

# GOMOS Daily Report 18-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	21APR2009 05:36:25
Data source version	GOMOS/5.00
Start time of products	18APR2009 00:03:52
Stop time of products	18APR2009 21:08:03
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)

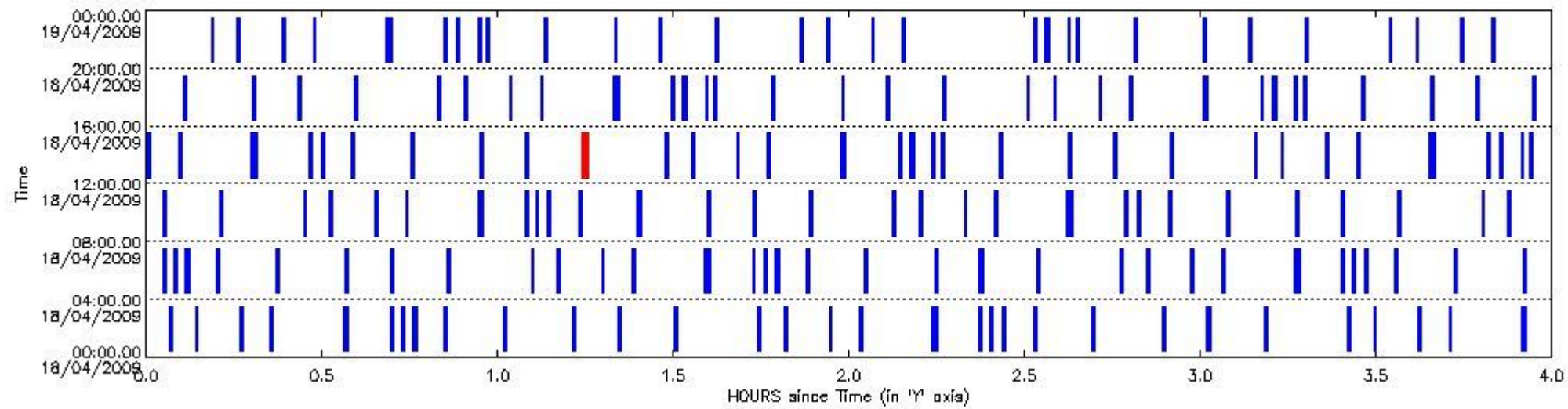
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

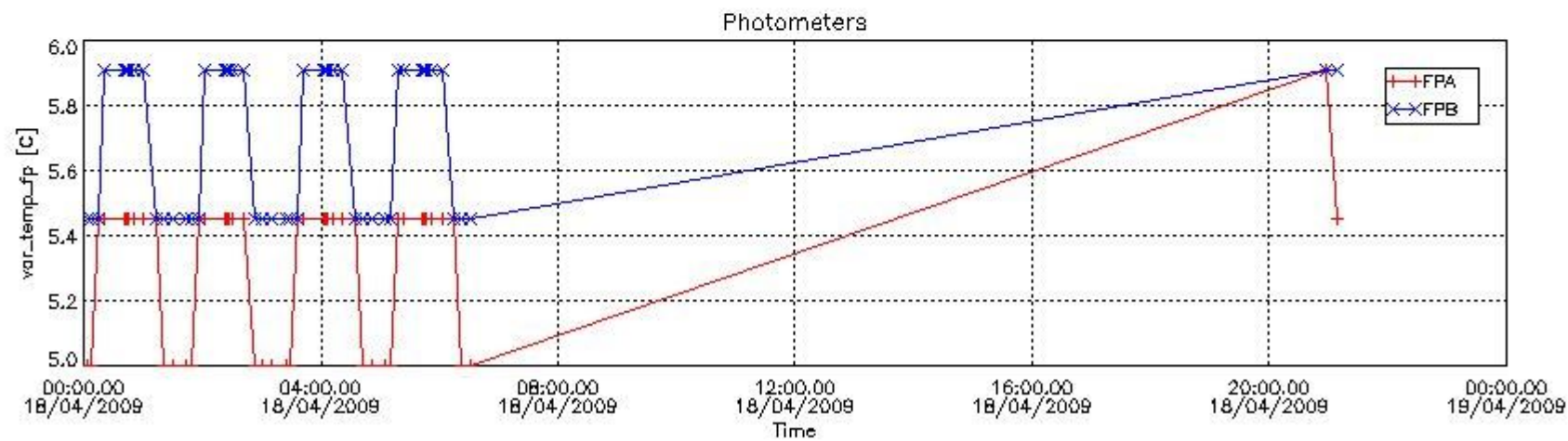
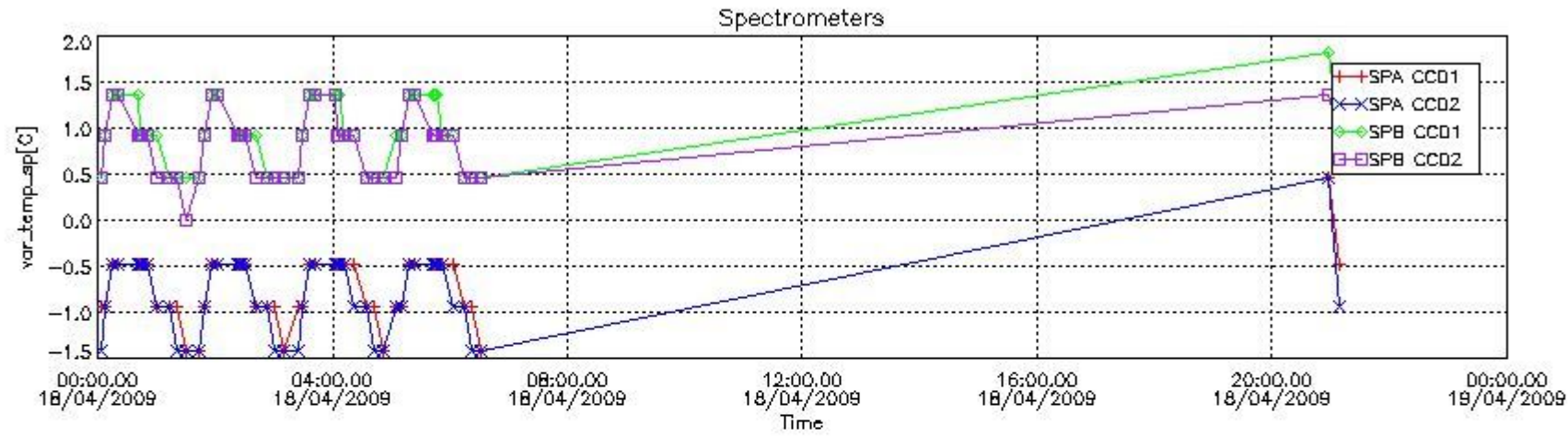
UTC start time	Star name	Star ID	Orbit
18-APR-2009 13:14:21	14EtaDra	119	37295

### 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_1PNPDE20090418_000352_000000282078_00159_37287_8646.N1	18-APR-2009 00:03:52	Twilight	27.500	19	50Alp Cyg	1.2460	10500.	55	37287	No
2	GOM_TRA_1PNPDE20090418_000820_000000312078_00159_37287_8647.N1	18-APR-2009 00:08:20	Twilight	30.500	92	53Eps Cyg	2.5000	4500.0	61	37287	No
3	GOM_TRA_1PNPDE20090418_001558_000000272078_00159_37287_8648.N1	18-APR-2009 00:15:58	Dark	26.500	61	8Eps Peg	2.1000	3900.0	53	37287	No
4	GOM_TRA_1PNPDE20090418_002111_000000282078_00159_37287_8649.N1	18-APR-2009 00:21:11	Dark	28.000	154	22Bet Aqr	2.8990	5700.0	56	37287	No
5	GOM_TRA_1PNPDE20090418_004138_000000282078_00160_37288_8792.N1	18-APR-2009 00:41:38	Dark	28.000	38	20Eps Sgr	1.8360	11000.	56	37288	No
6	GOM_TRA_1PNPDE20090418_004328_000000342078_00160_37288_8793.N1	18-APR-2009 00:43:28	Dark	33.500	147	Alp Ara	2.8770	26000.	67	37288	No
7	GOM_TRA_1PNPDE20090418_004525_000000422078_00160_37288_8794.N1	18-APR-2009 00:45:25	Straylight	42.000	25	35Lam Sco	1.6200	28000.	84	37288	No
8	GOM_TRA_1PNPDE20090418_005048_000000322078_00160_37288_8795.N1	18-APR-2009 00:50:48	Straylight	31.500	131	Gam Lup	2.8000	26000.	63	37288	No
9	GOM_TRA_1PNPDE20090418_010050_000000352078_00160_37288_8796.N1	18-APR-2009 01:00:50	Twilight	35.000	122	9Alp2Lib	2.7470	9700.0	70	37288	No
10	GOM_TRA_1PNPDE20090418_011247_000000332078_00160_37288_8797.N1	18-APR-2009 01:12:47	Bright	33.000	111	8Eta Boo	2.6800	6000.0	66	37288	No

11	GOM_TRA_1PNPDE20090418_012030_000000362078_00160_37288_8798.N1	18-APR-2009 01:20:30	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	37288	No
12	GOM_TRA_1PNPDE20090418_013012_000000322078_00160_37288_8799.N1	18-APR-2009 01:30:12	Twilight	32.000	119	14Eta Dra	2.7270	4700.0	64	37288	No
13	GOM_TRA_1PNPDE20090418_014427_000000272078_00160_37288_8800.N1	18-APR-2009 01:44:27	Twilight	27.000	19	50Alp Cyg	1.2460	10500.	54	37288	No
14	GOM_TRA_1PNPDE20090418_014856_000000292078_00160_37288_8801.N1	18-APR-2009 01:48:56	Twilight	28.500	92	53Eps Cyg	2.5000	4500.0	57	37288	No
15	GOM_TRA_1PNPDE20090418_015634_000000252078_00160_37288_8802.N1	18-APR-2009 01:56:34	Dark	25.000	61	8Eps Peg	2.1000	3900.0	50	37288	No
16	GOM_TRA_1PNPDE20090418_020147_000000282078_00160_37288_8944.N1	18-APR-2009 02:01:47	Dark	28.000	154	22Bet Aqr	2.8990	5700.0	56	37288	No
17	GOM_TRA_1PNPDE20090418_022216_000000282078_00161_37289_8945.N1	18-APR-2009 02:22:16	Dark	28.000	38	20Eps Sgr	1.8360	11000.	56	37289	No
18	GOM_TRA_1PNPDE20090418_022405_000000352078_00161_37289_8946.N1	18-APR-2009 02:24:05	Dark	35.000	147	Alp Ara	2.8770	26000.	70	37289	No
19	GOM_TRA_1PNPDE20090418_022603_000000452078_00161_37289_8947.N1	18-APR-2009 02:26:03	Straylight	44.500	25	35Lam Sco	1.6200	28000.	89	37289	No
20	GOM_TRA_1PNPDE20090418_023125_000000332078_00161_37289_8948.N1	18-APR-2009 02:31:25	Straylight	33.000	131	Gam Lup	2.8000	26000.	66	37289	No
21	GOM_TRA_1PNPDE20090418_024126_000000372078_00161_37289_8949.N1	18-APR-2009 02:41:26	Bright	37.000	122	9Alp2Lib	2.7470	9700.0	74	37289	No
22	GOM_TRA_1PNPDE20090418_025322_000000352078_00161_37289_8950.N1	18-APR-2009 02:53:22	Bright	34.500	111	8Eta Boo	2.6800	6000.0	69	37289	No
23	GOM_TRA_1PNPDE20090418_030105_000000382078_00161_37289_8951.N1	18-APR-2009 03:01:05	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	37289	No
24	GOM_TRA_1PNPDE20090418_031047_000000332078_00161_37289_8952.N1	18-APR-2009 03:10:47	Twilight	33.000	119	14Eta Dra	2.7270	4700.0	66	37289	No
25	GOM_TRA_1PNPDE20090418_032503_000000292078_00161_37289_9110.N1	18-APR-2009 03:25:03	Twilight	29.000	19	50Alp Cyg	1.2460	10500.	58	37289	No
26	GOM_TRA_1PNPDE20090418_032932_000000312078_00161_37289_9111.N1	18-APR-2009 03:29:32	Twilight	30.500	92	53Eps Cyg	2.5000	4500.0	61	37289	No
27	GOM_TRA_1PNPDE20090418_033710_000000282078_00161_37289_9112.N1	18-APR-2009 03:37:10	Dark	27.500	61	8Eps Peg	2.1000	3900.0	55	37289	No
28	GOM_TRA_1PNPDE20090418_034224_000000302078_00161_37289_9113.N1	18-APR-2009 03:42:24	Dark	29.500	154	22Bet Aqr	2.8990	5700.0	59	37289	No
29	GOM_TRA_1PNPDE20090418_040253_000000272078_00162_37290_9114.N1	18-APR-2009 04:02:53	Dark	27.000	38	20Eps Sgr	1.8360	11000.	54	37290	No
30	GOM_TRA_1PNPDE20090418_040442_000000342078_00162_37290_9115.N1	18-APR-2009 04:04:42	Dark	34.000	147	Alp Ara	2.8770	26000.	68	37290	No
31	GOM_TRA_1PNPDE20090418_040640_000000432078_00162_37290_9116.N1	18-APR-2009 04:06:40	Straylight	43.000	25	35Lam Sco	1.6200	28000.	86	37290	No
32	GOM_TRA_1PNPDE20090418_041201_000000322078_00162_37290_9117.N1	18-APR-2009 04:12:01	Straylight	32.000	131	Gam Lup	2.8000	26000.	64	37290	No
33	GOM_TRA_1PNPDE20090418_042202_000000362078_00162_37290_9118.N1	18-APR-2009 04:22:02	Twilight	35.500	122	9Alp2Lib	2.7470	9700.0	71	37290	No
34	GOM_TRA_1PNPDE20090418_043358_000000342078_00162_37290_9119.N1	18-APR-2009 04:33:58	Bright	33.500	111	8Eta Boo	2.6800	6000.0	67	37290	No
35	GOM_TRA_1PNPDE20090418_044140_000000372078_00162_37290_9120.N1	18-APR-2009 04:41:40	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	37290	No
36	GOM_TRA_1PNPDE20090418_045123_000000322078_00162_37290_9121.N1	18-APR-2009 04:51:23	Twilight	32.000	119	14Eta Dra	2.7270	4700.0	64	37290	No
37	GOM_TRA_1PNPDE20090418_050539_000000282078_00162_37290_9293.N1	18-APR-2009 05:05:39	Twilight	27.500	19	50Alp Cyg	1.2460	10500.	55	37290	No
38	GOM_TRA_1PNPDE20090418_051008_000000302078_00162_37290_9294.N1	18-APR-2009 05:10:08	Twilight	30.000	92	53Eps Cyg	2.5000	4500.0	60	37290	No
39	GOM_TRA_1PNPDE20090418_051747_000000272078_00162_37290_9295.N1	18-APR-2009 05:17:47	Dark	26.500	61	8Eps Peg	2.1000	3900.0	53	37290	No
40	GOM_TRA_1PNPDE20090418_052301_000000292078_00162_37290_9296.N1	18-APR-2009 05:23:01	Dark	29.000	154	22Bet Aqr	2.8990	5700.0	58	37290	No
41	GOM_TRA_1PNPDE20090418_054331_000000272078_00163_37291_9297.N1	18-APR-2009 05:43:31	Dark	27.000	38	20Eps Sgr	1.8360	11000.	54	37291	No
42	GOM_TRA_1PNPDE20090418_054519_000000342078_00163_37291_9298.N1	18-APR-2009 05:45:19	Dark	33.500	147	Alp Ara	2.8770	26000.	67	37291	No
43	GOM_TRA_1PNPDE20090418_054717_000000432078_00163_37291_9299.N1	18-APR-2009 05:47:17	Straylight	43.000	25	35Lam Sco	1.6200	28000.	86	37291	No
44	GOM_TRA_1PNPDE20090418_055238_000000322078_00163_37291_9300.N1	18-APR-2009 05:52:38	Straylight	32.000	131	Gam Lup	2.8000	26000.	64	37291	No
45	GOM_TRA_1PNPDE20090418_060238_000000362078_00163_37291_9301.N1	18-APR-2009 06:02:38	Twilight	35.500	122	9Alp2Lib	2.7470	9700.0	71	37291	No
46	GOM_TRA_1PNPDE20090418_061433_000000342078_00163_37291_9302.N1	18-APR-2009 06:14:33	Bright	33.500	111	8Eta Boo	2.6800	6000.0	67	37291	No
47	GOM_TRA_1PNPDE20090418_062215_000000372078_00163_37291_9303.N1	18-APR-2009 06:22:15	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	37291	No
48	GOM_TRA_1PNPDE20090418_063158_000000322078_00163_37291_9304.N1	18-APR-2009 06:31:58	Twilight	31.500	119	14Eta Dra	2.7270	4700.0	63	37291	No
49	GOM_TRA_1PNPDE20090418_205807_000000292078_00172_37300_9688.N1	18-APR-2009 20:58:07	Straylight	29.000	131	Gam Lup	2.8000	26000.	58	37300	Yes
50	GOM_TRA_1PNPDE20090418_210803_000000322078_00172_37300_9689.N1	18-APR-2009 21:08:03	Twilight	32.000	122	9Alp2Lib	2.7470	9700.0	64	37300	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).

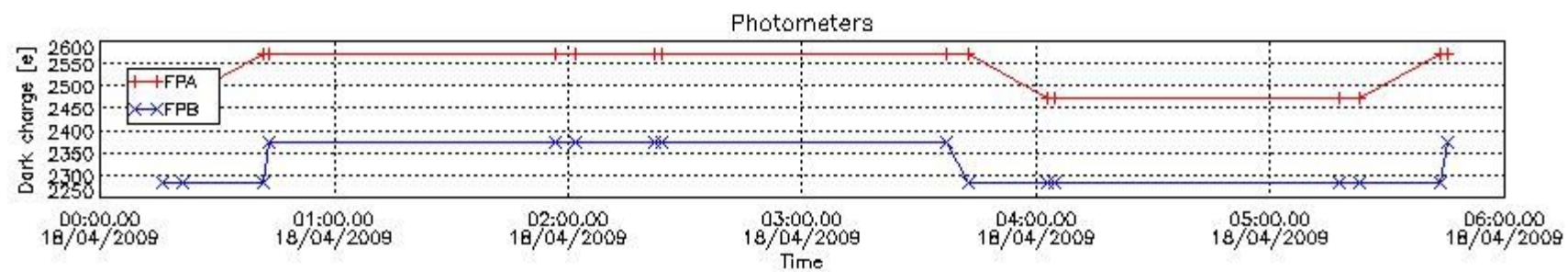
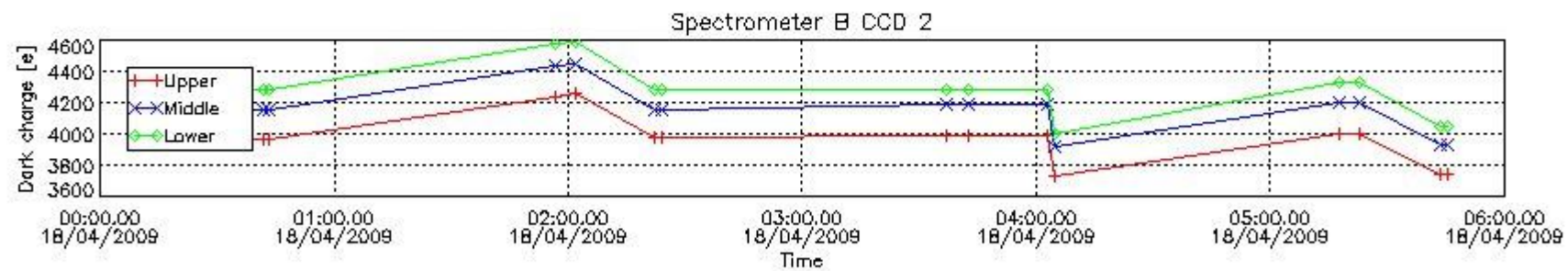
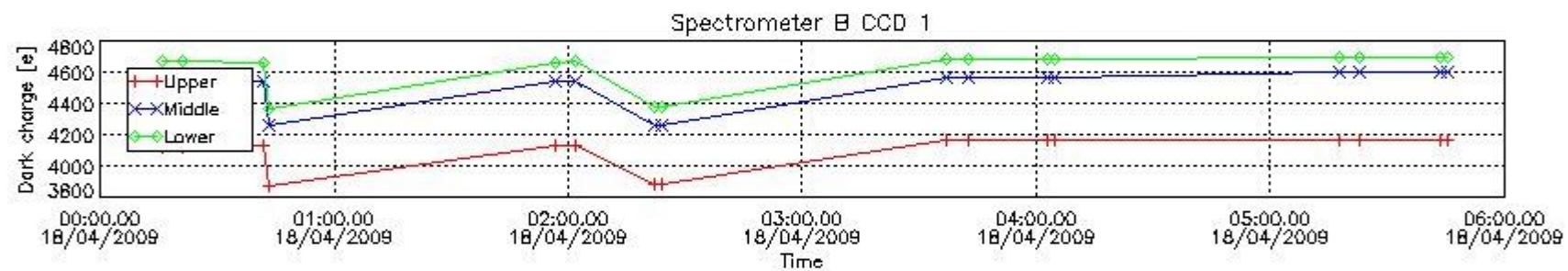
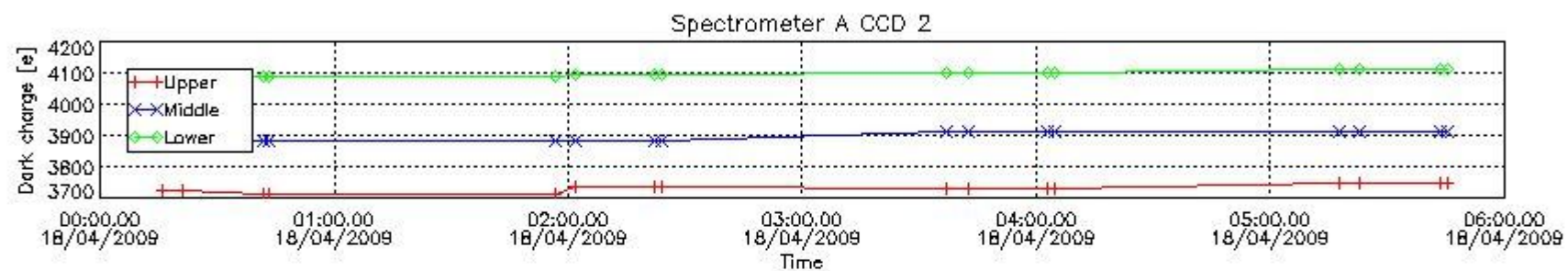
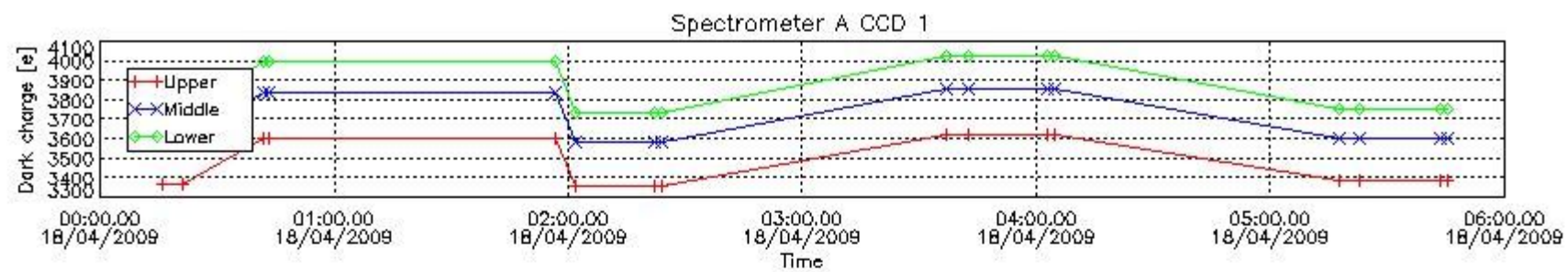
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090418_205807_000000292078_00172_37300_9688.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090418_210803_000000322078_00172_37300_9689.N1	DC map used

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





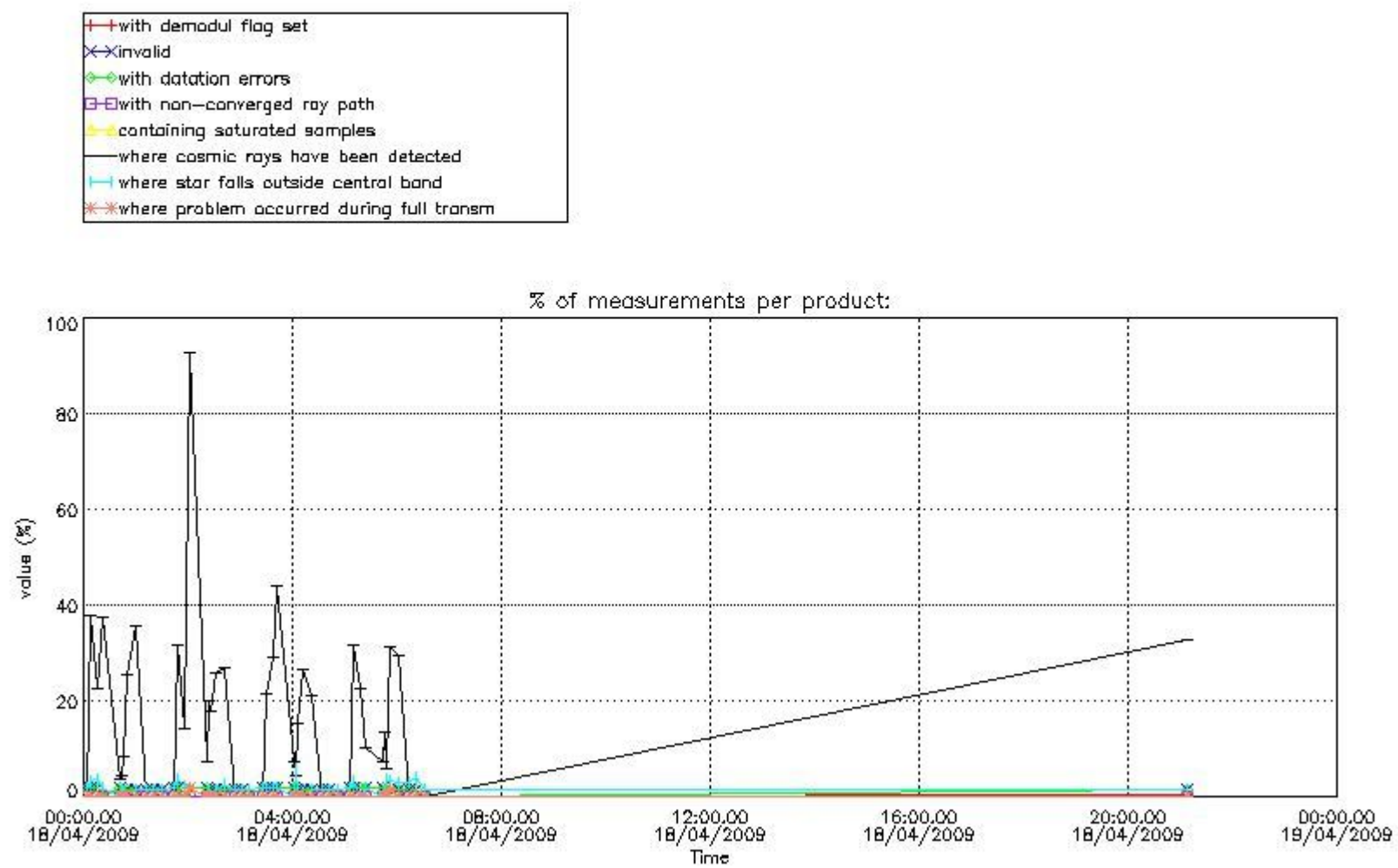
## 5. Demodulation flag and quality information monitoring

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.

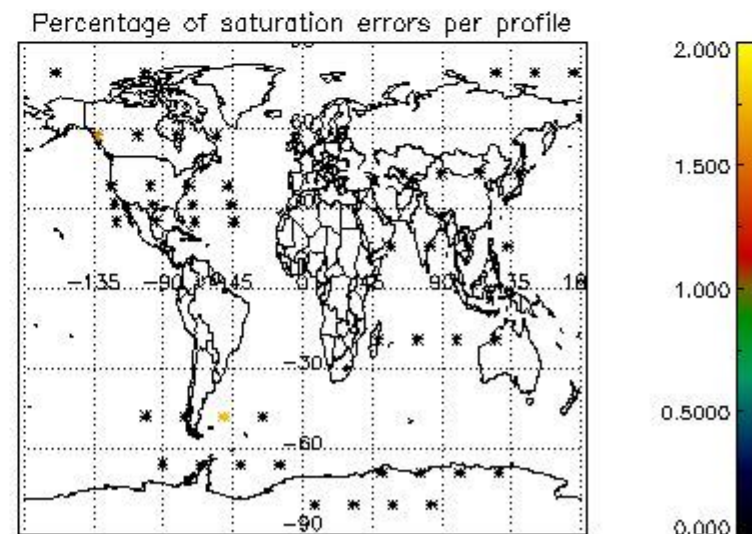
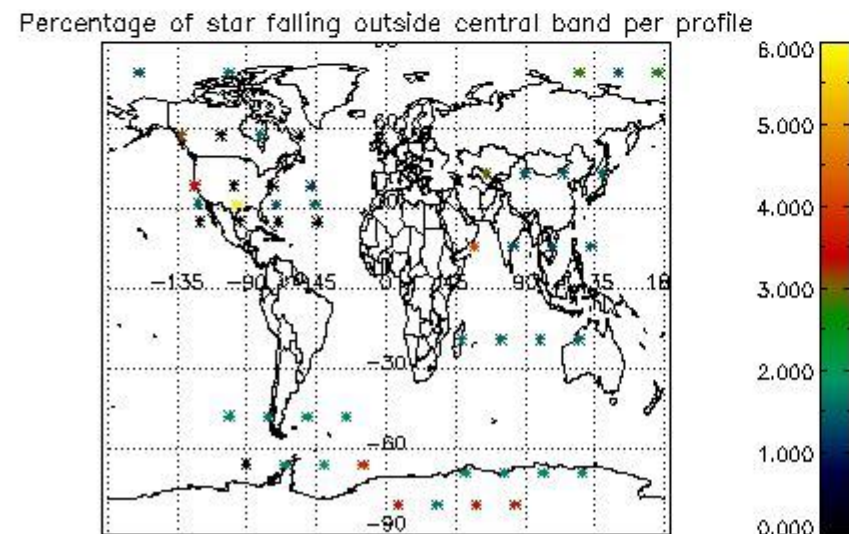
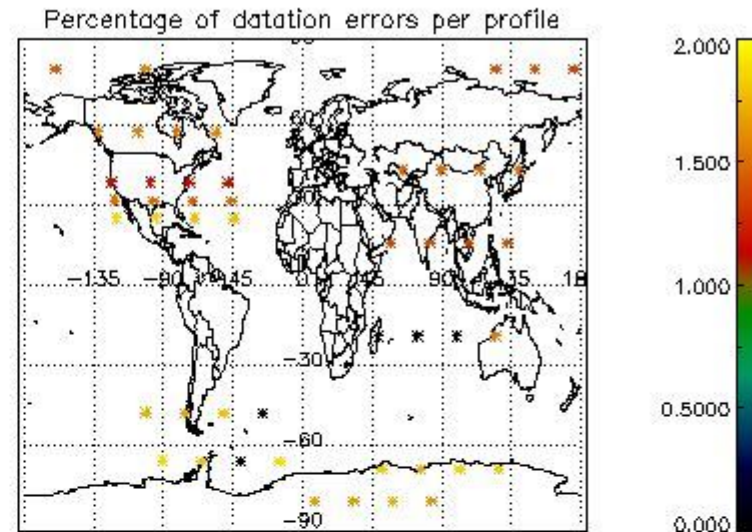
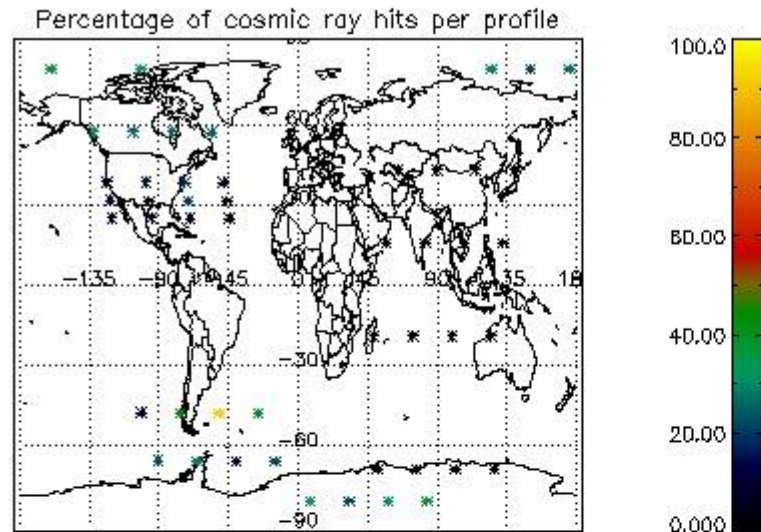
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.6122 %
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)

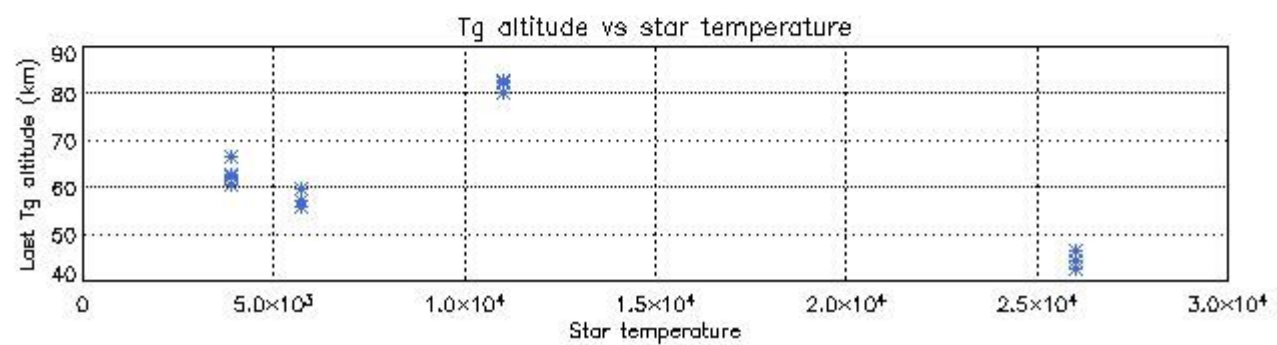
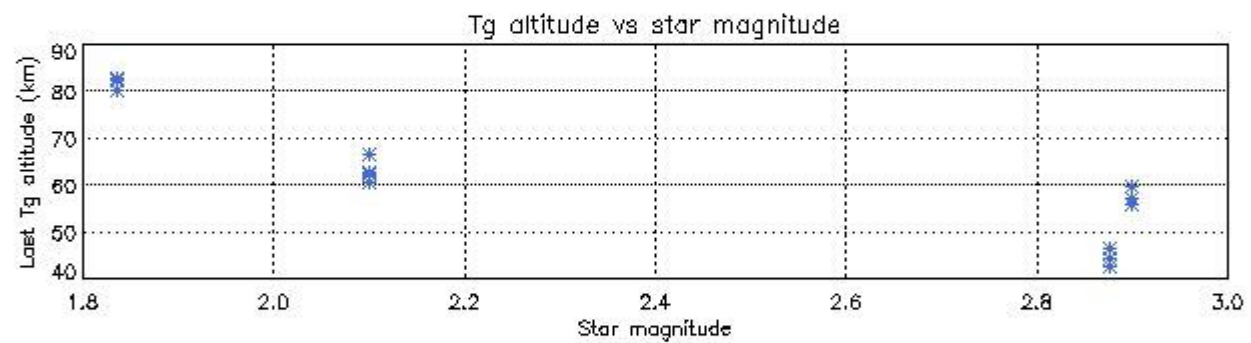
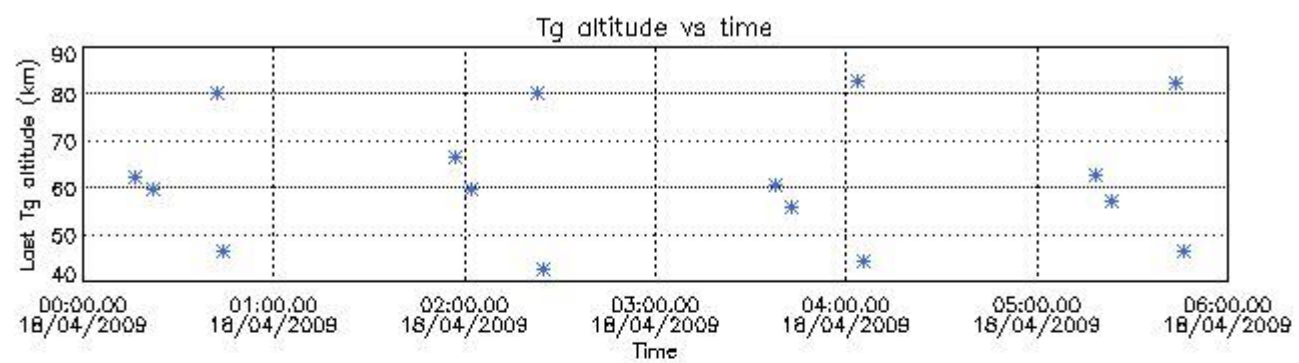
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	61.772	46.560	NaN
St. deviation:	13.635	1.6973	NaN
Maximum:	82.584	48.516	NaN
Minimum:	42.412	43.005	NaN
Number of data:	16.000	9.0000	NaN

### 6.2 Plot for DARK limb products



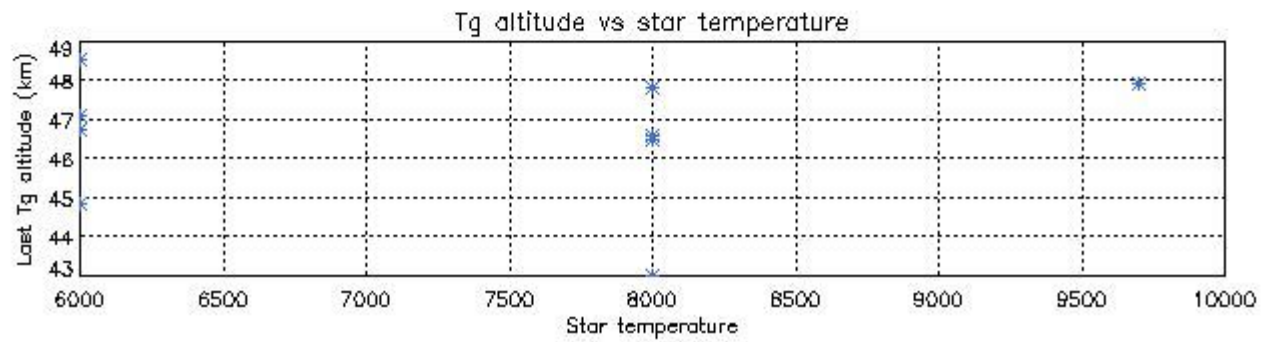
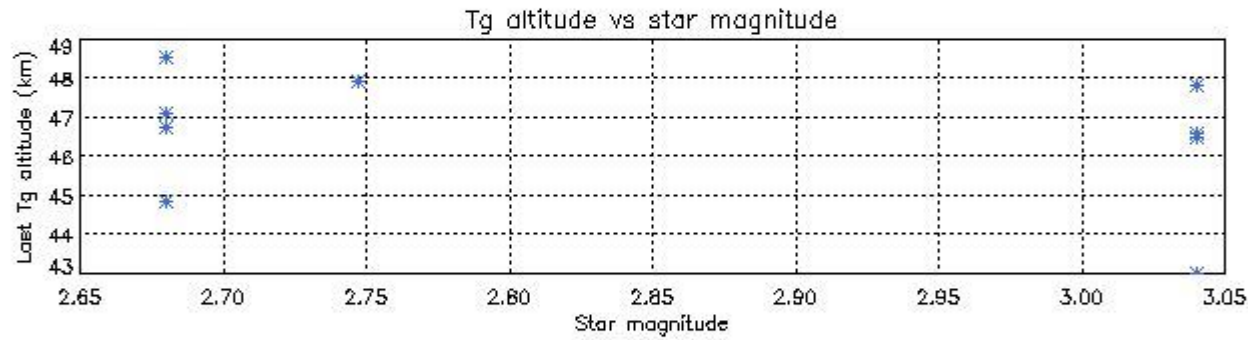
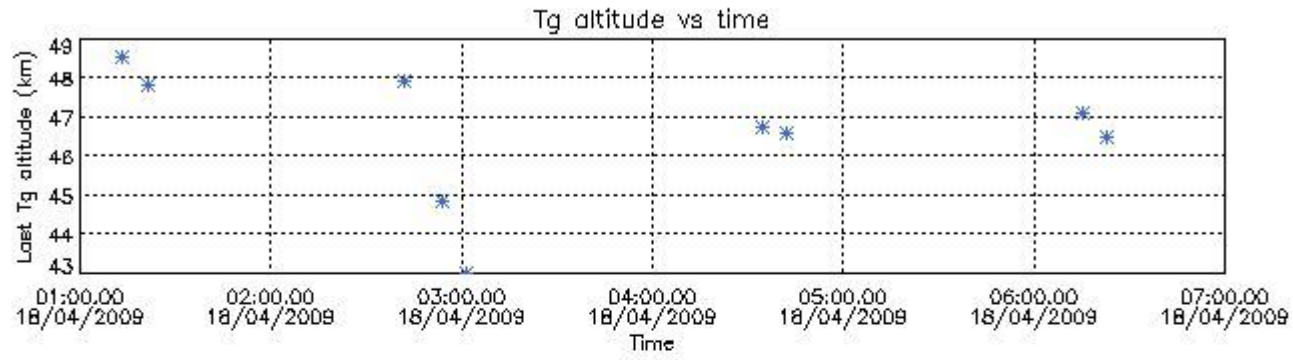
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

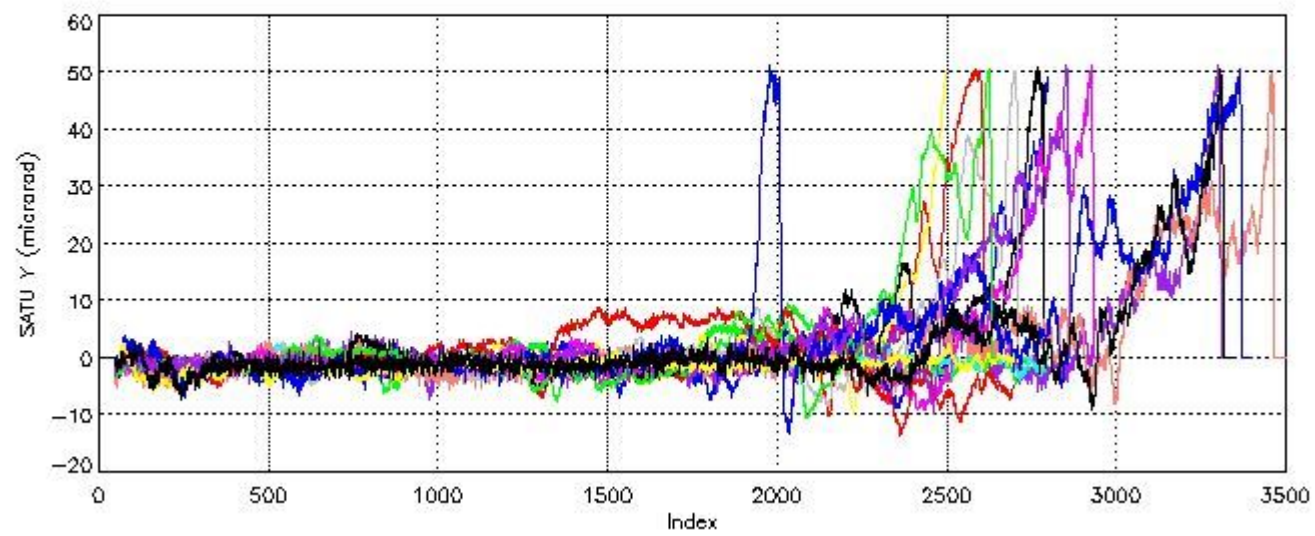
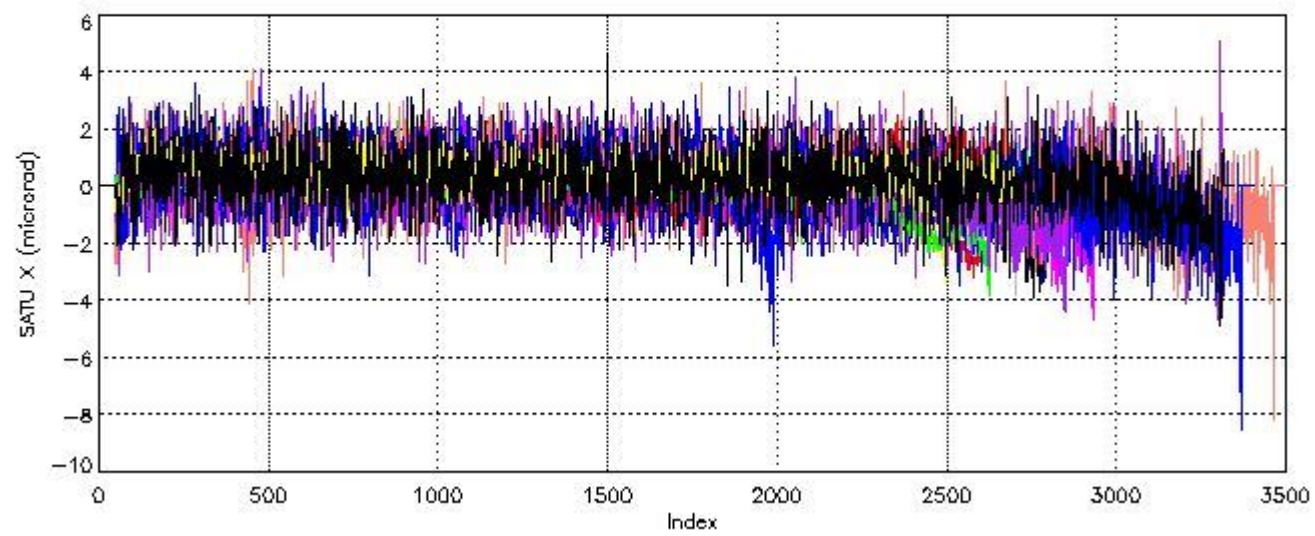


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.33285	-0.99160	0.36637	-1.4061
St. deviation:	0.63255	1.2815	1.1484	1.7053
Maximum:	4.1000	8.9000	6.3000	5.6000
Minimum:	-4.1000	-7.8000	-4.8000	-11.300

Number of data:	18800.	18800.	10300.	10300.
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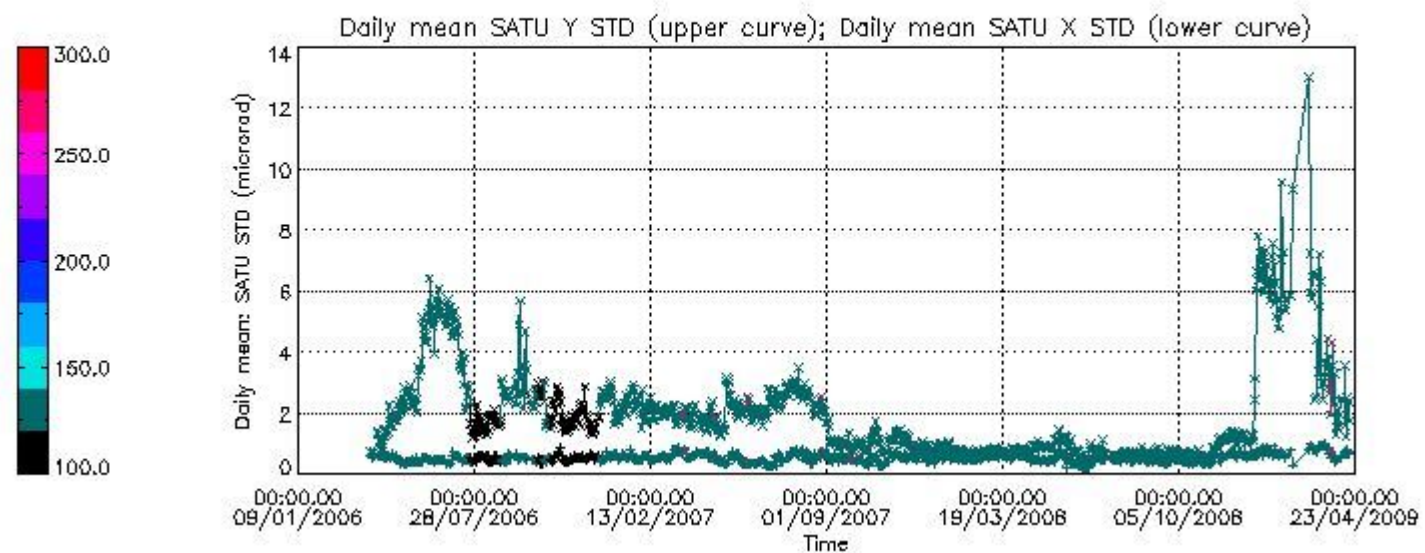
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

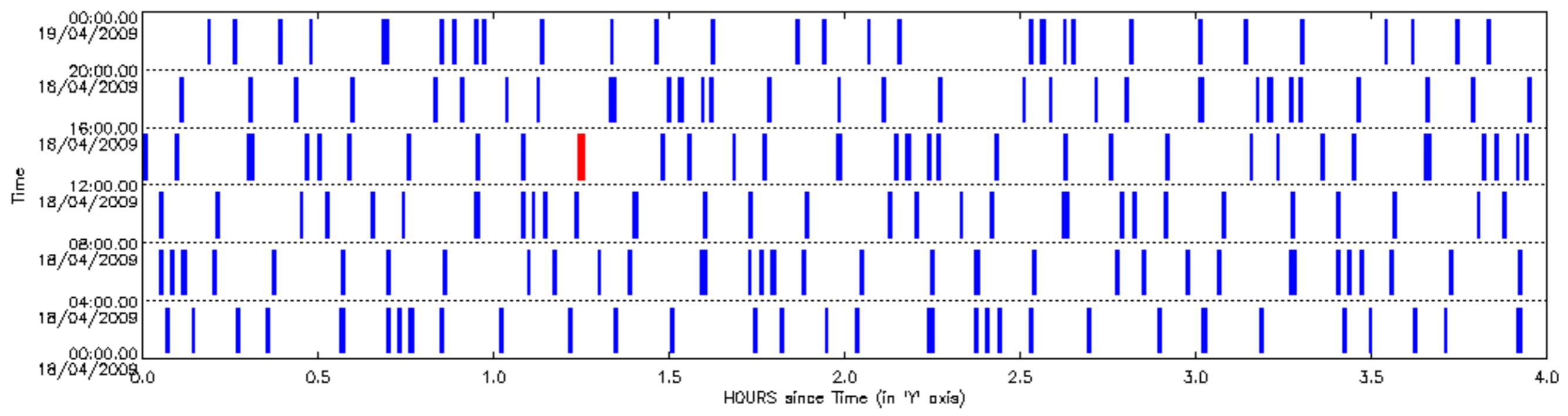


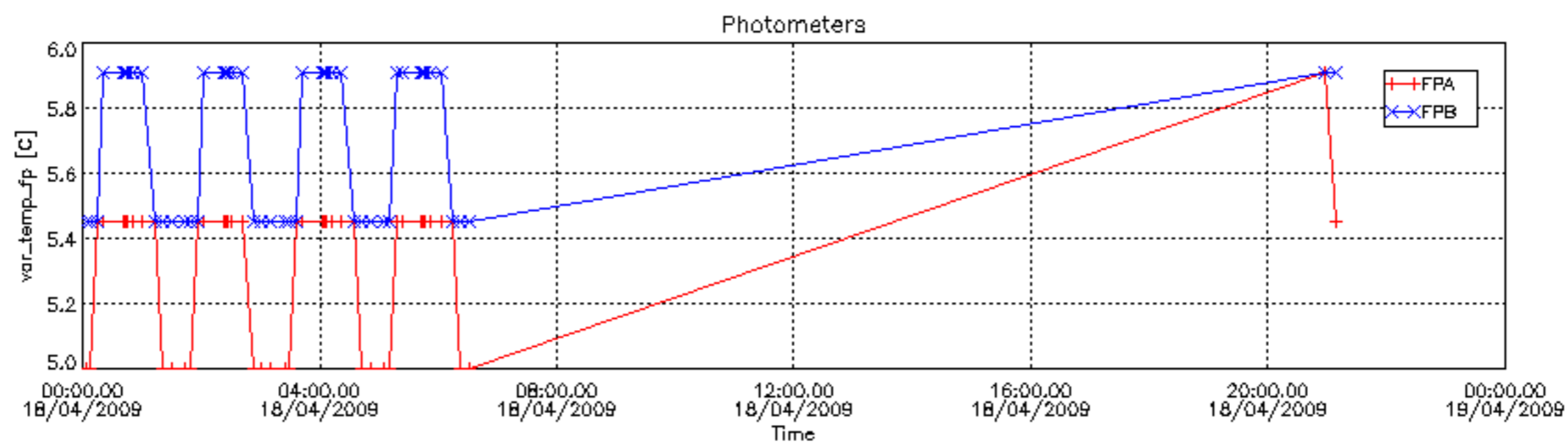
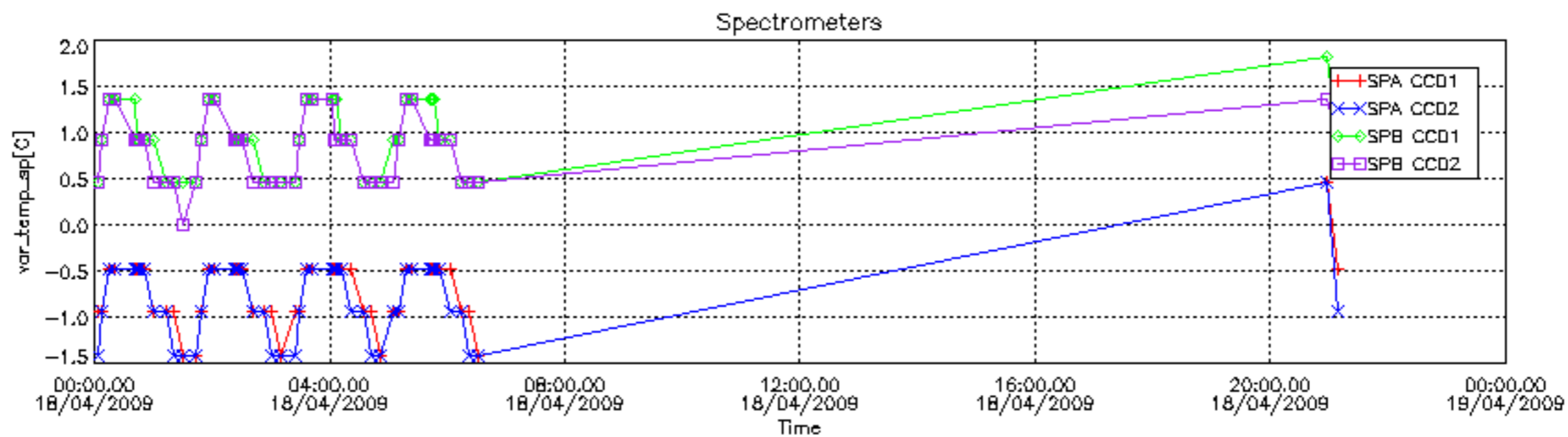
### 8. Auxiliary Data Files used for the production reported in section 2.4

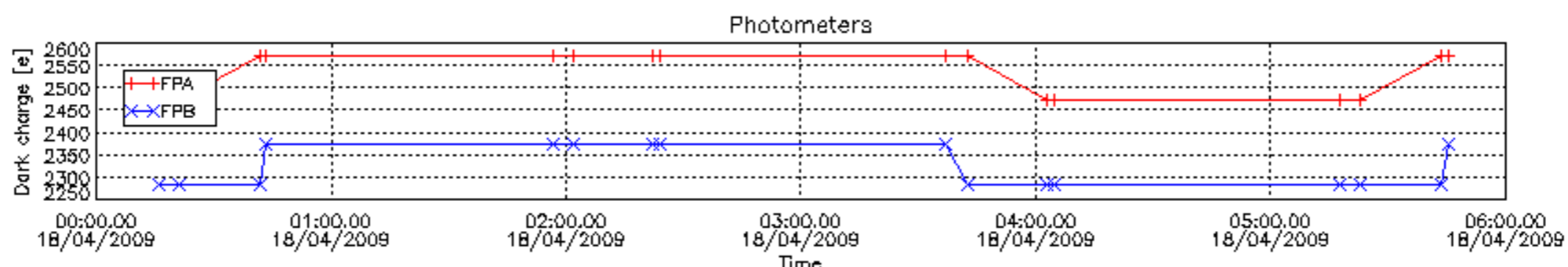
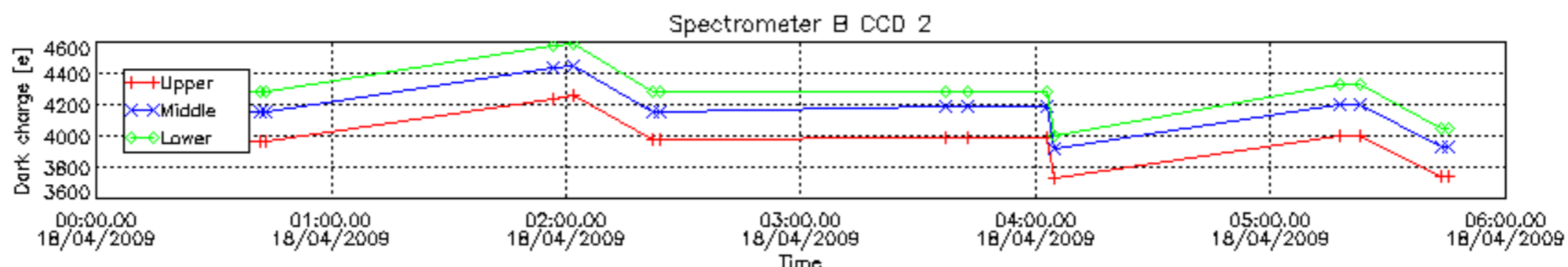
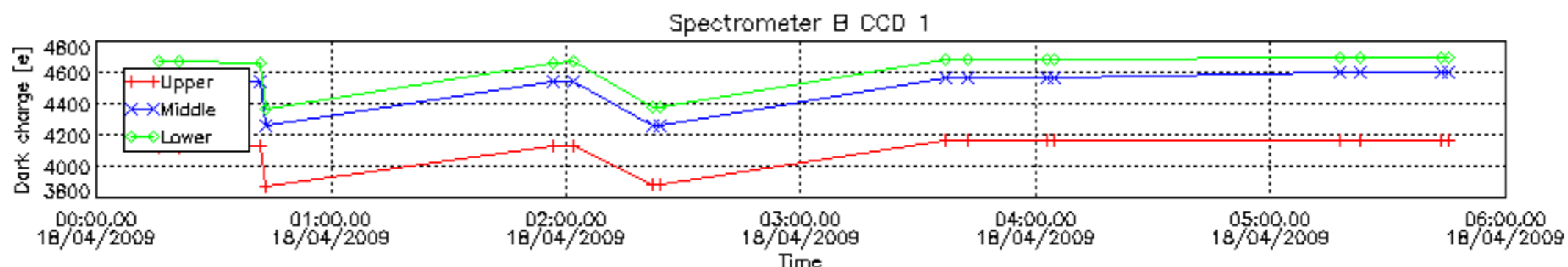
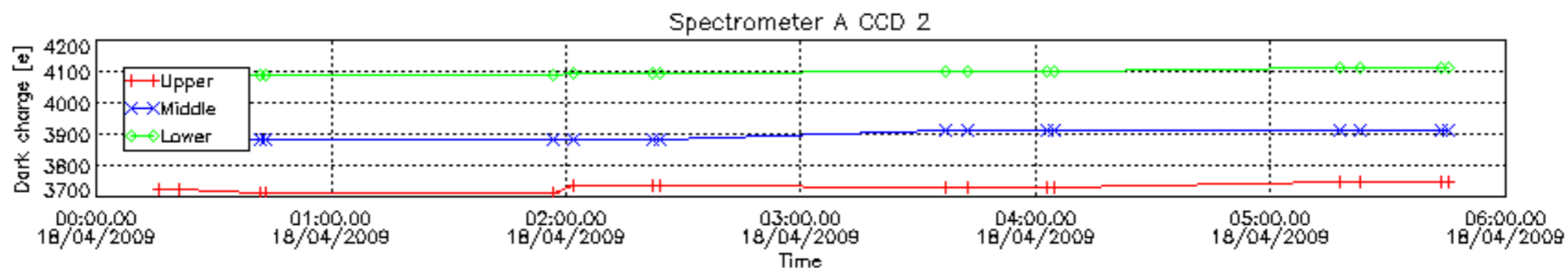
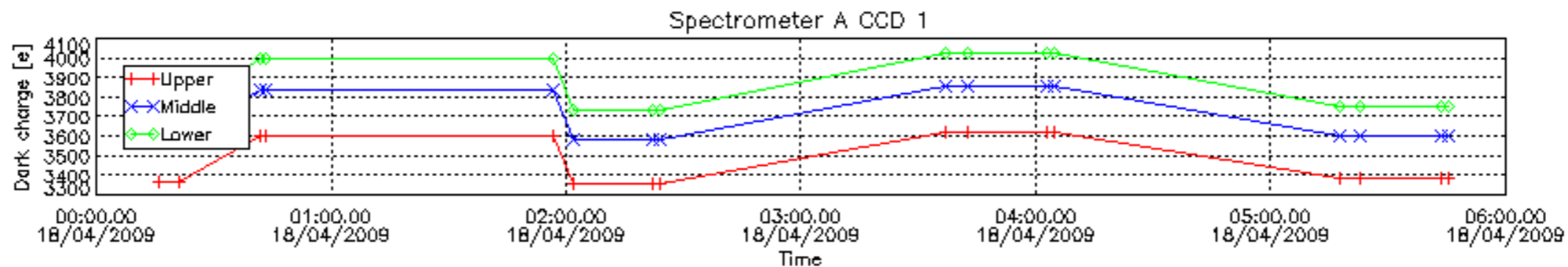
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	18-APR-2009 00:03:52
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090414_083029_20090412_000000_20100101_000000	1	18-APR-2009 00:03:52
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	18-APR-2009 00:03:52
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-APR-2009 00:03:52
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	18-APR-2009 00:03:52
ECMWF_FILE	AUX_ECF_AXNECM20090417_064111_20090417_210000_20090418_090000	1	18-APR-2009 00:03:52
ECMWF_FILE	AUX_ECF_AXNECM20090417_184111_20090418_030000_20090418_150000	25	18-APR-2009 03:25:03
ECMWF_FILE	AUX_ECF_AXNECM20090418_064112_20090418_150000_20090419_030000	49	18-APR-2009 20:58:07
OPTIONAL_ECMWF_FILE	MISSING	1	18-APR-2009 00:03:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090417_205057_000060572078_00157_37285_7771.N1	1	18-APR-2009 00:03:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090417_223713_000060572078_00158_37286_7772.N1	5	18-APR-2009 00:41:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090418_001810_000057382078_00159_37287_7773.N1	16	18-APR-2009 02:01:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090418_015348_000044632078_00160_37288_7774.N1	25	18-APR-2009 03:25:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090418_031330_000057382078_00161_37289_7775.N1	37	18-APR-2009 05:05:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090418_205608_000038262078_00172_37300_7777.N1	49	18-APR-2009 20:58:07

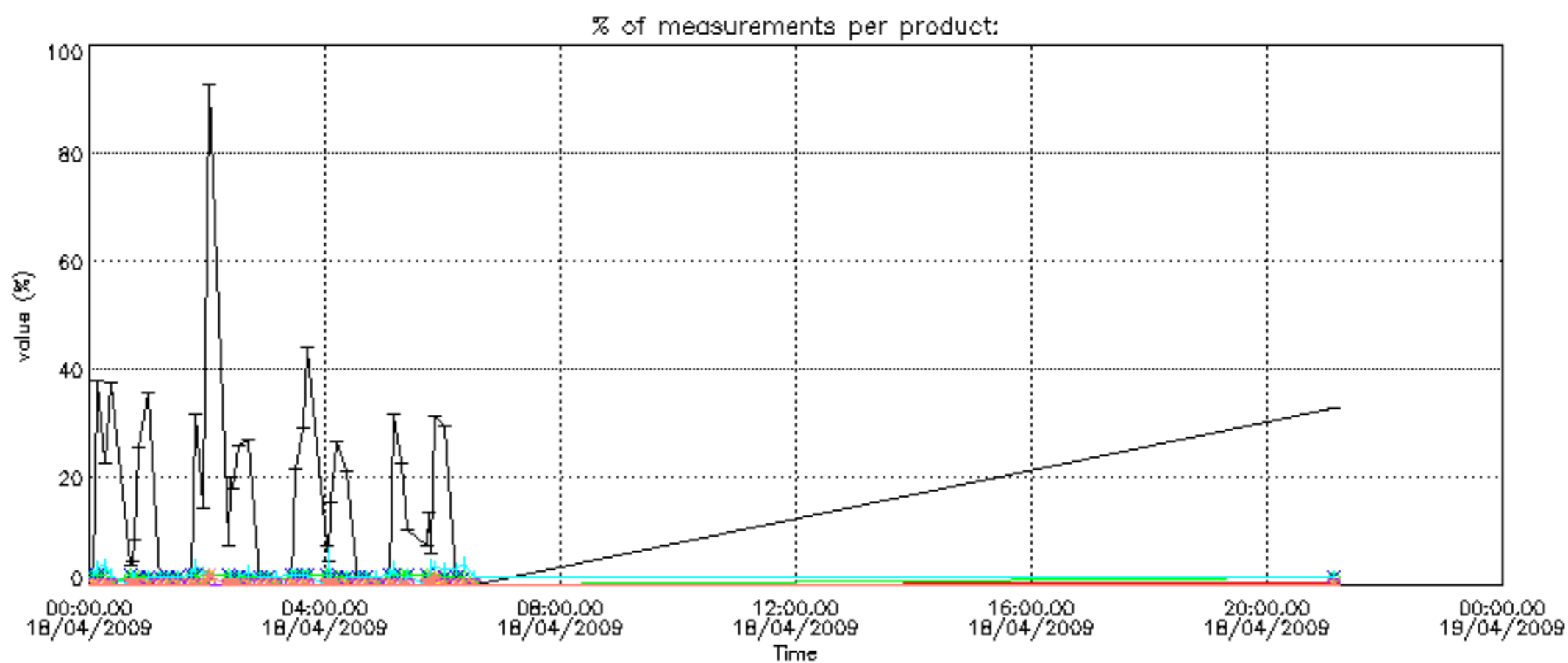




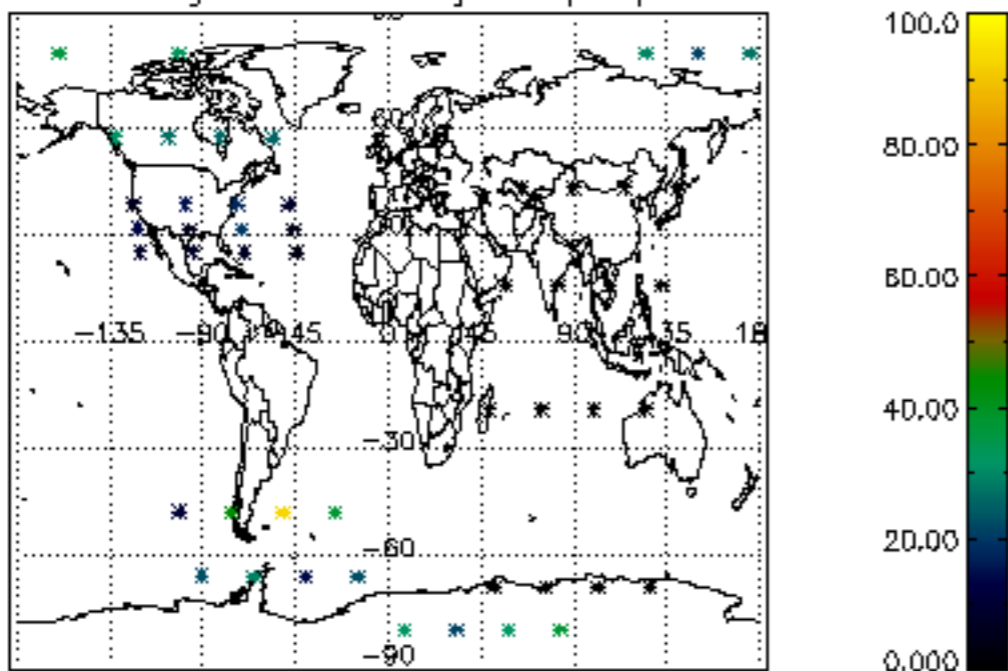




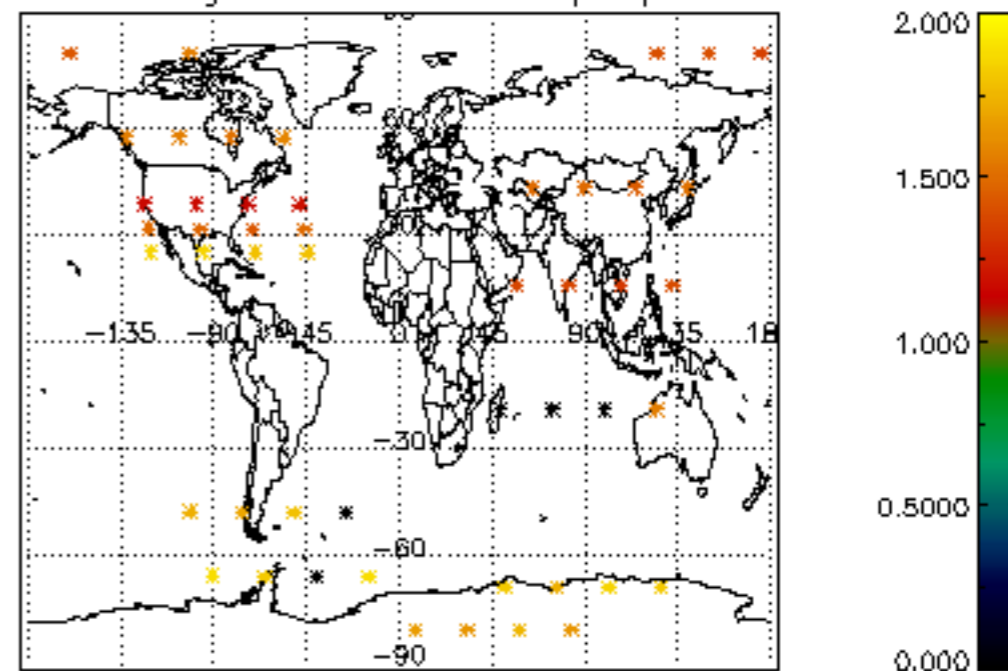




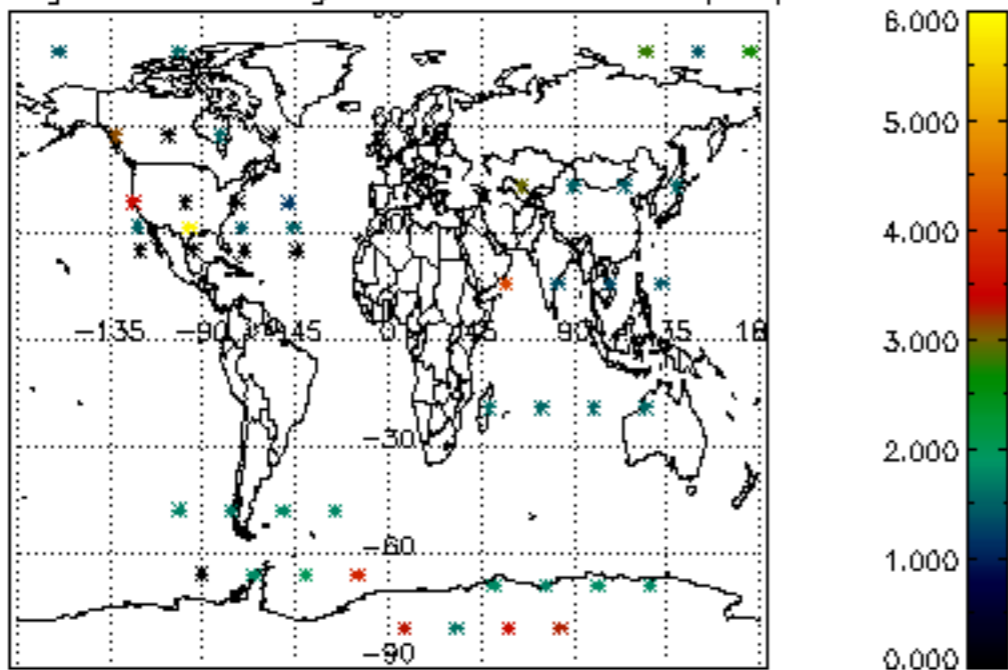
Percentage of cosmic ray hits per profile



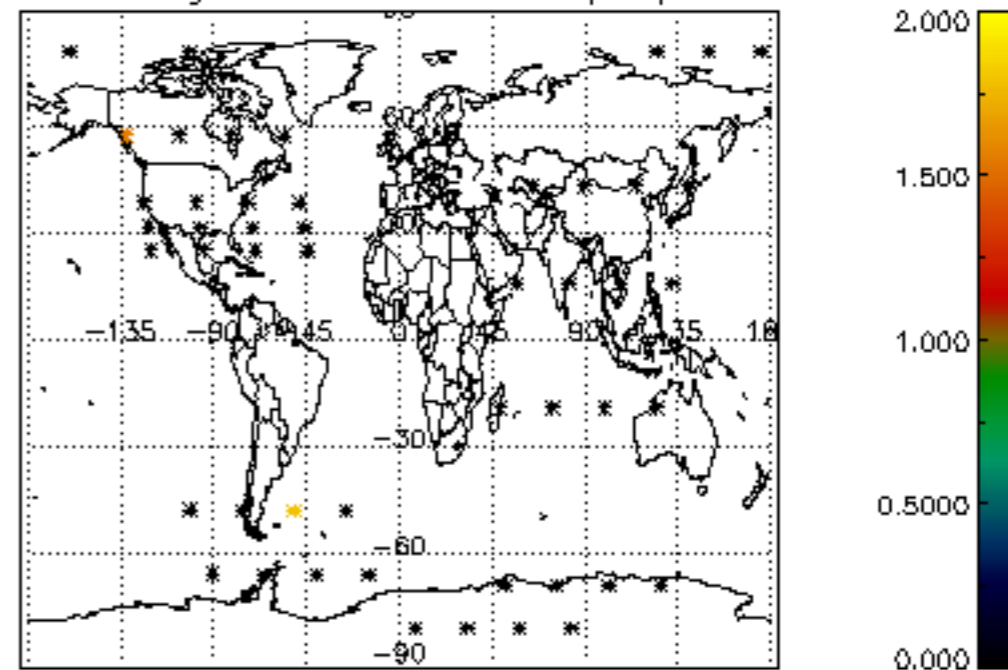
Percentage of datation errors per profile



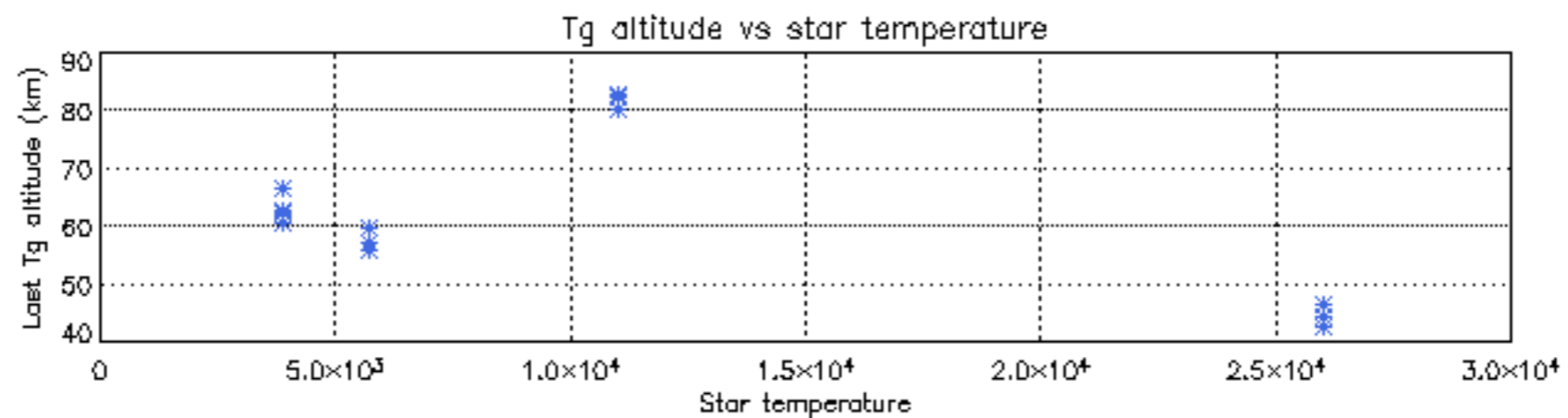
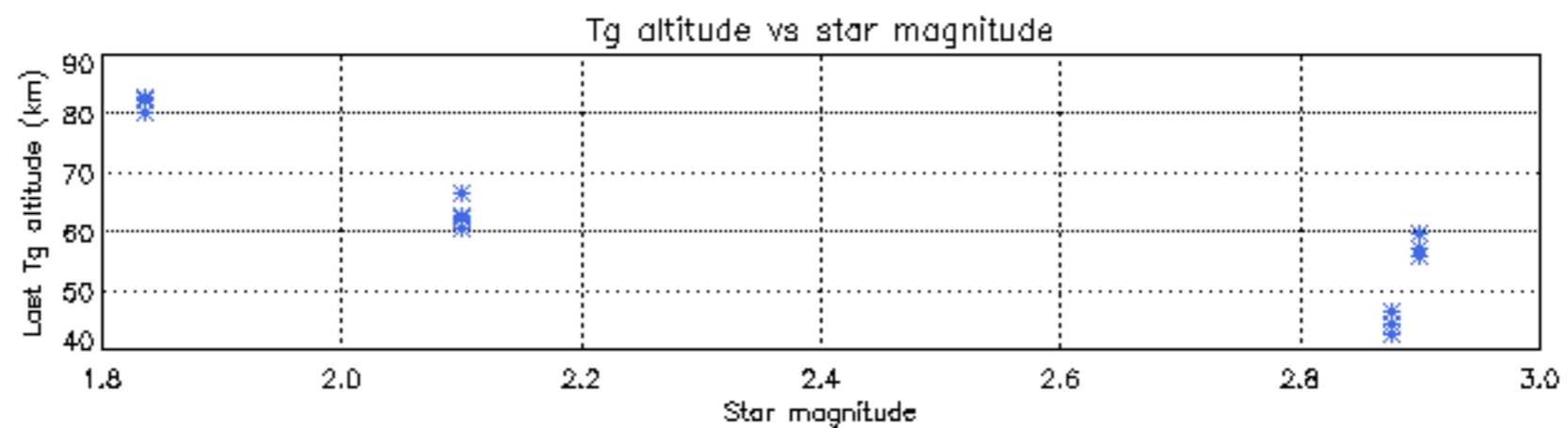
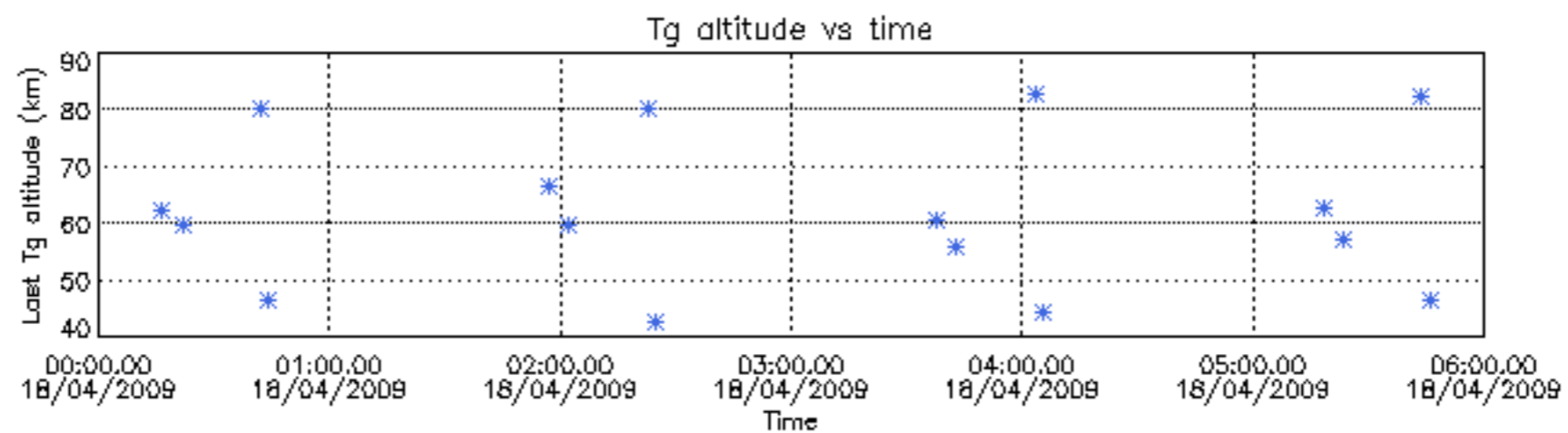
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

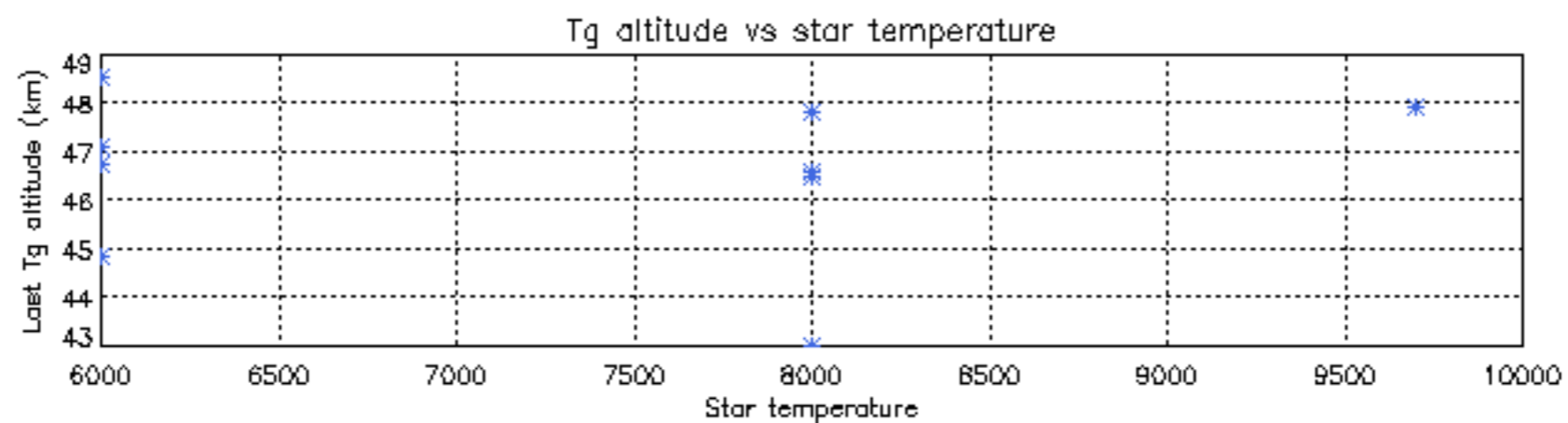
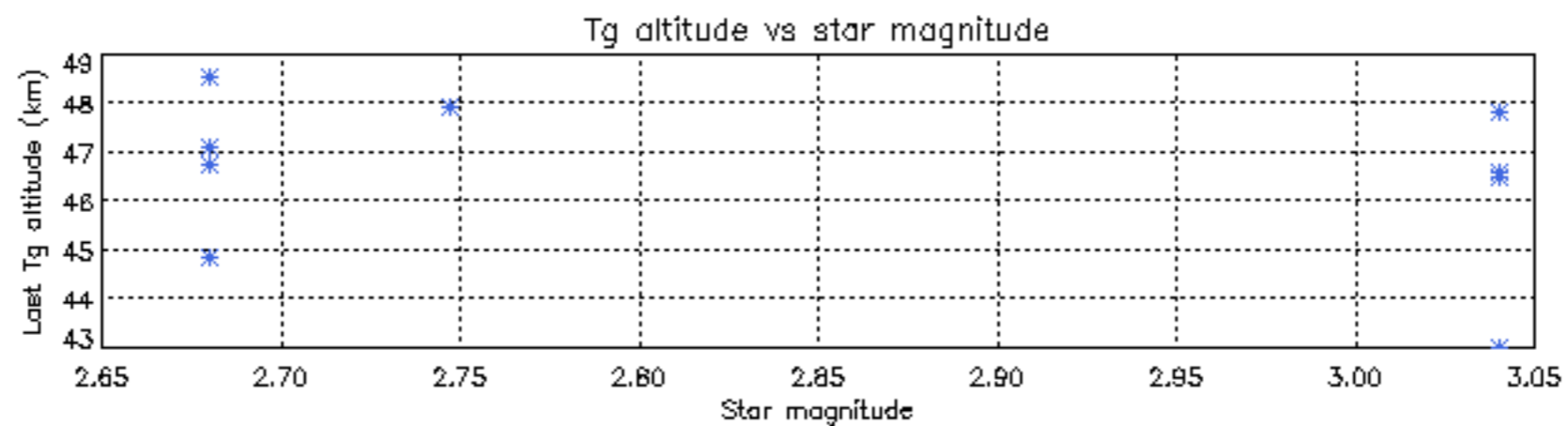
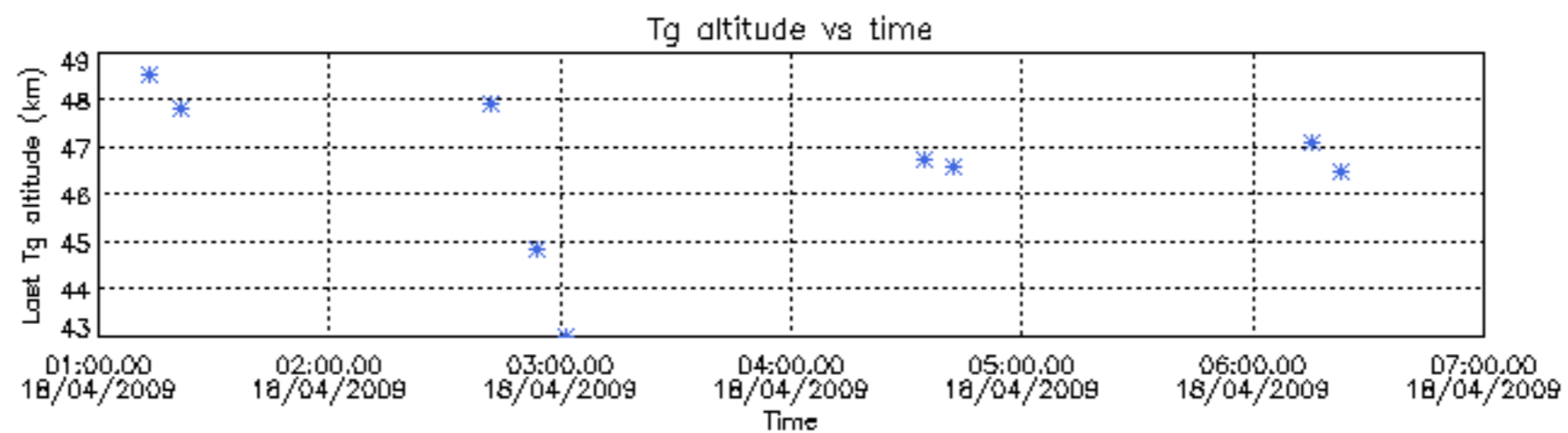


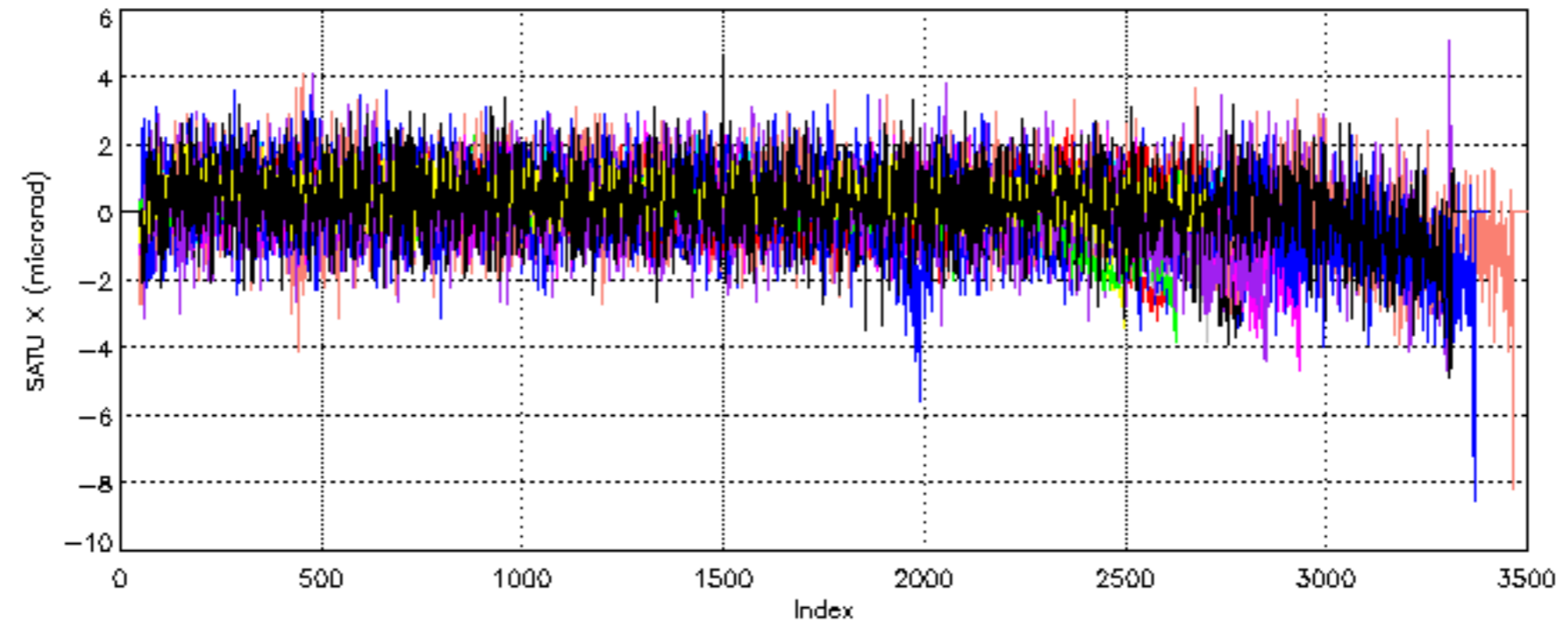
Tangent altitude at which the star is lost

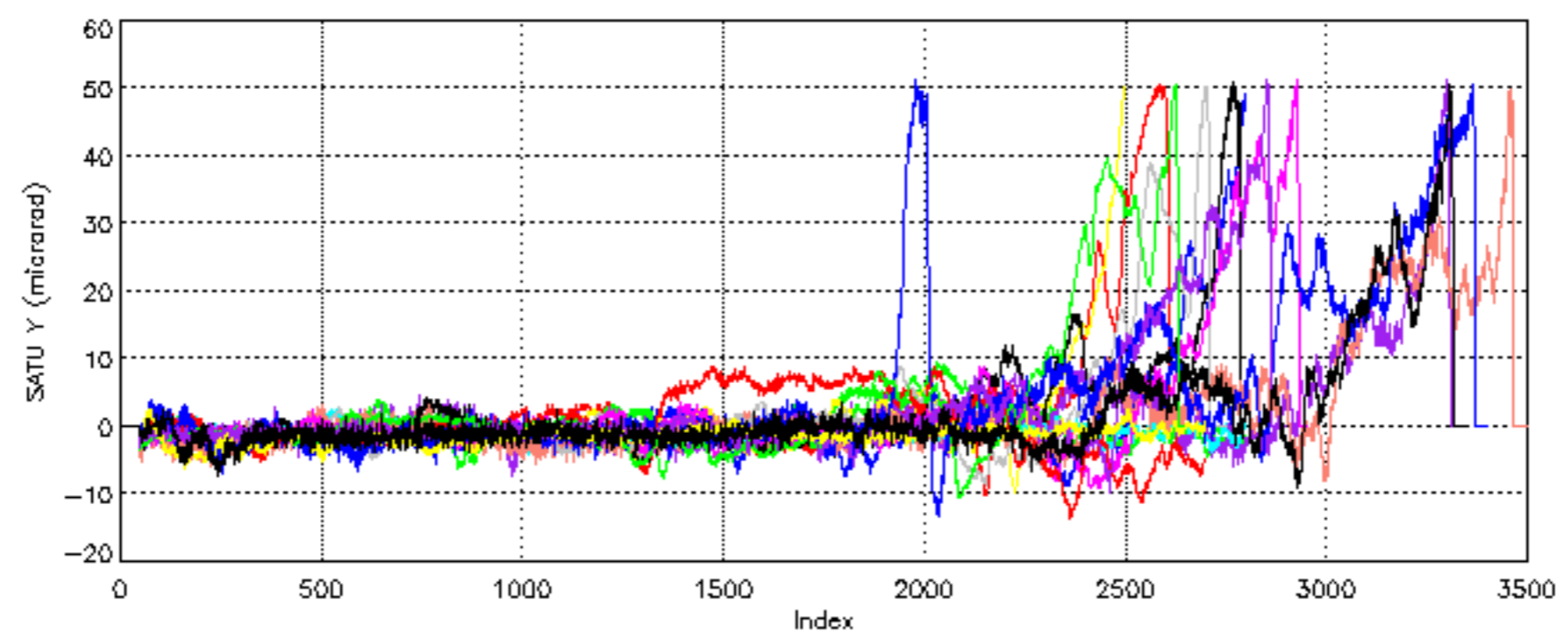


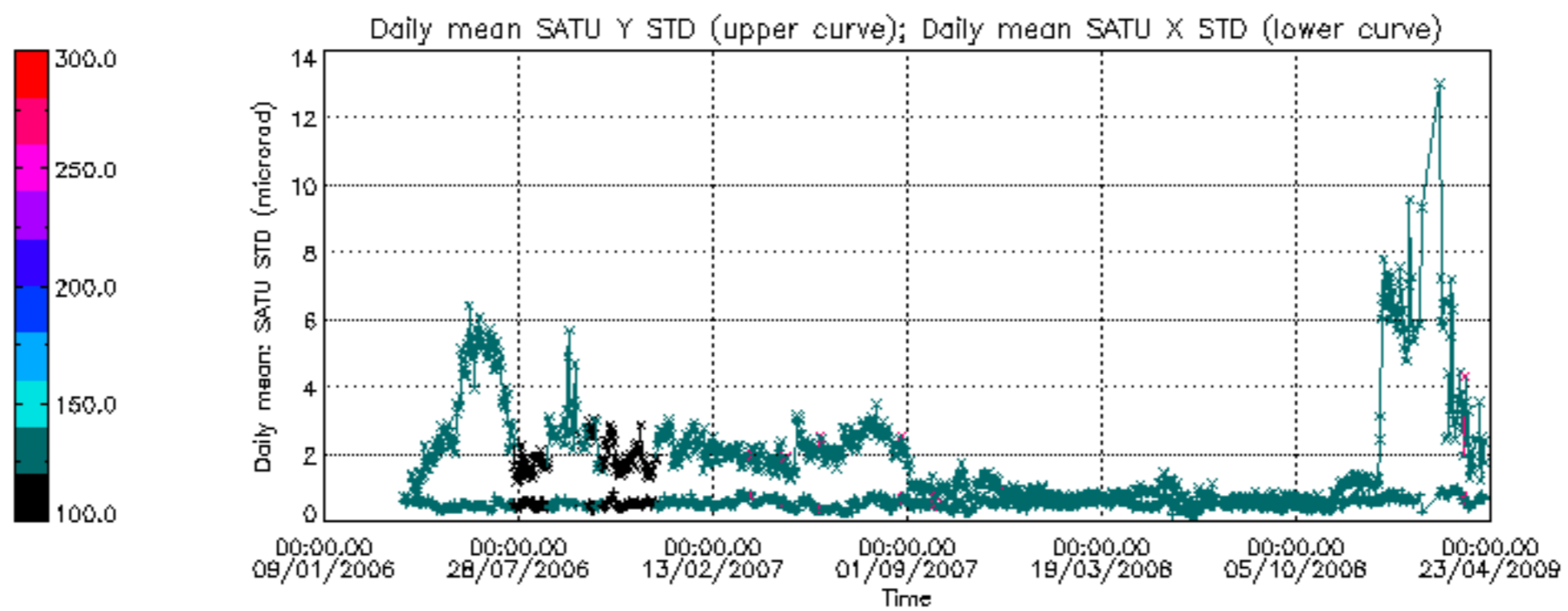


Tangent altitude at which the star is lost











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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  
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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  
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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  
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13; 2155.9; 01-APR-2009 21:52:14; Bright; 47.5; 138; 47Eps Vir ; 2.83; 4700;occ; 95; 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  
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13; 2953.3; 01-APR-2009 23:46:08; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;37058  
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2; 1881.9; 01-APR-2009 15:05:17; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;37053  
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3; 4312.8; 01-APR-2009 17:26:23; Bright; 43.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 87; 0;37054  
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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
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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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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
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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
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
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14; 6991.9; 23-APR-2009 14:58:29; Dark ; 67.5; 75; 26Eps Sco ; 2.29; 4250;occ; 135; 0;37367  
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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  
6; 3278.8; 23-APR-2009 15:37:12; Bright; 46.5; 119; 14Eta Dra ; 2.73; 4700;occ; 93; 0;37368  
7; 3856.2; 23-APR-2009 15:46:49; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;37368  
8; 4172.4; 23-APR-2009 15:52:05; Bright; 56.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 113; 0;37368  
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3; 2258.4; 23-APR-2009 17:00:47; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;37369  
4; 2522.4; 23-APR-2009 17:05:11; Bright; 52.0; 83; ; 2.38; 11000;occ; 104; 0;37369  
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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14; 6781.1; 23-APR-2009 18:16:10; Dark ; 59.5; 25; 35Lam Sco ; 1.62; 28000;occ; 119; 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
7;	1588.9;	29-APR-2009	20:22:20;	Bright;		44.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	89;	0;	37457
8;	1729.7;	29-APR-2009	20:24:41;	Bright;		50.0;	104;	27Bet Lib	;	2.61;	13100;occ;	100;	0;	37457
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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13;	2642.6;	30-APR-2009	00:01:06;	Bright;		44.0;	180;	27Gam Boo	;	3.04;	8000;occ;	88;	0;	37459
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
16;	4506.6;	30-APR-2009	00:32:10;	Bright;		42.5;	164;	44Eta Peg	;	2.95;	5400;occ;	85;	0;	37459
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
4;	2270.8;	29-APR-2009	12:10:43;	Bright;		61.0;	3;	16Alp Boo	;	-0.05;	4250;occ;	122;	0;	37452
5;	2467.2;	29-APR-2009	12:13:59;	Bright;		43.5;	83;		;	2.38;	11000;occ;	87;	0;	37452
6;	2646.1;	29-APR-2009	12:16:58;	Bright;		42.5;	180;	27Gam Boo	;	3.04;	8000;occ;	85;	0;	37452
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