

# GOMOS Daily Report 15-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	18APR2009 05:44:15
Data source version	GOMOS/5.00
Start time of products	15APR2009 00:00:00
Stop time of products	15APR2009 21:45:59
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

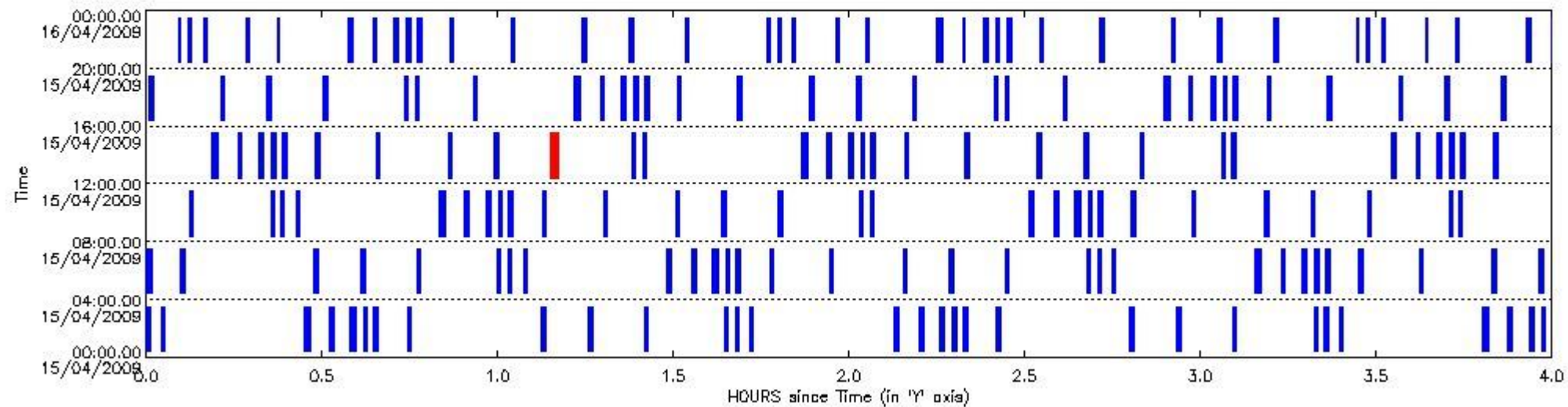
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

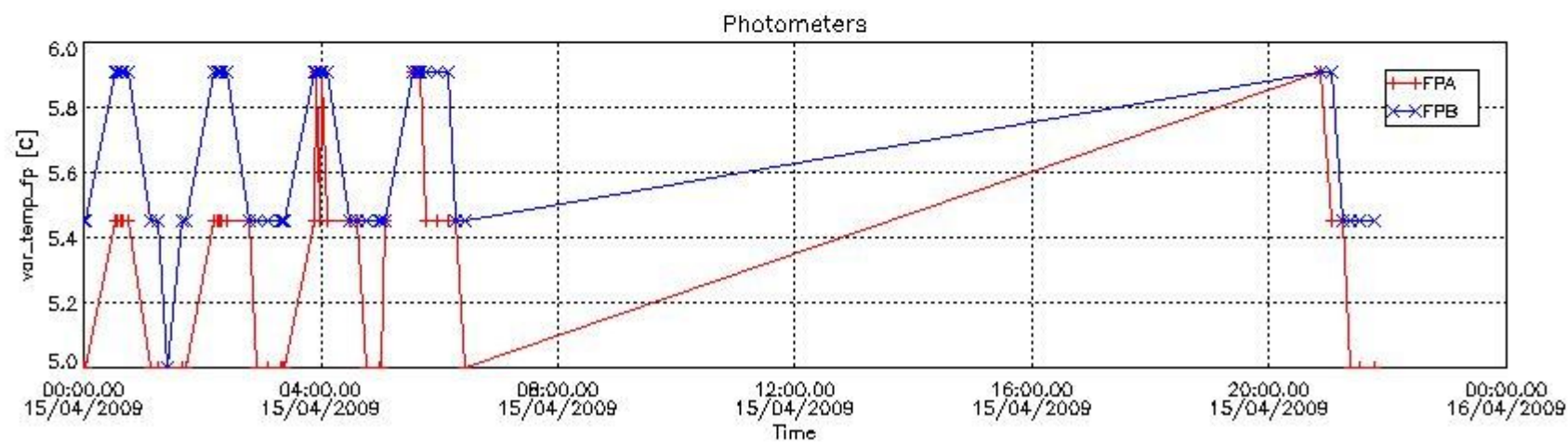
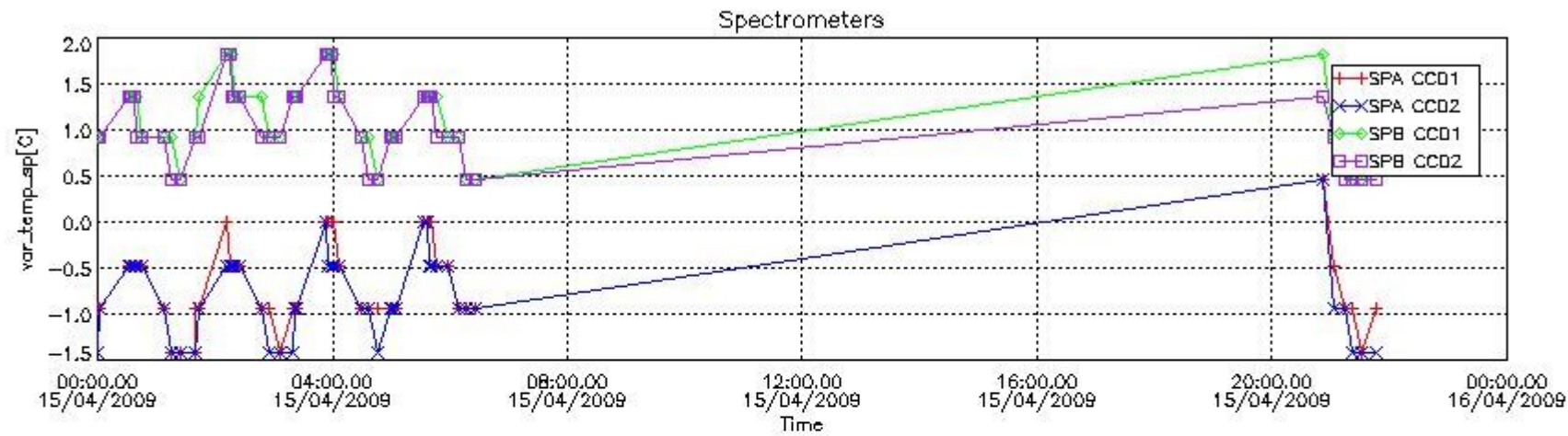
UTC start time	Star name	Star ID	Orbit
15-APR-2009 13:09:07	14EtaDra	119	37252

### 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_1PNPDE20090415_000000_000000372078_00116_37244_4720.N1	15-APR-2009 00:00:00	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	37244	No
2	GOM_TRA_1PNPDE20090415_000231_000000342078_00116_37244_4721.N1	15-APR-2009 00:02:31	Twilight_stray	34.000	92	53Eps Cyg	2.5000	4500.0	68	37244	No
3	GOM_TRA_1PNPDE20090415_003113_000000522078_00117_37245_4852.N1	15-APR-2009 00:31:13	Dark	52.000	103	38Zet Sgr	2.6000	9700.0	104	37245	No
4	GOM_TRA_1PNPDE20090415_003448_000000532078_00117_37245_4853.N1	15-APR-2009 00:34:48	Dark	53.000	38	20Eps Sgr	1.8360	11000.	106	37245	No
5	GOM_TRA_1PNPDE20090415_003706_000000402078_00117_37245_4854.N1	15-APR-2009 00:37:06	Dark	39.500	147	Alp Ara	2.8770	26000.	79	37245	No
6	GOM_TRA_1PNPDE20090415_003845_000000512078_00117_37245_4855.N1	15-APR-2009 00:38:45	Dark	51.000	25	35Lam Sco	1.6200	28000.	102	37245	No
7	GOM_TRA_1PNPDE20090415_004436_000000392078_00117_37245_4856.N1	15-APR-2009 00:44:36	Straylight	39.000	131	Gam Lup	2.8000	26000.	78	37245	No
8	GOM_TRA_1PNPDE20090415_010723_000000422078_00117_37245_4857.N1	15-APR-2009 01:07:23	Bright	42.000	111	8Eta Boo	2.6800	6000.0	84	37245	No
9	GOM_TRA_1PNPDE20090415_011522_000000462078_00117_37245_4858.N1	15-APR-2009 01:15:22	Bright	45.500	180	27Gam Boo	3.0400	8000.0	91	37245	No
10	GOM_TRA_1PNPDE20090415_012457_000000342078_00117_37245_4859.N1	15-APR-2009 01:24:57	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	37245	No

11	GOM_TRA_1PNPDE20090415_013849_000000332078_00117_37245_4860.N1	15-APR-2009 01:38:49	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	37245	No
12	GOM_TRA_1PNPDE20090415_014036_000000372078_00117_37245_4861.N1	15-APR-2009 01:40:36	Bright	36.500	66	37Gam Cyg	2.2080	5900.0	73	37245	No
13	GOM_TRA_1PNPDE20090415_014307_000000342078_00117_37245_4862.N1	15-APR-2009 01:43:07	Twilight	34.000	92	53Eps Cyg	2.5000	4500.0	68	37245	No
14	GOM_TRA_1PNPDE20090415_021151_000000492078_00118_37246_4993.N1	15-APR-2009 02:11:51	Dark	49.000	103	38Zet Sgr	2.6000	9700.0	98	37246	No
15	GOM_TRA_1PNPDE20090415_021525_000000532078_00118_37246_4994.N1	15-APR-2009 02:15:25	Dark	53.000	38	20Eps Sgr	1.8360	11000.	106	37246	No
16	GOM_TRA_1PNPDE20090415_021743_000000392078_00118_37246_4995.N1	15-APR-2009 02:17:43	Dark	39.000	147	Alp Ara	2.8770	26000.	78	37246	No
17	GOM_TRA_1PNPDE20090415_021923_000000512078_00118_37246_4996.N1	15-APR-2009 02:19:23	Dark	50.500	25	35Lam Sco	1.6200	28000.	101	37246	No
18	GOM_TRA_1PNPDE20090415_022512_000000392078_00118_37246_4997.N1	15-APR-2009 02:25:12	Straylight	39.000	131	Gam Lup	2.8000	26000.	78	37246	No
19	GOM_TRA_1PNPDE20090415_024758_000000422078_00118_37246_4998.N1	15-APR-2009 02:47:58	Bright	41.500	111	8Eta Boo	2.6800	6000.0	83	37246	No
20	GOM_TRA_1PNPDE20090415_025557_000000462078_00118_37246_4999.N1	15-APR-2009 02:55:57	Bright	45.500	180	27Gam Boo	3.0400	8000.0	91	37246	No
21	GOM_TRA_1PNPDE20090415_030533_000000382078_00118_37246_5000.N1	15-APR-2009 03:05:33	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	37246	No
22	GOM_TRA_1PNPDE20090415_031925_000000332078_00118_37246_5203.N1	15-APR-2009 03:19:25	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	37246	No
23	GOM_TRA_1PNPDE20090415_032112_000000362078_00118_37246_5204.N1	15-APR-2009 03:21:12	Twilight	36.000	66	37Gam Cyg	2.2080	5900.0	72	37246	No
24	GOM_TRA_1PNPDE20090415_032343_000000352078_00118_37246_5205.N1	15-APR-2009 03:23:43	Twilight	34.500	92	53Eps Cyg	2.5000	4500.0	69	37246	No
25	GOM_TRA_1PNPDE20090415_035228_000000492078_00119_37247_5206.N1	15-APR-2009 03:52:28	Dark	49.000	103	38Zet Sgr	2.6000	9700.0	98	37247	No
26	GOM_TRA_1PNPDE20090415_035603_000000532078_00119_37247_5207.N1	15-APR-2009 03:56:03	Dark	53.000	38	20Eps Sgr	1.8360	11000.	106	37247	No
27	GOM_TRA_1PNPDE20090415_035819_000000402078_00119_37247_5208.N1	15-APR-2009 03:58:19	Dark	39.500	147	Alp Ara	2.8770	26000.	79	37247	No
28	GOM_TRA_1PNPDE20090415_040000_000000512078_00119_37247_5209.N1	15-APR-2009 04:00:00	Dark	50.500	25	35Lam Sco	1.6200	28000.	101	37247	No
29	GOM_TRA_1PNPDE20090415_040549_000000392078_00119_37247_5210.N1	15-APR-2009 04:05:49	Straylight	38.500	131	Gam Lup	2.8000	26000.	77	37247	No
30	GOM_TRA_1PNPDE20090415_042834_000000422078_00119_37247_5211.N1	15-APR-2009 04:28:34	Bright	41.500	111	8Eta Boo	2.6800	6000.0	83	37247	No
31	GOM_TRA_1PNPDE20090415_043632_000000452078_00119_37247_5212.N1	15-APR-2009 04:36:32	Bright	45.000	180	27Gam Boo	3.0400	8000.0	90	37247	No
32	GOM_TRA_1PNPDE20090415_044608_000000392078_00119_37247_5213.N1	15-APR-2009 04:46:08	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	37247	No
33	GOM_TRA_1PNPDE20090415_050001_000000332078_00119_37247_5387.N1	15-APR-2009 05:00:01	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	37247	No
34	GOM_TRA_1PNPDE20090415_050148_000000362078_00119_37247_5388.N1	15-APR-2009 05:01:48	Twilight	36.000	66	37Gam Cyg	2.2080	5900.0	72	37247	No
35	GOM_TRA_1PNPDE20090415_050419_000000352078_00119_37247_5389.N1	15-APR-2009 05:04:19	Twilight	34.500	92	53Eps Cyg	2.5000	4500.0	69	37247	No
36	GOM_TRA_1PNPDE20090415_053306_000000462078_00120_37248_5390.N1	15-APR-2009 05:33:06	Dark	46.000	103	38Zet Sgr	2.6000	9700.0	92	37248	No
37	GOM_TRA_1PNPDE20090415_053640_000000532078_00120_37248_5391.N1	15-APR-2009 05:36:40	Dark	53.000	38	20Eps Sgr	1.8360	11000.	106	37248	No
38	GOM_TRA_1PNPDE20090415_053856_000000402078_00120_37248_5392.N1	15-APR-2009 05:38:56	Dark	39.500	147	Alp Ara	2.8770	26000.	79	37248	No
39	GOM_TRA_1PNPDE20090415_054037_000000512078_00120_37248_5393.N1	15-APR-2009 05:40:37	Dark	50.500	25	35Lam Sco	1.6200	28000.	101	37248	No
40	GOM_TRA_1PNPDE20090415_054625_000000392078_00120_37248_5394.N1	15-APR-2009 05:46:25	Straylight	38.500	131	Gam Lup	2.8000	26000.	77	37248	No
41	GOM_TRA_1PNPDE20090415_055649_000000302078_00120_37248_5395.N1	15-APR-2009 05:56:49	Twilight	30.000	122	9Alp2Lib	2.7470	9700.0	60	37248	No
42	GOM_TRA_1PNPDE20090415_060910_000000422078_00120_37248_5396.N1	15-APR-2009 06:09:10	Bright	41.500	111	8Eta Boo	2.6800	6000.0	83	37248	No
43	GOM_TRA_1PNPDE20090415_061707_000000452078_00120_37248_5397.N1	15-APR-2009 06:17:07	Bright	45.000	180	27Gam Boo	3.0400	8000.0	90	37248	No
44	GOM_TRA_1PNPDE20090415_062643_000000392078_00120_37248_5398.N1	15-APR-2009 06:26:43	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	37248	No
45	GOM_TRA_1PNPDE20090415_205155_000000372078_00129_37257_5923.N1	15-APR-2009 20:51:55	Straylight	37.000	131	Gam Lup	2.8000	26000.	74	37257	No
46	GOM_TRA_1PNPDE20090415_210213_000000432078_00129_37257_5924.N1	15-APR-2009 21:02:13	Bright	42.500	122	9Alp2Lib	2.7470	9700.0	85	37257	No
47	GOM_TRA_1PNPDE20090415_211428_000000402078_00129_37257_5925.N1	15-APR-2009 21:14:28	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	37257	No
48	GOM_TRA_1PNPDE20090415_212222_000000432078_00129_37257_5926.N1	15-APR-2009 21:22:22	Bright	43.000	180	27Gam Boo	3.0400	8000.0	86	37257	No
49	GOM_TRA_1PNPDE20090415_213200_000000382078_00129_37257_5927.N1	15-APR-2009 21:32:00	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	37257	No
50	GOM_TRA_1PNPDE20090415_214559_000000322078_00129_37257_5928.N1	15-APR-2009 21:45:59	Twilight	32.000	19	50Alp Cyg	1.2460	10500.	64	37257	No

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



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

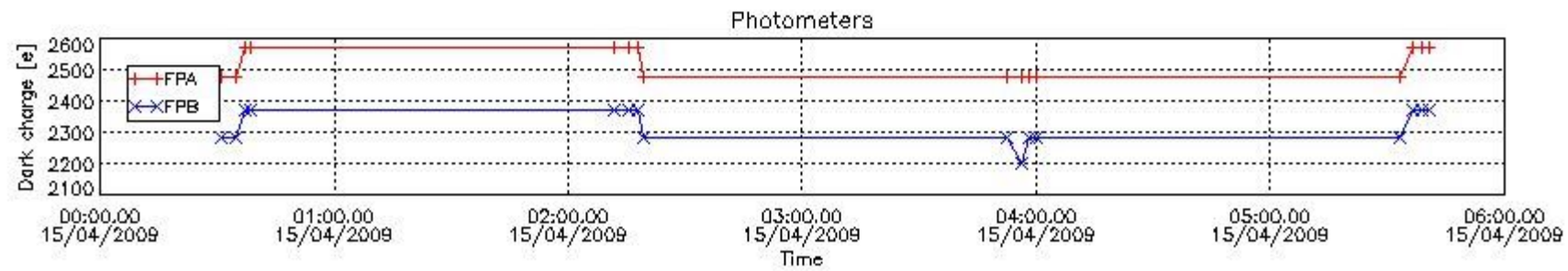
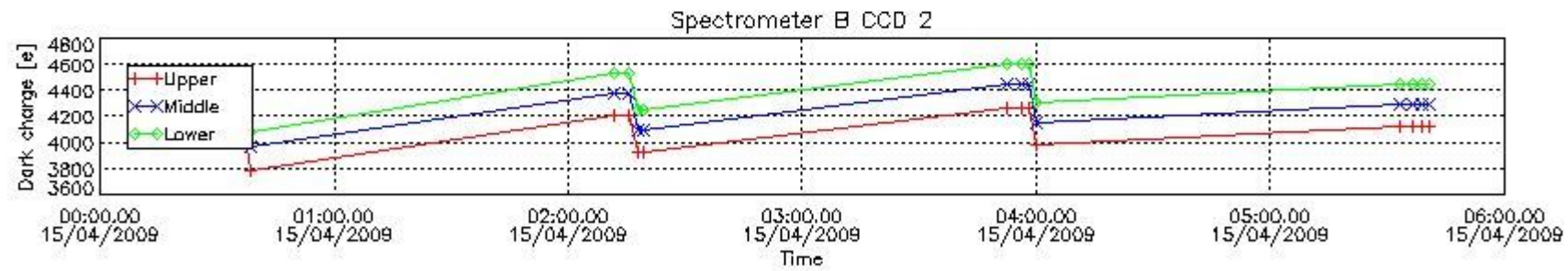
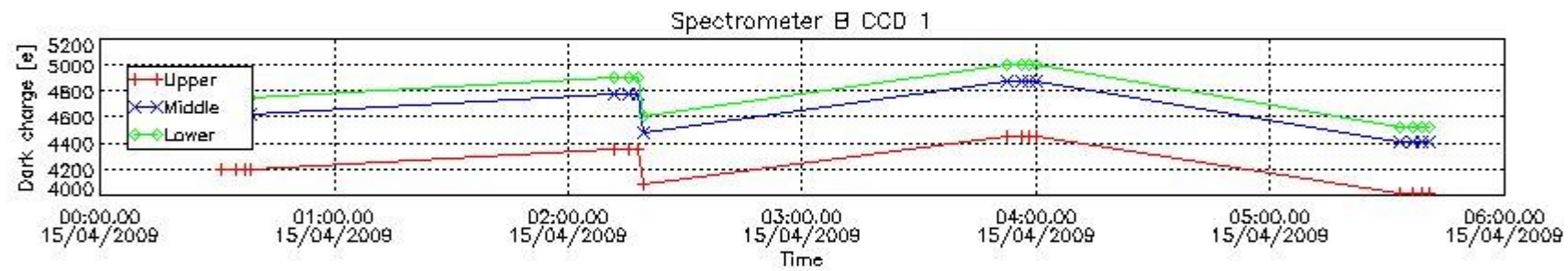
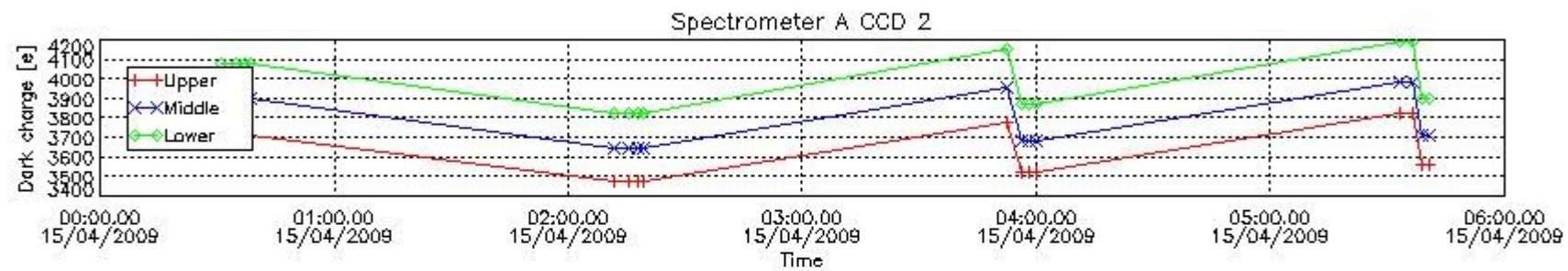
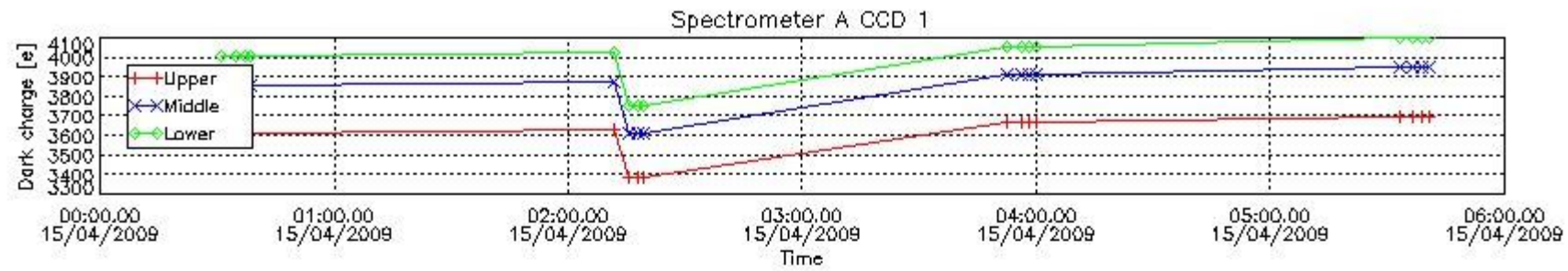
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090415_205155_000000372078_00129_37257_5923.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090415_210213_000000432078_00129_37257_5924.N1	DC map used
GOM_TRA_1PNPDE20090415_211428_000000402078_00129_37257_5925.N1	DC map used
GOM_TRA_1PNPDE20090415_212222_000000432078_00129_37257_5926.N1	DC map used
GOM_TRA_1PNPDE20090415_213200_000000382078_00129_37257_5927.N1	DC map used
GOM_TRA_1PNPDE20090415_214559_000000322078_00129_37257_5928.N1	DC map used

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



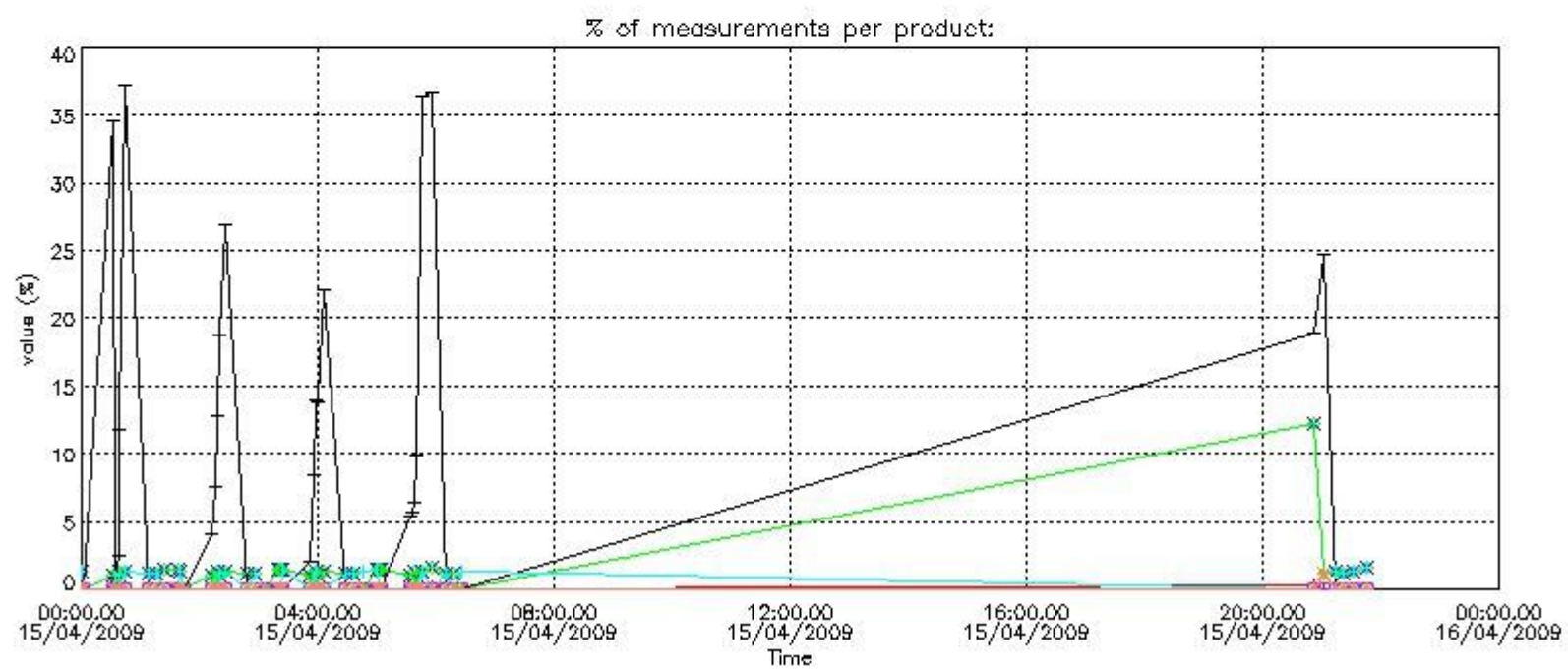
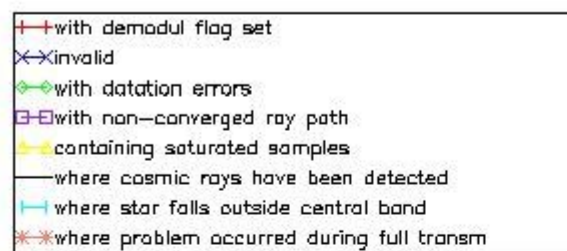
## 5. Demodulation flag and quality information monitoring

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.

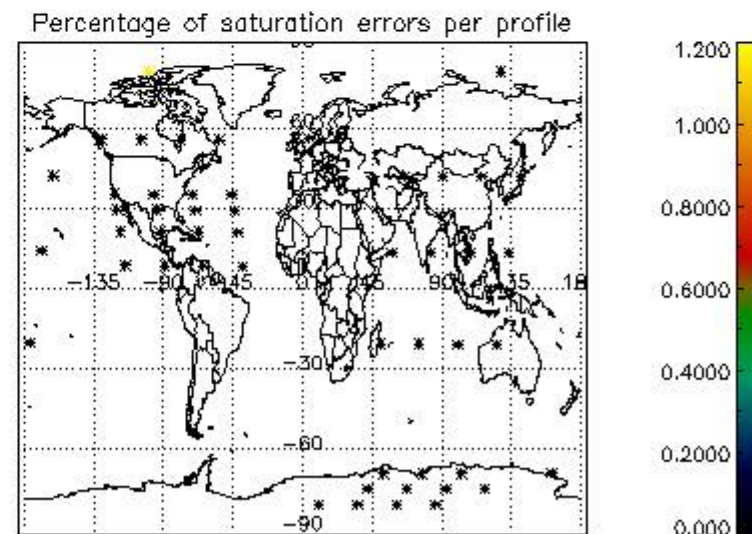
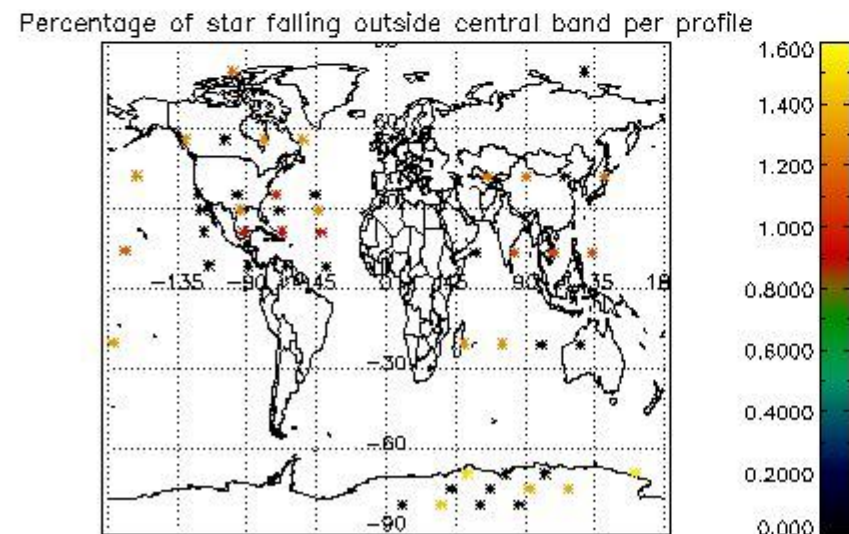
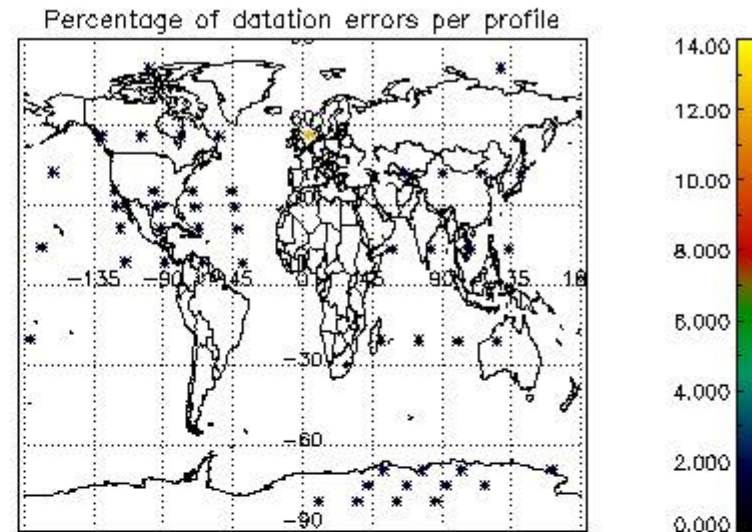
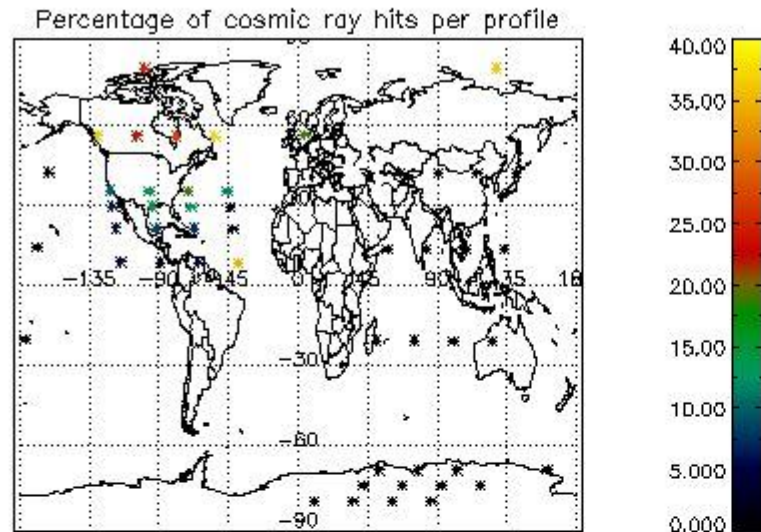
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.0000 %
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)



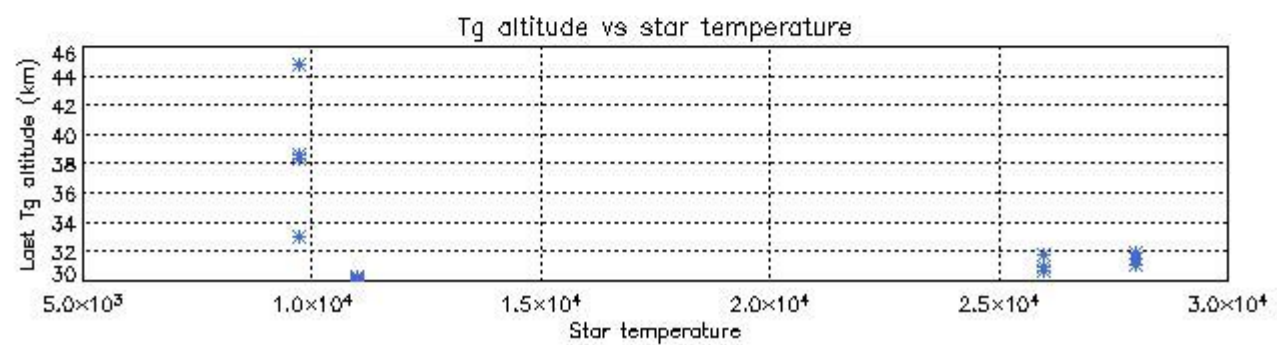
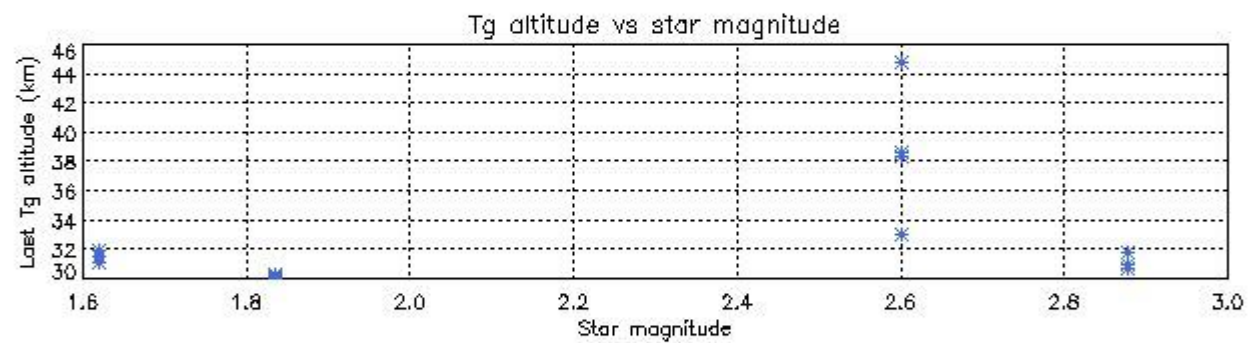
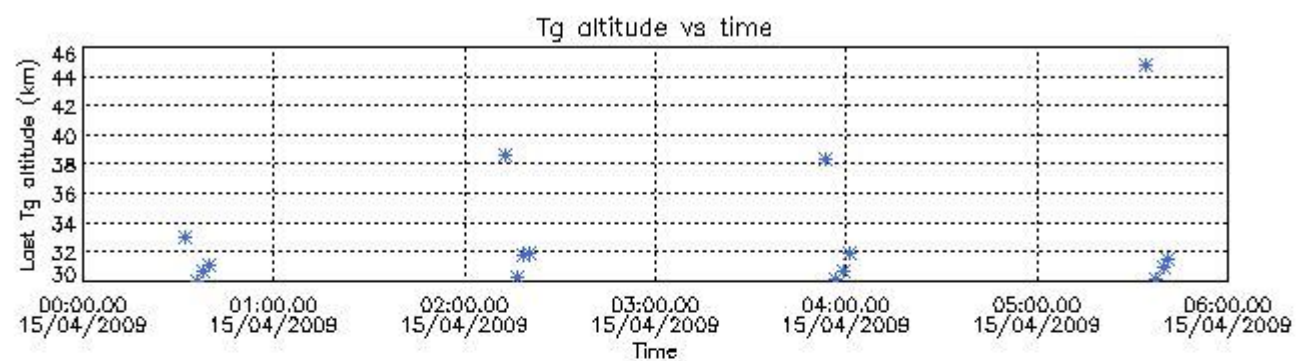
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	32.868	39.002	NaN
St. deviation:	4.1322	8.0086	NaN
Maximum:	44.738	50.470	NaN
Minimum:	30.059	30.658	NaN
Number of data:	16.000	21.000	NaN

### 6.2 Plot for DARK limb products

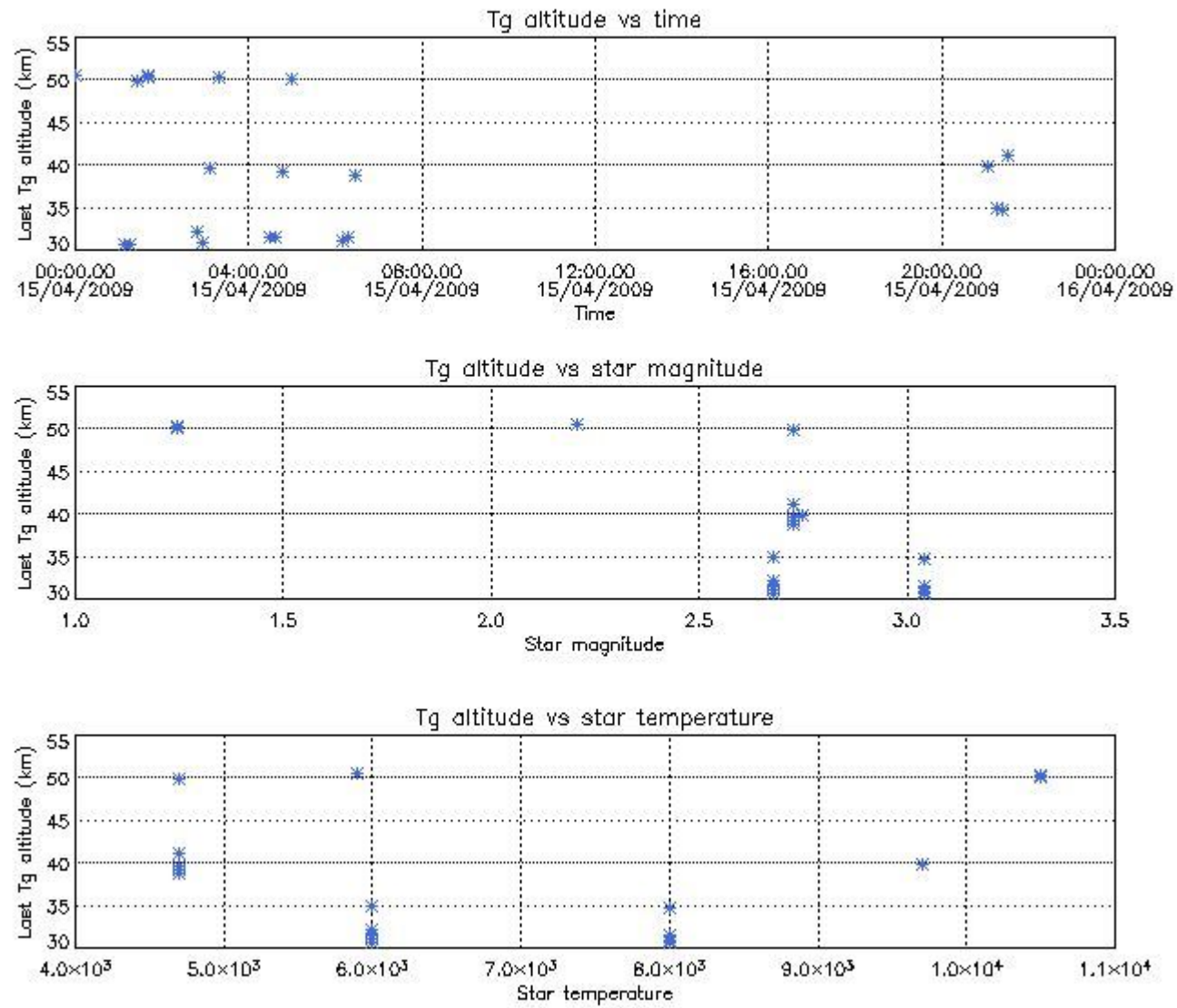
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

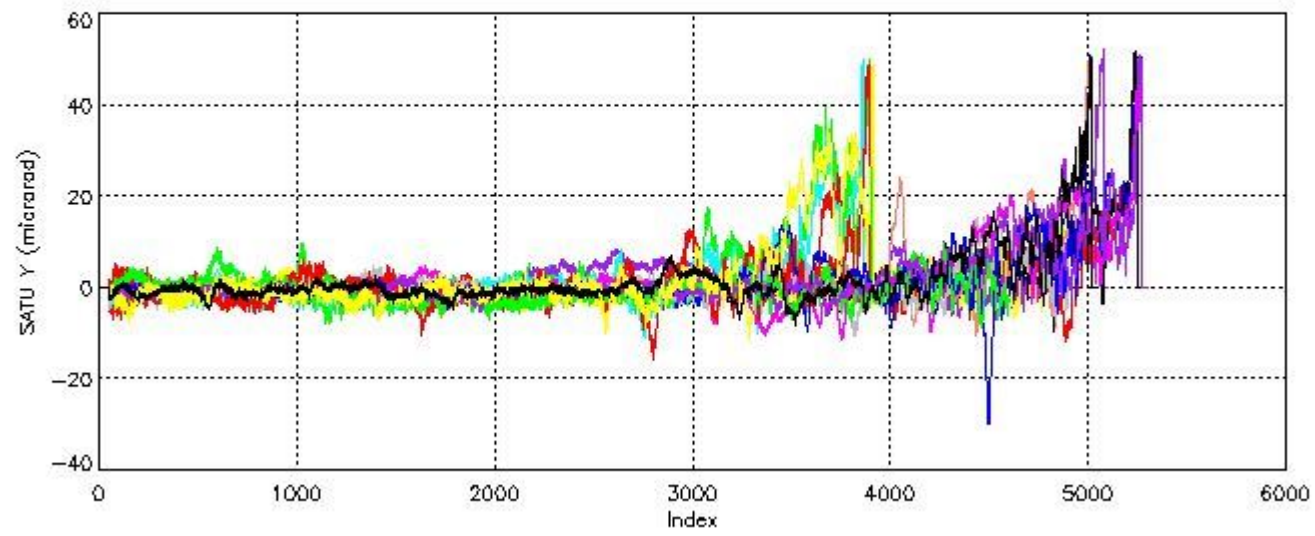
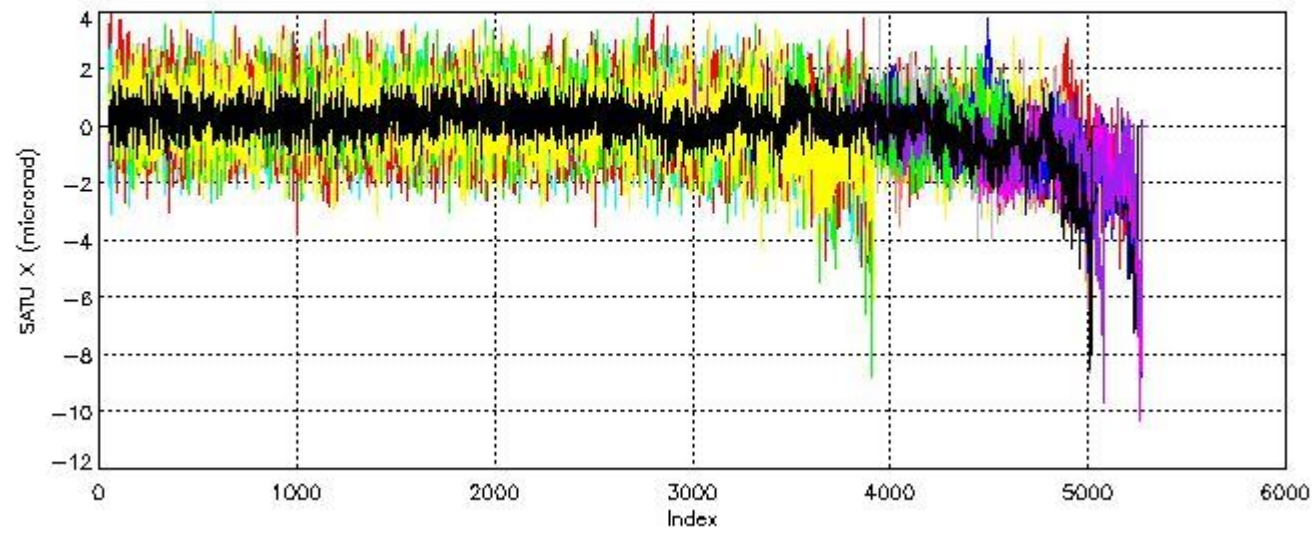


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.37776	-0.71592	0.39917	-1.1235
St. deviation:	0.72774	1.3049	0.87768	1.4447
Maximum:	4.0000	9.6000	16.100	9.4000
Minimum:	-3.8000	-7.6000	-5.0000	-40.200

Number of data:	21800.	21800.	24450.	24450.
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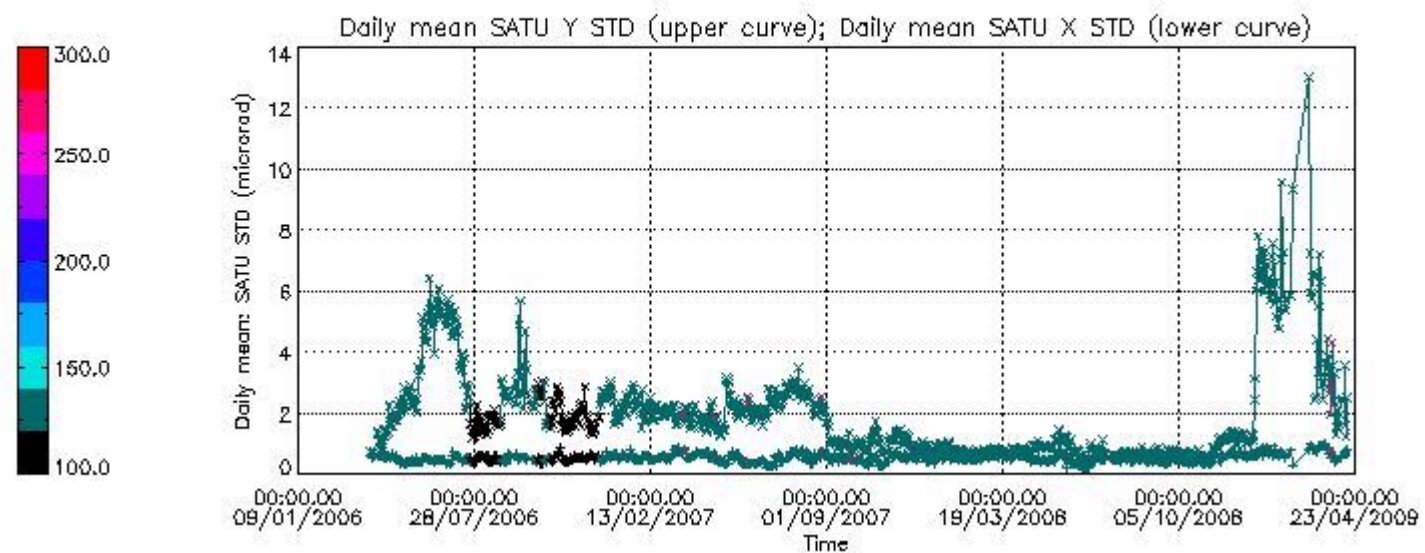
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

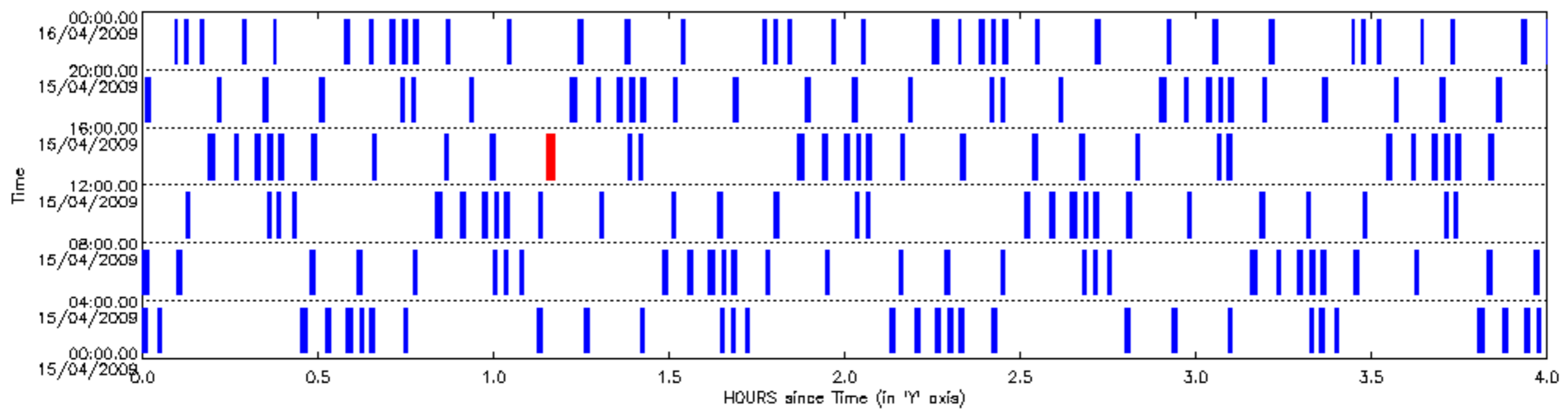
Lower curve: STD of SATU X axis

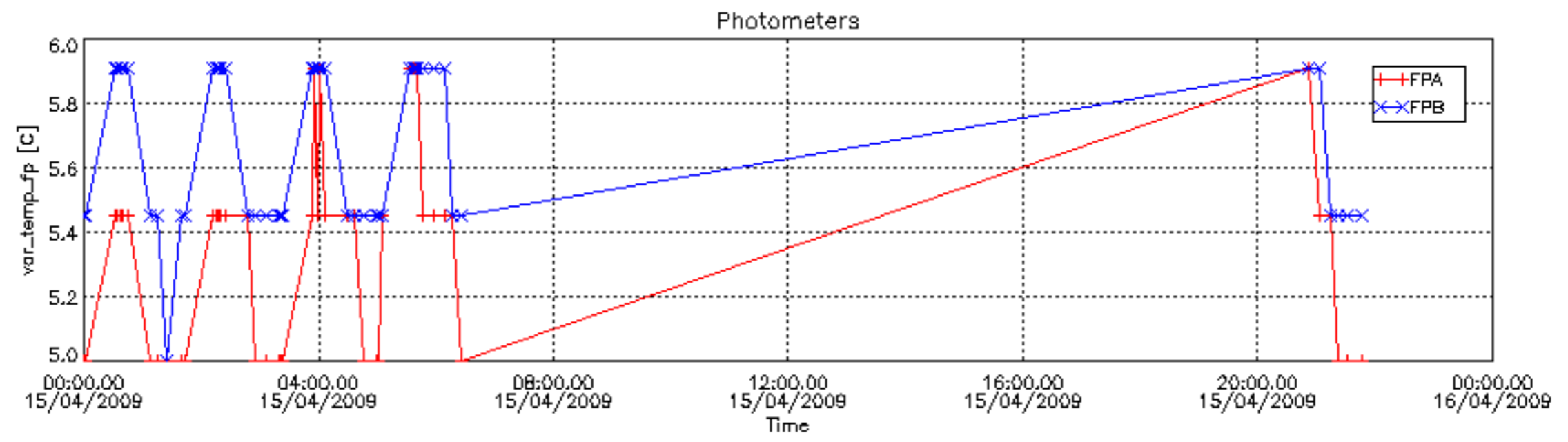
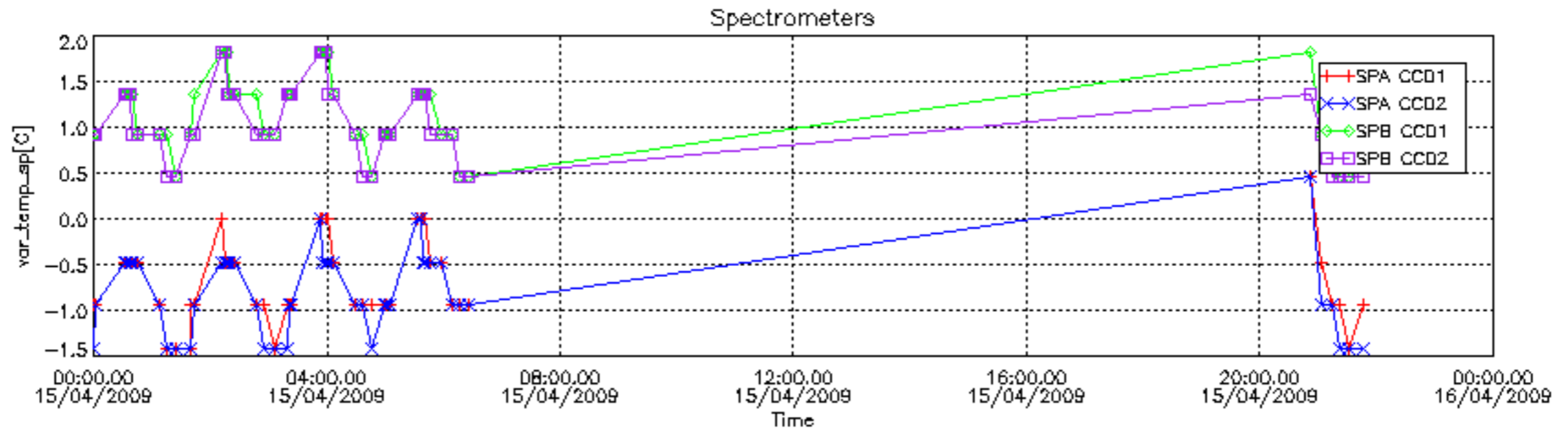


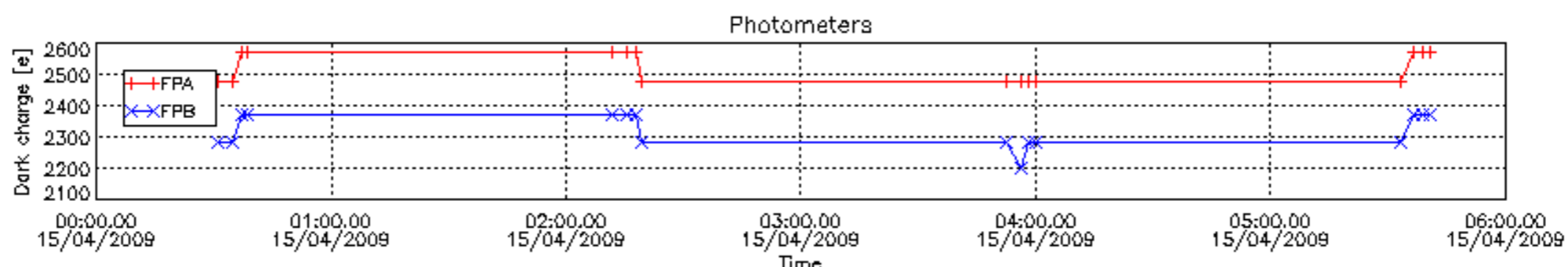
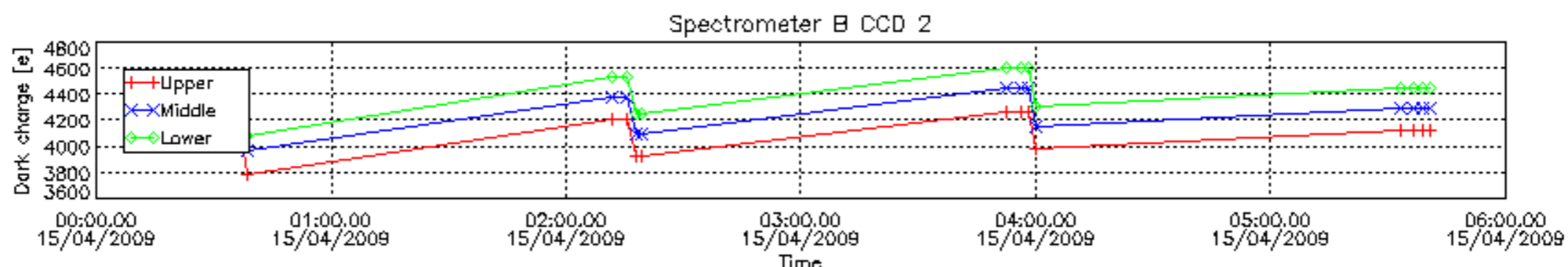
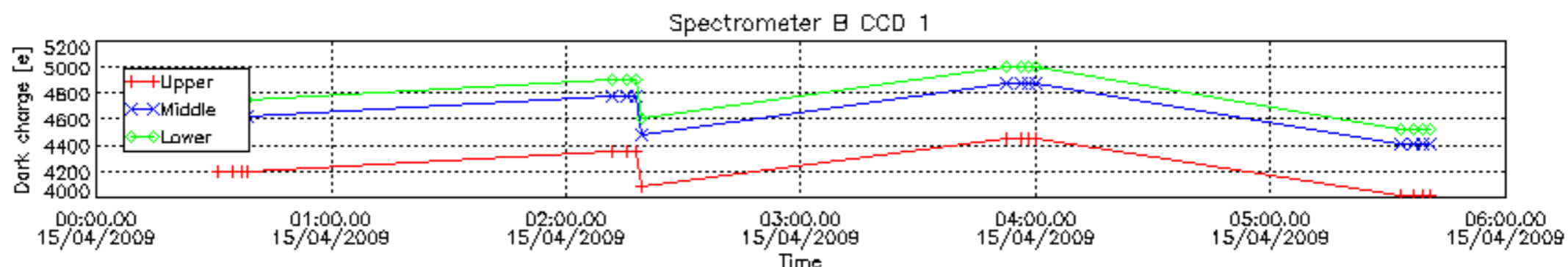
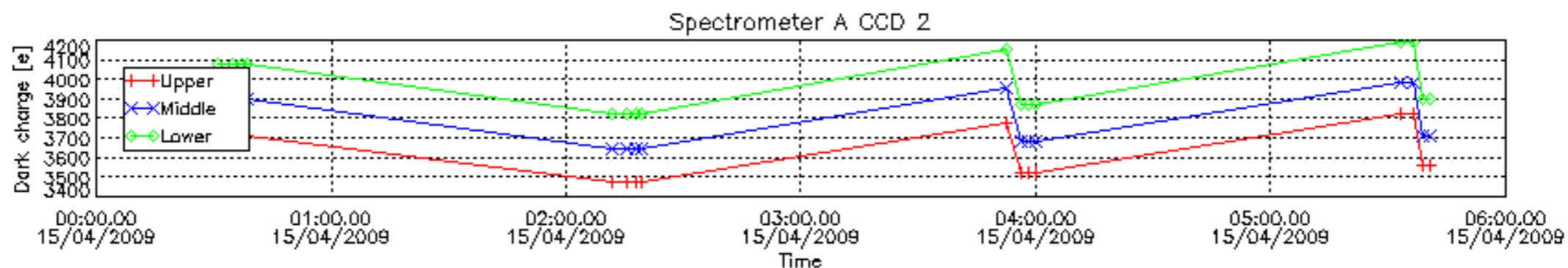
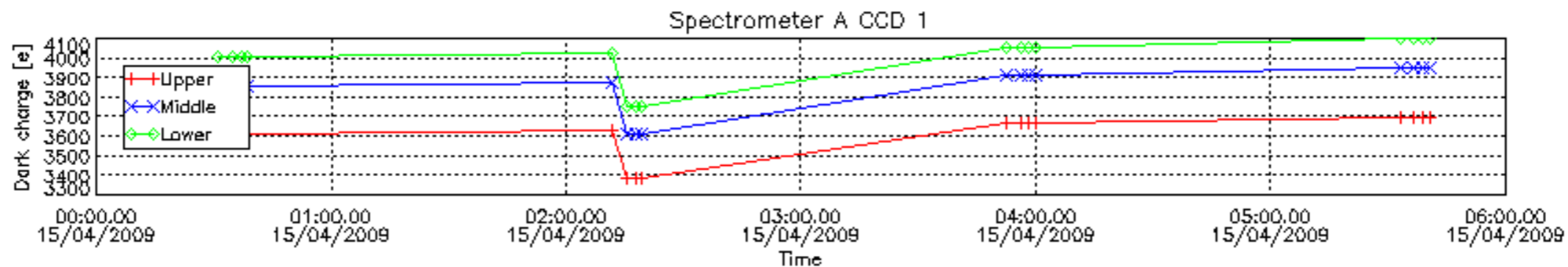
### 8. Auxiliary Data Files used for the production reported in section 2.4

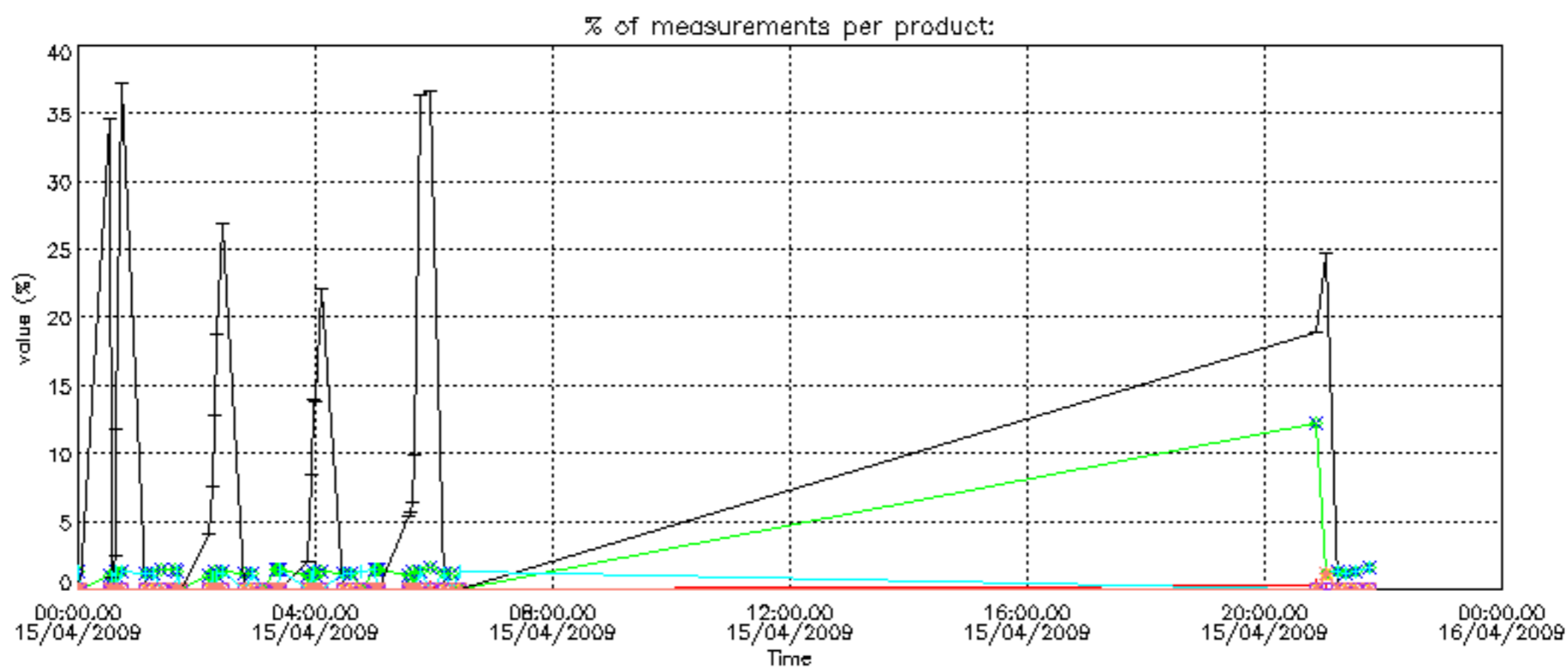
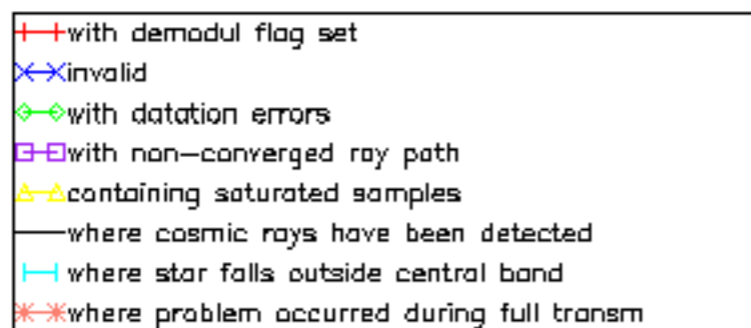
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	15-APR-2009 00:00:00
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090414_083029_20090412_000000_20100101_000000	1	15-APR-2009 00:00:00
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	15-APR-2009 00:00:00
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-APR-2009 00:00:00
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	15-APR-2009 00:00:00
ECMWF_FILE	AUX_ECF_AXNECM20090414_064112_20090414_210000_20090415_090000	1	15-APR-2009 00:00:00
ECMWF_FILE	AUX_ECF_AXNECM20090414_182112_20090415_030000_20090415_150000	22	15-APR-2009 03:19:25
ECMWF_FILE	AUX_ECF_AXNECM20090415_064111_20090415_150000_20090416_030000	45	15-APR-2009 20:51:55
OPTIONAL_ECMWF_FILE	MISSING	1	15-APR-2009 00:00:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090414_204600_000060572078_00114_37242_7751.N1	1	15-APR-2009 00:00:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090414_223216_000057382078_00115_37243_7752.N1	3	15-APR-2009 00:31:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090415_001313_000057382078_00116_37244_7753.N1	14	15-APR-2009 02:11:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090415_015410_000041442078_00117_37245_7754.N1	22	15-APR-2009 03:19:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090415_030315_000060572078_00118_37246_7755.N1	33	15-APR-2009 05:00:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090415_205112_000038252078_00129_37257_7757.N1	45	15-APR-2009 20:51:55

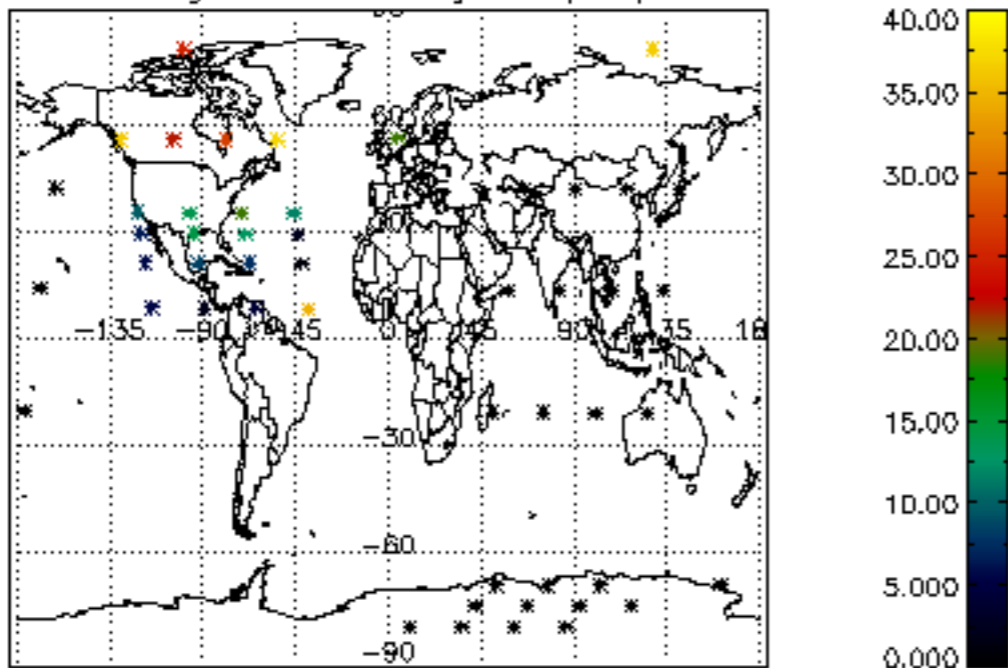




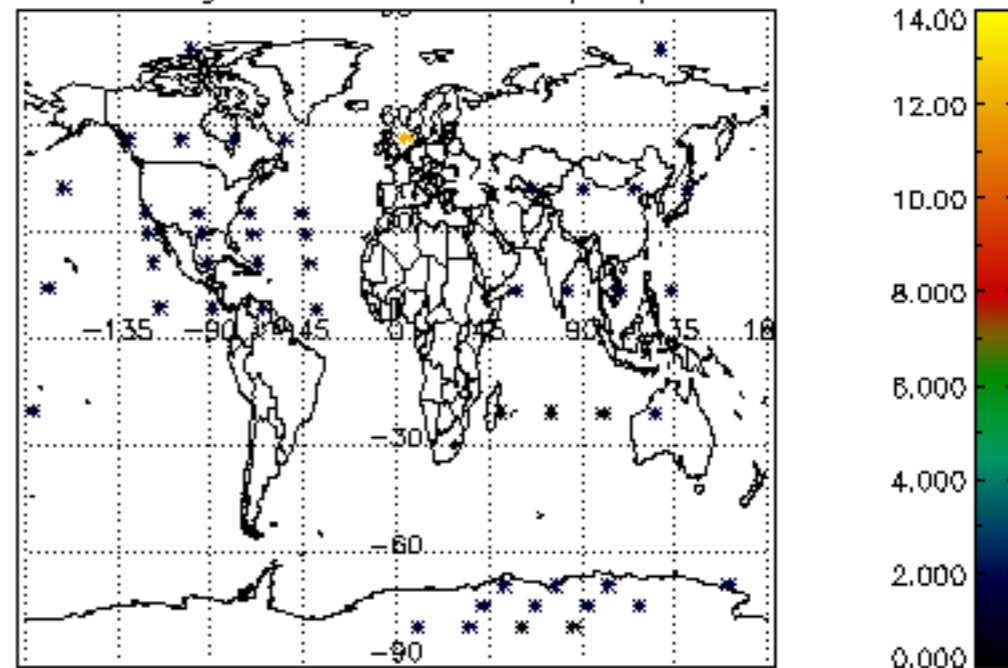




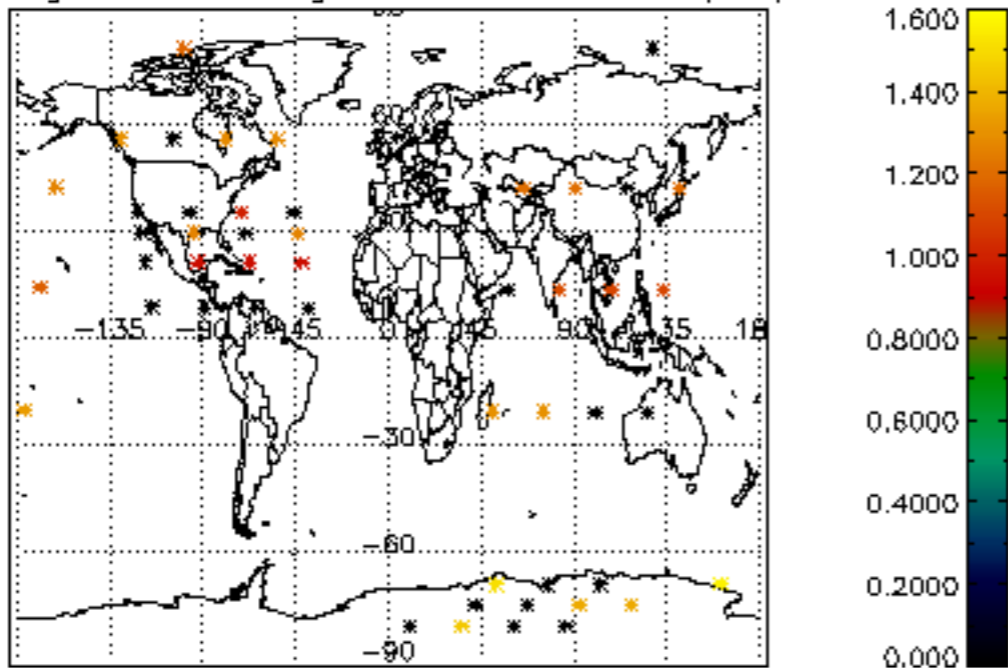
Percentage of cosmic ray hits per profile



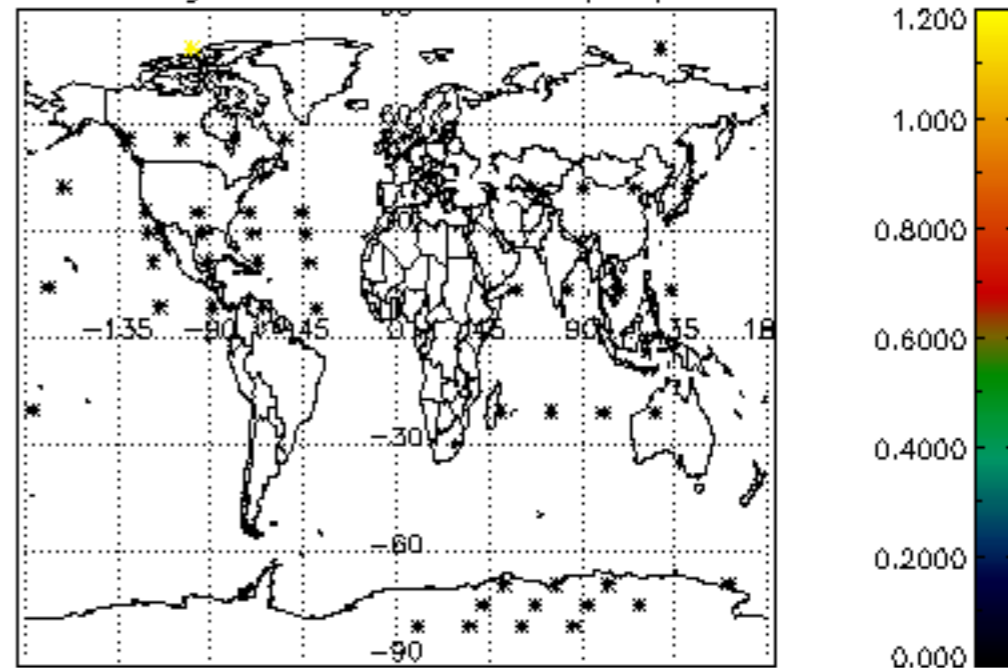
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

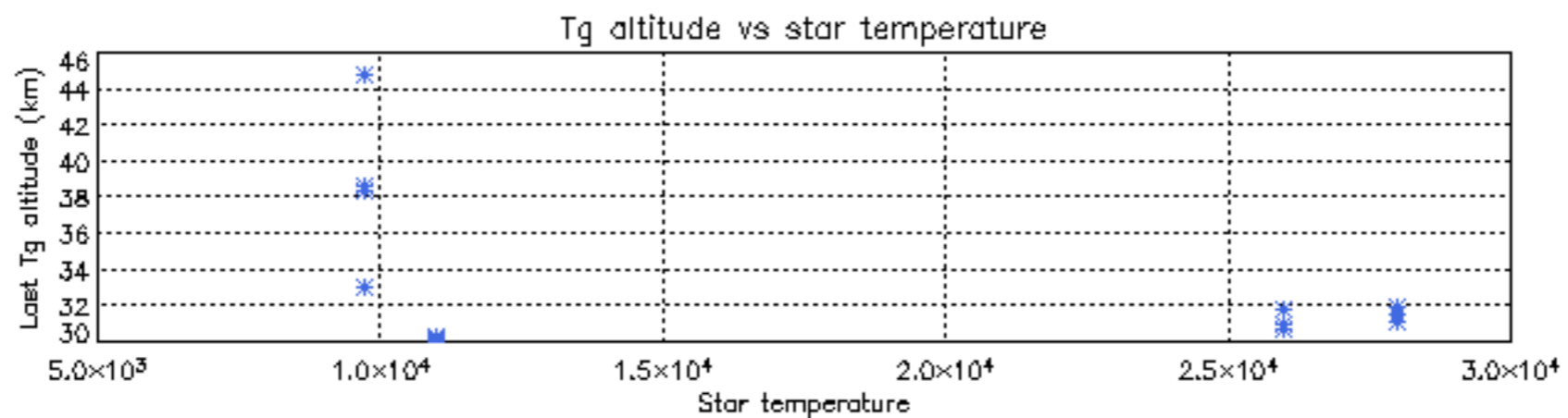
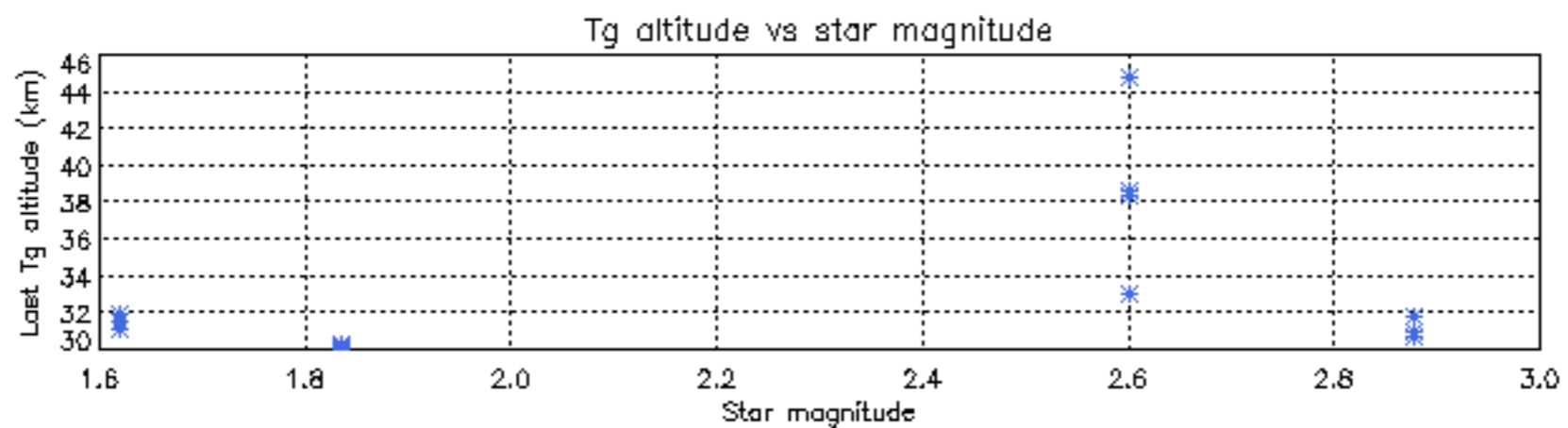
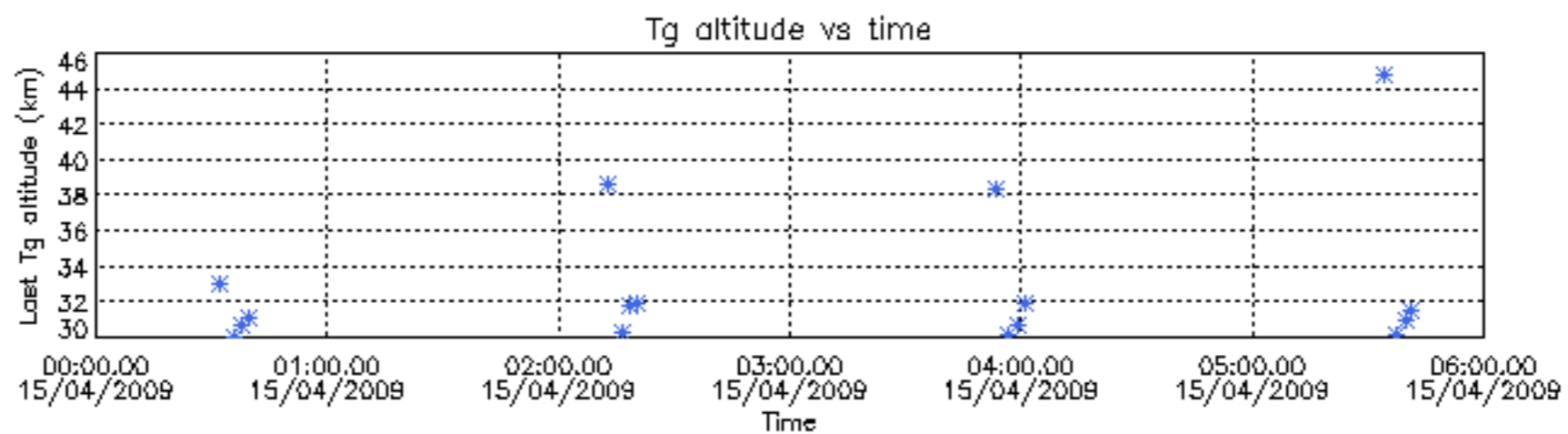


Percentage of saturation errors per profile

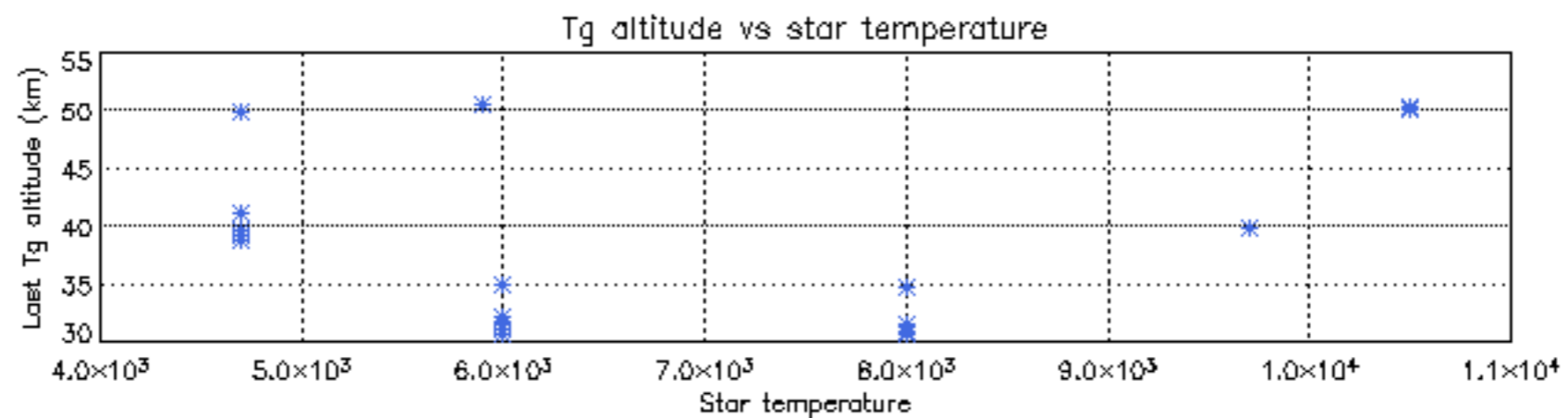
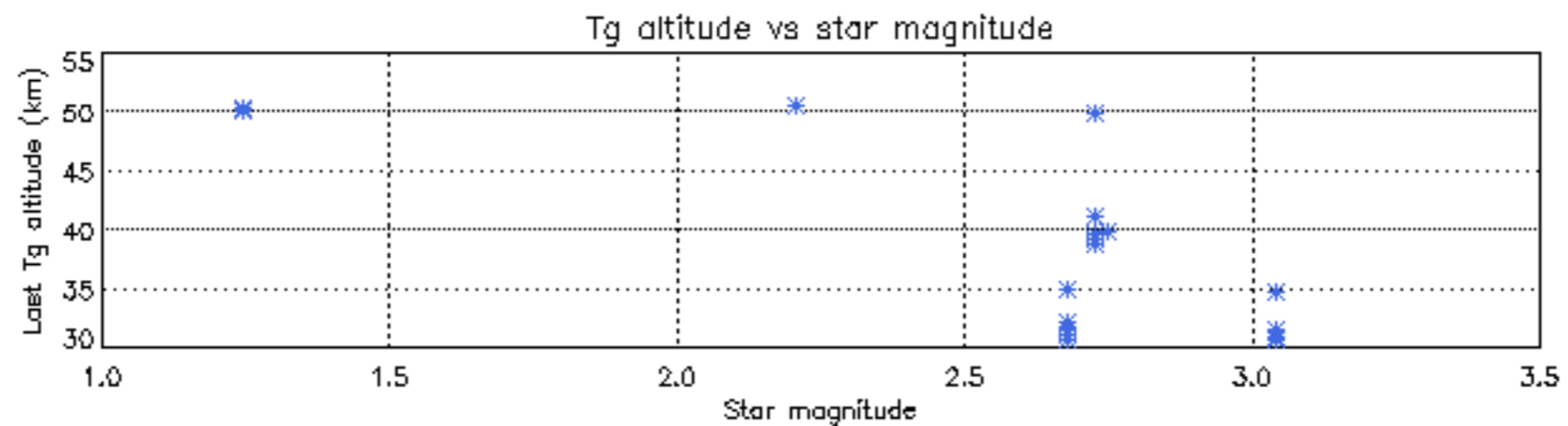
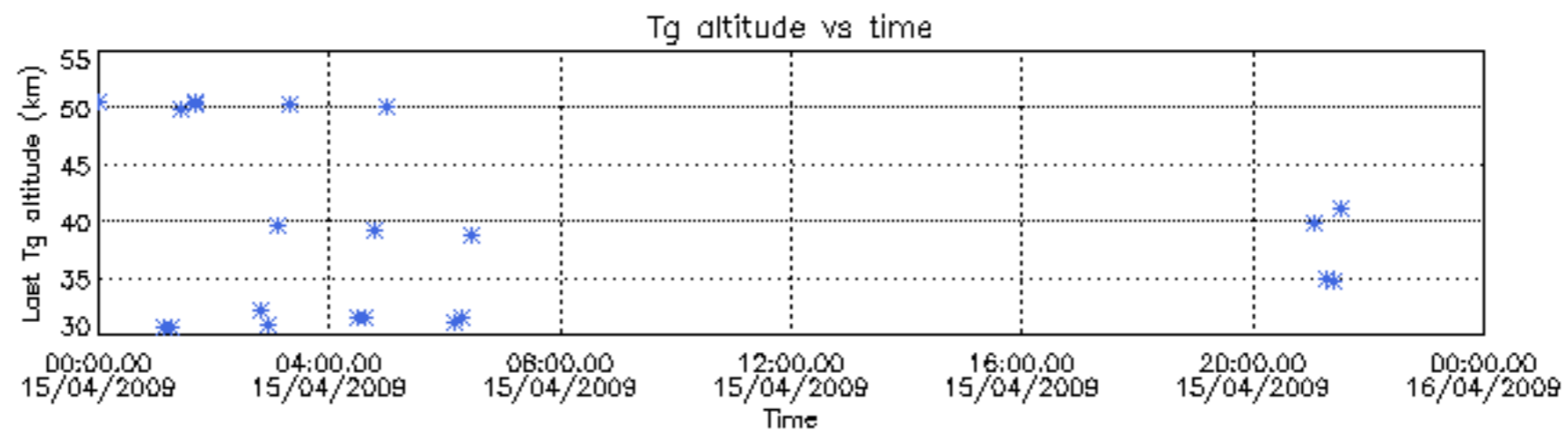


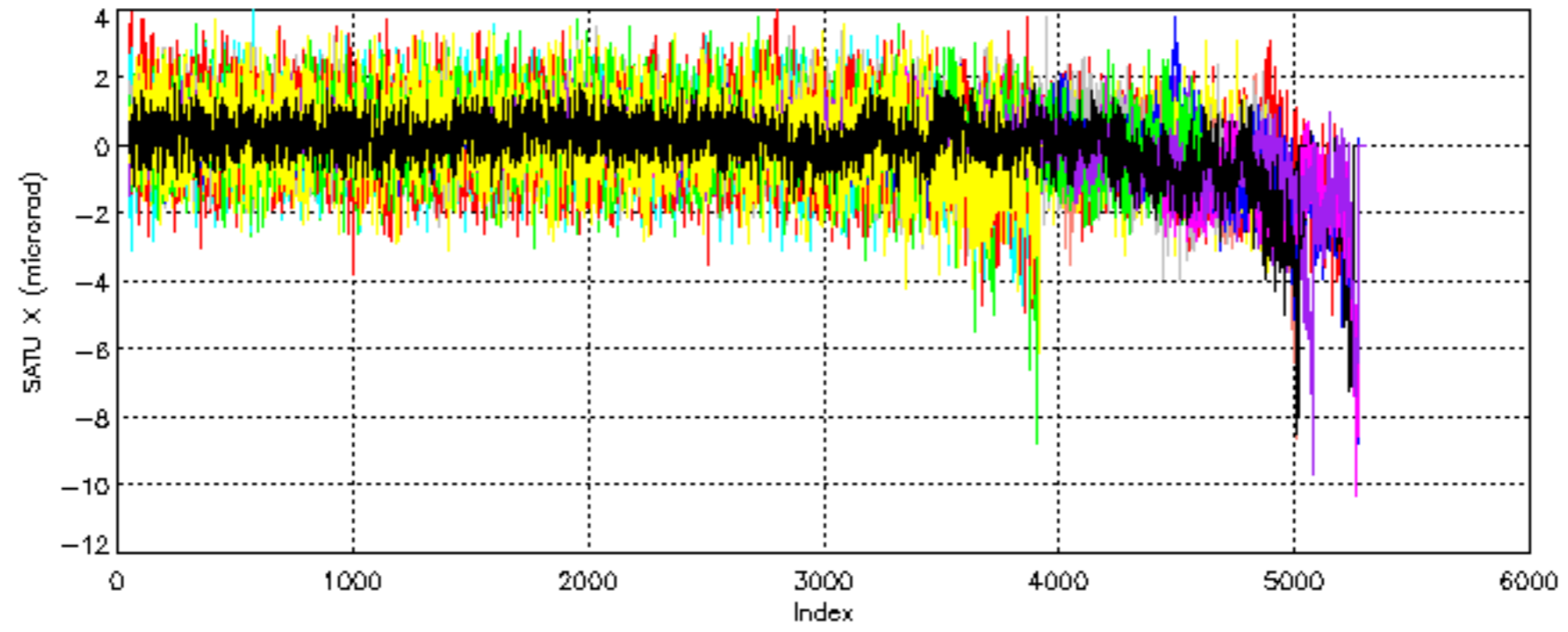


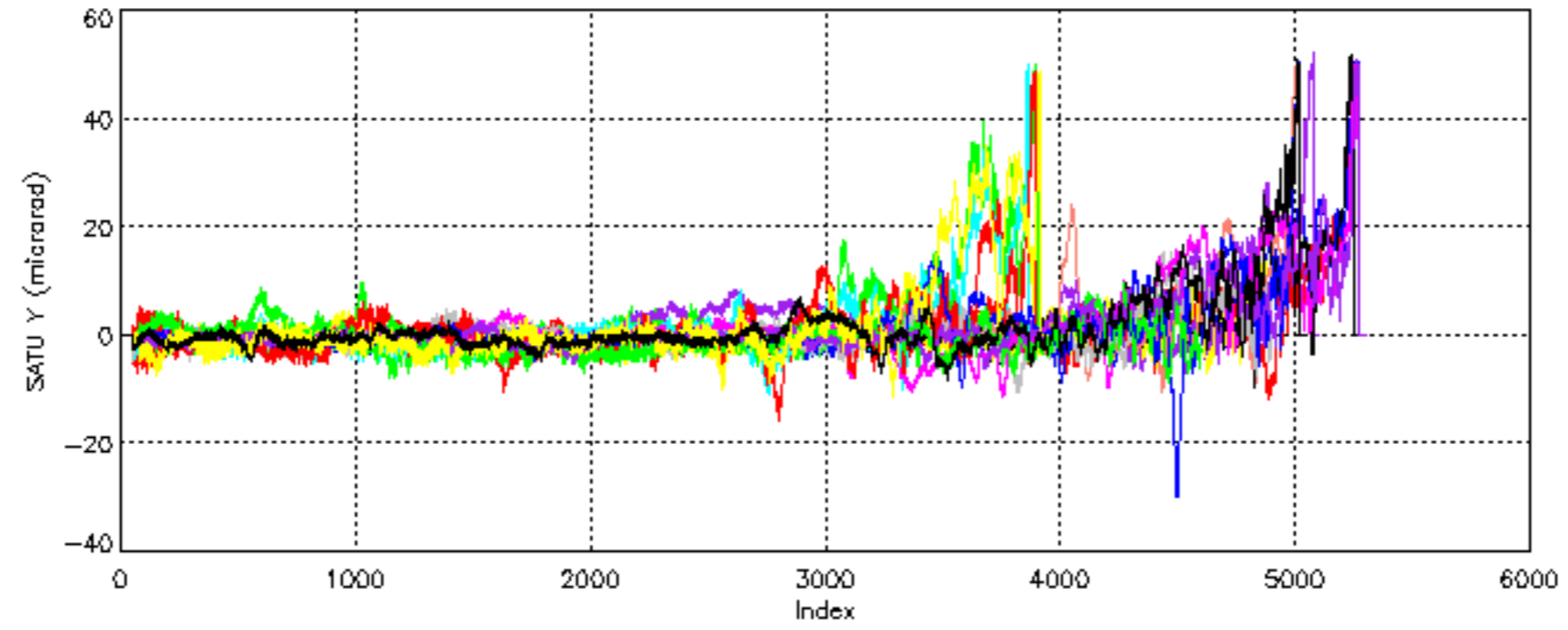
Tangent altitude at which the star is lost

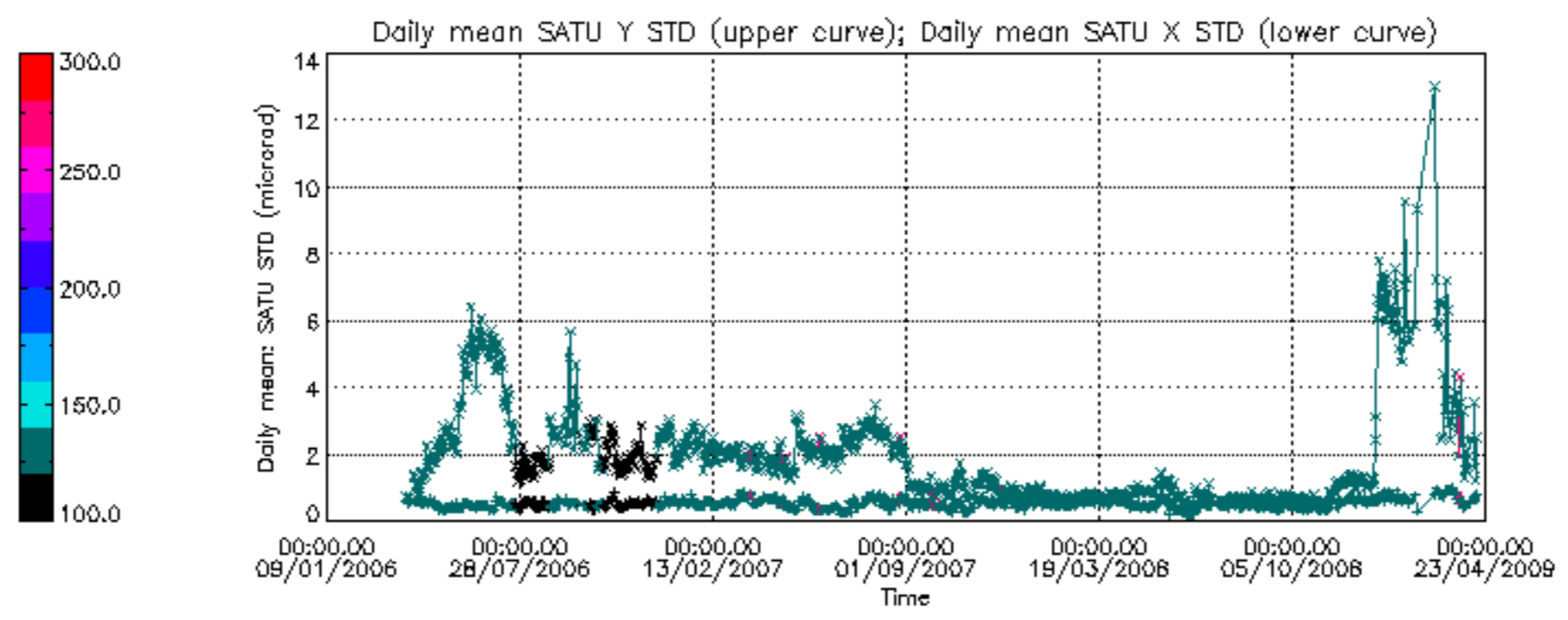


Tangent altitude at which the star is lost









/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

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090401\_205954\_000063352077\_00429\_37056\_7519.N1

1; -984.4; 01-APR-2009 20:59:54; Dark ; 72.0; 11; 53Alp Aql ; 0.76; 8000;occ; 144; 0;37056  
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  
20; 5052.5; 01-APR-2009 22:40:31; Dark ; 70.5; 11; 53Alp Aql ; 0.76; 8000;occ; 141; 0;37057  
21; 5291.1; 01-APR-2009 22:44:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37057

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090401\_224449\_000060762077\_00430\_37057\_7520.N1

1; -725.3; 01-APR-2009 22:44:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 39;37057  
2; -126.4; 01-APR-2009 22:54:48; Dark ; 54.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 109; 0;37057  
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  
19; 5292.0; 02-APR-2009 00:25:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37058

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090401\_140715\_000000062077\_00425\_37052\_3560.N1

1; -1600.1; 01-APR-2009 14:07:15; Bright; 6.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 13; 0;37052

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090401\_150203\_000055032077\_00426\_37053\_3561.N1

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

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090401\_163823\_000030422077\_00427\_37054\_3562.N1

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

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20090401\_184421\_000000172077\_00428\_37055\_3563.N1

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

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090402\_003313\_000053762077\_00431\_37058\_7521.N1

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

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090402\_020248\_000044632077\_00432\_37059\_7522.N1

1; -917.9; 02-APR-2009 02:02:48; Dark ; 66.0; 11; 53Alp Aql ; 0.76; 8000;occ; 132; 128;37059  
 2; -742.9; 02-APR-2009 02:05:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37059  
 3; -255.9; 02-APR-2009 02:13:50; Dark ; 57.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 115; 0;37059  
 4; -123.9; 02-APR-2009 02:16:02; Dark ; 56.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 112; 0;37059  
 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  
 9; 1108.6; 02-APR-2009 02:36:35; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;37060  
 10; 1433.7; 02-APR-2009 02:42:00; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;37060  
 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  
 13; 2154.6; 02-APR-2009 02:54:01; Bright; 48.0; 138; 47Eps Vir ; 2.83; 4700;occ; 96; 0;37060  
 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  
 16; 3498.8; 02-APR-2009 03:16:25; Bright; 47.0; 119; 14Eta Dra ; 2.73; 4700;occ; 94; 0;37060

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20090402\_032803\_000054072077\_00433\_37060\_7523.N1

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5; 2694.0; 23-APR-2009 15:27:27; Bright; 45.0; 180; 27Gam Boo ; 3.04; 8000;occ; 90; 0;37368  
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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  
7; 3855.9; 23-APR-2009 17:27:25; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;37369

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3;	1028.9;	29-APR-2009	20:13:00;	Dark	;	60.5;	75;	26Eps Sco	;	2.29;	4250;occ;	121;	0;	37457
4;	1200.4;	29-APR-2009	20:15:52;	Dark	;	35.0;	136;	23Tau Sco	;	2.82;	30000;occ;	70;	0;	37457
5;	1293.5;	29-APR-2009	20:17:25;	Dark	;	39.0;	156;	20Sig Sco	;	2.90;	28000;occ;	78;	0;	37457
6;	1395.6;	29-APR-2009	20:19:07;	Dark	;	63.0;	80;	7Del Sco	;	2.32;	30000;occ;	126;	0;	37457
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9;	2269.4;	29-APR-2009	20:33:41;	Bright;		60.0;	3;	16Alp Boo	;	-0.05;	4250;occ;	120;	0;	37457
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13;	3833.2;	29-APR-2009	20:59:45;	Bright;		41.5;	89;	5Alp Cep	;	2.45;	8000;occ;	83;	0;	37457
14;	4506.3;	29-APR-2009	21:10:58;	Bright;		42.5;	164;	44Eta Peg	;	2.95;	5400;occ;	85;	0;	37457
15;	5020.1;	29-APR-2009	21:19:32;	Dark	;	64.5;	61;	8Eps Peg	;	2.10;	3900;occ;	129;	0;	37457
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3;	734.5;	29-APR-2009	21:48:42;	Dark	;	49.5;	40;	The Sco	;	1.86;	7100;occ;	99;	0;	37458
4;	838.4;	29-APR-2009	21:50:26;	Dark	;	64.0;	25;	35Lam Sco	;	1.62;	28000;occ;	128;	0;	37458
5;	1029.6;	29-APR-2009	21:53:37;	Dark	;	63.0;	75;	26Eps Sco	;	2.29;	4250;occ;	126;	0;	37458
6;	1201.0;	29-APR-2009	21:56:28;	Dark	;	38.0;	136;	23Tau Sco	;	2.82;	30000;occ;	76;	0;	37458
7;	1293.5;	29-APR-2009	21:58:01;	Dark	;	43.0;	156;	20Sig Sco	;	2.90;	28000;occ;	86;	0;	37458
8;	1396.2;	29-APR-2009	21:59:44;	Dark	;	61.5;	80;	7Del Sco	;	2.32;	30000;occ;	123;	0;	37458
9;	1589.1;	29-APR-2009	22:02:57;	Bright;		46.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	92;	0;	37458
10;	1729.2;	29-APR-2009	22:05:17;	Bright;		50.0;	104;	27Bet Lib	;	2.61;	13100;occ;	100;	0;	37458
11;	2268.9;	29-APR-2009	22:14:16;	Bright;		60.0;	3;	16Alp Boo	;	-0.05;	4250;occ;	120;	0;	37458
12;	2463.8;	29-APR-2009	22:17:31;	Bright;		48.5;	83;		;	2.38;	11000;occ;	97;	0;	37458
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15;	3832.8;	29-APR-2009	22:40:20;	Bright;		52.0;	89;	5Alp Cep	;	2.45;	8000;occ;	104;	0;	37458
16;	4506.4;	29-APR-2009	22:51:34;	Bright;		43.0;	164;	44Eta Peg	;	2.95;	5400;occ;	86;	0;	37458
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2;	-493.8;	29-APR-2009	23:08:49;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	37458
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4;	839.3;	29-APR-2009	23:31:03;	Dark	;	55.5;	25;	35Lam Sco	;	1.62;	28000;occ;	111;	0;	37459
5;	1030.5;	29-APR-2009	23:34:14;	Dark	;	59.5;	75;	26Eps Sco	;	2.29;	4250;occ;	119;	0;	37459
6;	1201.7;	29-APR-2009	23:37:05;	Dark	;	38.0;	136;	23Tau Sco	;	2.82;	30000;occ;	76;	0;	37459
7;	1294.3;	29-APR-2009	23:38:38;	Dark	;	43.0;	156;	20Sig Sco	;	2.90;	28000;occ;	86;	0;	37459
8;	1396.2;	29-APR-2009	23:40:20;	Dark	;	60.0;	80;	7Del Sco	;	2.32;	30000;occ;	120;	0;	37459
9;	1589.1;	29-APR-2009	23:43:32;	Bright;		44.0;	122;	9Alp2Lib	;	2.75;	9700;occ;	88;	0;	37459
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14;	3219.1;	30-APR-2009	00:10:42;	Bright;		43.5;	119;	14Eta Dra	;	2.73;	4700;occ;	87;	0;	37459
15;	3832.6;	30-APR-2009	00:20:56;	Bright;		41.0;	89;	5Alp Cep	;	2.45;	8000;occ;	82;	0;	37459
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17;	5021.7;	30-APR-2009	00:40:45;	Dark	;	63.0;	61;	8Eps Peg	;	2.10;	3900;occ;	126;	0;	37459
18;	5167.9;	30-APR-2009	00:43:11;	Dark	;	50.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	101;	0;	37459

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3;	1729.9;	29-APR-2009	12:01:42;	Bright;		50.5;	104;	27Bet Lib	;	2.61;	13100;occ;	101;	0;	37452
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5;	2467.2;	29-APR-2009	12:13:59;	Bright;		43.5;	83;		;	2.38;	11000;occ;	87;	0;	37452
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