-2010 12:56:15; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;43407  
9; 3860.4; 19-JUN-2010 13:02:57; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;43407  
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14; 4631.9; 19-JUN-2010 13:15:48; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;43407  
15; 5381.7; 19-JUN-2010 13:28:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43407  
16; 5618.1; 19-JUN-2010 13:32:14; Dark ; 57.5; 52; 16Bet Cet ; 2.04; 4500;occ; 115; 0;43407  
17; 5976.5; 19-JUN-2010 13:38:13; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;43407  
18; 6357.6; 19-JUN-2010 13:44:34; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;43408  
19; 6481.0; 19-JUN-2010 13:46:37; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;43408  
20; 6691.9; 19-JUN-2010 13:50:08; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43408  
21; 7259.2; 19-JUN-2010 13:59:35; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;43408  
22; 7347.0; 19-JUN-2010 14:01:03; Dark ; 49.5; 116; 19Del Sgr ; 2.70; 4100;occ; 99; 0;43408

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 3; 2144.8; 19-JUN-2010 14:14:57; Bright; 41.0; 59; 55Alp Oph ; 2.08; 8900;occ; 82; 0;43408  
 4; 2274.1; 19-JUN-2010 14:17:06; Bright; 38.5; 127; 27Bet Her ; 2.78; 4700;occ; 77; 0;43408  
 5; 2451.6; 19-JUN-2010 14:20:04; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;43408  
 6; 2849.8; 19-JUN-2010 14:26:42; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43408  
 7; 2956.1; 19-JUN-2010 14:28:28; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;43408  
 8; 3458.1; 19-JUN-2010 14:36:50; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43408  
 9; 3859.8; 19-JUN-2010 14:43:32; Bright; 46.5; 74; 11Bet Cas ; 2.27; 6600;occ; 93; 0;43408  
 10; 3947.3; 19-JUN-2010 14:44:59; Bright; 46.5; 68; 18Alp Cas ; 2.22; 4500;occ; 93; 0;43408  
 11; 4064.1; 19-JUN-2010 14:46:56; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;43408  
 12; 4270.5; 19-JUN-2010 14:50:23; Bright; 58.0; 73; 57Gam1And ; 2.26; 13100;occ; 116; 0;43408  
 13; 4410.5; 19-JUN-2010 14:52:43; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;43408  
 14; 4632.4; 19-JUN-2010 14:56:25; Dark ; 50.5; 50; 13Alp Ari ; 2.01; 4250;occ; 101; 0;43408  
 15; 5382.4; 19-JUN-2010 15:08:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43408  
 16; 5619.3; 19-JUN-2010 15:12:51; Dark ; 62.5; 52; 16Bet Cet ; 2.04; 4500;occ; 125; 0;43408  
 17; 5977.3; 19-JUN-2010 15:18:49; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;43408  
 18; 6358.9; 19-JUN-2010 15:25:11; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;43409  
 19; 6482.2; 19-JUN-2010 15:27:14; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;43409  
 20; 6692.5; 19-JUN-2010 15:30:45; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;43409  
 21; 7259.6; 19-JUN-2010 15:40:12; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;43409  
 22; 7347.3; 19-JUN-2010 15:41:39; Dark ; 47.0; 116; 19Del Sgr ; 2.70; 4100;occ; 94; 0;43409

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 3; 1996.8; 19-JUN-2010 15:53:05; Bright; 42.0; 126; 60Bet Oph ; 2.77; 4250;occ; 84; 0;43409  
 4; 2144.5; 19-JUN-2010 15:55:33; Bright; 41.5; 59; 55Alp Oph ; 2.08; 8900;occ; 83; 0;43409  
 5; 2274.1; 19-JUN-2010 15:57:42; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;43409  
 6; 2451.4; 19-JUN-2010 16:00:40; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;43409  
 7; 2849.2; 19-JUN-2010 16:07:17; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;43409  
 8; 2955.8; 19-JUN-2010 16:09:04; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;43409  
 9; 3457.2; 19-JUN-2010 16:17:25; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;43409  
 10; 3859.4; 19-JUN-2010 16:24:08; Bright; 65.0; 74; 11Bet Cas ; 2.27; 6600;occ; 130; 0;43409  
 11; 3947.0; 19-JUN-2010 16:25:35; Bright; 64.0; 68; 18Alp Cas ; 2.22; 4500;occ; 128; 0;43409  
 12; 4064.0; 19-JUN-2010 16:27:32; Bright; 33.0; 160; 23Gam Per ; 2.93; 4700;occ; 66; 0;43409  
 13; 4270.6; 19-JUN-2010 16:30:59; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;43409  
 14; 4410.6; 19-JUN-2010 16:33:19; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43409  
 15; 4632.6; 19-JUN-2010 16:37:01; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;43409  
 16; 5383.0; 19-JUN-2010 16:49:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43409  
 17; 5620.5; 19-JUN-2010 16:53:29; Dark ; 60.0; 52; 16Bet Cet ; 2.04; 4500;occ; 120; 0;43409  
 18; 5978.2; 19-JUN-2010 16:59:26; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;43409  
 19; 6360.2; 19-JUN-2010 17:05:48; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;43410  
 20; 6483.3; 19-JUN-2010 17:07:51; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;43410  
 21; 6693.0; 19-JUN-2010 17:11:21; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43410

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 3; 1619.9; 19-JUN-2010 17:27:24; Bright; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;43410  
 4; 1996.5; 19-JUN-2010 17:33:41; Bright; 41.5; 126; 60Bet Oph ; 2.77; 4250;occ; 83; 0;43410  
 5; 2144.2; 19-JUN-2010 17:36:08; Bright; 45.5; 59; 55Alp Oph ; 2.08; 8900;occ; 91; 0;43410  
 6; 2274.2; 19-JUN-2010 17:38:18; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;43410  
 7; 2451.3; 19-JUN-2010 17:41:15; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;43410  
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 9; 2955.8; 19-JUN-2010 17:49:40; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;43410  
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 13; 4064.0; 19-JUN-2010 18:08:08; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;43410  
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 16; 4632.9; 19-JUN-2010 18:17:37; Dark ; 49.0; 50; 13Alp Ari ; 2.01; 4250;occ; 98; 0;43410  
 17; 5383.6; 19-JUN-2010 18:30:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43410  
 18; 5621.5; 19-JUN-2010 18:34:06; Dark ; 61.0; 52; 16Bet Cet ; 2.04; 4500;occ; 122; 0;43410  
 19; 5979.0; 19-JUN-2010 18:40:03; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;43410  
 20; 6361.0; 19-JUN-2010 18:46:25; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;43411  
 21; 6484.3; 19-JUN-2010 18:48:28; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;43411  
 22; 6693.4; 19-JUN-2010 18:51:57; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43411

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3; 1620.2; 19-JUN-2010 19:08:00; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;43411  
4; 1996.7; 19-JUN-2010 19:14:17; Bright; 42.5; 126; 60Bet Oph ; 2.77; 4250;occ; 85; 0;43411  
5; 2144.0; 19-JUN-2010 19:16:44; Bright; 42.0; 59; 55Alp Oph ; 2.08; 8900;occ; 84; 0;43411  
6; 2274.0; 19-JUN-2010 19:18:54; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;43411  
7; 2451.1; 19-JUN-2010 19:21:51; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;43411  
8; 2848.5; 19-JUN-2010 19:28:29; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43411  
9; 2955.8; 19-JUN-2010 19:30:16; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;43411  
10; 3455.7; 19-JUN-2010 19:38:36; Bright; 48.5; 89; 5Alp Cep ; 2.45; 8000;occ; 97; 0;43411  
11; 3858.8; 19-JUN-2010 19:45:19; Bright; 47.0; 74; 11Bet Cas ; 2.27; 6600;occ; 94; 0;43411  
12; 3946.2; 19-JUN-2010 19:46:46; Bright; 43.5; 68; 18Alp Cas ; 2.22; 4500;occ; 87; 0;43411  
13; 4064.0; 19-JUN-2010 19:48:44; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;43411  
14; 4270.4; 19-JUN-2010 19:52:10; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;43411  
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17; 5384.1; 19-JUN-2010 20:10:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43411  
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19; 5979.8; 19-JUN-2010 20:20:40; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;43411  
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21; 6485.0; 19-JUN-2010 20:29:05; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;43412  
22; 6694.1; 19-JUN-2010 20:32:34; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43412

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12; 3945.8; 19-JUN-2010 21:27:22; Bright; 45.5; 68; 18Alp Cas ; 2.22; 4500;occ; 91; 0;43412  
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7; 1225.1; 19-JUN-2010 22:22:37; Dark ; 48.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 97; 0;43413  
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2; 2136.2; 22-JUN-2010 10:59:21; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;43449  
3; 2447.7; 22-JUN-2010 11:04:33; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;43449  
4; 2726.5; 22-JUN-2010 11:09:12; Bright; 52.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 104; 0;43449  
5; 2836.7; 22-JUN-2010 11:11:02; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;43449  
6; 3429.6; 22-JUN-2010 11:20:55; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;43449  
7; 3843.4; 22-JUN-2010 11:27:49; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;43449  
8; 3934.4; 22-JUN-2010 11:29:20; Bright; 46.0; 68; 18Alp Cas ; 2.22; 4500;occ; 92; 0;43449  
9; 4064.6; 22-JUN-2010 11:31:30; Bright; 37.0; 160; 23Gam Per ; 2.93; 4700;occ; 74; 0;43449



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11; 4414.2; 22-JUN-2010 11:37:19; Dark ; 48.0; 173; 4Bet Tri ; 3.00; 8900;occ; 96; 0;43449
12; 4642.4; 22-JUN-2010 11:41:08; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;43449
13; 5407.5; 22-JUN-2010 11:53:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43449
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16; 6399.5; 22-JUN-2010 12:10:25; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;43450
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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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21; 7490.5; 22-JUN-2010 12:28:36; Bright; 51.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 102; 0;43450
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 2; 1990.7; 22-JUN-2010 12:37:32; Bright; 40.5; 126; 60Bet Oph ; 2.77; 4250;occ; 81; 0;43450
 3; 2135.6; 22-JUN-2010 12:39:57; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;43450
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 5; 2725.8; 22-JUN-2010 12:49:47; Bright; 52.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 105; 0;43450
 6; 2836.4; 22-JUN-2010 12:51:37; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;43450
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12; 4414.3; 22-JUN-2010 13:17:55; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43450
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16; 5671.7; 22-JUN-2010 13:38:53; Dark ; 26.0; 52; 16Bet Cet ; 2.04; 4500;occ; 52; 0;43450
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19; 6716.1; 22-JUN-2010 13:56:17; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43451
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 3; 1455.7; 22-JUN-2010 20:51:36; Bright; 51.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 102; 0;43455
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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
 6; 2135.1; 22-JUN-2010 21:02:56; Bright; 42.0; 59; 55Alp Oph ; 2.08; 8900;occ; 84; 0;43455
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13; 4064.9; 22-JUN-2010 21:35:06; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43455
14; 4270.1; 22-JUN-2010 21:38:31; Bright; 55.0; 73; 57Gam1And ; 2.26; 13100;occ; 110; 0;43455
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16; 4644.2; 22-JUN-2010 21:44:45; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;43455
17; 4933.3; 22-JUN-2010 21:49:34; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;43455
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 5; 682.9; 22-JUN-2010 22:19:20; Dark ; 50.0; 45; Alp Pav ; 1.94; 26000;occ; 100; 0;43456
 6; 1239.5; 22-JUN-2010 22:28:36; Dark ; 45.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 91; 0;43456
 7; 1325.1; 22-JUN-2010 22:30:02; Dark ; 47.0; 116; 19Del Sgr ; 2.70; 4100;occ; 94; 0;43456
 8; 1455.9; 22-JUN-2010 22:32:13; Bright; 51.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 103; 0;43456
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10; 1989.7; 22-JUN-2010 22:41:06; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;43456
11; 2134.7; 22-JUN-2010 22:43:31; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;43456
12; 2447.4; 22-JUN-2010 22:48:44; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;43456
13; 2721.7; 22-JUN-2010 22:53:18; Bright; 44.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 88; 0;43456

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 15; 3425.0; 22-JUN-2010 23:05:02; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;43456  
 16; 3840.5; 22-JUN-2010 23:11:57; Bright; 67.0; 74; 11Bet Cas ; 2.27; 6600;occ; 134; 0;43456  
 17; 3931.9; 22-JUN-2010 23:13:29; Bright; 65.0; 68; 18Alp Cas ; 2.22; 4500;occ; 130; 0;43456  
 18; 4064.5; 22-JUN-2010 23:15:41; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;43456  
 19; 4270.6; 22-JUN-2010 23:19:07; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;43456  
 20; 4414.5; 22-JUN-2010 23:21:31; Dark ; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;43456  
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 5; 683.5; 22-JUN-2010 23:59:56; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43457  
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 7; 1325.1; 23-JUN-2010 00:10:38; Dark ; 49.5; 116; 19Del Sgr ; 2.70; 4100;occ; 99; 0;43457  
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 10; 1989.6; 23-JUN-2010 00:21:42; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;43457  
 11; 2134.7; 23-JUN-2010 00:24:07; Bright; 41.5; 59; 55Alp Oph ; 2.08; 8900;occ; 83; 0;43457  
 12; 2447.3; 23-JUN-2010 00:29:20; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;43457  
 13; 2720.9; 23-JUN-2010 00:33:53; Bright; 51.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 103; 0;43457  
 14; 2834.6; 23-JUN-2010 00:35:47; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;43457  
 15; 3424.4; 23-JUN-2010 00:45:37; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43457  
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 17; 3931.7; 23-JUN-2010 00:54:04; Bright; 58.0; 68; 18Alp Cas ; 2.22; 4500;occ; 116; 0;43457  
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 19; 4270.4; 23-JUN-2010 00:59:43; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;43457  
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 21; 4644.8; 23-JUN-2010 01:05:57; Dark ; 46.0; 50; 13Alp Ari ; 2.01; 4250;occ; 92; 0;43457  
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 22; 5413.3; 23-JUN-2010 02:59:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43458  
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 27; 7276.4; 23-JUN-2010 03:30:25; Dark ; 46.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 93; 0;43459  
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 31; 8169.8; 23-JUN-2010 03:45:18; Bright; 41.5; 59; 55Alp Oph ; 2.08; 8900;occ; 83; 0;43459  
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 33; 8755.5; 23-JUN-2010 03:55:04; Bright; 49.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 98; 0;43459  
 34; 8869.6; 23-JUN-2010 03:56:58; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;43459

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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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