

GOMOS Daily Report 27-APR-2009

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

[4. Dark Charge monitoring](#)

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

[4.2 Plot of Dark Charge](#)

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

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

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

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

[6. Star tangent altitude lost](#)

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

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

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

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

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

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

[7.2 SATU Noise Equivalent Angle statistics](#)

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

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

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

[Level 2 products](#)

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

Item	Value
Time of report generation	30APR2009 05:34:55
Data source version	GOMOS/5.00
Start time of products	27APR2009 00:05:25
Stop time of products	27APR2009 06:05:21
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	0

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

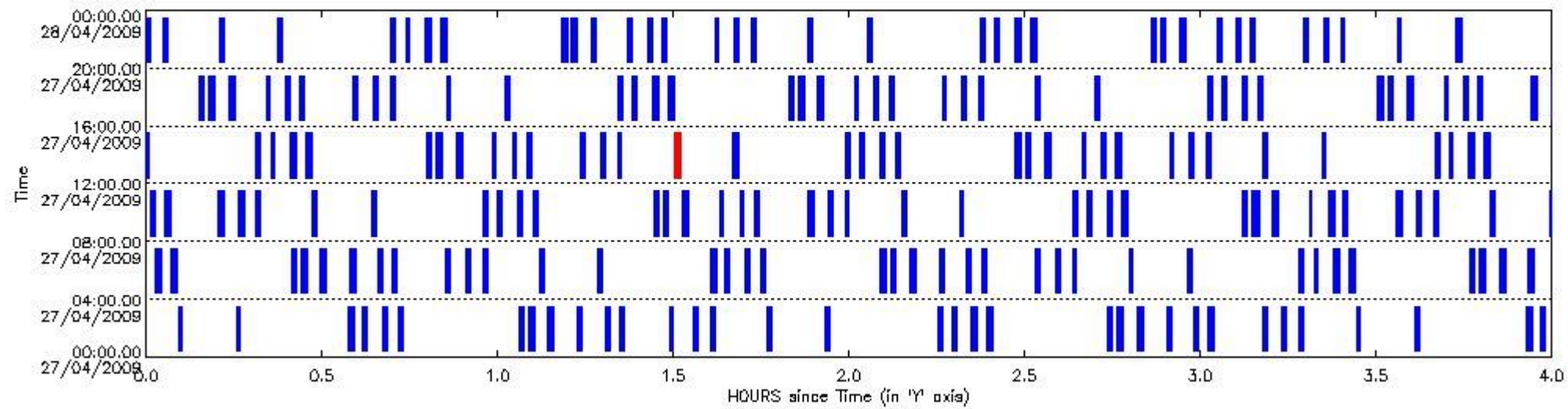
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

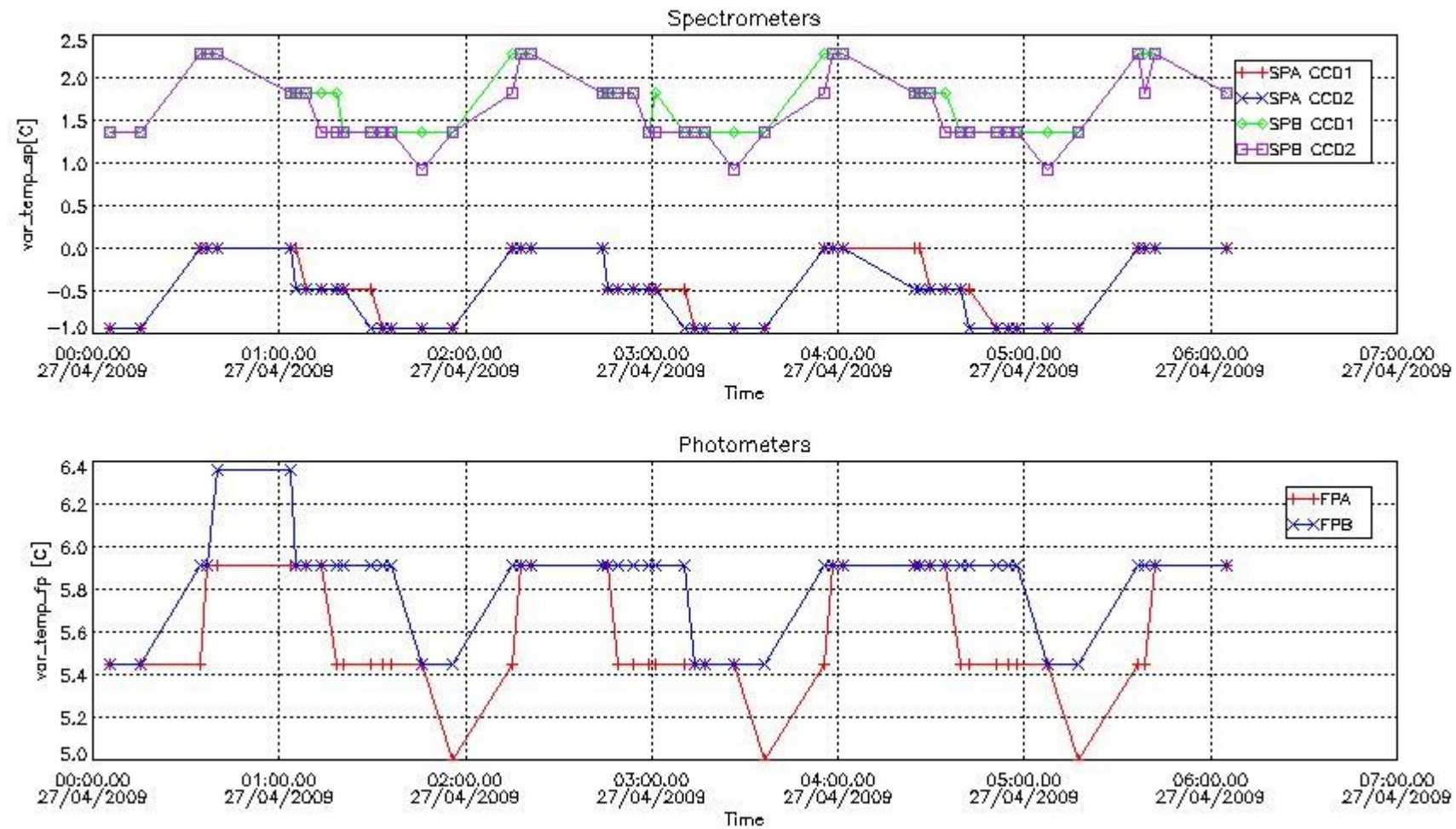
UTC start time	Star name	Star ID	Orbit
27-APR-2009 13:30:08	14EtaDra	119	37424

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_1PNPDE20090427_000525_000000452078_00288_37416_0987.N1	27-APR-2009 00:05:25	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	37416	No
2	GOM_TRA_1PNPDE20090427_001523_000000402078_00288_37416_0988.N1	27-APR-2009 00:15:23	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	37416	No
3	GOM_TRA_1PNPDE20090427_003428_000000632078_00288_37416_0989.N1	27-APR-2009 00:34:28	Dark	63.000	61	8Eps Peg	2.1000	3900.0	126	37416	No
4	GOM_TRA_1PNPDE20090427_003655_000000502078_00288_37416_0990.N1	27-APR-2009 00:36:55	Dark	50.000	162	34Alp Aqr	2.9440	5350.0	100	37416	No
5	GOM_TRA_1PNPDE20090427_004017_000000542078_00288_37416_1212.N1	27-APR-2009 00:40:17	Dark	54.000	154	22Bet Aqr	2.8990	5700.0	108	37416	No
6	GOM_TRA_1PNPDE20090427_010331_000000562078_00289_37417_1213.N1	27-APR-2009 01:03:31	Straylight	56.000	40	The Sco	1.8590	7100.0	112	37417	No
7	GOM_TRA_1PNPDE20090427_010511_000000622078_00289_37417_1214.N1	27-APR-2009 01:05:11	Straylight	61.500	25	35Lam Sco	1.6200	28000.	123	37417	No
8	GOM_TRA_1PNPDE20090427_010832_000000632078_00289_37417_1215.N1	27-APR-2009 01:08:32	Straylight	62.500	75	26Eps Sco	2.2910	4250.0	125	37417	No
9	GOM_TRA_1PNPDE20090427_011333_000000552078_00289_37417_1216.N1	27-APR-2009 01:13:33	Twilight_stray	54.500	158	6Pi Sco	2.9060	28000.	109	37417	No
10	GOM_TRA_1PNPDE20090427_011819_000000462078_00289_37417_1217.N1	27-APR-2009 01:18:19	Bright	46.000	122	9Alp2Lib	2.7470	9700.0	92	37417	No

11	GOM_TRA_1PNPDE20090427_012047_00000522078_00289_37417_1218.N1	27-APR-2009 01:20:47	Bright	51.500	104	27Bet Lib	2.6140	13100.	103	37417	No
12	GOM_TRA_1PNPDE20090427_012919_00000402078_00289_37417_1219.N1	27-APR-2009 01:29:19	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	37417	No
13	GOM_TRA_1PNPDE20090427_013322_00000482078_00289_37417_1220.N1	27-APR-2009 01:33:22	Bright	48.000	83		2.3780	11000.	96	37417	No
14	GOM_TRA_1PNPDE20090427_013618_00000442078_00289_37417_1221.N1	27-APR-2009 01:36:18	Bright	44.000	180	27Gam Boo	3.0400	8000.0	88	37417	No
15	GOM_TRA_1PNPDE20090427_014600_00000452078_00289_37417_1222.N1	27-APR-2009 01:46:00	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	37417	No
16	GOM_TRA_1PNPDE20090427_015558_00000432078_00289_37417_1223.N1	27-APR-2009 01:55:58	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	37417	No
17	GOM_TRA_1PNPDE20090427_021505_00000602078_00289_37417_1351.N1	27-APR-2009 02:15:05	Dark	59.500	61	8Eps Peg	2.1000	3900.0	119	37417	No
18	GOM_TRA_1PNPDE20090427_021732_00000492078_00289_37417_1352.N1	27-APR-2009 02:17:32	Dark	48.500	162	34Alp Aqr	2.9440	5350.0	97	37417	No
19	GOM_TRA_1PNPDE20090427_022053_00000542078_00289_37417_1353.N1	27-APR-2009 02:20:53	Dark	54.000	154	22Bet Aqr	2.8990	5700.0	108	37417	No
20	GOM_TRA_1PNPDE20090427_024407_00000542078_00290_37418_1354.N1	27-APR-2009 02:44:07	Straylight	53.500	40	The Sco	1.8590	7100.0	107	37418	No
21	GOM_TRA_1PNPDE20090427_024547_00000612078_00290_37418_1355.N1	27-APR-2009 02:45:47	Straylight	61.000	25	35Lam Sco	1.6200	28000.	122	37418	No
22	GOM_TRA_1PNPDE20090427_024908_00000602078_00290_37418_1356.N1	27-APR-2009 02:49:08	Straylight	60.000	75	26Eps Sco	2.2910	4250.0	120	37418	No
23	GOM_TRA_1PNPDE20090427_025410_00000542078_00290_37418_1357.N1	27-APR-2009 02:54:10	Twilight_and_stray	54.000	158	6Pi Sco	2.9060	28000.	108	37418	No
24	GOM_TRA_1PNPDE20090427_025855_00000452078_00290_37418_1358.N1	27-APR-2009 02:58:55	Bright	45.000	122	9Alp2Lib	2.7470	9700.0	90	37418	No
25	GOM_TRA_1PNPDE20090427_030123_00000522078_00290_37418_1359.N1	27-APR-2009 03:01:23	Bright	51.500	104	27Bet Lib	2.6140	13100.	103	37418	No
26	GOM_TRA_1PNPDE20090427_031032_00000582078_00290_37418_1360.N1	27-APR-2009 03:10:32	Bright	57.500	3	16Alp Boo	-0.050000	4250.0	115	37418	No
27	GOM_TRA_1PNPDE20090427_031358_00000462078_00290_37418_1361.N1	27-APR-2009 03:13:58	Bright	45.500	83		2.3780	11000.	91	37418	No
28	GOM_TRA_1PNPDE20090427_031654_00000432078_00290_37418_1362.N1	27-APR-2009 03:16:54	Bright	42.500	180	27Gam Boo	3.0400	8000.0	85	37418	No
29	GOM_TRA_1PNPDE20090427_032635_00000452078_00290_37418_1363.N1	27-APR-2009 03:26:35	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	37418	No
30	GOM_TRA_1PNPDE20090427_033634_00000582078_00290_37418_1576.N1	27-APR-2009 03:36:34	Bright	58.000	89	5Alp Cep	2.4510	8000.0	116	37418	No
31	GOM_TRA_1PNPDE20090427_035541_00000632078_00290_37418_1577.N1	27-APR-2009 03:55:41	Dark	62.500	61	8Eps Peg	2.1000	3900.0	125	37418	No
32	GOM_TRA_1PNPDE20090427_035808_00000512078_00290_37418_1578.N1	27-APR-2009 03:58:08	Dark	50.500	162	34Alp Aqr	2.9440	5350.0	101	37418	No
33	GOM_TRA_1PNPDE20090427_040131_00000582078_00290_37418_1579.N1	27-APR-2009 04:01:31	Dark	57.500	154	22Bet Aqr	2.8990	5700.0	115	37418	No
34	GOM_TRA_1PNPDE20090427_042444_00000552078_00291_37419_1580.N1	27-APR-2009 04:24:44	Straylight	55.000	40	The Sco	1.8590	7100.0	110	37419	No
35	GOM_TRA_1PNPDE20090427_042624_00000602078_00291_37419_1581.N1	27-APR-2009 04:26:24	Straylight	59.500	25	35Lam Sco	1.6200	28000.	119	37419	No
36	GOM_TRA_1PNPDE20090427_042945_00000622078_00291_37419_1582.N1	27-APR-2009 04:29:45	Straylight	61.500	75	26Eps Sco	2.2910	4250.0	123	37419	No
37	GOM_TRA_1PNPDE20090427_043446_00000552078_00291_37419_1583.N1	27-APR-2009 04:34:46	Twilight_and_stray	55.000	158	6Pi Sco	2.9060	28000.	110	37419	No
38	GOM_TRA_1PNPDE20090427_043931_00000482078_00291_37419_1584.N1	27-APR-2009 04:39:31	Bright	48.000	122	9Alp2Lib	2.7470	9700.0	96	37419	No
39	GOM_TRA_1PNPDE20090427_044159_00000522078_00291_37419_1585.N1	27-APR-2009 04:41:59	Bright	52.000	104	27Bet Lib	2.6140	13100.	104	37419	No
40	GOM_TRA_1PNPDE20090427_045108_00000432078_00291_37419_1586.N1	27-APR-2009 04:51:08	Bright	43.000	3	16Alp Boo	-0.050000	4250.0	86	37419	No
41	GOM_TRA_1PNPDE20090427_045433_00000492078_00291_37419_1587.N1	27-APR-2009 04:54:33	Bright	48.500	83		2.3780	11000.	97	37419	No
42	GOM_TRA_1PNPDE20090427_045729_00000432078_00291_37419_1588.N1	27-APR-2009 04:57:29	Bright	42.500	180	27Gam Boo	3.0400	8000.0	85	37419	No
43	GOM_TRA_1PNPDE20090427_050711_00000462078_00291_37419_1589.N1	27-APR-2009 05:07:11	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	37419	No
44	GOM_TRA_1PNPDE20090427_051710_00000402078_00291_37419_2172.N1	27-APR-2009 05:17:10	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	37419	No
45	GOM_TRA_1PNPDE20090427_053618_00000652078_00291_37419_2173.N1	27-APR-2009 05:36:18	Dark	64.500	61	8Eps Peg	2.1000	3900.0	129	37419	No
46	GOM_TRA_1PNPDE20090427_053845_00000522078_00291_37419_2174.N1	27-APR-2009 05:38:45	Dark	52.000	162	34Alp Aqr	2.9440	5350.0	104	37419	No
47	GOM_TRA_1PNPDE20090427_054208_00000562078_00291_37419_2175.N1	27-APR-2009 05:42:08	Dark	56.000	154	22Bet Aqr	2.8990	5700.0	112	37419	No
48	GOM_TRA_1PNPDE20090427_060521_00000552078_00292_37420_2176.N1	27-APR-2009 06:05:21	Straylight	55.000	40	The Sco	1.8590	7100.0	110	37420	No

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



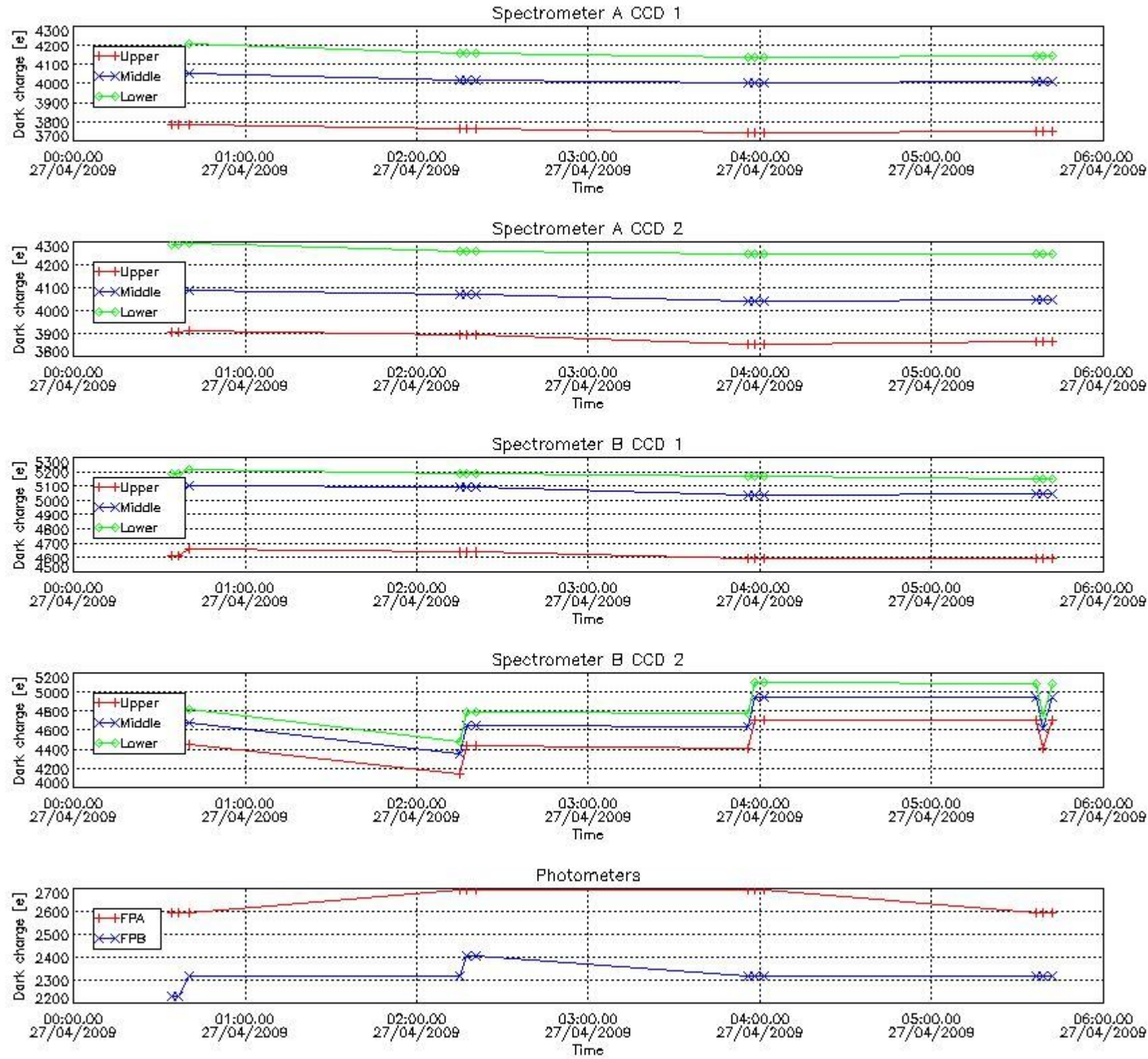
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



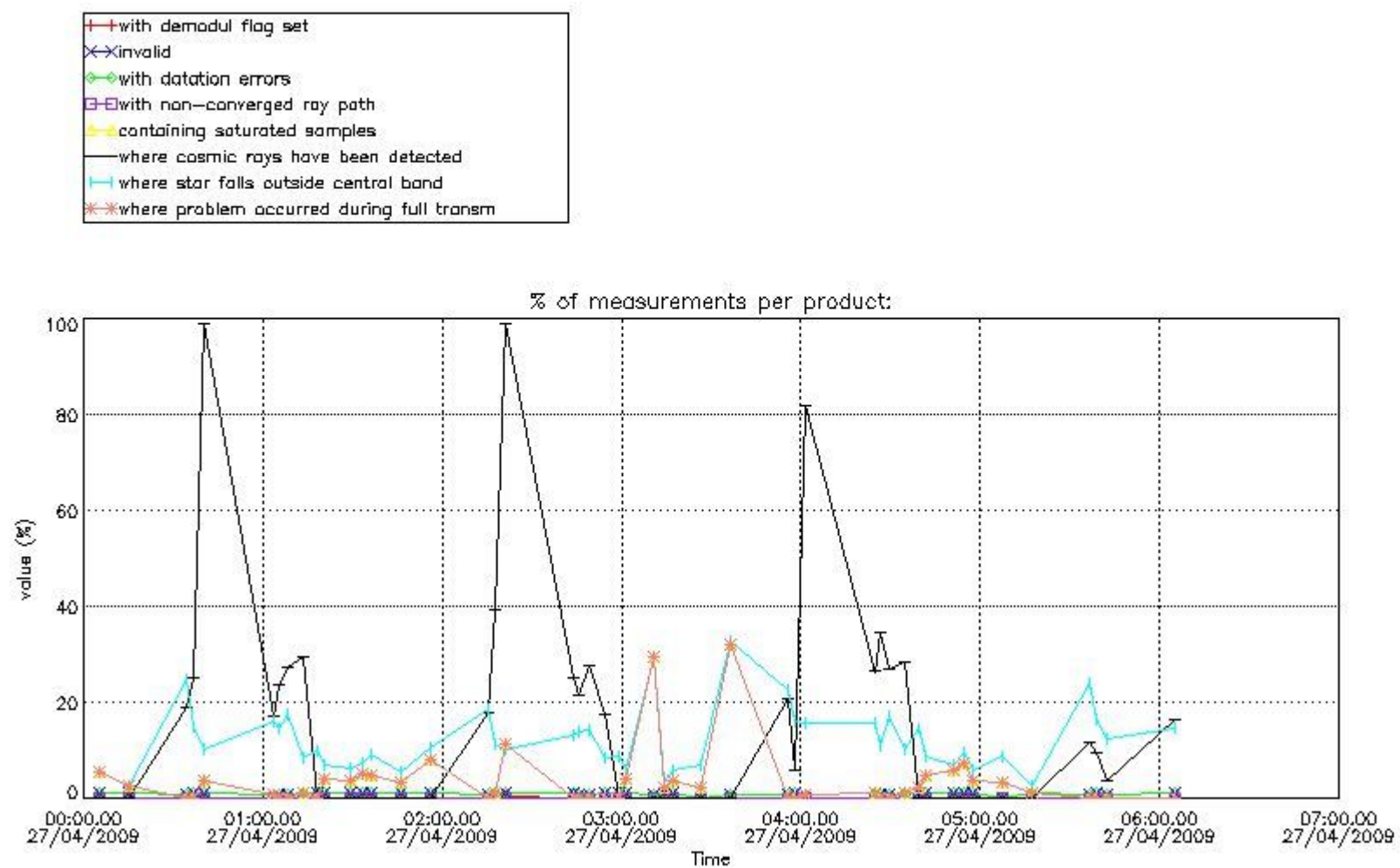
5. Demodulation flag and quality information monitoring

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.

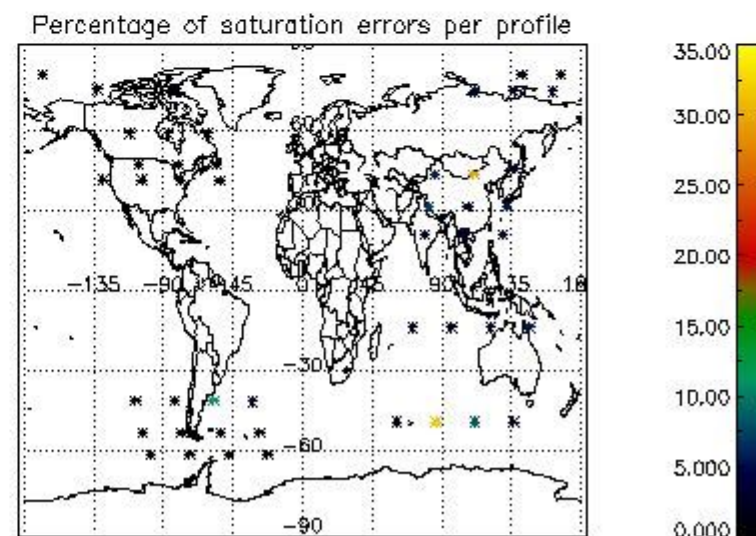
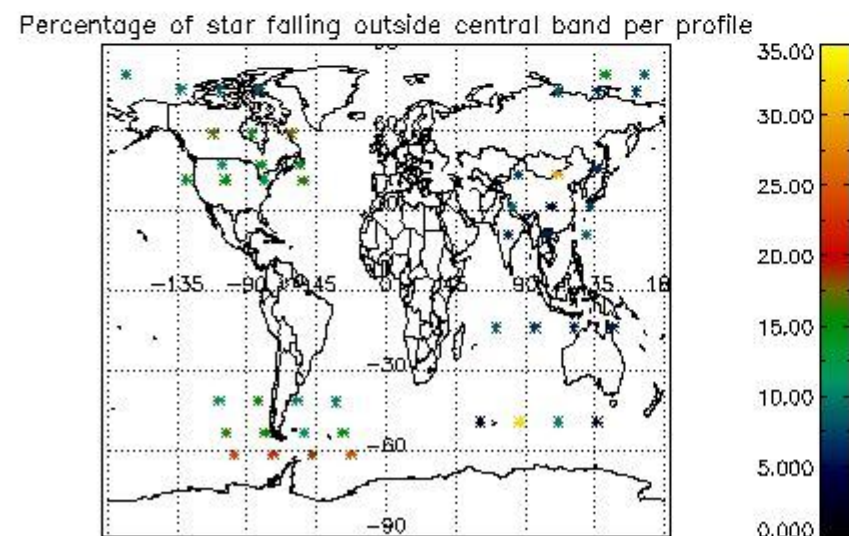
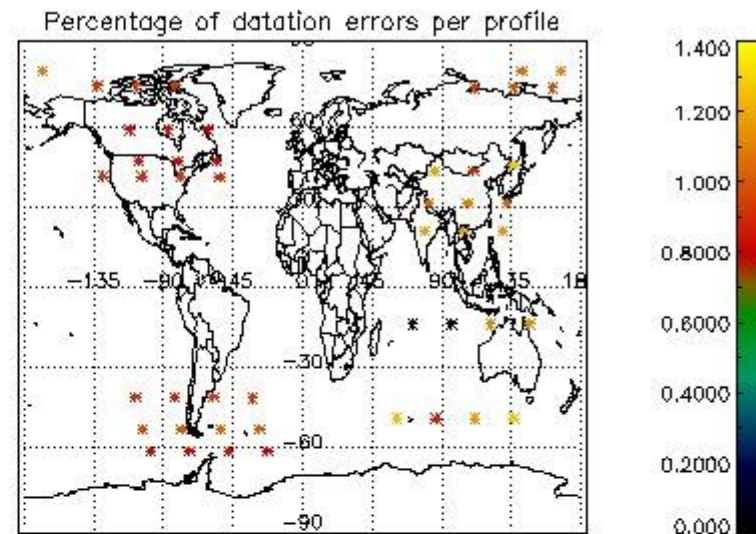
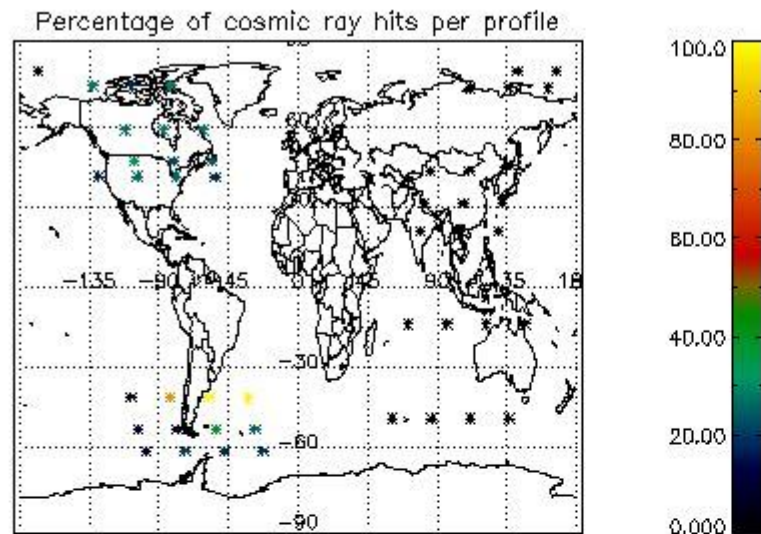
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	29.1667 %
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)



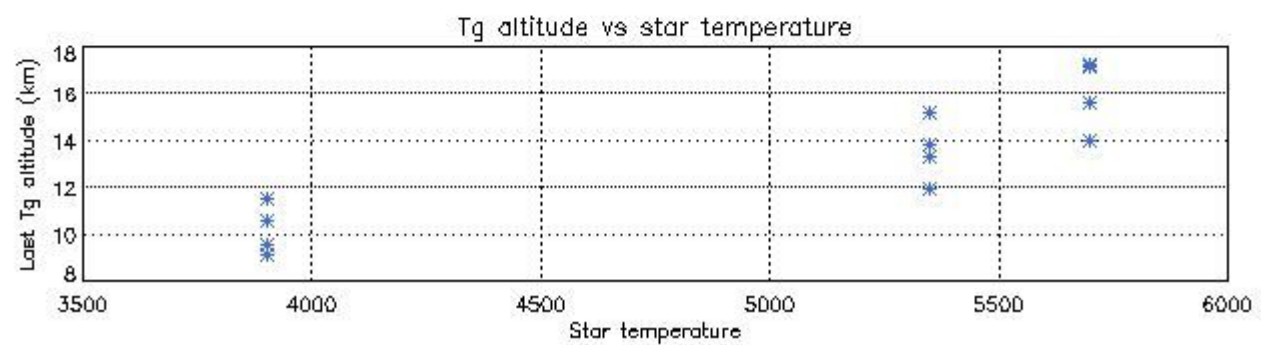
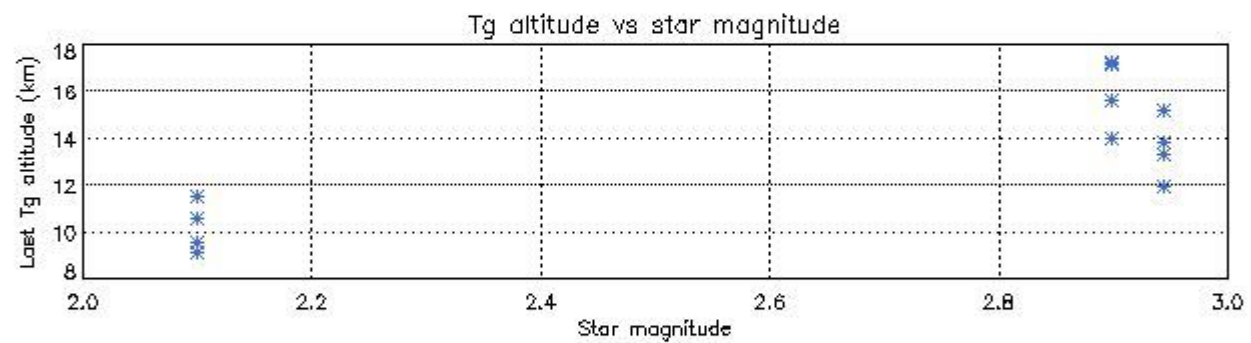
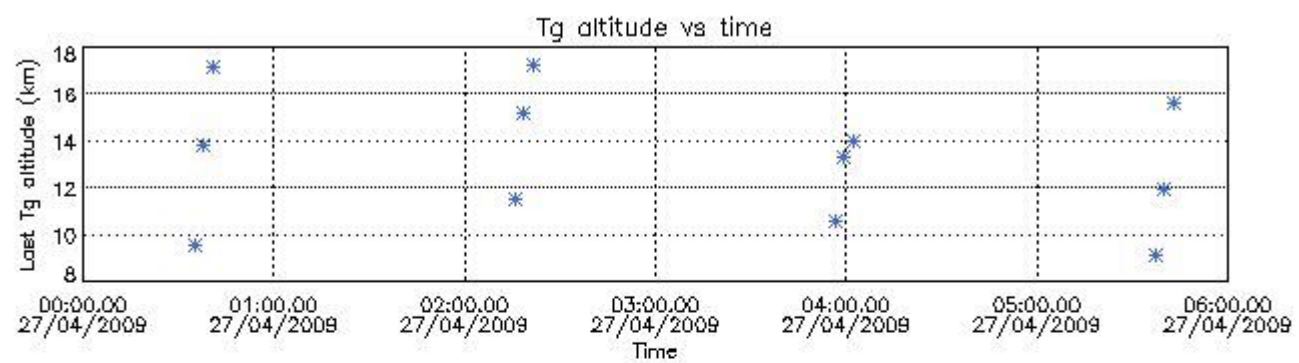
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.256	19.000	NaN
St. deviation:	2.7723	4.5515	NaN
Maximum:	17.253	22.990	NaN
Minimum:	9.1049	4.7100	NaN
Number of data:	12.000	23.000	NaN

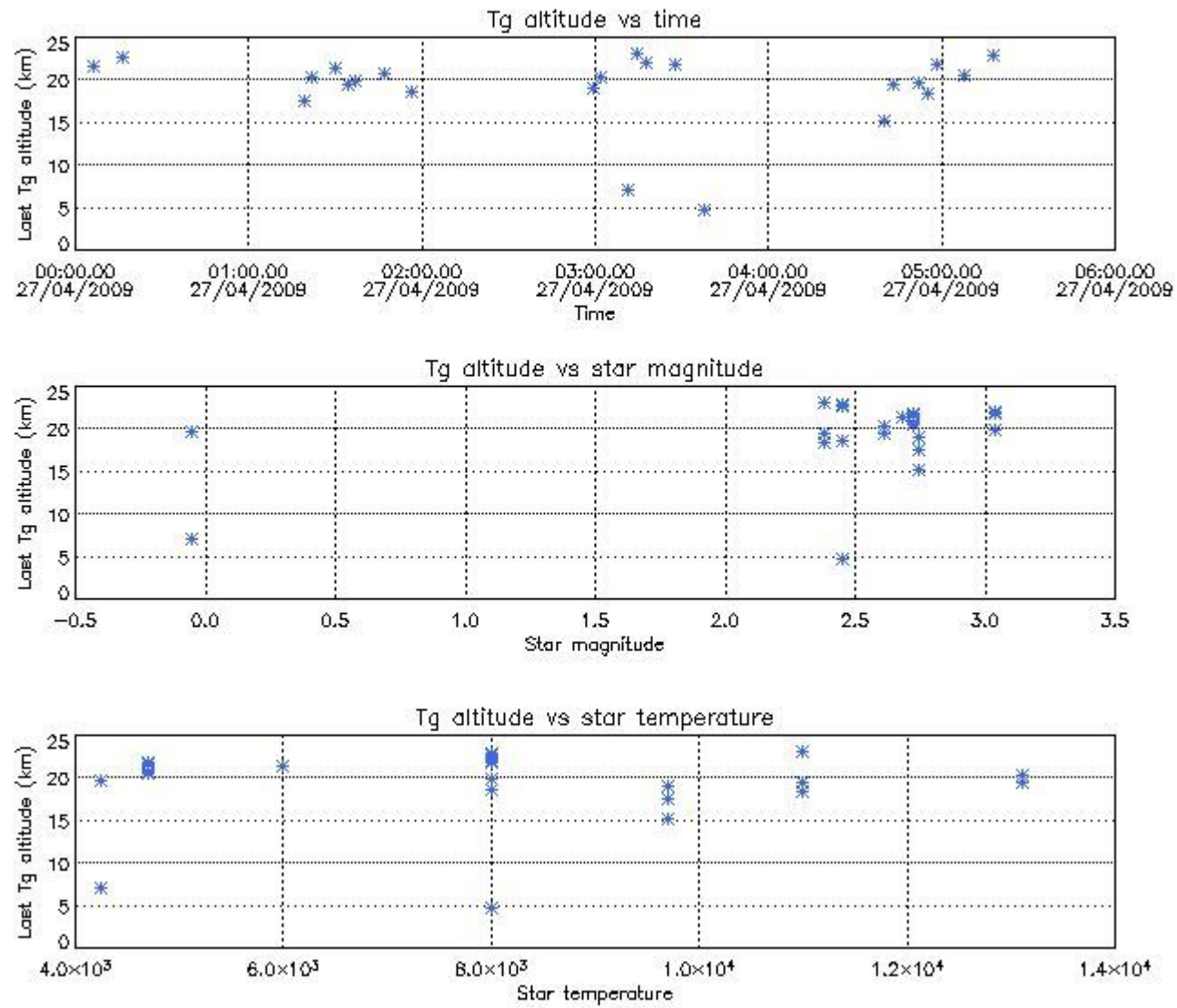
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

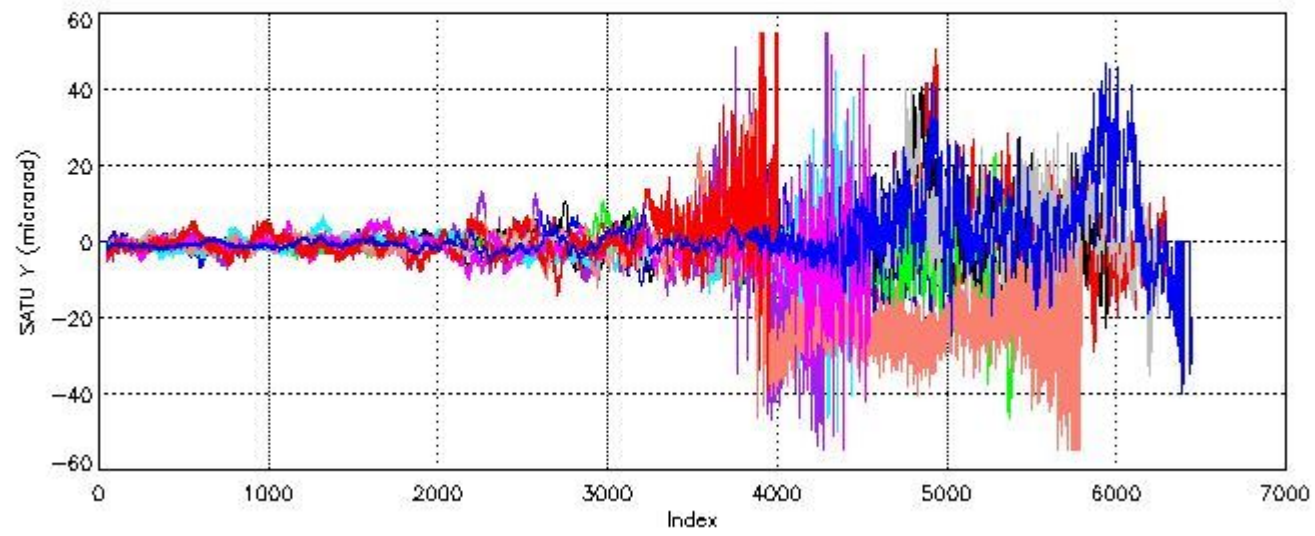
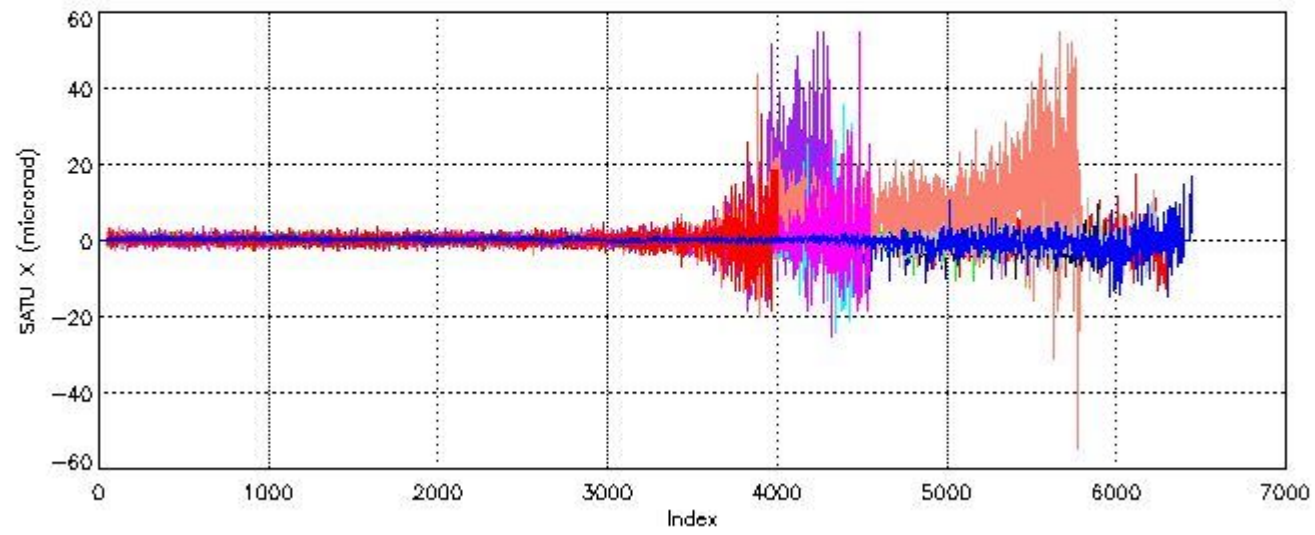


7. Star Acquisition and Tracking Unit (SATU)

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:	0.31228	-0.80164	0.37061	-1.0615
St. deviation:	0.53918	1.0582	0.89359	1.3695
Maximum:	2.9000	4.1000	5.7000	8.2000
Minimum:	-2.2000	-6.7000	-5.4000	-7.3000

Number of data:	14000.	14000.	23650.	23650.
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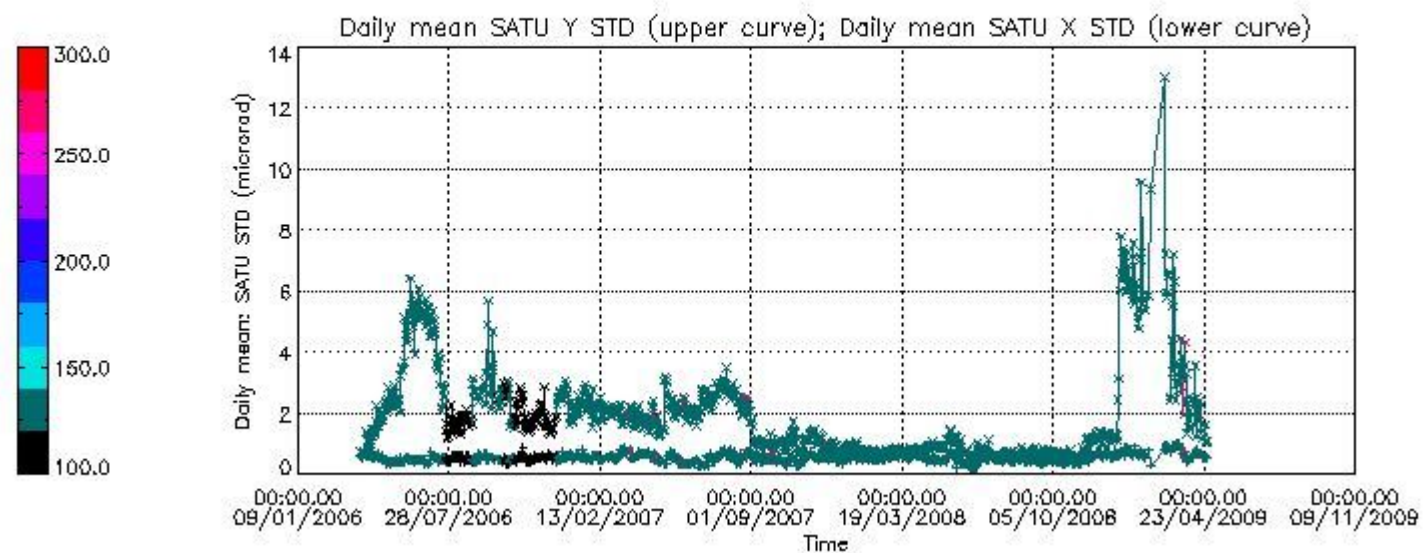
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

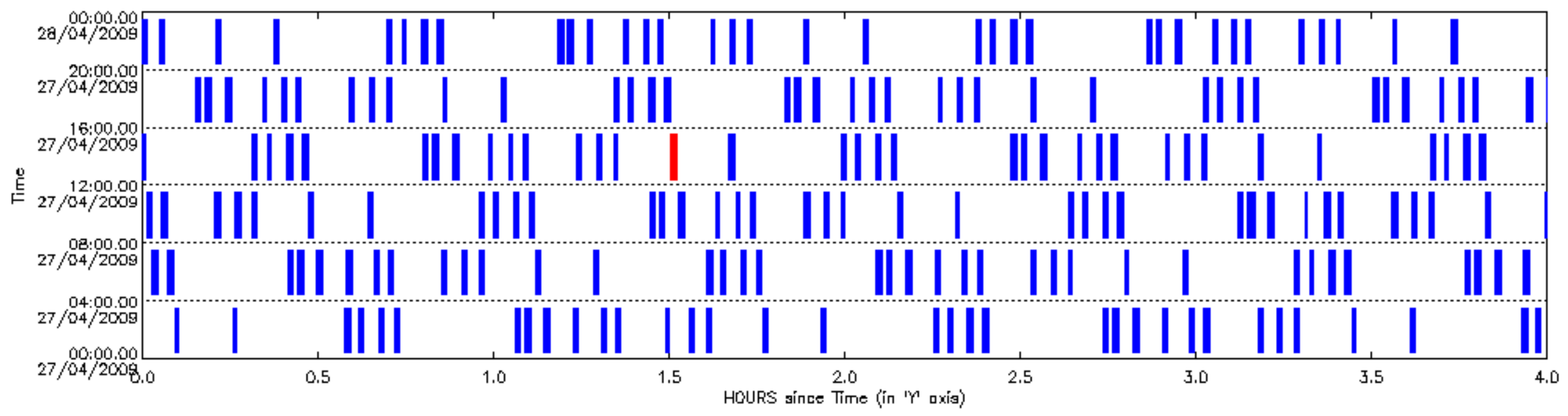
Lower curve: STD of SATU X axis

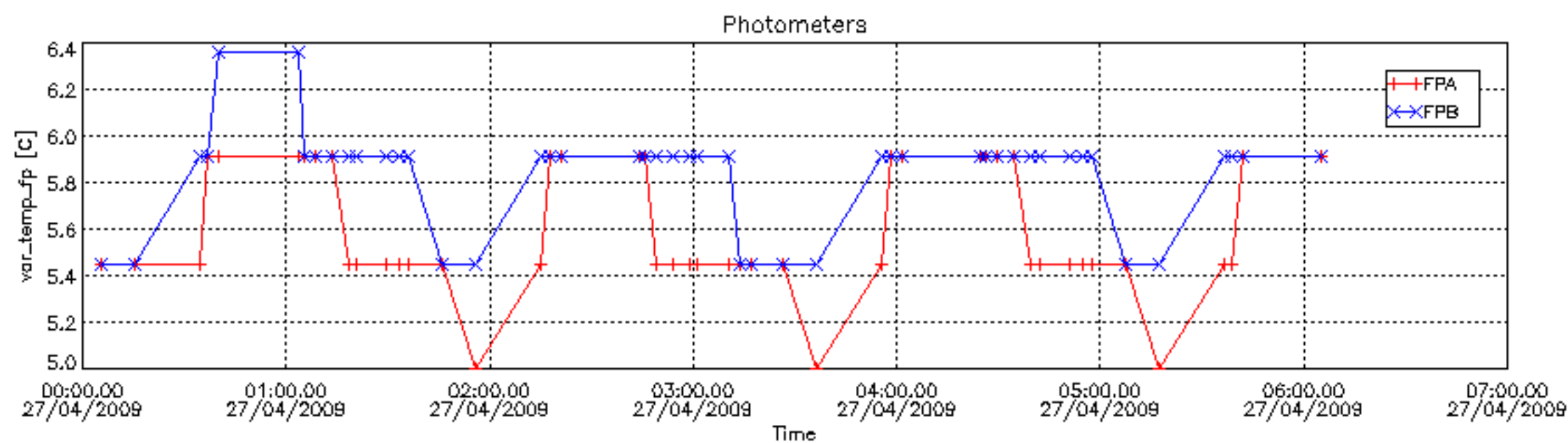
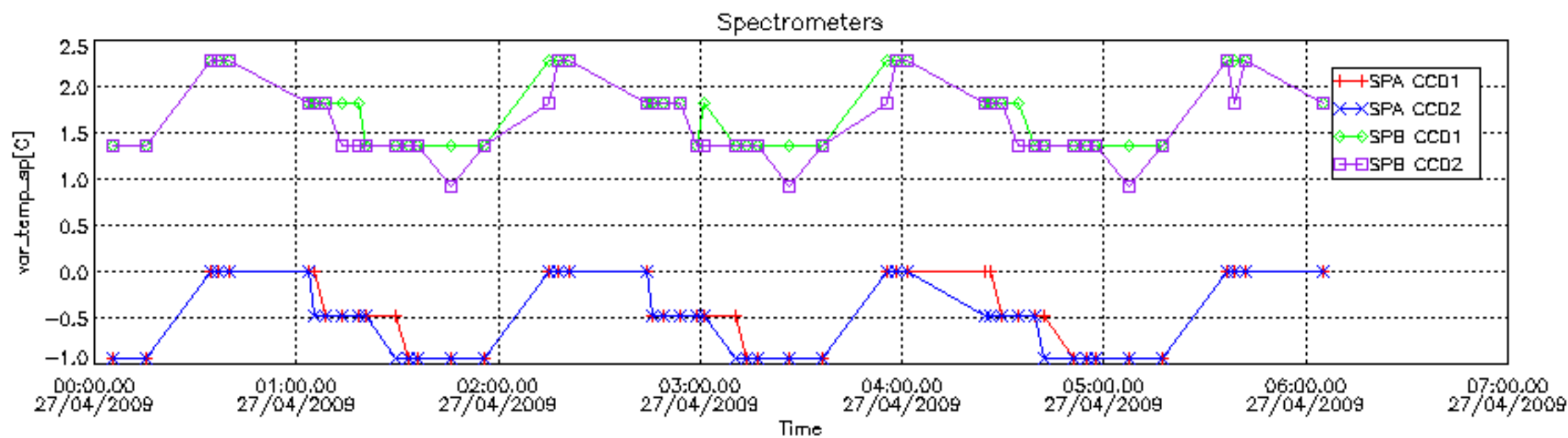


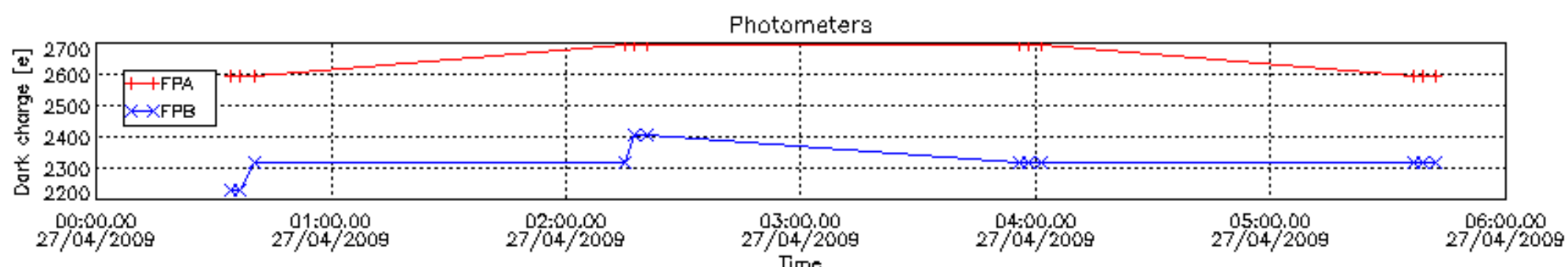
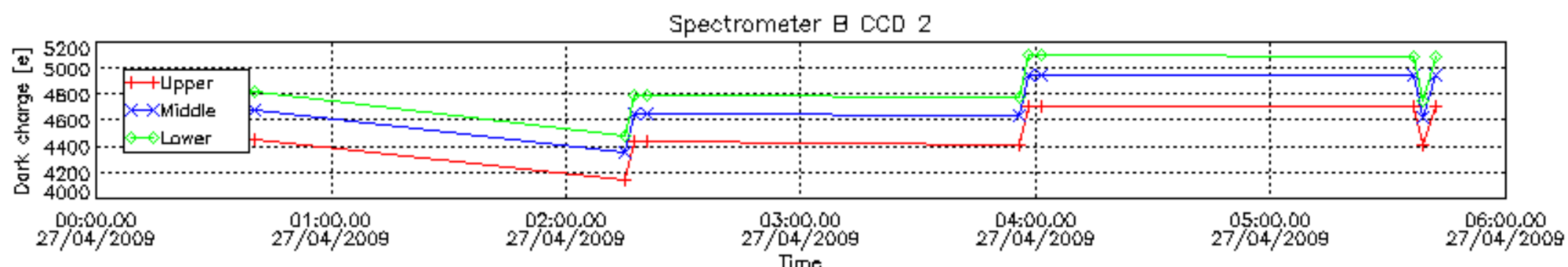
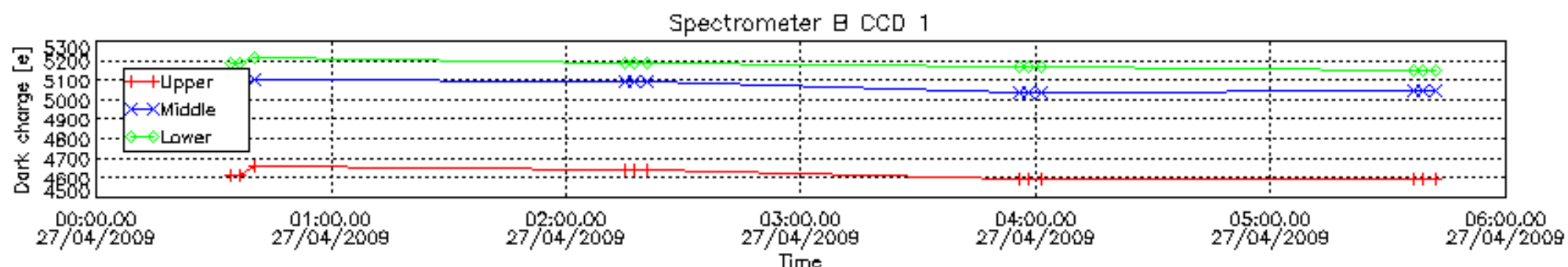
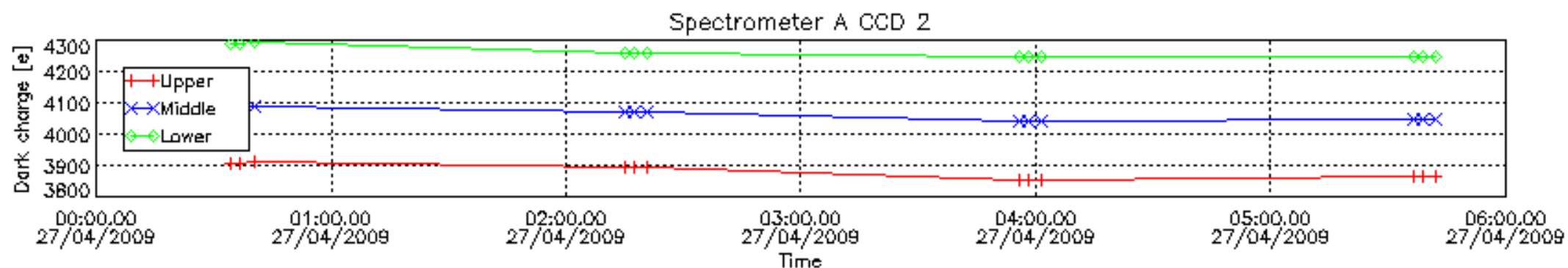
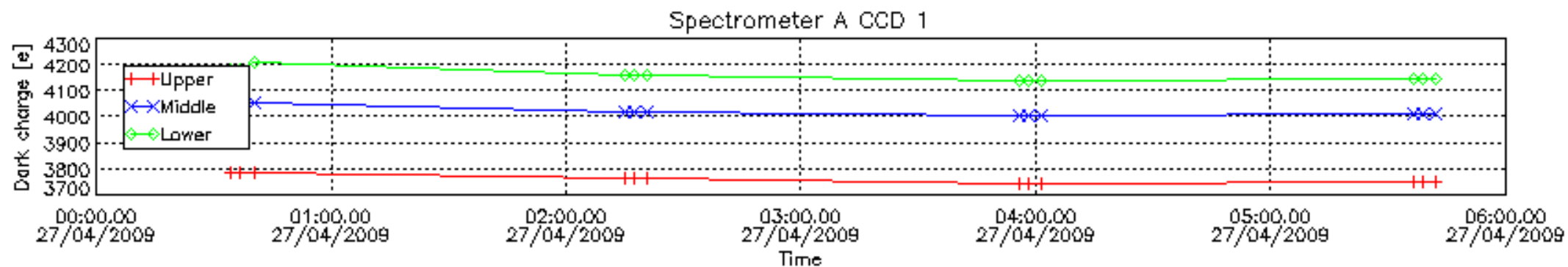
8. Auxiliary Data Files used for the production reported in section 2.4

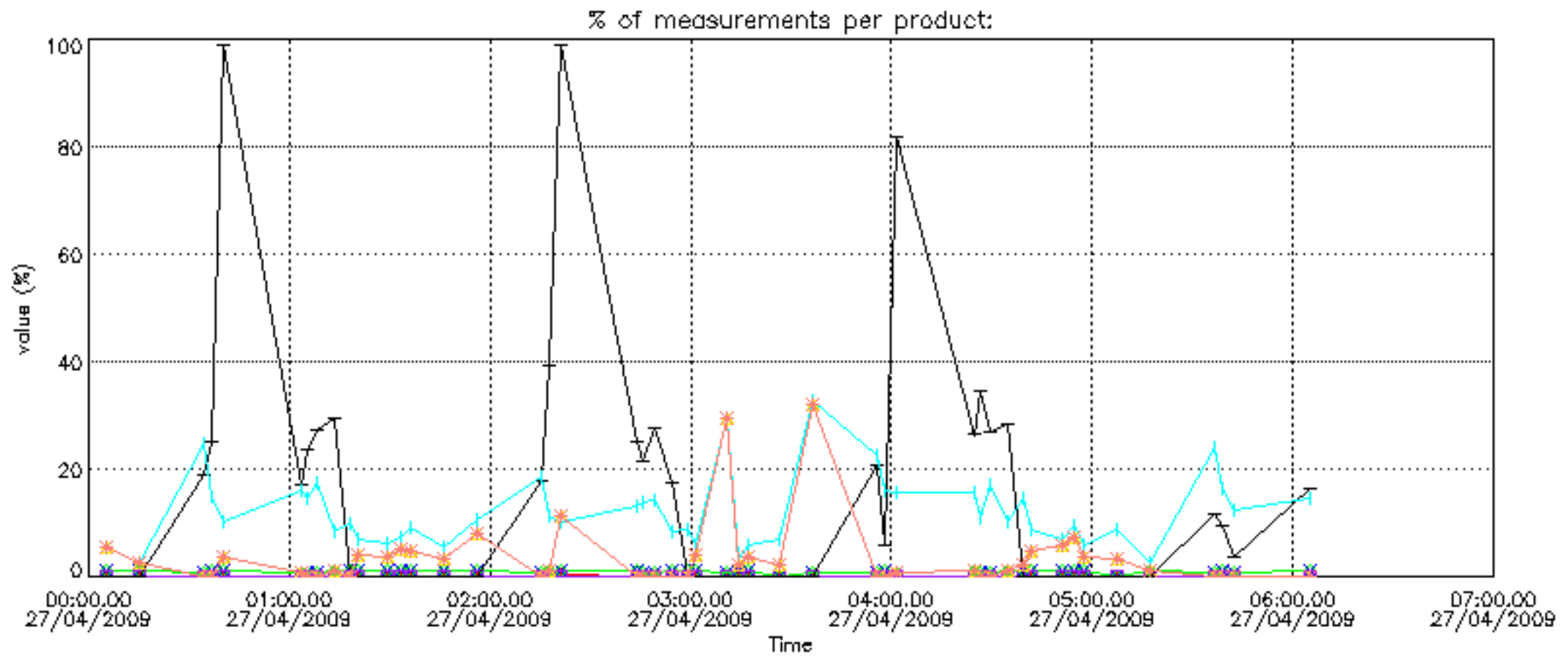
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-APR-2009 00:05:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090422_132334_20090420_000000_20100101_000000	1	27-APR-2009 00:05:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-APR-2009 00:05:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-APR-2009 00:05:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-APR-2009 00:05:25
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ECMWF_FILE	AUX_ECF_AXNECM20090426_184112_20090427_030000_20090427_150000	30	27-APR-2009 03:36:34
OPTIONAL_ECMWF_FILE	MISSING	1	27-APR-2009 00:05:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090426_211105_000060572078_00286_37414_7831.N1	1	27-APR-2009 00:05:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090426_225720_000057382078_00287_37415_7832.N1	5	27-APR-2009 00:40:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090427_021356_000041442078_00289_37417_7834.N1	17	27-APR-2009 02:15:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090427_032819_000057382078_00290_37418_7835.N1	44	27-APR-2009 05:17:10

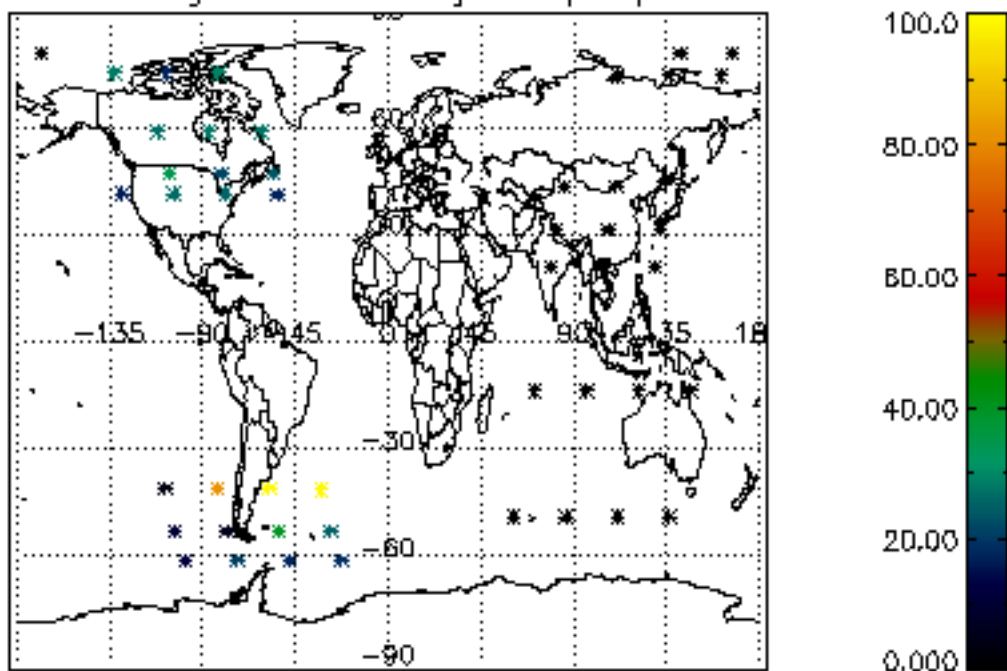




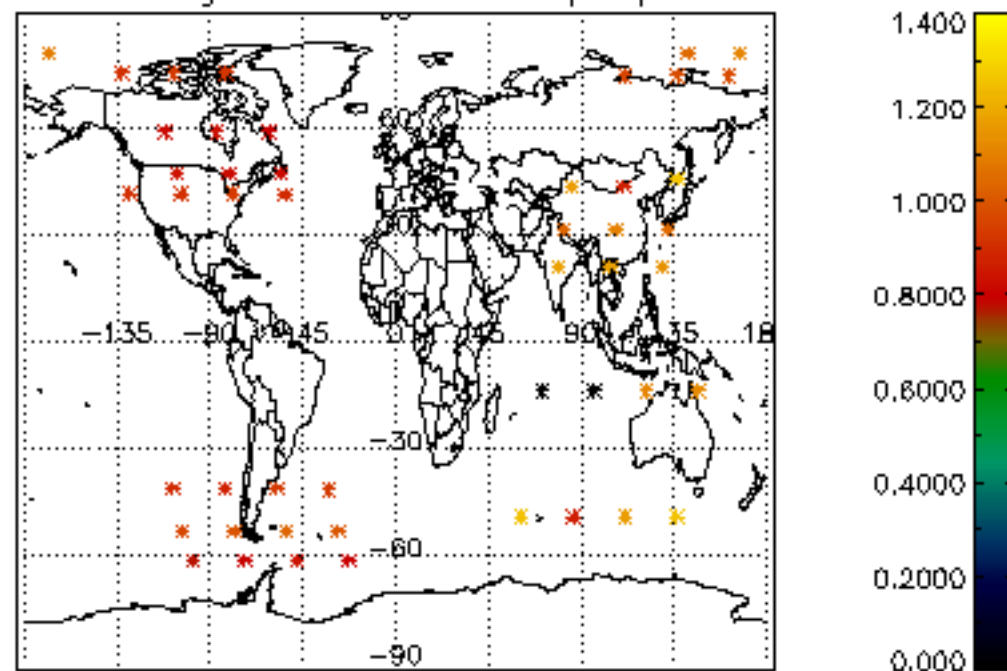




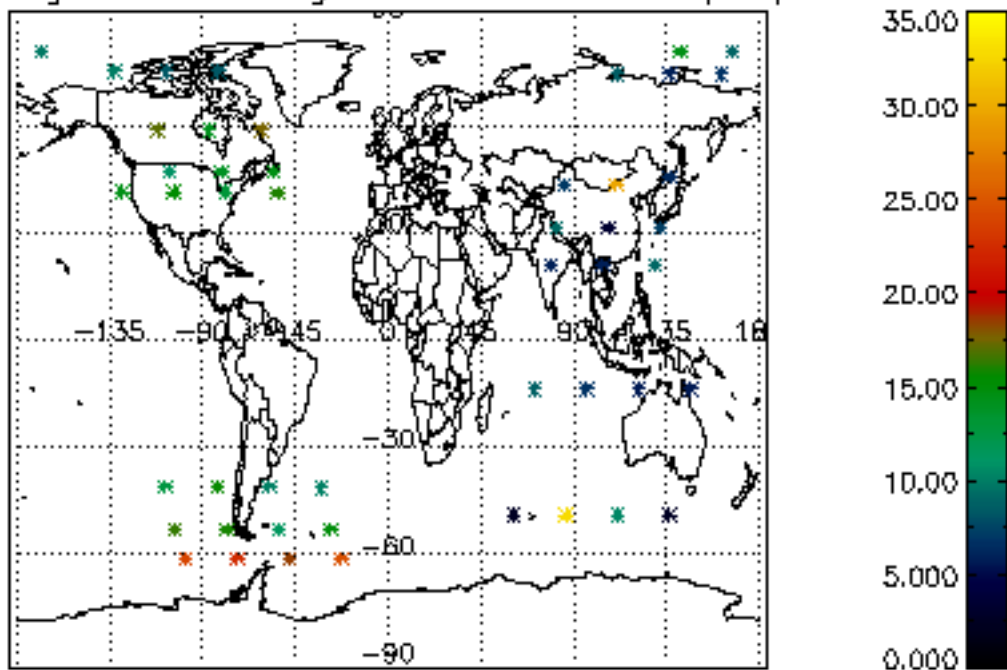
Percentage of cosmic ray hits per profile



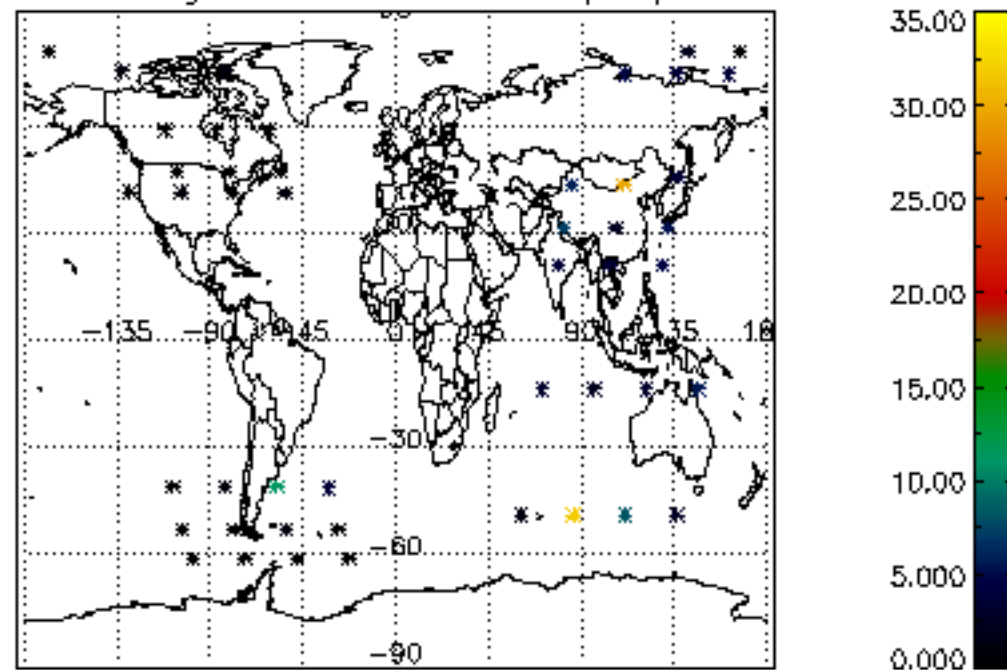
Percentage of datation errors per profile



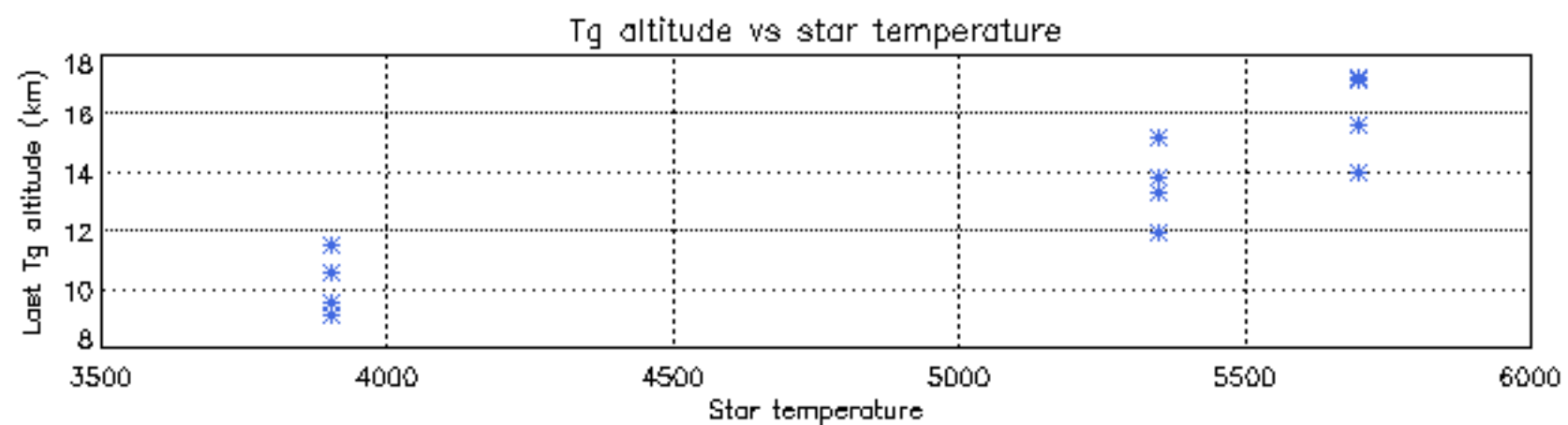
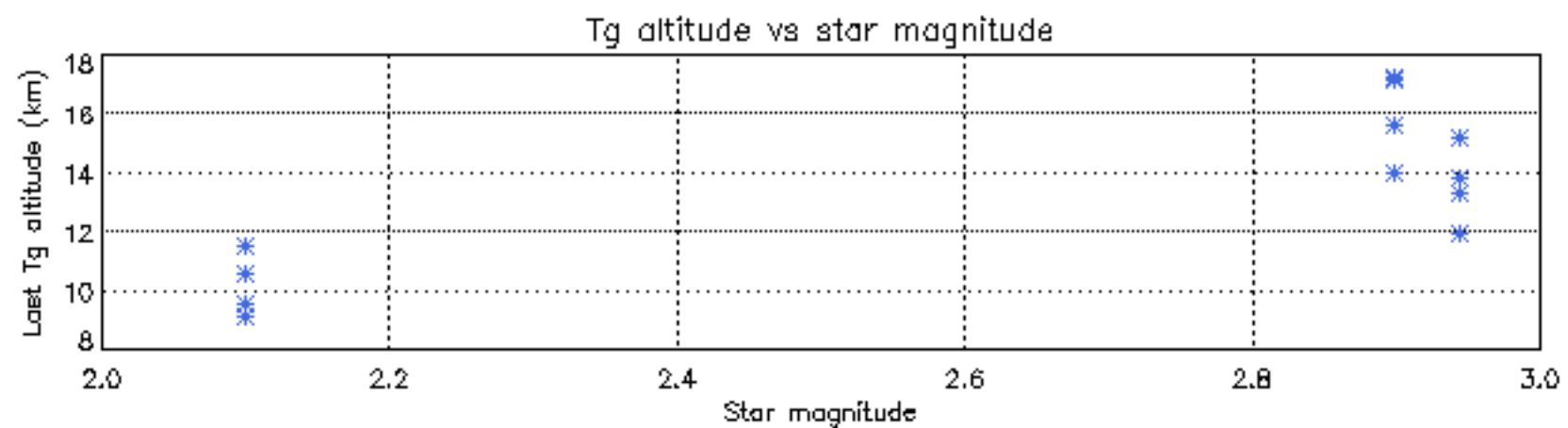
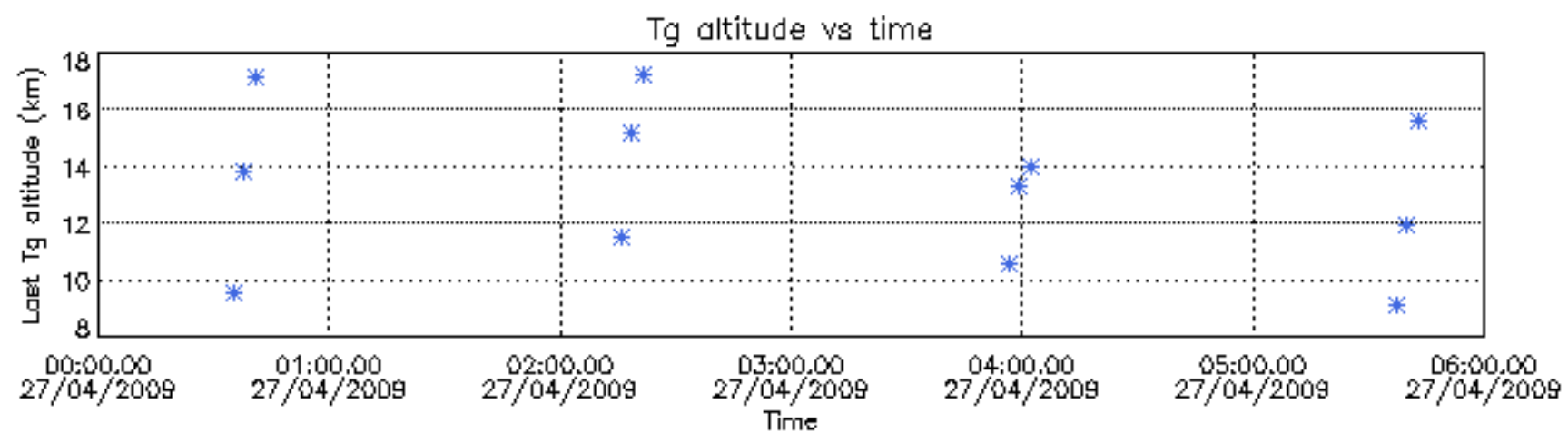
Percentage of star falling outside central band per profile



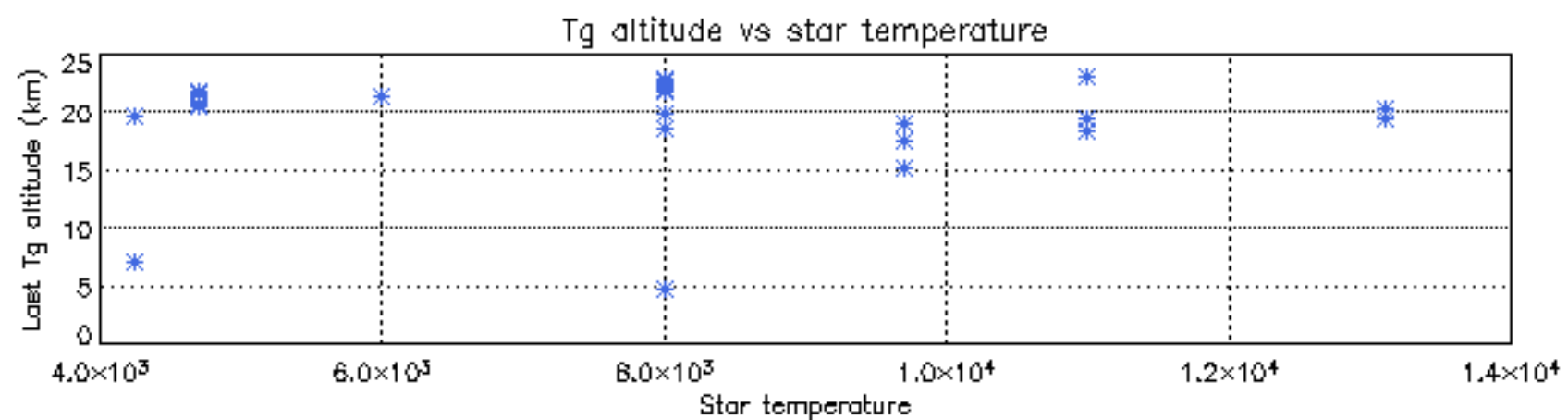
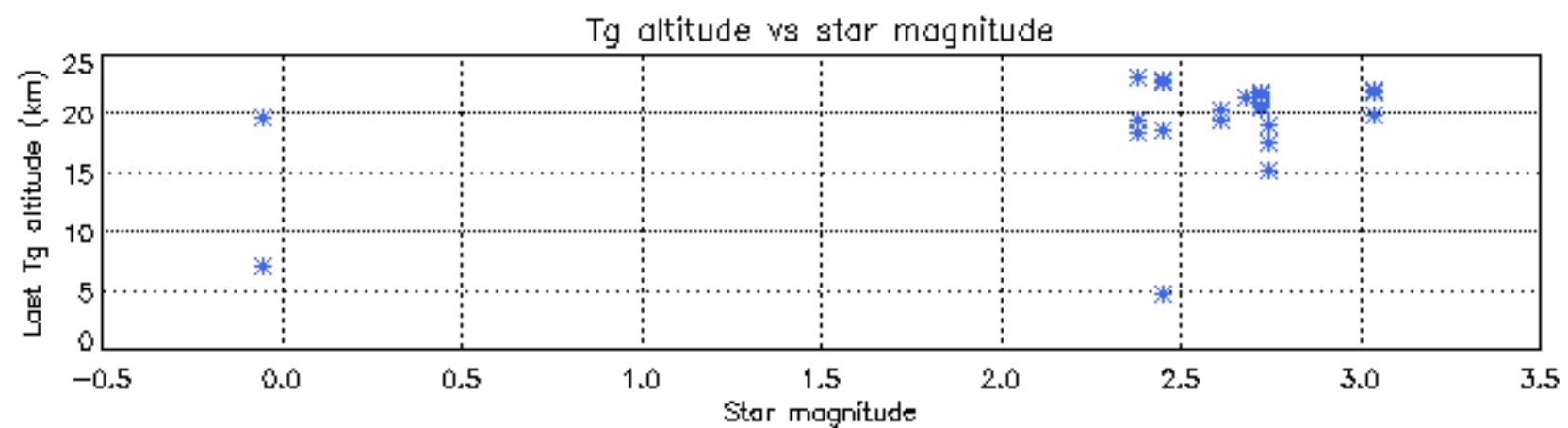
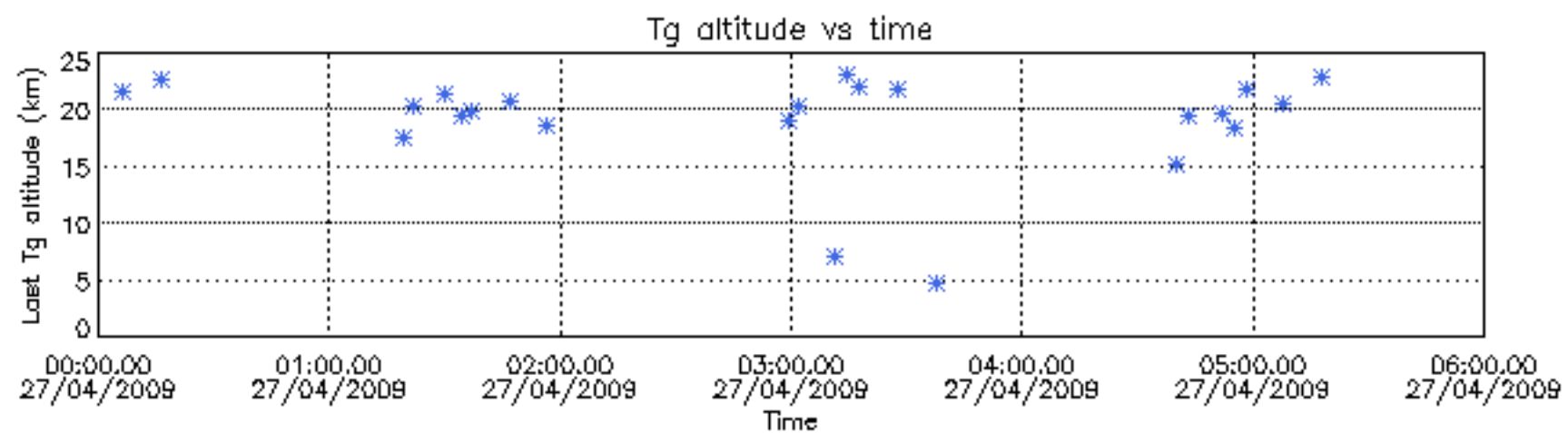
Percentage of saturation errors per profile

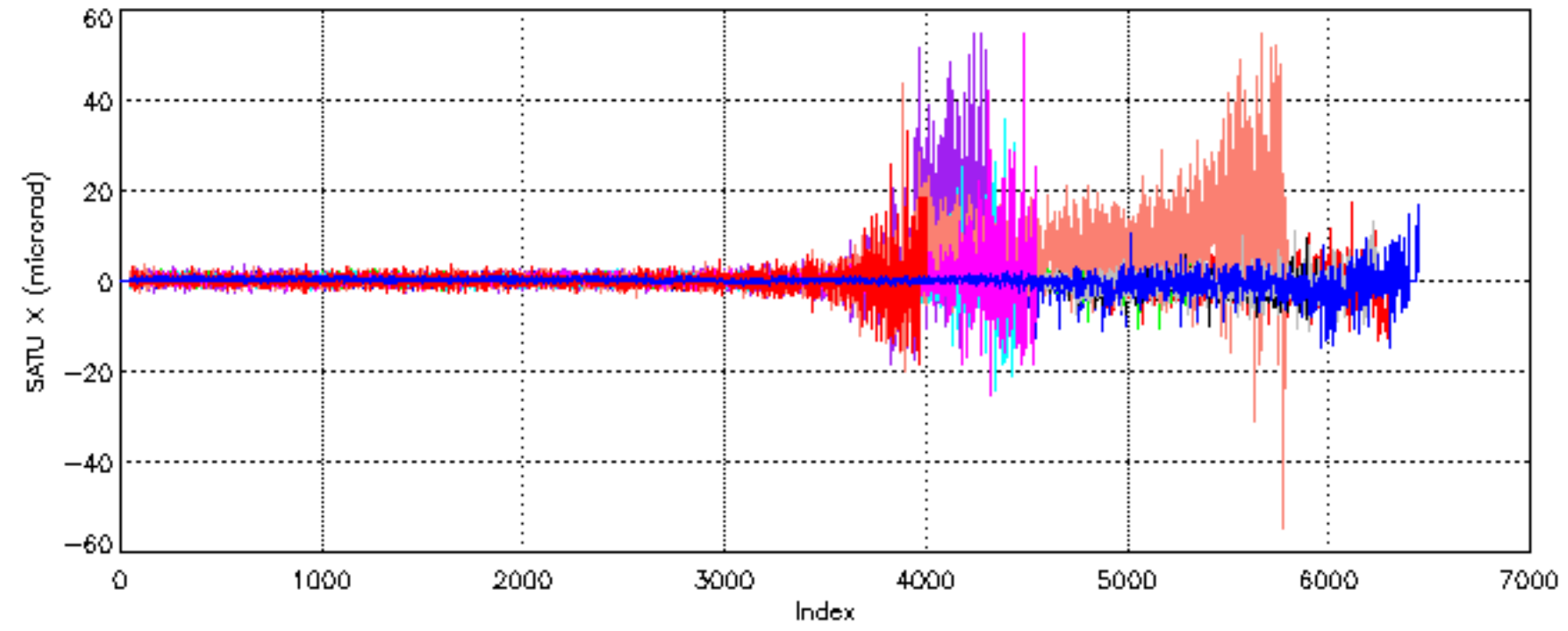


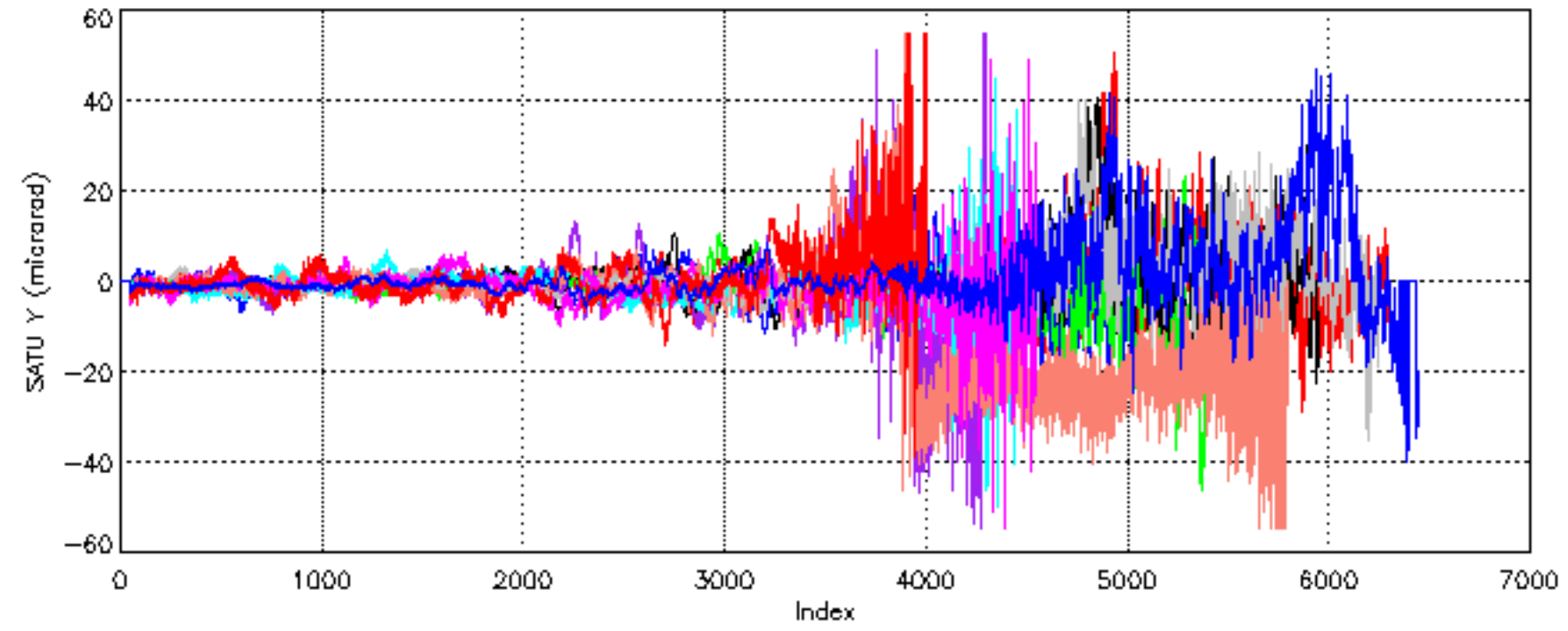
Tangent altitude at which the star is lost

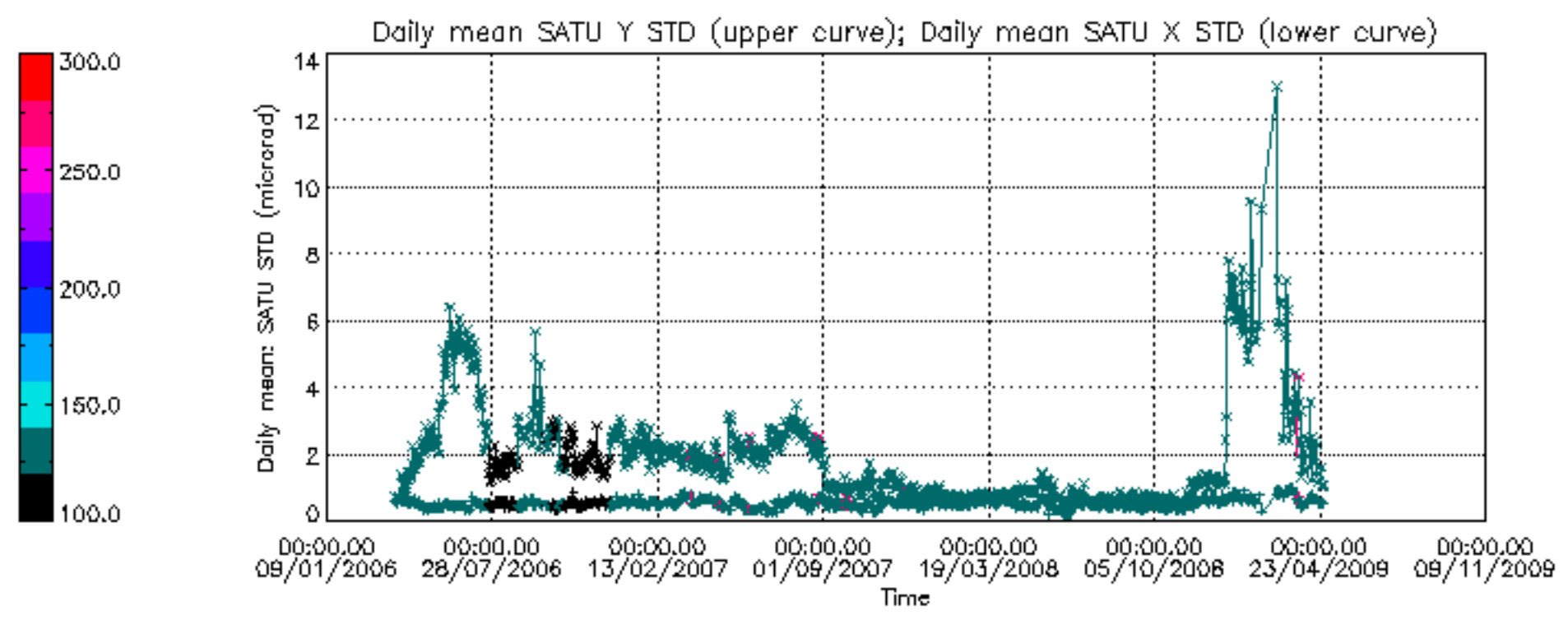


Tangent altitude at which the star is lost









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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
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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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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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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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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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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
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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
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3; -1599.6; 02-APR-2009 03:32:02; Bright; 44.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 88; 0;37060
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8; 91.1; 02-APR-2009 04:00:13; Dark ; 56.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 113; 0;37061
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
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13; 1434.3; 02-APR-2009 04:22:36; Dark ; 49.0; 169; 46Gam Hya ; 2.99; 4700;occ; 98; 0;37061
14; 1688.2; 02-APR-2009 04:26:50; Dark ; 60.5; 15; 67Alp Vir ; 0.98; 28000;occ; 121; 0;37061
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16; 2154.3; 02-APR-2009 04:34:36; Bright; 58.0; 138; 47Eps Vir ; 2.83; 4700;occ; 116; 0;37061
17; 2668.8; 02-APR-2009 04:43:11; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;37061
18; 2952.1; 02-APR-2009 04:47:54; Bright; 59.0; 32; 77Eps UMa ; 1.76; 11000;occ; 118; 0;37061
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4; 732.6; 22-APR-2009 23:49:22; Dark ; 66.0; 25; 35Lam Sco ; 1.62; 28000;occ; 132; 0;37359
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8; 768.5; 25-APR-2009 05:29:08; Dark ; 64.5; 25; 35Lam Sco ; 1.62; 28000;occ; 129; 0;37391
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 7; 3830.3; 30-APR-2009 13:45:41; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;37467
 8; 4507.9; 30-APR-2009 13:56:59; Bright; 42.5; 164; 44Eta Peg ; 2.95; 5400;occ; 85; 0;37467
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11; 5395.2; 30-APR-2009 14:11:46; Dark ; 61.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 122; 0;37467
12; 5552.2; 30-APR-2009 14:14:23; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37467
13; 6779.2; 30-APR-2009 14:34:50; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;37467
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 4; 2458.5; 30-APR-2009 15:03:25; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0;37468
 5; 2638.5; 30-APR-2009 15:06:25; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37468
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 2; 1263.6; 30-APR-2009 16:24:06; Dark ; 34.0; 16; 21Alp Sco ; 1.02; 3000;occ; 68; 0;37469
 3; 1399.5; 30-APR-2009 16:26:22; Dark ; 62.5; 80; 7Del Sco ; 2.32; 30000;occ; 125; 0;37469
 4; 1590.3; 30-APR-2009 16:29:33; Bright; 42.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 85; 0;37469
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 4; 1590.6; 30-APR-2009 18:10:09; Bright; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;37470
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