

# GOMOS Daily Report 12-APR-2009

## 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	15APR2009 05:41:12
Data source version	GOMOS/5.00
Start time of products	12APR2009 00:27:58
Stop time of products	12APR2009 21:44:31
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

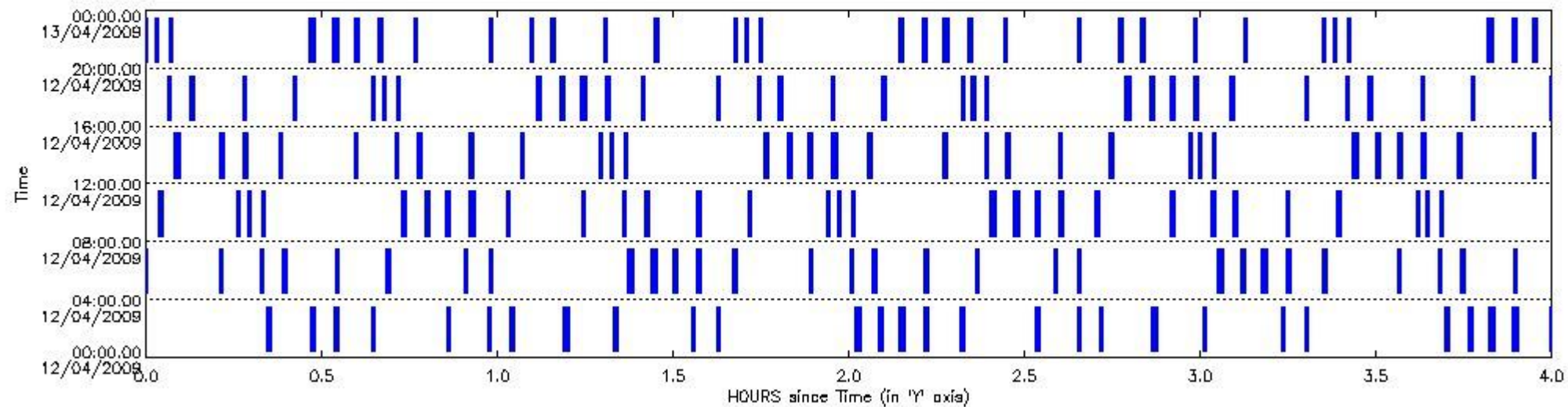
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

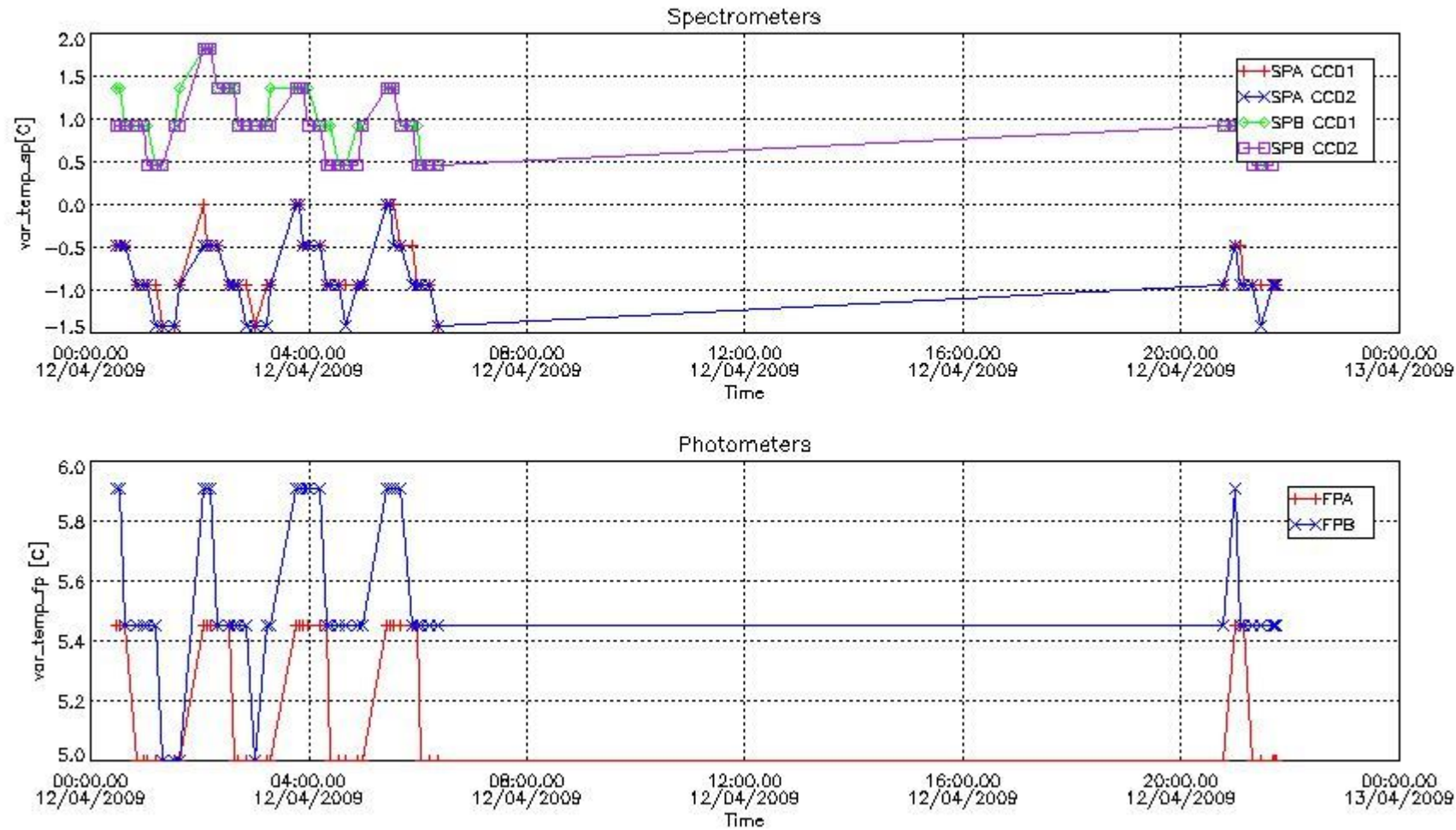
No missing products.

### 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_1PNPDE20090412_002758_000000552078_00074_37202_0796.N1	12-APR-2009 00:27:58	Dark	55.000	38	20Eps Sgr	1.8360	11000.	110	37202	No
2	GOM_TRA_1PNPDE20090412_003204_000000542078_00074_37202_0797.N1	12-APR-2009 00:32:04	Dark	54.000	25	35Lam Sco	1.6200	28000.	108	37202	No
3	GOM_TRA_1PNPDE20090412_003821_000000422078_00074_37202_0798.N1	12-APR-2009 00:38:21	Straylight	42.000	131	Gam Lup	2.8000	26000.	84	37202	No
4	GOM_TRA_1PNPDE20090412_005117_000000372078_00074_37202_0799.N1	12-APR-2009 00:51:17	Bright	37.000	15	67Alp Vir	0.97600	28000.	74	37202	No
5	GOM_TRA_1PNPDE20090412_005819_000000372078_00074_37202_0800.N1	12-APR-2009 00:58:19	Bright	37.000	138	47Eps Vir	2.8280	4700.0	74	37202	No
6	GOM_TRA_1PNPDE20090412_010204_000000472078_00074_37202_0801.N1	12-APR-2009 01:02:04	Bright	46.500	111	8Eta Boo	2.6800	6000.0	93	37202	No
7	GOM_TRA_1PNPDE20090412_011103_000000632078_00074_37202_0802.N1	12-APR-2009 01:11:03	Bright	63.000	39	85Eta UMa	1.8540	24000.	126	37202	No
8	GOM_TRA_1PNPDE20090412_011943_000000412078_00074_37202_0803.N1	12-APR-2009 01:19:43	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	37202	No
9	GOM_TRA_1PNPDE20090412_013310_000000342078_00074_37202_0804.N1	12-APR-2009 01:33:10	Bright	34.000	19	50Alp Cyg	1.2460	10500.	68	37202	No
10	GOM_TRA_1PNPDE20090412_013718_000000352078_00074_37202_0805.N1	12-APR-2009 01:37:18	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	37202	No
11	GOM_TRA_1PNPDE20090412_020458_000000502078_00075_37203_0939.N1	12-APR-2009 02:04:58	Dark	49.500	103	38Zet Sgr	2.6000	9700.0	99	37203	No
12	GOM_TRA_1PNPDE20090412_020836_000000552078_00075_37203_0940.N1	12-APR-2009 02:08:36	Dark	55.000	38	20Eps Sgr	1.8360	11000.	110	37203	No

13	GOM_TRA_1PNPDE20090412_021241_000000542078_00075_37203_0941.N1	12-APR-2009 02:12:41	Dark	53.500	25	35Lam Sco	1.6200	28000.	107	37203	No
14	GOM_TRA_1PNPDE20090412_021858_000000422078_00075_37203_0942.N1	12-APR-2009 02:18:58	Straylight	42.000	131	Gam Lup	2.8000	26000.	84	37203	No
15	GOM_TRA_1PNPDE20090412_023153_000000372078_00075_37203_0943.N1	12-APR-2009 02:31:53	Bright	37.000	15	67Alp Vir	0.97600	28000.	74	37203	No
16	GOM_TRA_1PNPDE20090412_023854_000000382078_00075_37203_0944.N1	12-APR-2009 02:38:54	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	37203	No
17	GOM_TRA_1PNPDE20090412_024239_000000462078_00075_37203_0945.N1	12-APR-2009 02:42:39	Bright	46.000	111	8Eta Boo	2.6800	6000.0	92	37203	No
18	GOM_TRA_1PNPDE20090412_025139_000000582078_00075_37203_0946.N1	12-APR-2009 02:51:39	Bright	58.000	39	85Eta UMa	1.8540	24000.	116	37203	No
19	GOM_TRA_1PNPDE20090412_030019_000000412078_00075_37203_0947.N1	12-APR-2009 03:00:19	Bright	41.000	119	14Eta Dra	2.7270	4700.0	82	37203	No
20	GOM_TRA_1PNPDE20090412_031346_000000342078_00075_37203_1070.N1	12-APR-2009 03:13:46	Bright	34.000	19	50Alp Cyg	1.2460	10500.	68	37203	No
21	GOM_TRA_1PNPDE20090412_031754_000000362078_00075_37203_1071.N1	12-APR-2009 03:17:54	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	37203	No
22	GOM_TRA_1PNPDE20090412_034535_000000552078_00076_37204_1072.N1	12-APR-2009 03:45:35	Dark	54.500	103	38Zet Sgr	2.6000	9700.0	109	37204	No
23	GOM_TRA_1PNPDE20090412_034913_000000562078_00076_37204_1073.N1	12-APR-2009 03:49:13	Dark	55.500	38	20Eps Sgr	1.8360	11000.	111	37204	No
24	GOM_TRA_1PNPDE20090412_035318_000000542078_00076_37204_1074.N1	12-APR-2009 03:53:18	Dark	54.000	25	35Lam Sco	1.6200	28000.	108	37204	No
25	GOM_TRA_1PNPDE20090412_035935_000000422078_00076_37204_1075.N1	12-APR-2009 03:59:35	Straylight	42.000	131	Gam Lup	2.8000	26000.	84	37204	No
26	GOM_TRA_1PNPDE20090412_041230_000000362078_00076_37204_1076.N1	12-APR-2009 04:12:30	Bright	36.000	15	67Alp Vir	0.97600	28000.	72	37204	No
27	GOM_TRA_1PNPDE20090412_041930_000000372078_00076_37204_1077.N1	12-APR-2009 04:19:30	Bright	36.500	138	47Eps Vir	2.8280	4700.0	73	37204	No
28	GOM_TRA_1PNPDE20090412_042315_000000462078_00076_37204_1078.N1	12-APR-2009 04:23:15	Bright	45.500	111	8Eta Boo	2.6800	6000.0	91	37204	No
29	GOM_TRA_1PNPDE20090412_043214_000000412078_00076_37204_1079.N1	12-APR-2009 04:32:14	Bright	40.500	39	85Eta UMa	1.8540	24000.	81	37204	No
30	GOM_TRA_1PNPDE20090412_044054_000000402078_00076_37204_1080.N1	12-APR-2009 04:40:54	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	37204	No
31	GOM_TRA_1PNPDE20090412_045422_000000332078_00076_37204_1283.N1	12-APR-2009 04:54:22	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	37204	No
32	GOM_TRA_1PNPDE20090412_045830_000000352078_00076_37204_1284.N1	12-APR-2009 04:58:30	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	37204	No
33	GOM_TRA_1PNPDE20090412_052612_000000542078_00077_37205_1285.N1	12-APR-2009 05:26:12	Dark	54.000	103	38Zet Sgr	2.6000	9700.0	108	37205	No
34	GOM_TRA_1PNPDE20090412_052951_000000552078_00077_37205_1286.N1	12-APR-2009 05:29:51	Dark	54.500	38	20Eps Sgr	1.8360	11000.	109	37205	No
35	GOM_TRA_1PNPDE20090412_053356_000000532078_00077_37205_1287.N1	12-APR-2009 05:33:56	Dark	53.000	25	35Lam Sco	1.6200	28000.	106	37205	No
36	GOM_TRA_1PNPDE20090412_054011_000000412078_00077_37205_1288.N1	12-APR-2009 05:40:11	Straylight	41.000	131	Gam Lup	2.8000	26000.	82	37205	No
37	GOM_TRA_1PNPDE20090412_055305_000000372078_00077_37205_1289.N1	12-APR-2009 05:53:05	Bright	36.500	15	67Alp Vir	0.97600	28000.	73	37205	No
38	GOM_TRA_1PNPDE20090412_060006_000000372078_00077_37205_1290.N1	12-APR-2009 06:00:06	Bright	36.500	138	47Eps Vir	2.8280	4700.0	73	37205	No
39	GOM_TRA_1PNPDE20090412_060350_000000462078_00077_37205_1291.N1	12-APR-2009 06:03:50	Bright	45.500	111	8Eta Boo	2.6800	6000.0	91	37205	No
40	GOM_TRA_1PNPDE20090412_061250_000000392078_00077_37205_1292.N1	12-APR-2009 06:12:50	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	37205	No
41	GOM_TRA_1PNPDE20090412_062129_000000402078_00077_37205_1293.N1	12-APR-2009 06:21:29	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	37205	No
42	GOM_TRA_1PNPDE20090412_204541_000000412078_00086_37214_1703.N1	12-APR-2009 20:45:41	Straylight	40.500	131	Gam Lup	2.8000	26000.	81	37214	Yes
43	GOM_TRA_1PNPDE20090412_205829_000000362078_00086_37214_1704.N1	12-APR-2009 20:58:29	Bright	35.500	15	67Alp Vir	0.97600	28000.	71	37214	No
44	GOM_TRA_1PNPDE20090412_210528_000000362078_00086_37214_1705.N1	12-APR-2009 21:05:28	Bright	36.000	138	47Eps Vir	2.8280	4700.0	72	37214	No
45	GOM_TRA_1PNPDE20090412_210908_000000452078_00086_37214_1706.N1	12-APR-2009 21:09:08	Bright	44.500	111	8Eta Boo	2.6800	6000.0	89	37214	No
46	GOM_TRA_1PNPDE20090412_211808_000000392078_00086_37214_1707.N1	12-APR-2009 21:18:08	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	37214	No
47	GOM_TRA_1PNPDE20090412_212646_000000412078_00086_37214_1708.N1	12-APR-2009 21:26:46	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	37214	No
48	GOM_TRA_1PNPDE20090412_214020_000000342078_00086_37214_1709.N1	12-APR-2009 21:40:20	Bright	33.500	19	50Alp Cyg	1.2460	10500.	67	37214	No
49	GOM_TRA_1PNPDE20090412_214205_000000372078_00086_37214_1710.N1	12-APR-2009 21:42:05	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	37214	No
50	GOM_TRA_1PNPDE20090412_214431_000000342078_00086_37214_1711.N1	12-APR-2009 21:44:31	Bright	34.000	92	53Eps Cyg	2.5000	4500.0	68	37214	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).

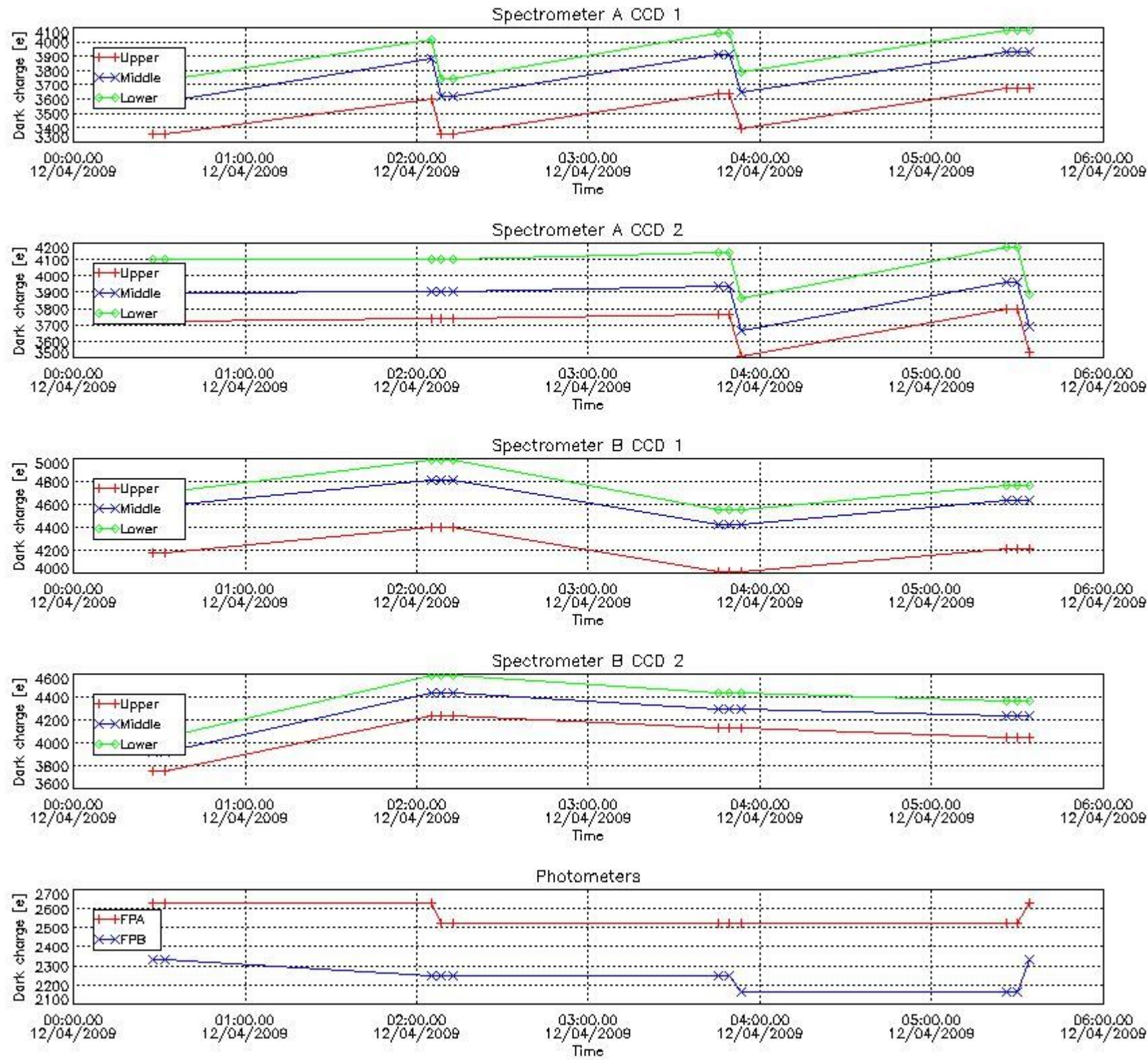
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090412_204541_000000412078_00086_37214_1703.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090412_205829_000000362078_00086_37214_1704.N1	DC map used
GOM_TRA_1PNPDE20090412_210528_000000362078_00086_37214_1705.N1	DC map used
GOM_TRA_1PNPDE20090412_210908_000000452078_00086_37214_1706.N1	DC map used
GOM_TRA_1PNPDE20090412_211808_000000392078_00086_37214_1707.N1	DC map used
GOM_TRA_1PNPDE20090412_212646_000000412078_00086_37214_1708.N1	DC map used
GOM_TRA_1PNPDE20090412_214020_000000342078_00086_37214_1709.N1	DC map used
GOM_TRA_1PNPDE20090412_214205_000000372078_00086_37214_1710.N1	DC map used
GOM_TRA_1PNPDE20090412_214431_000000342078_00086_37214_1711.N1	DC map used

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





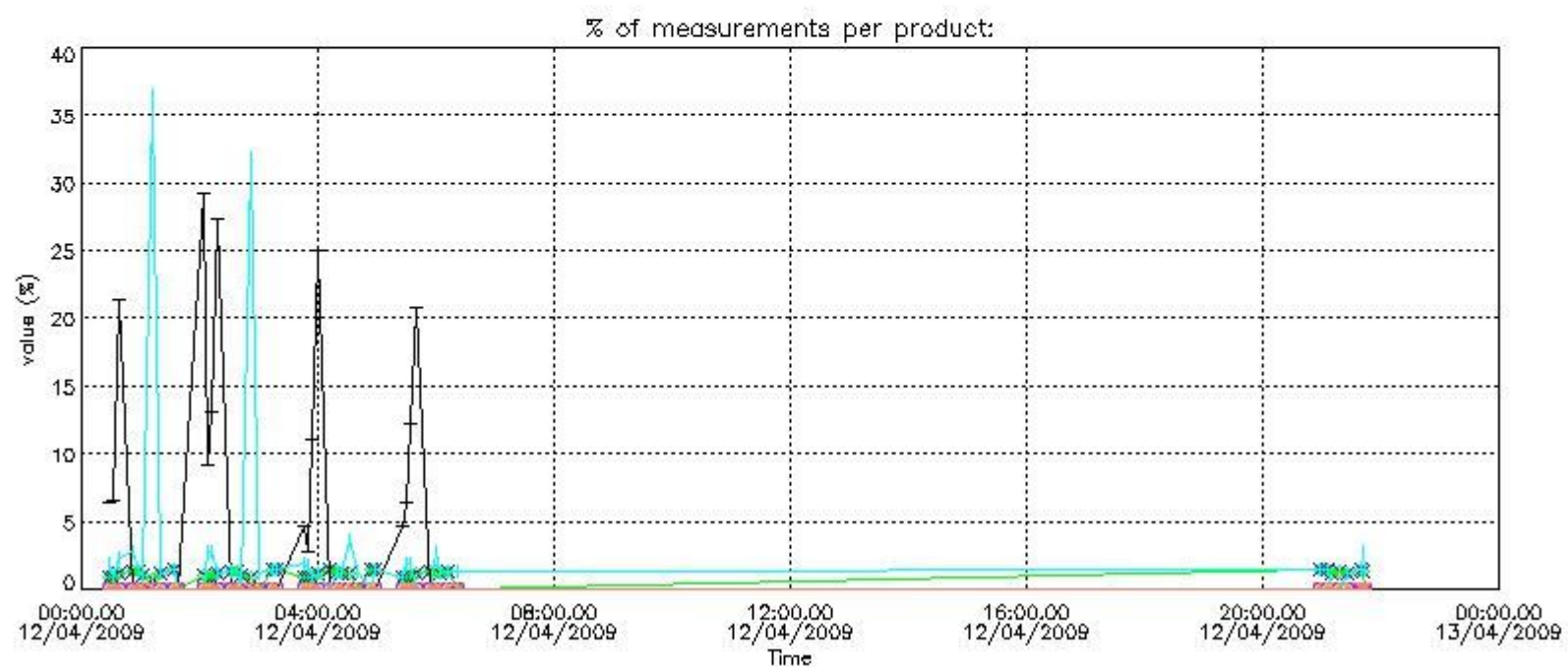
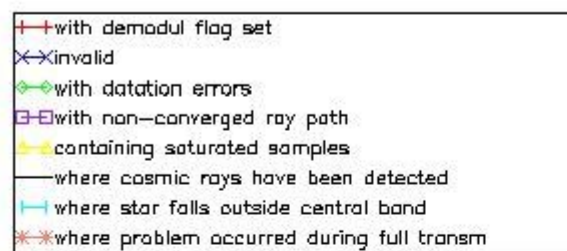
## 5. Demodulation flag and quality information monitoring

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:

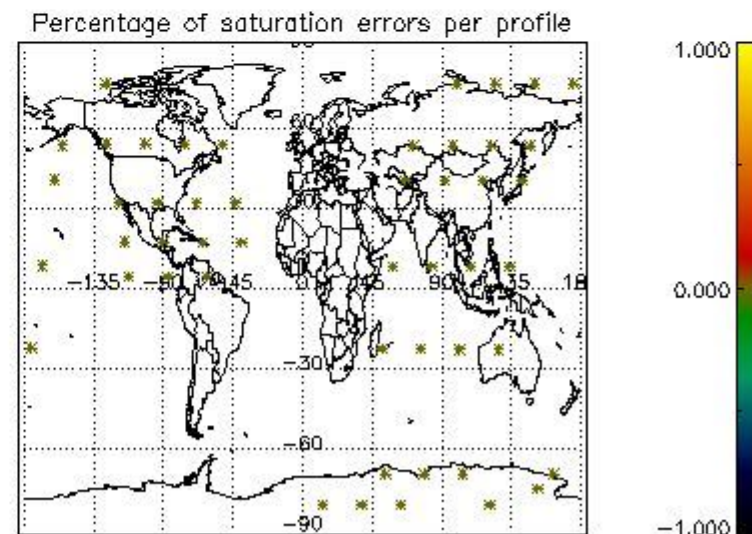
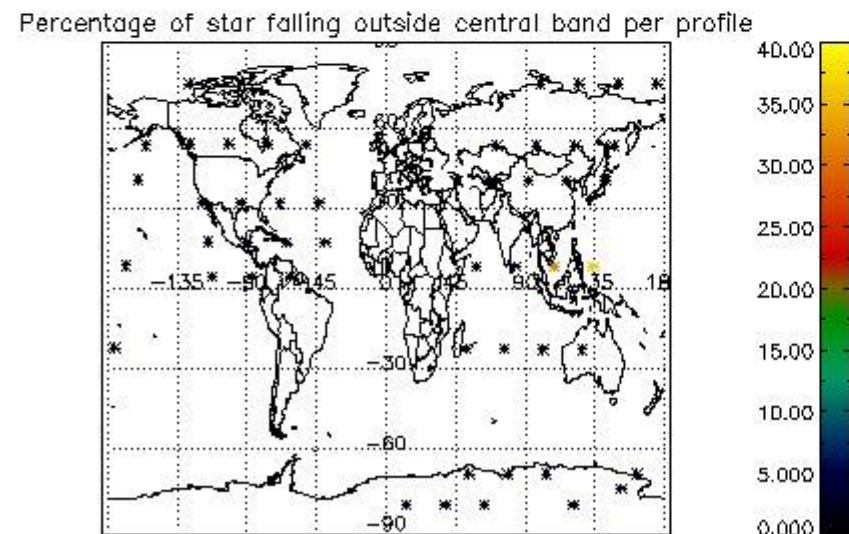
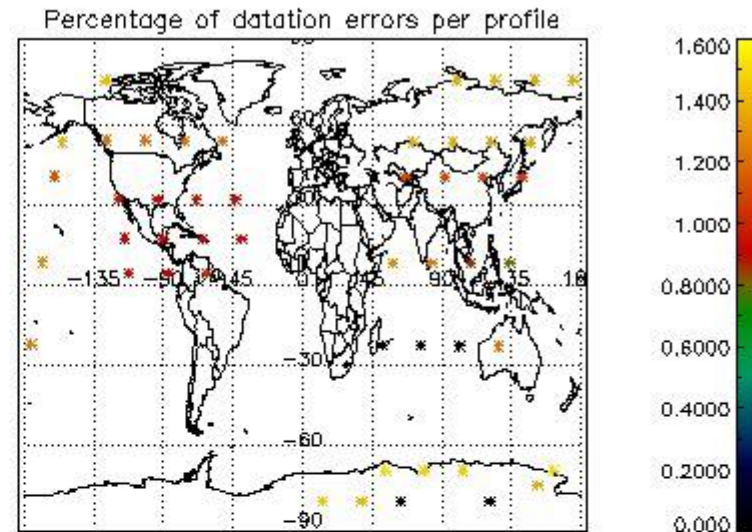
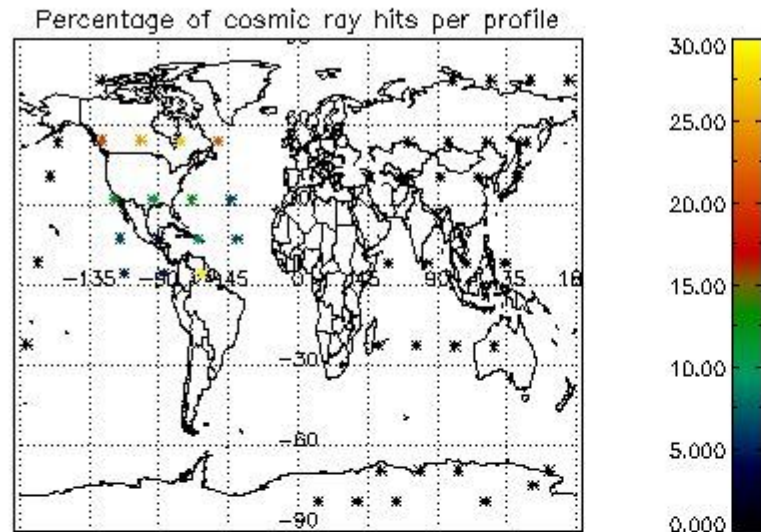
At least one measurement with demodulation flag set:	10.2041 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





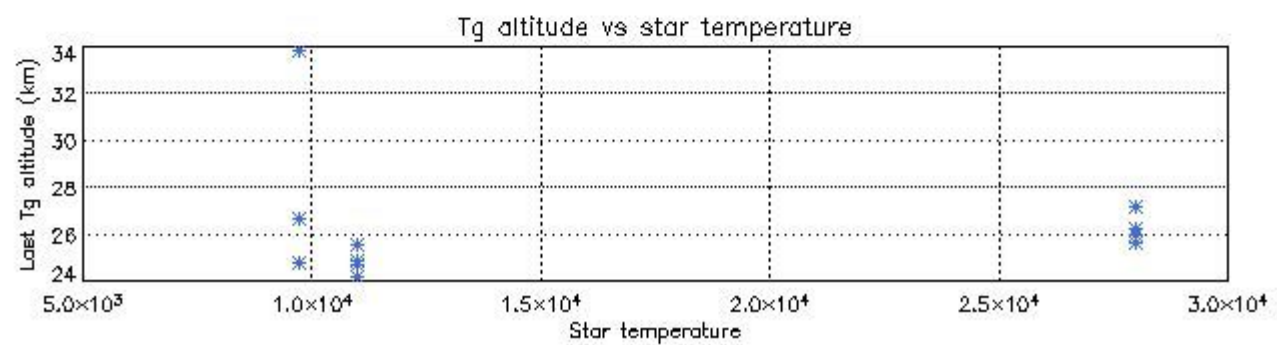
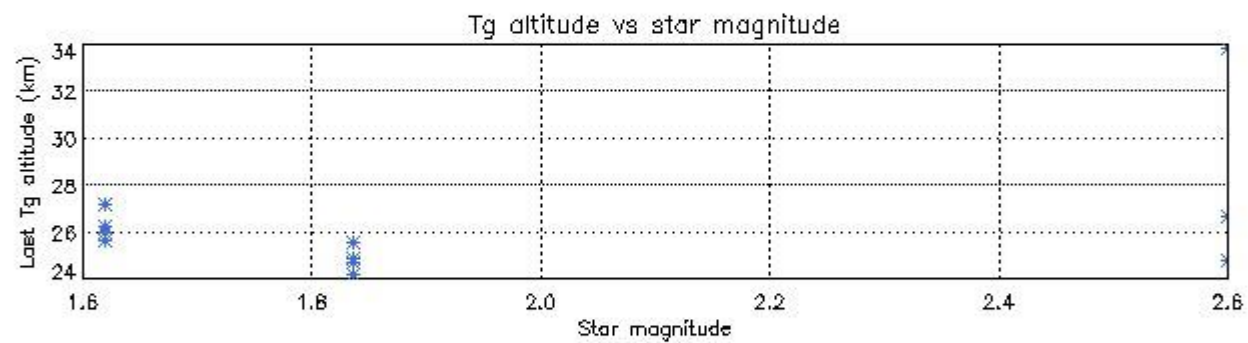
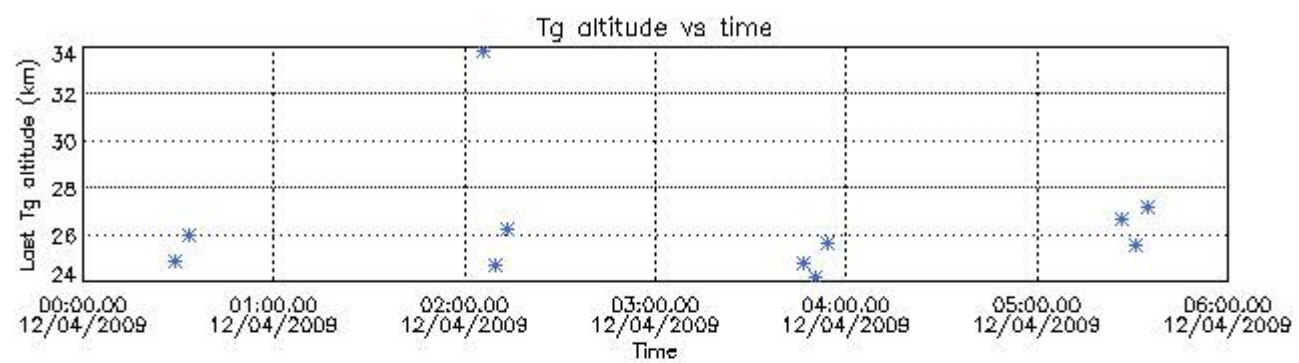
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	26.322	32.965	NaN
St. deviation:	2.6620	10.663	NaN
Maximum:	33.858	49.707	NaN
Minimum:	24.147	3.3341	NaN
Number of data:	11.000	34.000	NaN

### 6.2 Plot for DARK limb products

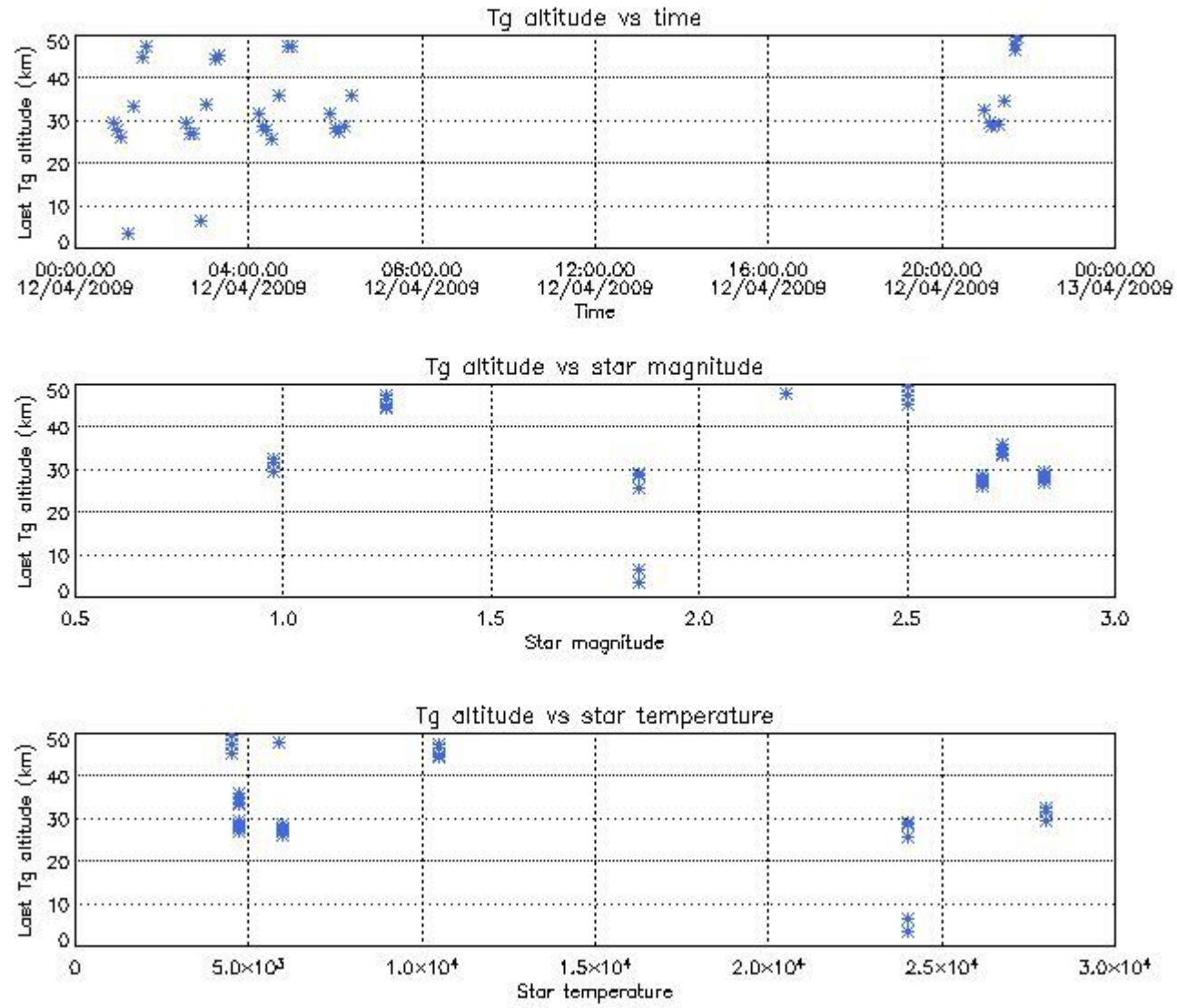
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

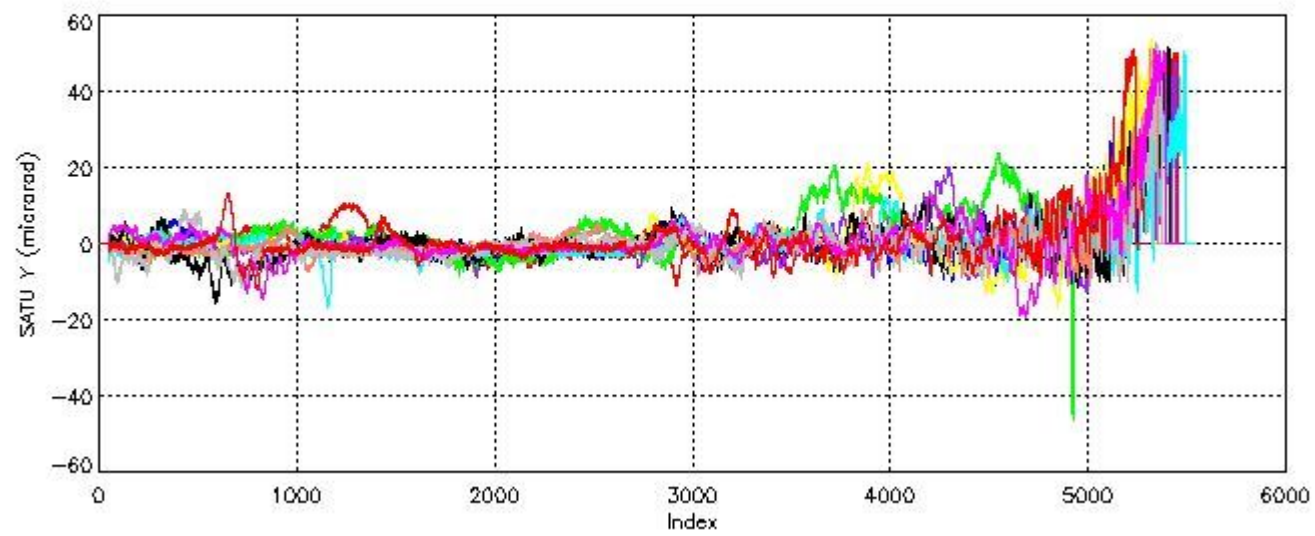
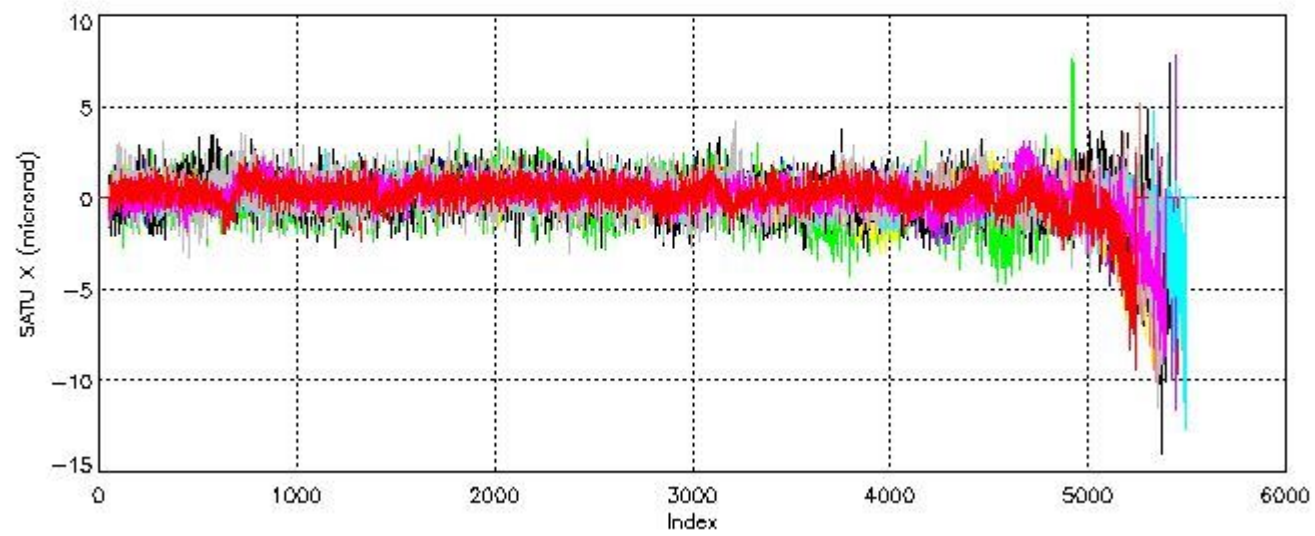


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.24686	-0.54312	0.29850	-1.0418
St. deviation:	0.64072	2.5819	0.63521	1.3168
Maximum:	3.5000	13.400	3.3000	7.5000
Minimum:	-3.3000	-16.600	-2.8000	-13.100

Number of data:	15800.	15800.	35700.	35700.
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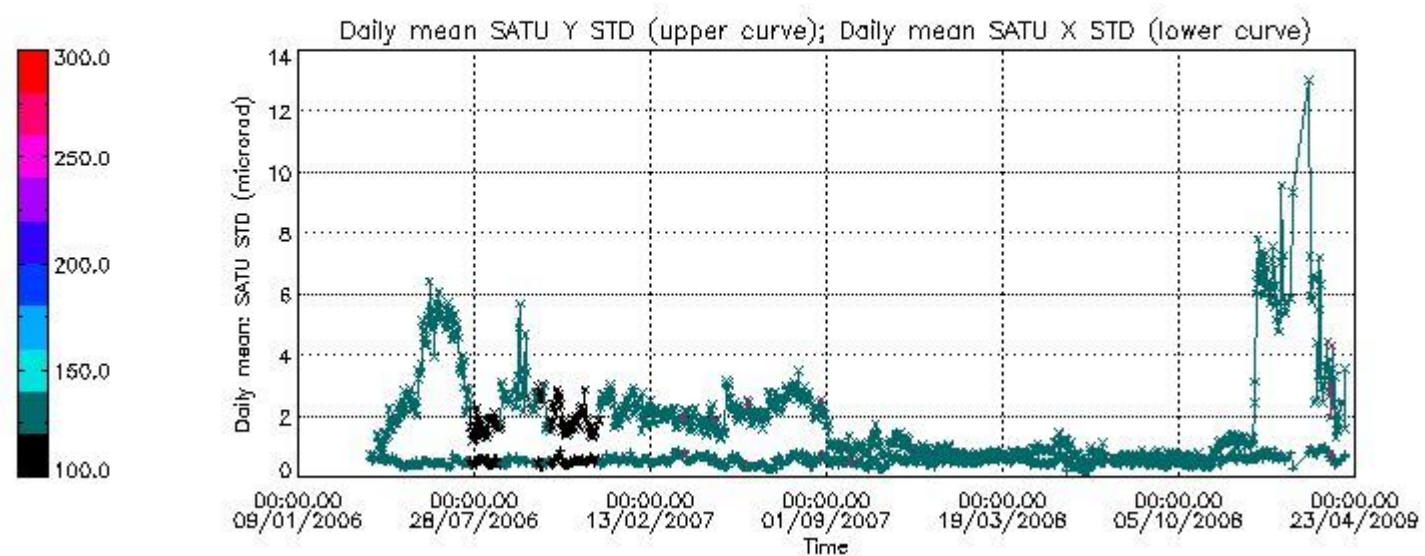
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

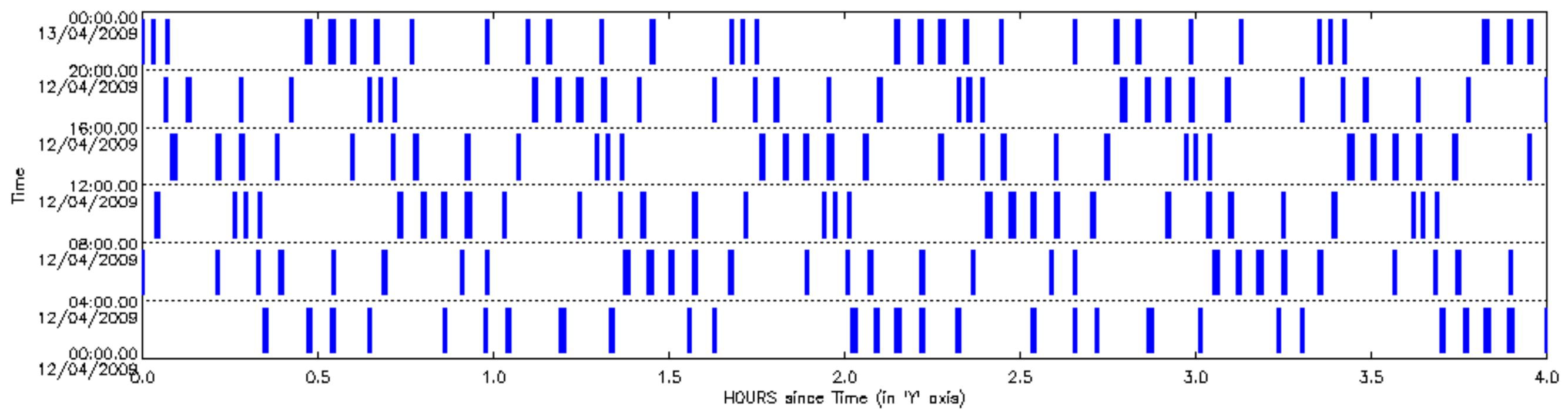


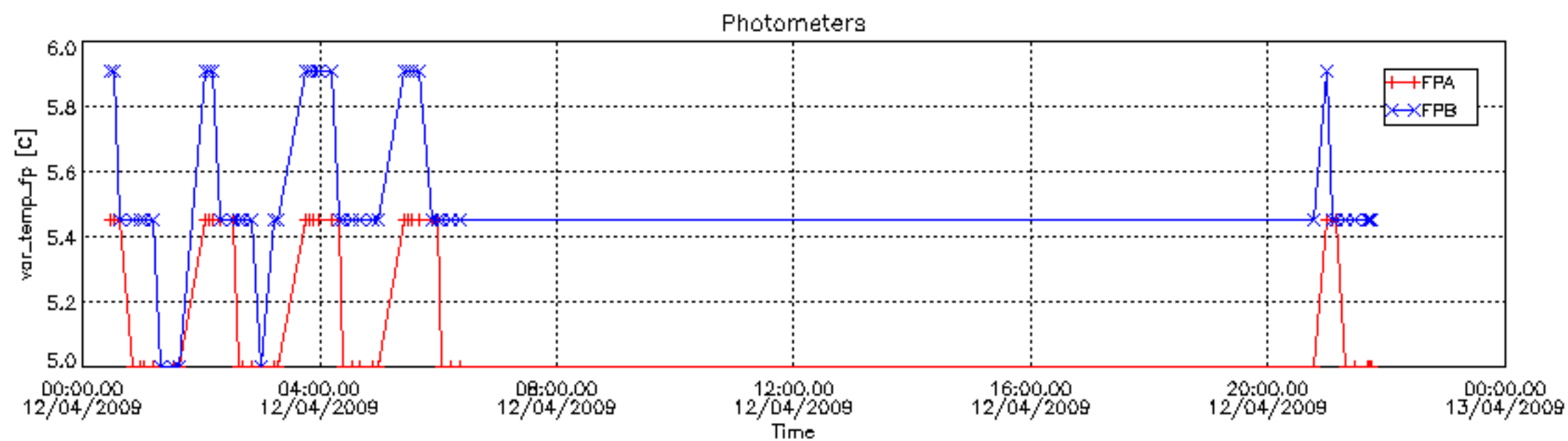
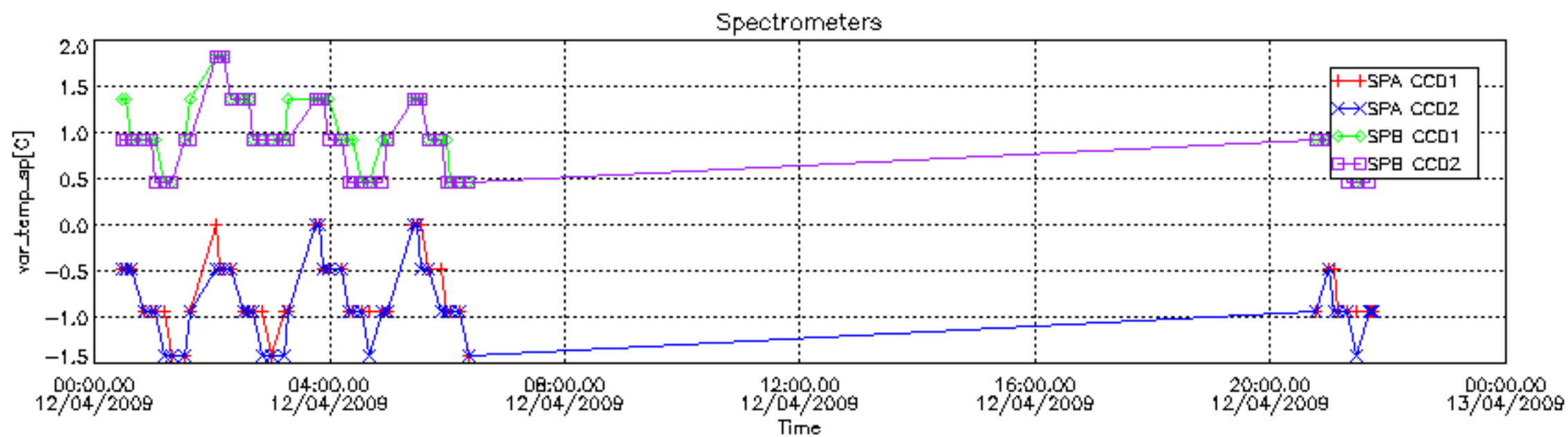
### 8. Auxiliary Data Files used for the production reported in section 2.4

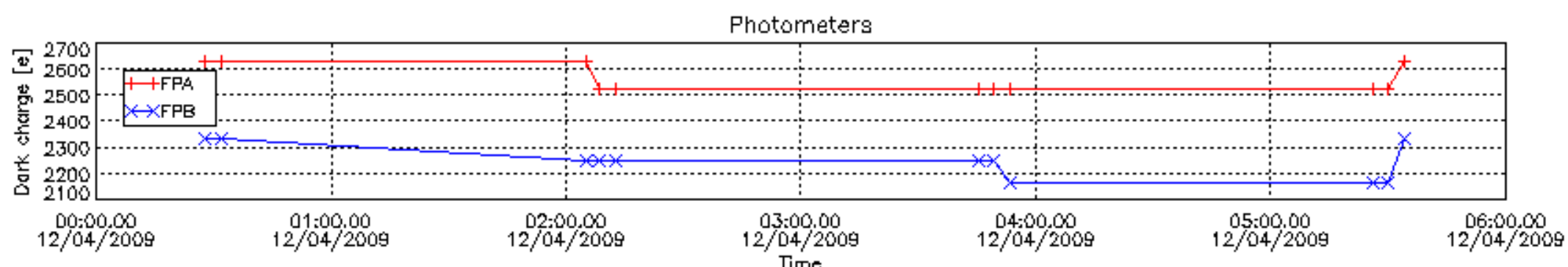
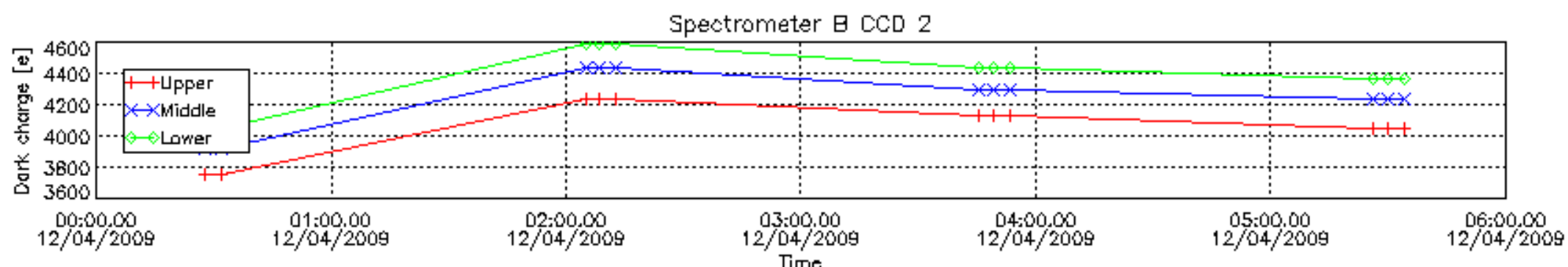
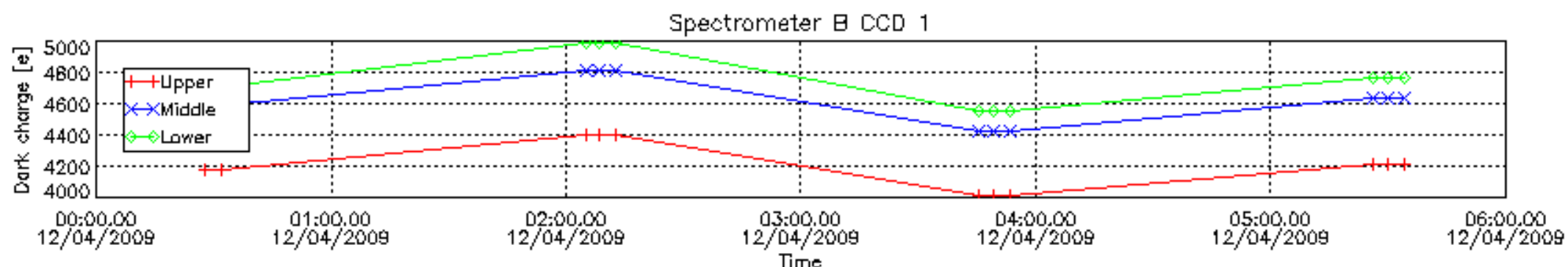
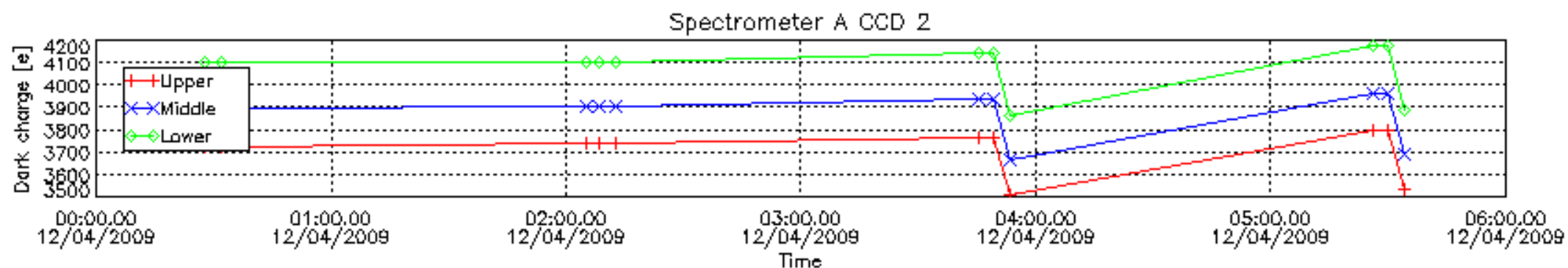
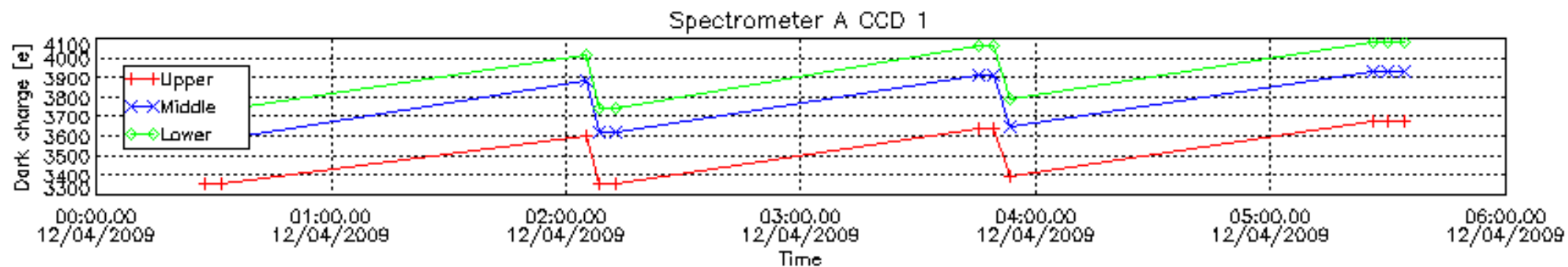
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	12-APR-2009 00:27:58
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090323_082818_20090321_000000_20100101_000000	1	12-APR-2009 00:27:58
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	12-APR-2009 00:27:58
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-APR-2009 00:27:58
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	12-APR-2009 00:27:58
ECMWF_FILE	AUX_ECF_AXNECM20090411_064112_20090411_210000_20090412_090000	1	12-APR-2009 00:27:58
ECMWF_FILE	AUX_ECF_AXNECM20090411_192111_20090412_030000_20090412_150000	20	12-APR-2009 03:13:46
ECMWF_FILE	AUX_ECF_AXNECM20090412_064113_20090412_150000_20090413_030000	42	12-APR-2009 20:45:41
OPTIONAL_ECMWF_FILE	MISSING	1	12-APR-2009 00:27:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090411_222720_000057382078_00072_37200_7732.N1	1	12-APR-2009 00:27:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090412_000817_000057382078_00073_37201_7733.N1	11	12-APR-2009 02:04:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090412_014355_000041442078_00074_37202_7734.N1	20	12-APR-2009 03:13:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090412_025818_000060572078_00075_37203_7735.N1	31	12-APR-2009 04:54:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090412_204056_000041442078_00086_37214_7737.N1	42	12-APR-2009 20:45:41





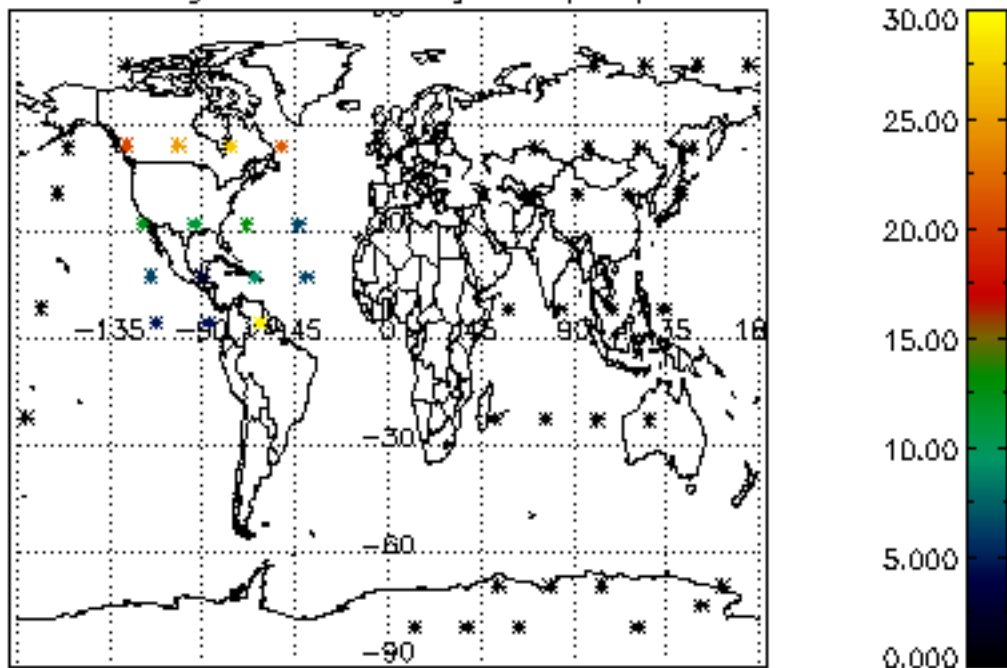




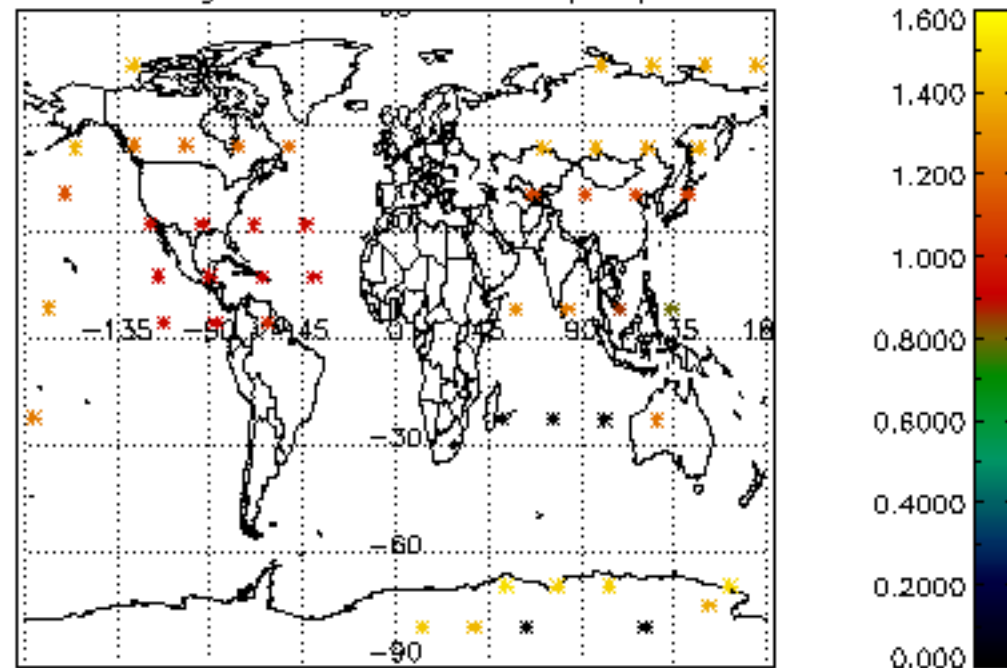




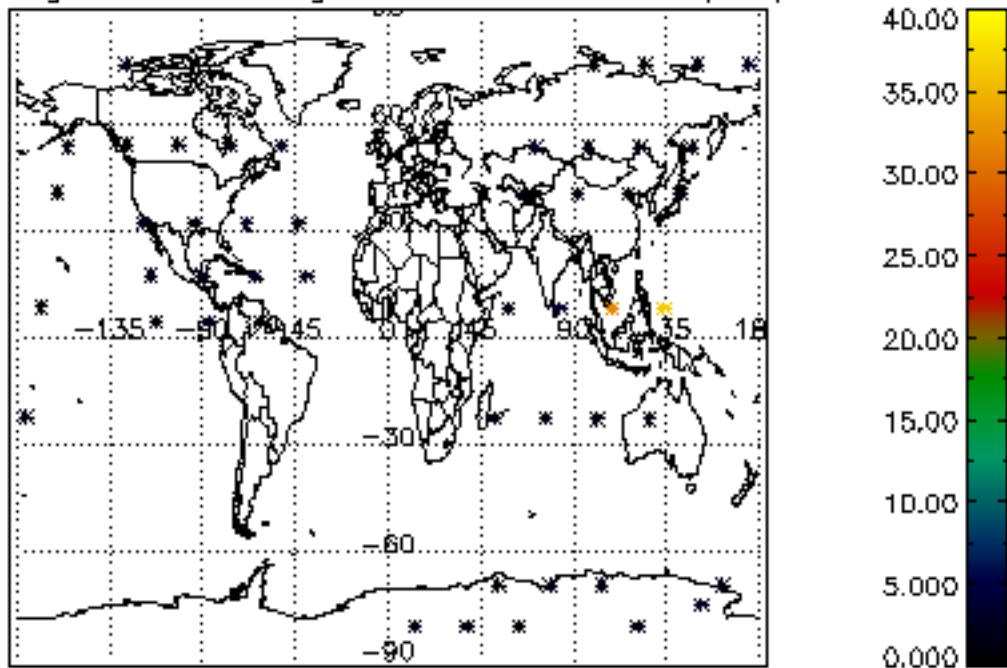
Percentage of cosmic ray hits per profile



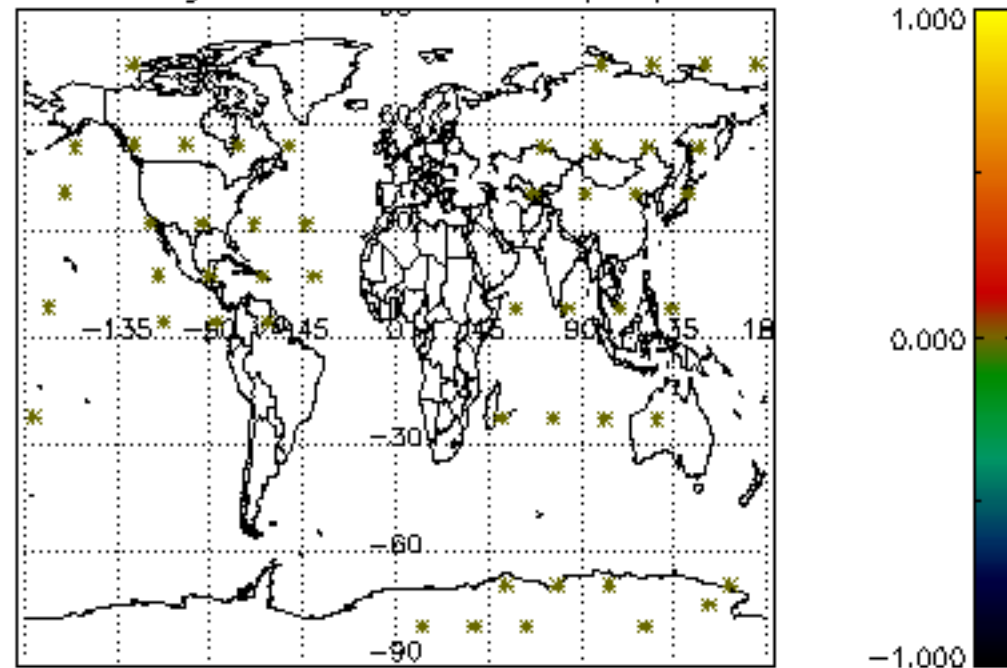
Percentage of datation errors per profile



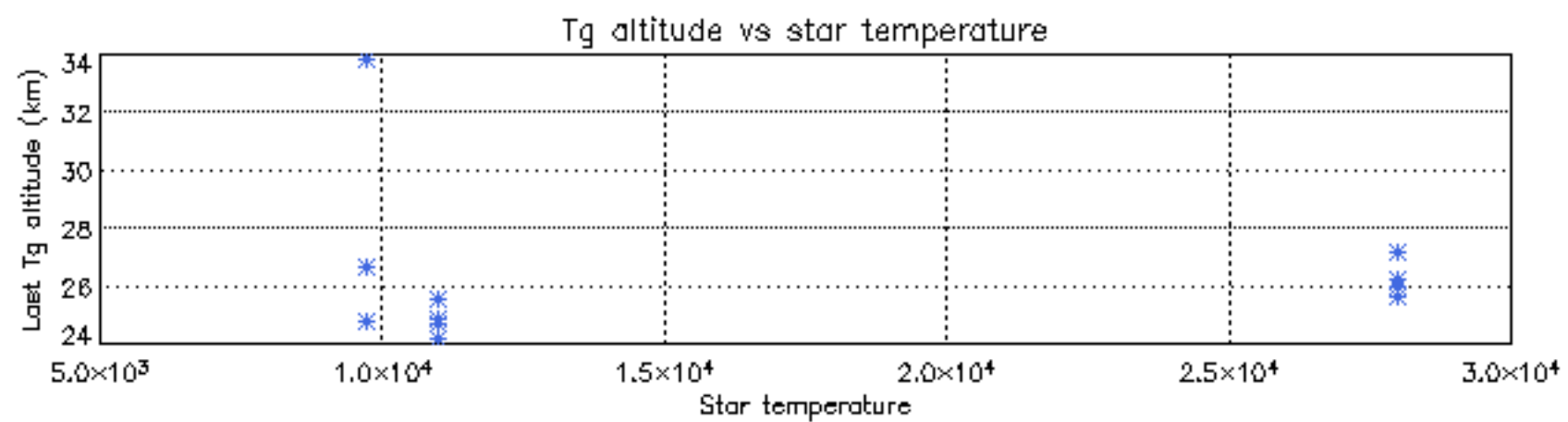
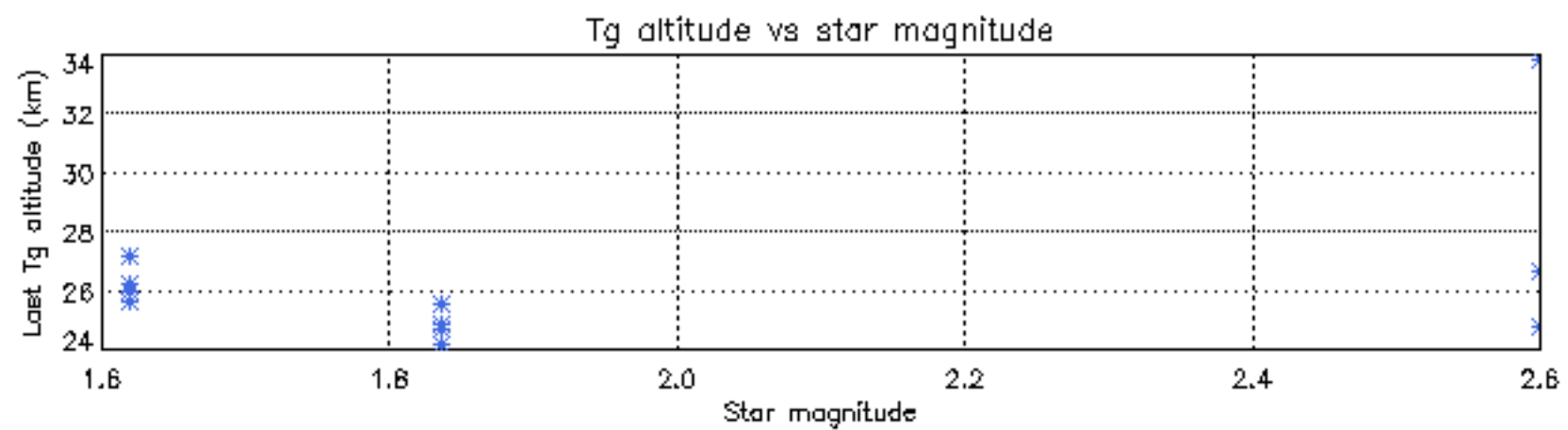
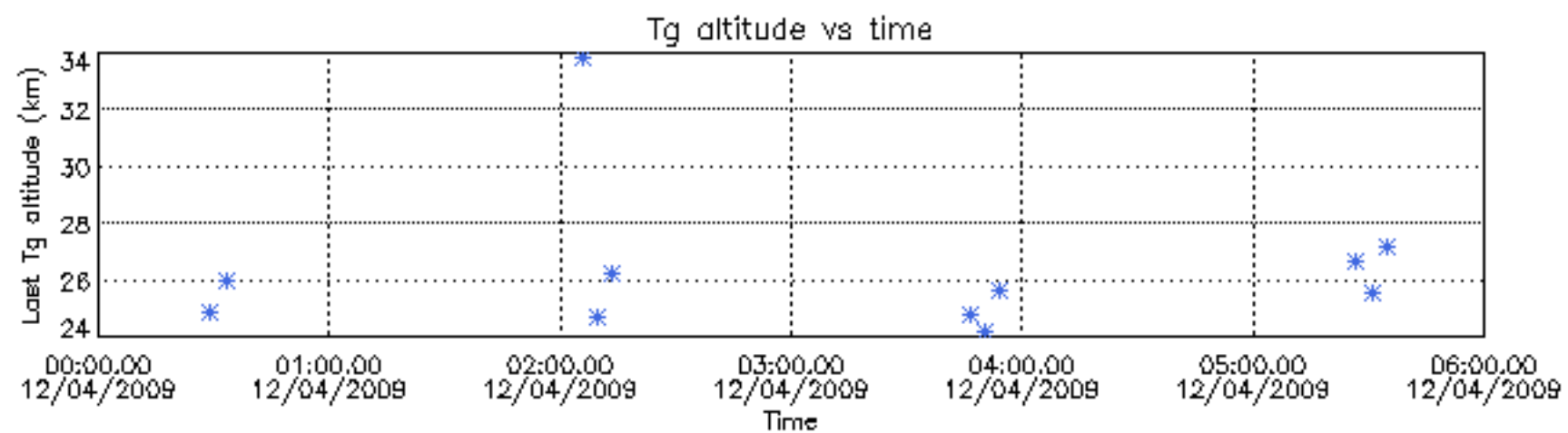
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

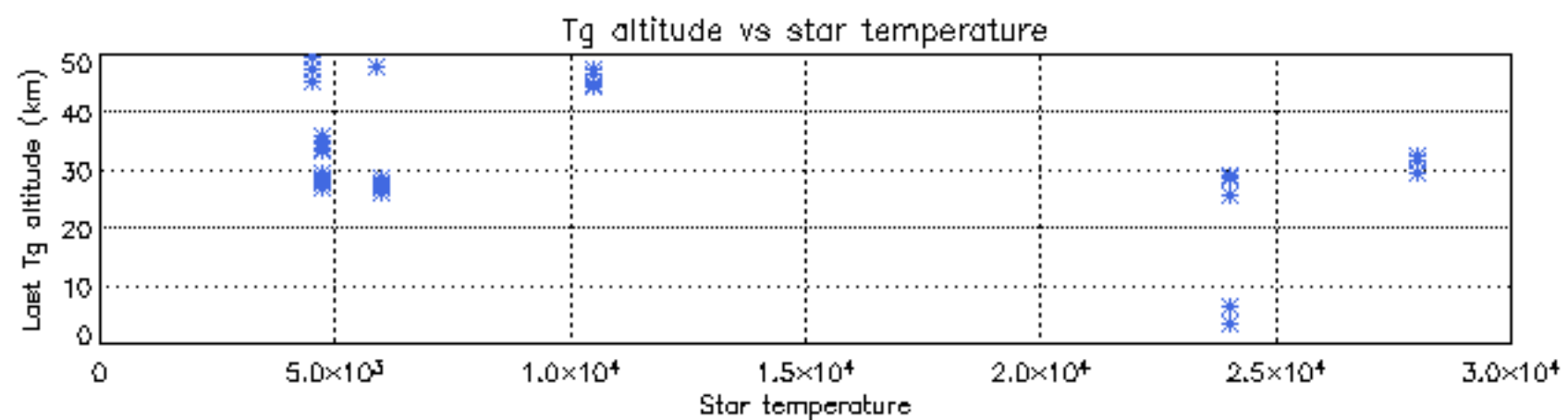
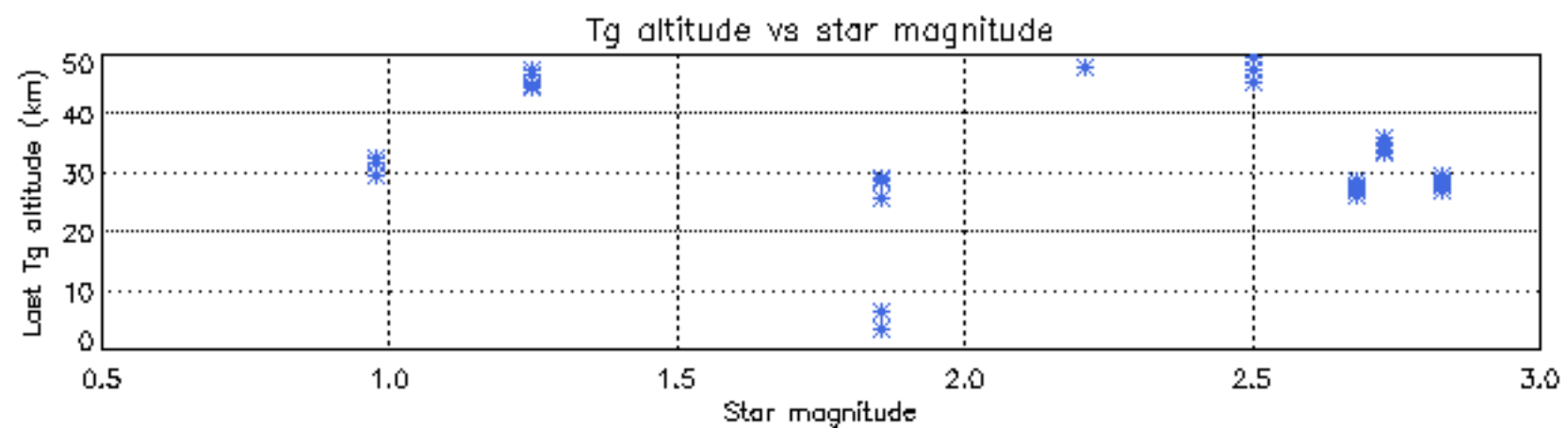
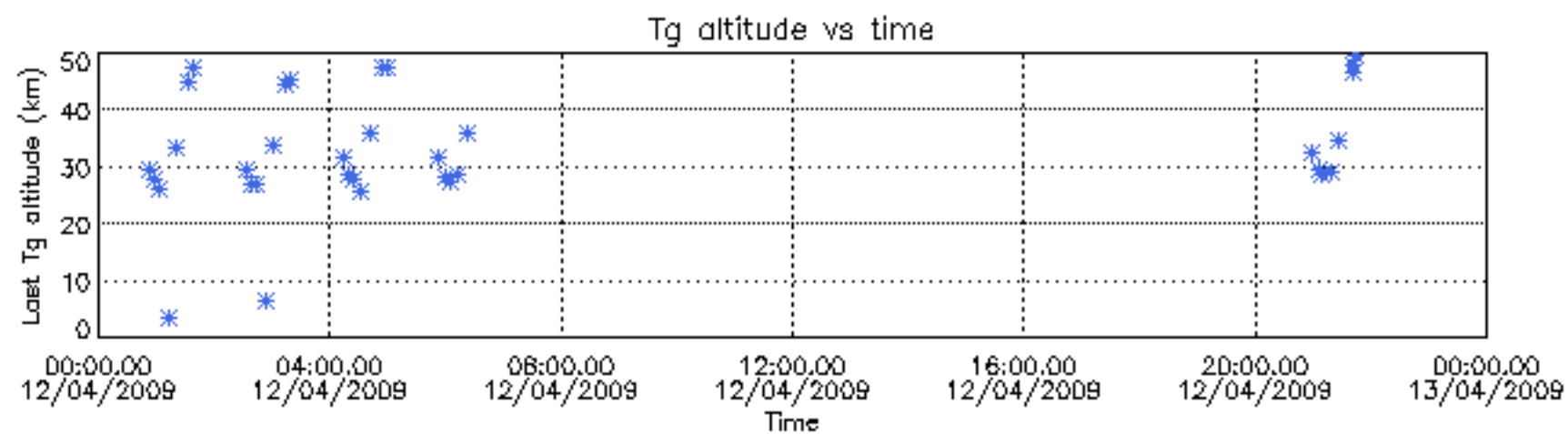


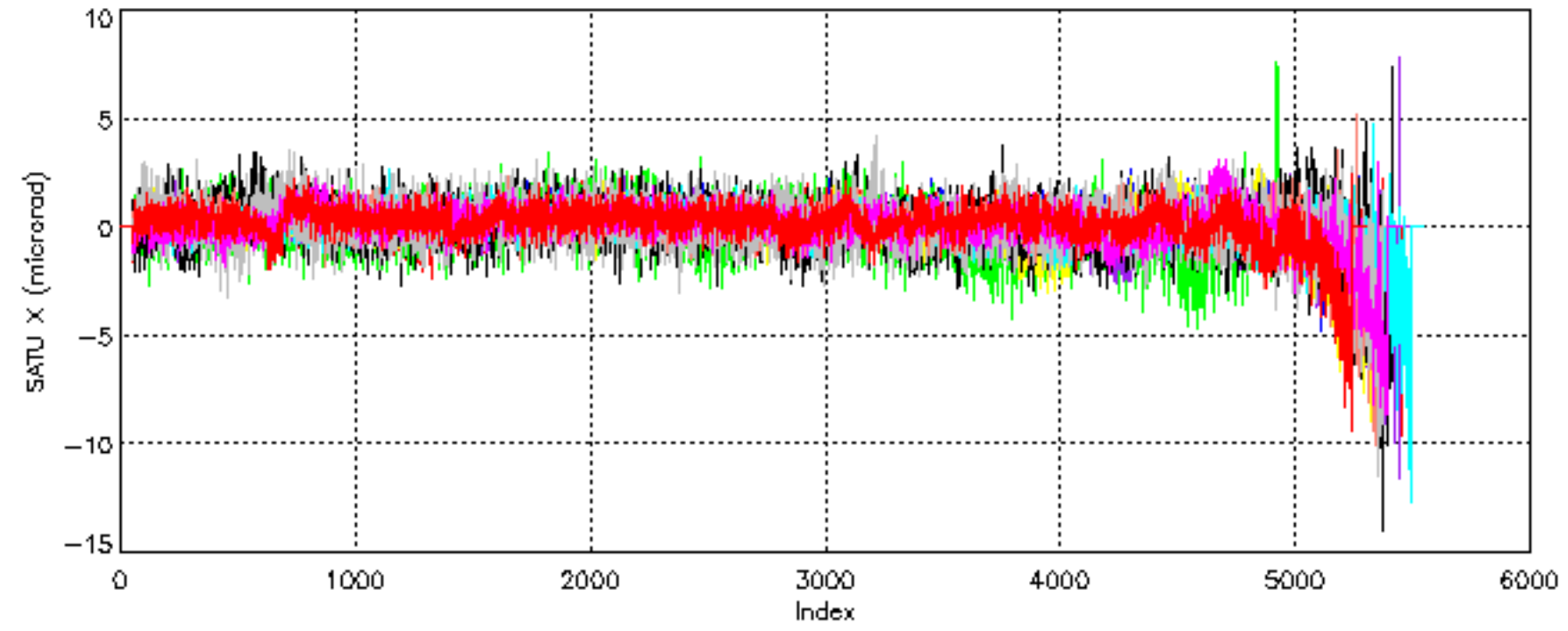
Tangent altitude at which the star is lost

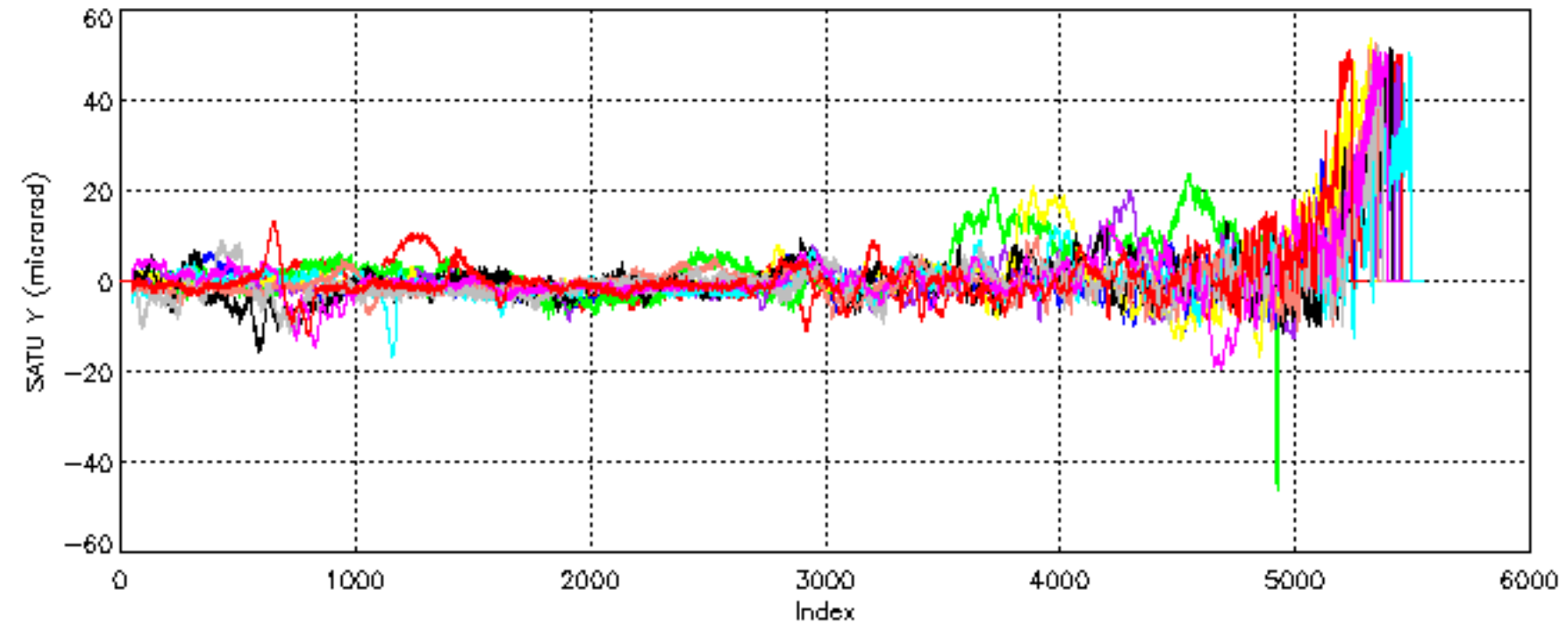




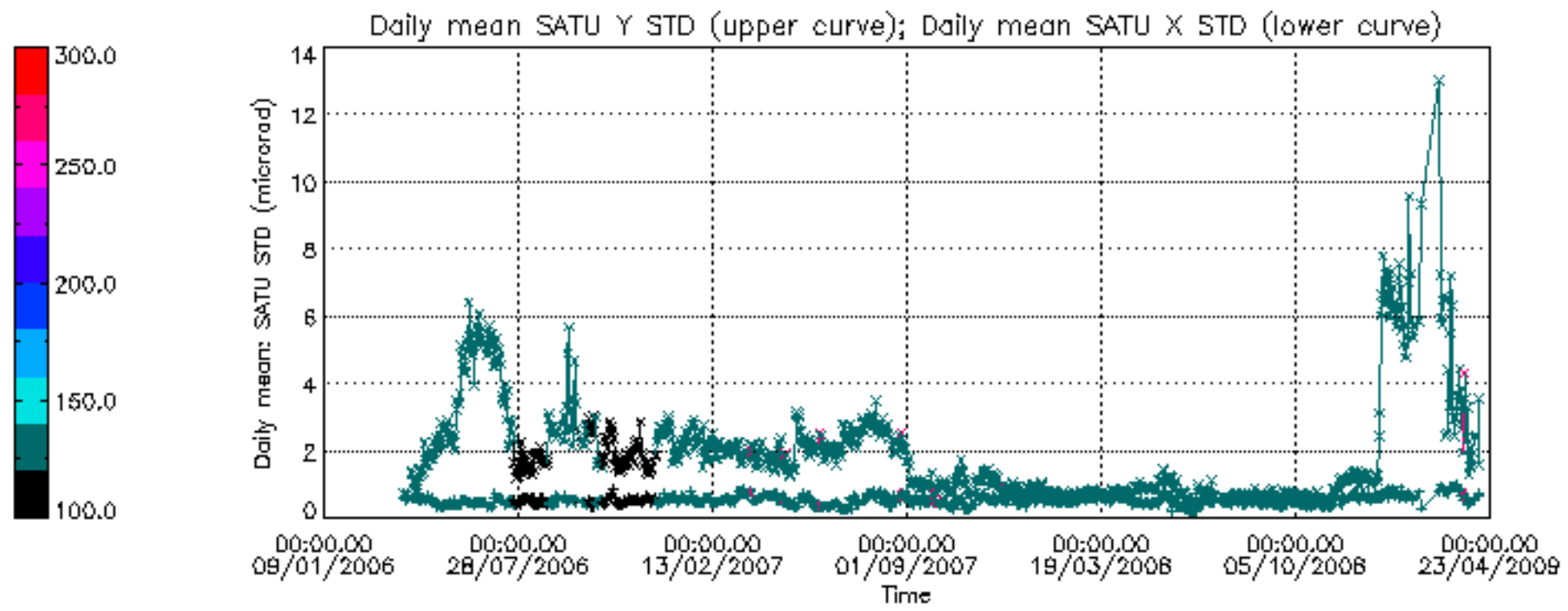
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090401\_195936\_000036412077\_00429\_37056\_7518.N1

1; 1432.9; 01-APR-2009 19:59:36; Dark ; 51.5; 169; 46Gam Hya ; 2.99; 4700;occ; 103; 0;37056  
2; 1688.1; 01-APR-2009 20:03:51; Dark ; 67.0; 15; 67Alp Vir ; 0.98; 28000;occ; 134; 0;37056  
3; 1882.0; 01-APR-2009 20:07:05; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;37056  
4; 2156.2; 01-APR-2009 20:11:39; Bright; 48.0; 138; 47Eps Vir ; 2.83; 4700;occ; 96; 0;37056  
5; 2671.2; 01-APR-2009 20:20:14; Bright; 45.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 90; 0;37056  
6; 2954.1; 01-APR-2009 20:24:57; Bright; 43.5; 32; 77Eps UMa ; 1.76; 11000;occ; 87; 0;37056  
7; 3501.5; 01-APR-2009 20:34:04; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;37056  
8; 4197.6; 01-APR-2009 20:45:40; Bright; 44.0; 144; 18Del Cyg ; 2.86; 11000;occ; 88; 0;37056  
9; 4313.1; 01-APR-2009 20:47:36; Bright; 44.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 88; 0;37056  
10; 4435.9; 01-APR-2009 20:49:39; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;37056  
11; 5051.5; 01-APR-2009 20:59:54; Dark ; 23.0; 11; 53Alp Aql ; 0.76; 8000;occ; 46; 0;37056

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2; -745.7; 01-APR-2009 21:03:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37056  
3; -259.8; 01-APR-2009 21:11:59; Dark ; 57.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 114; 0;37056  
4; -127.9; 01-APR-2009 21:14:11; Dark ; 57.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 114; 0;37056  
5; 81.9; 01-APR-2009 21:17:40; Dark ; 70.0; 116; 19Del Sgr ; 2.70; 4100;occ; 140; 0;37057  
6; 339.0; 01-APR-2009 21:21:58; Dark ; 56.5; 25; 35Lam Sco ; 1.62; 28000;occ; 113; 0;37057  
7; 798.8; 01-APR-2009 21:29:37; Dark ; 49.0; 131; Gam Lup ; 2.80; 26000;occ; 98; 0;37057  
8; 944.6; 01-APR-2009 21:32:03; Dark ; 45.0; 81; Eta Cen ; 2.36; 28000;occ; 90; 0;37057  
9; 1107.1; 01-APR-2009 21:34:46; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;37057  
10; 1433.1; 01-APR-2009 21:40:12; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;37057  
11; 1688.1; 01-APR-2009 21:44:27; Dark ; 66.0; 15; 67Alp Vir ; 0.98; 28000;occ; 132; 0;37057  
12; 1881.8; 01-APR-2009 21:47:40; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;37057  
13; 2155.9; 01-APR-2009 21:52:14; Bright; 47.5; 138; 47Eps Vir ; 2.83; 4700;occ; 95; 0;37057  
14; 2670.9; 01-APR-2009 22:00:49; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37057  
15; 2953.6; 01-APR-2009 22:05:32; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;37057  
16; 3500.7; 01-APR-2009 22:14:39; Bright; 62.5; 119; 14Eta Dra ; 2.73; 4700;occ; 125; 0;37057  
17; 4197.4; 01-APR-2009 22:26:16; Bright; 68.0; 144; 18Del Cyg ; 2.86; 11000;occ; 136; 0;37057  
18; 4312.9; 01-APR-2009 22:28:11; Bright; 44.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 89; 0;37057  
19; 4435.9; 01-APR-2009 22:30:14; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;37057  
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21; 5291.1; 01-APR-2009 22:44:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37057

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3; 83.4; 01-APR-2009 22:58:18; Dark ; 61.5; 116; 19Del Sgr ; 2.70; 4100;occ; 123; 0;37058  
4; 340.5; 01-APR-2009 23:02:35; Dark ; 58.5; 25; 35Lam Sco ; 1.62; 28000;occ; 117; 0;37058  
5; 799.7; 01-APR-2009 23:10:14; Dark ; 52.0; 131; Gam Lup ; 2.80; 26000;occ; 104; 0;37058  
6; 945.1; 01-APR-2009 23:12:40; Dark ; 48.5; 81; Eta Cen ; 2.36; 28000;occ; 97; 0;37058  
7; 1107.5; 01-APR-2009 23:15:22; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;37058  
8; 1433.4; 01-APR-2009 23:20:48; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;37058  
9; 1688.2; 01-APR-2009 23:25:03; Dark ; 70.0; 15; 67Alp Vir ; 0.98; 28000;occ; 140; 0;37058  
10; 1881.6; 01-APR-2009 23:28:16; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;37058  
11; 2155.3; 01-APR-2009 23:32:50; Bright; 47.5; 138; 47Eps Vir ; 2.83; 4700;occ; 95; 0;37058  
12; 2670.5; 01-APR-2009 23:41:25; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37058  
13; 2953.3; 01-APR-2009 23:46:08; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;37058  
14; 3500.1; 01-APR-2009 23:55:14; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;37058  
15; 4197.4; 02-APR-2009 00:06:52; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;37058  
16; 4312.8; 02-APR-2009 00:08:47; Bright; 43.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 87; 0;37058  
17; 4436.1; 02-APR-2009 00:10:50; Bright; 61.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 122; 0;37058  
18; 5053.0; 02-APR-2009 00:21:07; Dark ; 68.0; 11; 53Alp Aql ; 0.76; 8000;occ; 136; 0;37058  
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1; -1600.1; 01-APR-2009 14:07:15; Bright; 6.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 13; 0;37052

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1; 1688.5; 01-APR-2009 15:02:03; Dark ; 70.0; 15; 67Alp Vir ; 0.98; 28000;occ; 140; 0;37053  
2; 1881.9; 01-APR-2009 15:05:17; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;37053  
3; 7141.4; 01-APR-2009 16:32:56; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;37053

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1; 1432.5; 01-APR-2009 16:38:23; Dark ; 51.0; 169; 46Gam Hya ; 2.99; 4700;occ; 102; 0;37054  
2; 2954.7; 01-APR-2009 17:03:45; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;37054  
3; 4312.8; 01-APR-2009 17:26:23; Bright; 43.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 87; 0;37054  
4; 4435.5; 01-APR-2009 17:28:26; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;37054

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1; 2954.4; 01-APR-2009 18:44:21; Bright; 18.0; 32; 77Eps UMa ; 1.76; 11000;occ; 36; 0;37055

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1; -257.2; 02-APR-2009 00:33:13; Dark ; 60.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 121; 0;37058
2; -125.0; 02-APR-2009 00:35:25; Dark ; 56.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 112; 0;37058
3; 341.6; 02-APR-2009 00:43:12; Dark ; 57.5; 25; 35Lam Sco ; 1.62; 28000;occ; 115; 0;37059
4; 800.4; 02-APR-2009 00:50:51; Dark ; 51.5; 131; Gam Lup ; 2.80; 26000;occ; 103; 0;37059
5; 945.7; 02-APR-2009 00:53:16; Dark ; 48.0; 81; Eta Cen ; 2.36; 28000;occ; 96; 0;37059
6; 1107.7; 02-APR-2009 00:55:58; Dark ; 52.0; 54; 5The Cen ; 2.06; 4500;occ; 104; 0;37059
7; 1433.6; 02-APR-2009 01:01:24; Dark ; 51.0; 169; 46Gam Hya ; 2.99; 4700;occ; 102; 0;37059
8; 1688.1; 02-APR-2009 01:05:38; Dark ; 70.0; 15; 67Alp Vir ; 0.98; 28000;occ; 140; 0;37059
9; 1881.4; 02-APR-2009 01:08:52; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;37059
10; 2154.8; 02-APR-2009 01:13:25; Bright; 49.0; 138; 47Eps Vir ; 2.83; 4700;occ; 98; 0;37059
11; 2669.6; 02-APR-2009 01:22:00; Bright; 44.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 88; 0;37059
12; 2952.7; 02-APR-2009 01:26:43; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;37059
13; 3499.2; 02-APR-2009 01:35:49; Bright; 48.0; 119; 14Eta Dra ; 2.73; 4700;occ; 96; 0;37059
14; 4197.2; 02-APR-2009 01:47:27; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;37059
15; 4312.9; 02-APR-2009 01:49:23; Bright; 49.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 98; 0;37059
16; 4436.0; 02-APR-2009 01:51:26; Bright; 61.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 122; 0;37059
17; 5054.0; 02-APR-2009 02:01:44; Dark ; 65.5; 11; 53Alp Aql ; 0.76; 8000;occ; 131; 0;37059
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5; 89.5; 02-APR-2009 02:19:36; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;37060
6; 343.0; 02-APR-2009 02:23:49; Dark ; 59.0; 25; 35Lam Sco ; 1.62; 28000;occ; 118; 0;37060
7; 801.5; 02-APR-2009 02:31:28; Dark ; 52.5; 131; Gam Lup ; 2.80; 26000;occ; 105; 0;37060
8; 946.7; 02-APR-2009 02:33:53; Dark ; 46.5; 81; Eta Cen ; 2.36; 28000;occ; 93; 0;37060
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11; 1688.2; 02-APR-2009 02:46:14; Dark ; 66.5; 15; 67Alp Vir ; 0.98; 28000;occ; 133; 0;37060
12; 1881.5; 02-APR-2009 02:49:28; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;37060
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14; 2669.4; 02-APR-2009 03:02:36; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37060
15; 2952.7; 02-APR-2009 03:07:19; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;37060
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6; -253.8; 02-APR-2009 03:54:28; Dark ; 48.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 96; 0;37060
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9; 344.5; 02-APR-2009 04:04:27; Dark ; 64.5; 25; 35Lam Sco ; 1.62; 28000;occ; 129; 0;37061
10; 801.9; 02-APR-2009 04:12:04; Dark ; 50.0; 131; Gam Lup ; 2.80; 26000;occ; 100; 0;37061
11; 947.2; 02-APR-2009 04:14:29; Dark ; 50.0; 81; Eta Cen ; 2.36; 28000;occ; 100; 0;37061
12; 1109.2; 02-APR-2009 04:17:11; Dark ; 48.0; 54; 5The Cen ; 2.06; 4500;occ; 96; 0;37061
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4; 531.1; 18-APR-2009 02:24:05; Dark ; 35.0; 147; Alp Ara ; 2.88; 26000;occ; 70; 0;37289
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5; 2693.6; 23-APR-2009 17:08:03; Bright; 45.5; 180; 27Gam Boo ; 3.04; 8000;occ; 91; 0;37369  
6; 3277.9; 23-APR-2009 17:17:47; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;37369  
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5; 2521.4; 23-APR-2009 18:45:47; Bright; 49.0; 83; ; 2.38; 11000;occ; 98; 0;37370
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16; 7299.3; 30-APR-2009 14:43:30; Dark ; 34.0; 16; 21Alp Sco ; 1.02; 3000;occ; 68; 0;37467
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