

GOMOS Daily Report 10-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	14APR2009 12:12:49
Data source version	GOMOS/5.00
Start time of products	10APR2009 00:01:34
Stop time of products	10APR2009 21:02:28
Store outputs in DB	No
Nb of level 1b prods	50
Nb of prods with errors	0

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

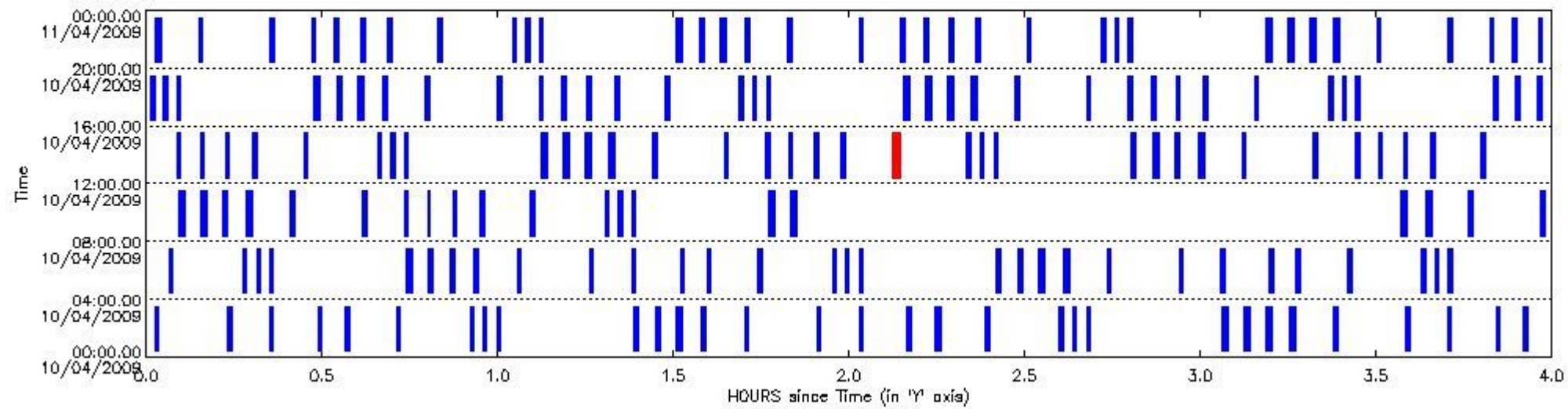
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

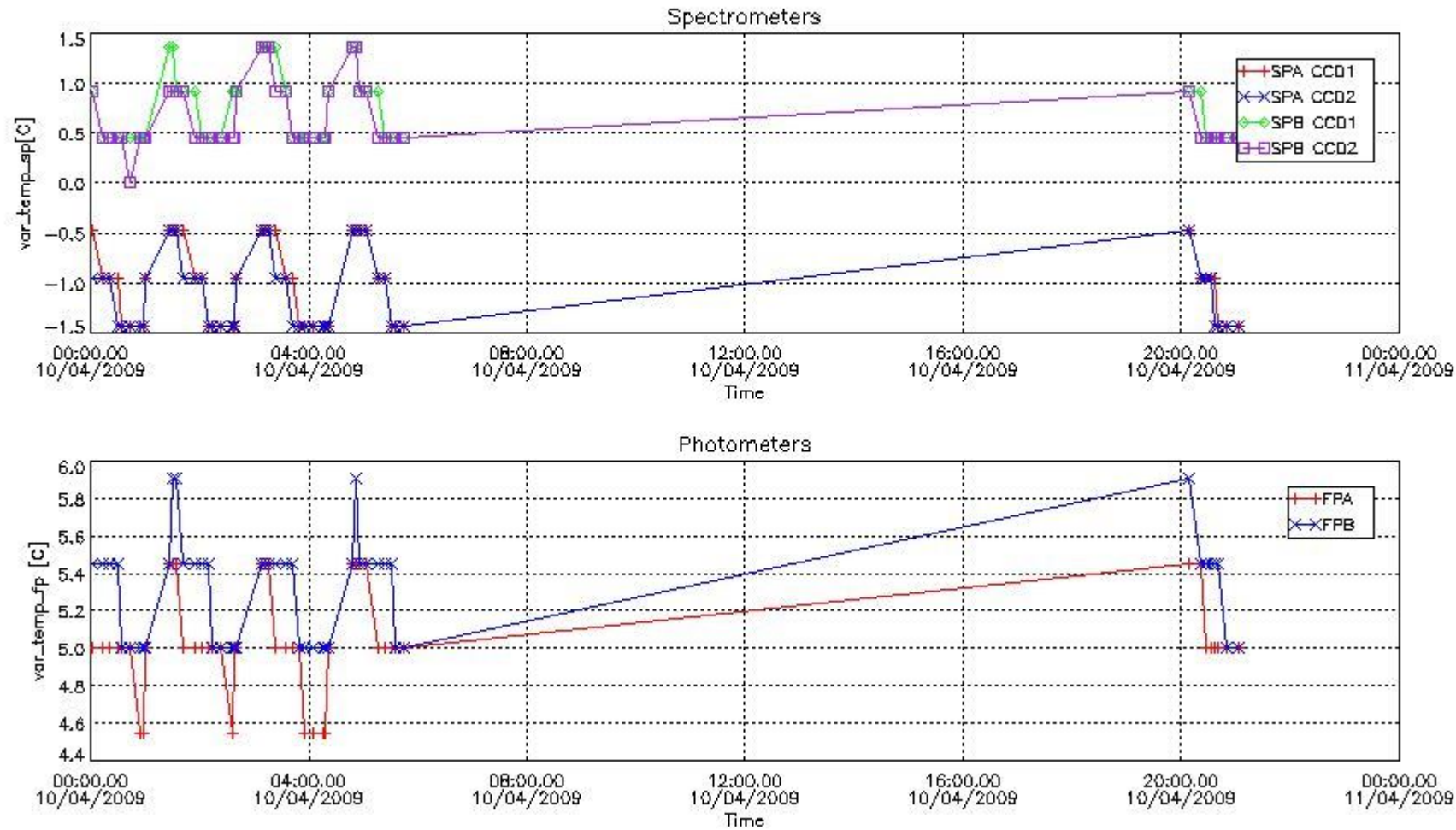
UTC start time	Star name	Star ID	Orbit
10-APR-2009 14:07:27	14EtaDra	119	37181

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_1PNPDE20090410_000134_000000372078_00045_37173_8097.N1	10-APR-2009 00:01:34	Straylight	36.500	109	Bet Lup	2.6770	26000.	73	37173	No
2	GOM_TRA_1PNPDE20090410_001354_000000362078_00045_37173_8098.N1	10-APR-2009 00:13:54	Bright	36.000	15	67Alp Vir	0.97600	28000.	72	37173	No
3	GOM_TRA_1PNPDE20090410_002103_000000362078_00045_37173_8099.N1	10-APR-2009 00:21:03	Bright	36.000	138	47Eps Vir	2.8280	4700.0	72	37173	No
4	GOM_TRA_1PNPDE20090410_002921_000000362078_00045_37173_8100.N1	10-APR-2009 00:29:21	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	37173	No
5	GOM_TRA_1PNPDE20090410_003358_000000392078_00045_37173_8101.N1	10-APR-2009 00:33:58	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	37173	No
6	GOM_TRA_1PNPDE20090410_004242_000000402078_00045_37173_8102.N1	10-APR-2009 00:42:42	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	37173	No
7	GOM_TRA_1PNPDE20090410_005519_000000372078_00045_37173_8103.N1	10-APR-2009 00:55:19	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	37173	No
8	GOM_TRA_1PNPDE20090410_005735_000000342078_00045_37173_8104.N1	10-APR-2009 00:57:35	Bright	34.000	66	37Gam Cyg	2.2080	5900.0	68	37173	No
9	GOM_TRA_1PNPDE20090410_005953_000000322078_00045_37173_8105.N1	10-APR-2009 00:59:53	Twilight_stray	31.500	92	53Eps Cyg	2.5000	4500.0	63	37173	No
10	GOM_TRA_1PNPDE20090410_012652_000000572078_00046_37174_8226.N1	10-APR-2009 01:26:52	Dark	57.000	103	38Zet Sgr	2.6000	9700.0	114	37174	No

11	GOM_TRA_1PNPDE20090410_013031_000000582078_00046_37174_8227.N1	10-APR-2009 01:30:31	Dark	58.000	38	20Eps Sgr	1.8360	11000.	116	37174	No
12	GOM_TRA_1PNPDE20090410_013440_000000592078_00046_37174_8228.N1	10-APR-2009 01:34:40	Dark	59.000	25	35Lam Sco	1.6200	28000.	118	37174	No
13	GOM_TRA_1PNPDE20090410_014210_000000382078_00046_37174_8229.N1	10-APR-2009 01:42:10	Straylight	38.000	109	Bet Lup	2.6770	26000.	76	37174	No
14	GOM_TRA_1PNPDE20090410_015430_000000372078_00046_37174_8230.N1	10-APR-2009 01:54:30	Bright	37.000	15	67Alp Vir	0.97600	28000.	74	37174	No
15	GOM_TRA_1PNPDE20090410_020138_000000372078_00046_37174_8231.N1	10-APR-2009 02:01:38	Bright	37.000	138	47Eps Vir	2.8280	4700.0	74	37174	No
16	GOM_TRA_1PNPDE20090410_020956_000000382078_00046_37174_8232.N1	10-APR-2009 02:09:56	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	37174	No
17	GOM_TRA_1PNPDE20090410_021434_000000642078_00046_37174_8233.N1	10-APR-2009 02:14:34	Bright	64.000	39	85Eta UMa	1.8540	24000.	128	37174	No
18	GOM_TRA_1PNPDE20090410_022318_000000402078_00046_37174_8234.N1	10-APR-2009 02:23:18	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	37174	No
19	GOM_TRA_1PNPDE20090410_023555_000000392078_00046_37174_8398.N1	10-APR-2009 02:35:55	Bright	38.500	144	18Del Cyg	2.8600	11000.	77	37174	No
20	GOM_TRA_1PNPDE20090410_023811_000000352078_00046_37174_8399.N1	10-APR-2009 02:38:11	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	37174	No
21	GOM_TRA_1PNPDE20090410_024029_000000342078_00046_37174_8400.N1	10-APR-2009 02:40:29	Bright	33.500	92	53Eps Cyg	2.5000	4500.0	67	37174	No
22	GOM_TRA_1PNPDE20090410_030729_000000562078_00047_37175_8401.N1	10-APR-2009 03:07:29	Dark	56.000	103	38Zet Sgr	2.6000	9700.0	112	37175	No
23	GOM_TRA_1PNPDE20090410_031109_000000602078_00047_37175_8402.N1	10-APR-2009 03:11:09	Dark	60.000	38	20Eps Sgr	1.8360	11000.	120	37175	No
24	GOM_TRA_1PNPDE20090410_031518_000000542078_00047_37175_8403.N1	10-APR-2009 03:15:18	Dark	54.000	25	35Lam Sco	1.6200	28000.	108	37175	No
25	GOM_TRA_1PNPDE20090410_032246_000000372078_00047_37175_8404.N1	10-APR-2009 03:22:46	Straylight	37.000	109	Bet Lup	2.6770	26000.	74	37175	No
26	GOM_TRA_1PNPDE20090410_033506_000000362078_00047_37175_8405.N1	10-APR-2009 03:35:06	Bright	36.000	15	67Alp Vir	0.97600	28000.	72	37175	No
27	GOM_TRA_1PNPDE20090410_034214_000000362078_00047_37175_8406.N1	10-APR-2009 03:42:14	Bright	36.000	138	47Eps Vir	2.8280	4700.0	72	37175	No
28	GOM_TRA_1PNPDE20090410_035032_000000352078_00047_37175_8407.N1	10-APR-2009 03:50:32	Bright	35.000	152	12Alp2CVn	2.8900	11000.	70	37175	No
29	GOM_TRA_1PNPDE20090410_035509_000000382078_00047_37175_8408.N1	10-APR-2009 03:55:09	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	37175	No
30	GOM_TRA_1PNPDE20090410_040353_000000382078_00047_37175_8409.N1	10-APR-2009 04:03:53	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	37175	No
31	GOM_TRA_1PNPDE20090410_041630_000000362078_00047_37175_8586.N1	10-APR-2009 04:16:30	Tw_i_and_stray	36.000	144	18Del Cyg	2.8600	11000.	72	37175	No
32	GOM_TRA_1PNPDE20090410_041846_000000332078_00047_37175_8587.N1	10-APR-2009 04:18:46	Tw_i_and_stray	33.000	66	37Gam Cyg	2.2080	5900.0	66	37175	No
33	GOM_TRA_1PNPDE20090410_042105_000000312078_00047_37175_8588.N1	10-APR-2009 04:21:05	Tw_i_and_stray	31.000	92	53Eps Cyg	2.5000	4500.0	62	37175	No
34	GOM_TRA_1PNPDE20090410_044807_000000552078_00048_37176_8589.N1	10-APR-2009 04:48:07	Dark	55.000	103	38Zet Sgr	2.6000	9700.0	110	37176	No
35	GOM_TRA_1PNPDE20090410_045146_000000552078_00048_37176_8590.N1	10-APR-2009 04:51:46	Dark	54.500	38	20Eps Sgr	1.8360	11000.	109	37176	No
36	GOM_TRA_1PNPDE20090410_045555_000000542078_00048_37176_8591.N1	10-APR-2009 04:55:55	Dark	53.500	25	35Lam Sco	1.6200	28000.	107	37176	No
37	GOM_TRA_1PNPDE20090410_050323_000000392078_00048_37176_8592.N1	10-APR-2009 05:03:23	Straylight	38.500	109	Bet Lup	2.6770	26000.	77	37176	No
38	GOM_TRA_1PNPDE20090410_051542_000000382078_00048_37176_8593.N1	10-APR-2009 05:15:42	Bright	37.500	15	67Alp Vir	0.97600	28000.	75	37176	No
39	GOM_TRA_1PNPDE20090410_052250_000000382078_00048_37176_8594.N1	10-APR-2009 05:22:50	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	37176	No
40	GOM_TRA_1PNPDE20090410_053108_000000372078_00048_37176_8595.N1	10-APR-2009 05:31:08	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	37176	No
41	GOM_TRA_1PNPDE20090410_053545_000000402078_00048_37176_8596.N1	10-APR-2009 05:35:45	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	37176	No
42	GOM_TRA_1PNPDE20090410_054428_000000402078_00048_37176_8597.N1	10-APR-2009 05:44:28	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	37176	No
43	GOM_TRA_1PNPDE20090410_200852_000000432078_00057_37185_9077.N1	10-APR-2009 20:08:52	Straylight	43.000	109	Bet Lup	2.6770	26000.	86	37185	No
44	GOM_TRA_1PNPDE20090410_202106_000000442078_00057_37185_9078.N1	10-APR-2009 20:21:06	Bright	44.000	15	67Alp Vir	0.97600	28000.	88	37185	No
45	GOM_TRA_1PNPDE20090410_202812_000000412078_00057_37185_9079.N1	10-APR-2009 20:28:12	Bright	41.000	138	47Eps Vir	2.8280	4700.0	82	37185	No
46	GOM_TRA_1PNPDE20090410_203205_000000512078_00057_37185_9080.N1	10-APR-2009 20:32:05	Bright	51.000	111	8Eta Boo	2.6800	6000.0	102	37185	No
47	GOM_TRA_1PNPDE20090410_203628_000000572078_00057_37185_9081.N1	10-APR-2009 20:36:28	Bright	56.500	152	12Alp2CVn	2.8900	11000.	113	37185	No
48	GOM_TRA_1PNPDE20090410_204103_000000472078_00057_37185_9082.N1	10-APR-2009 20:41:03	Bright	46.500	39	85Eta UMa	1.8540	24000.	93	37185	No
49	GOM_TRA_1PNPDE20090410_204945_000000462078_00057_37185_9083.N1	10-APR-2009 20:49:45	Bright	46.000	119	14Eta Dra	2.7270	4700.0	92	37185	No
50	GOM_TRA_1PNPDE20090410_210228_000000432078_00057_37185_9084.N1	10-APR-2009 21:02:28	Bright	43.000	144	18Del Cyg	2.8600	11000.	86	37185	No

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



4. Overview of dark signal processing per product

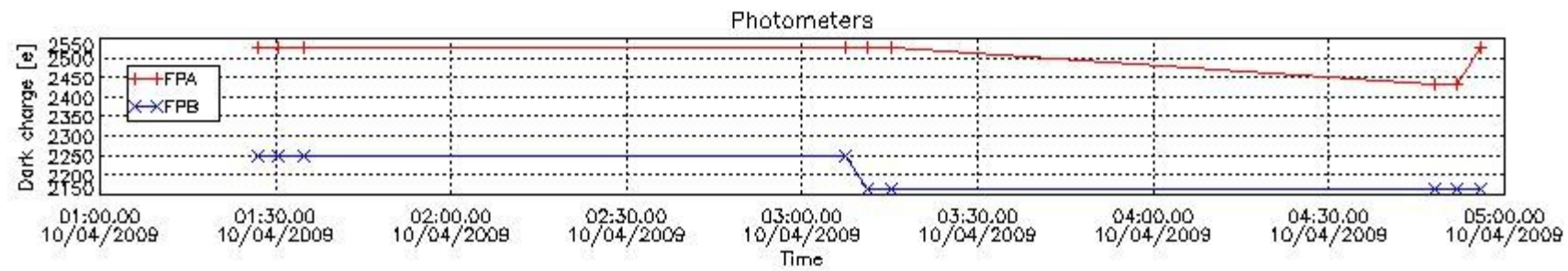
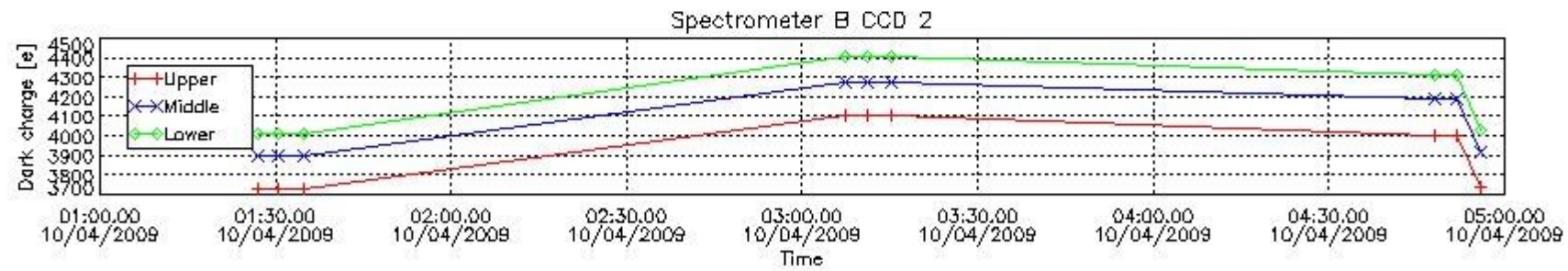
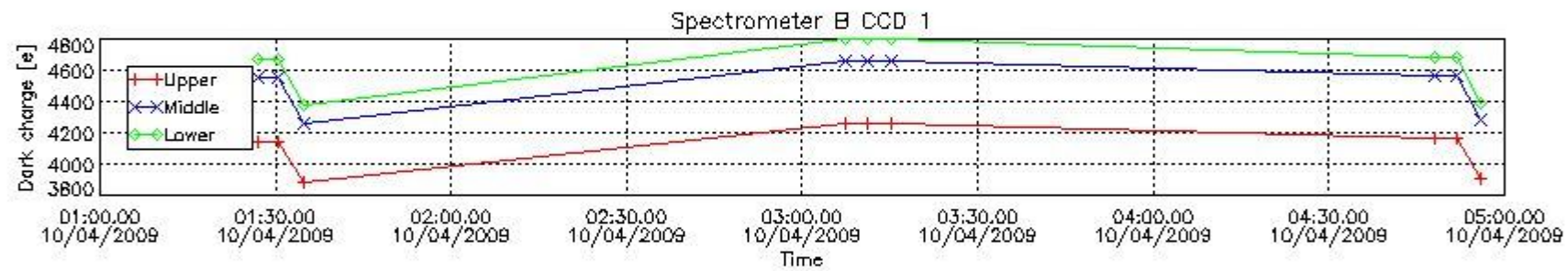
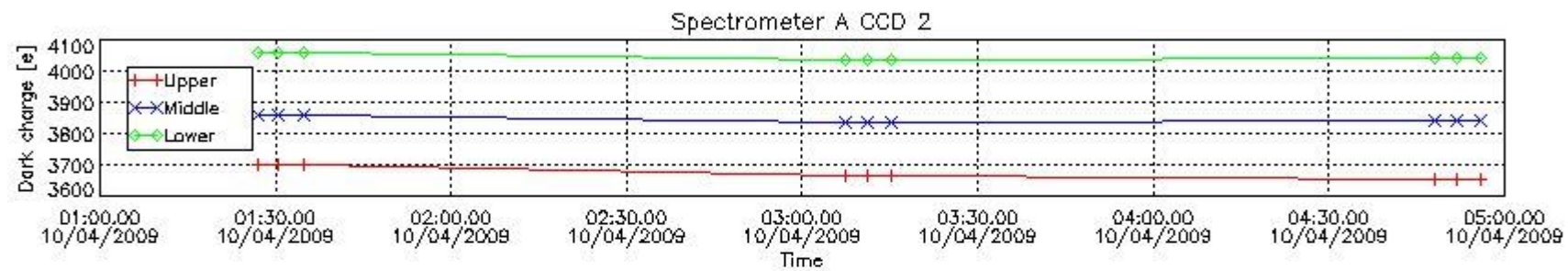
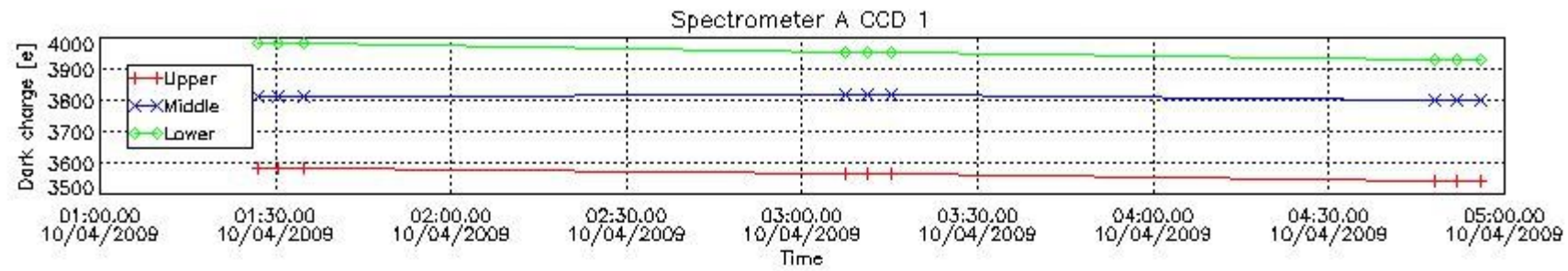
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090410_200852_000000432078_00057_37185_9077.N1	DC map used
GOM_TRA_1PNPDE20090410_202106_000000442078_00057_37185_9078.N1	DC map used
GOM_TRA_1PNPDE20090410_202812_000000412078_00057_37185_9079.N1	DC map used
GOM_TRA_1PNPDE20090410_203205_000000512078_00057_37185_9080.N1	DC map used
GOM_TRA_1PNPDE20090410_203628_000000572078_00057_37185_9081.N1	DC map used
GOM_TRA_1PNPDE20090410_204103_000000472078_00057_37185_9082.N1	DC map used
GOM_TRA_1PNPDE20090410_204945_000000462078_00057_37185_9083.N1	DC map used
GOM_TRA_1PNPDE20090410_210228_000000432078_00057_37185_9084.N1	DC map used

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



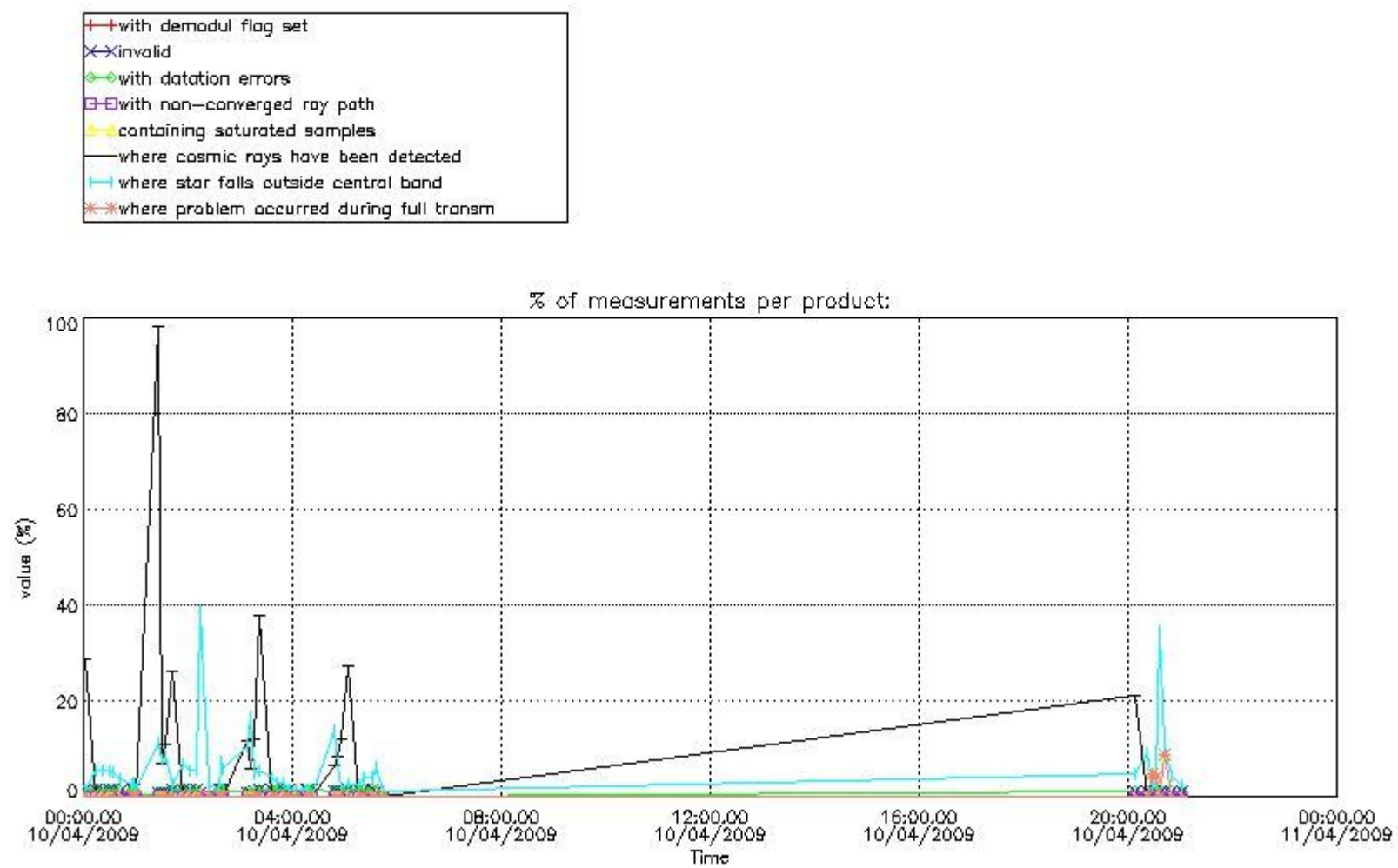
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

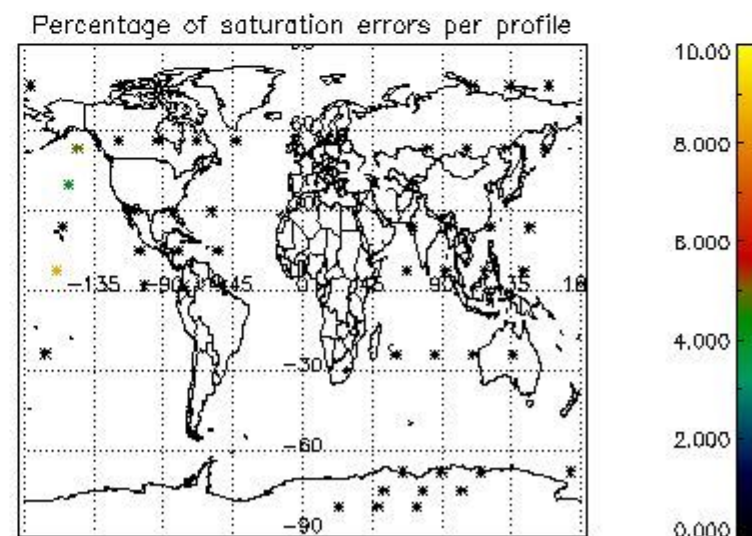
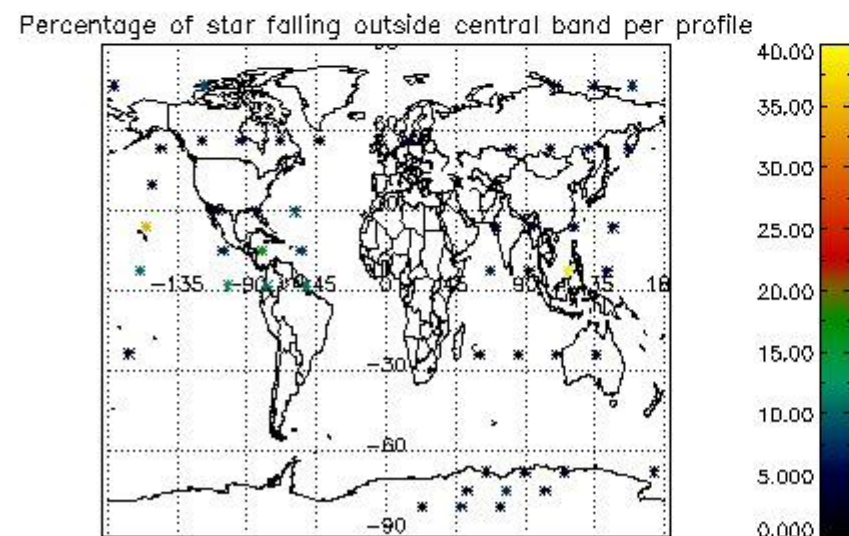
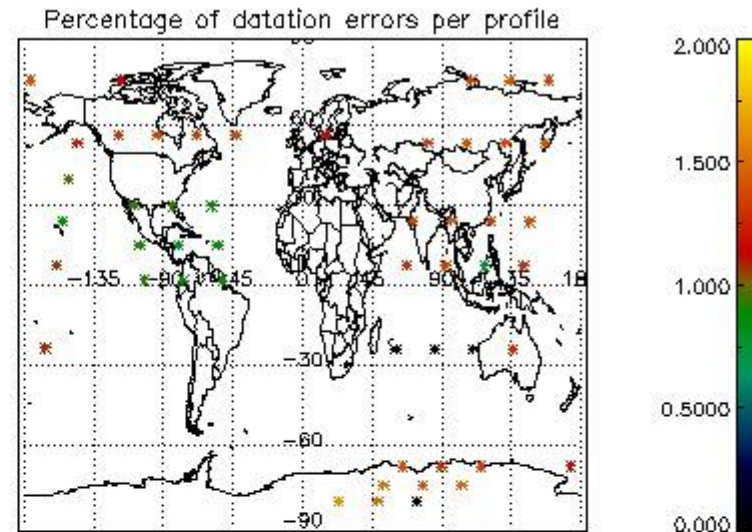
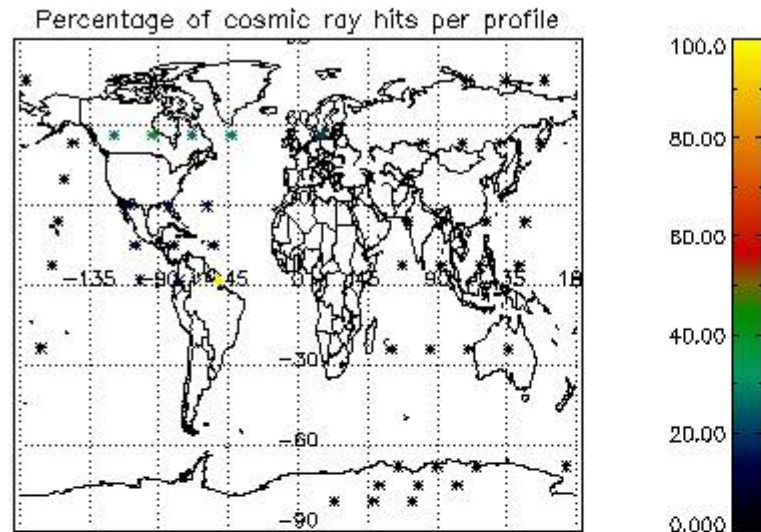
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	10.0000 %
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)



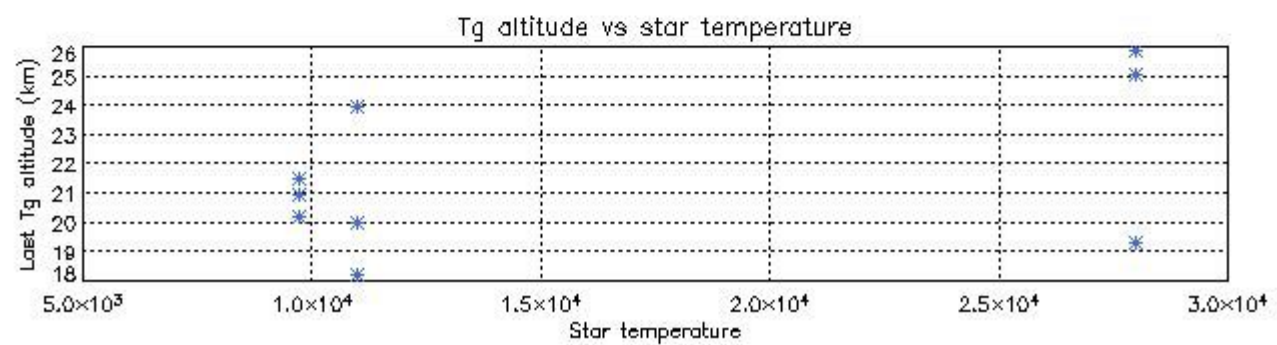
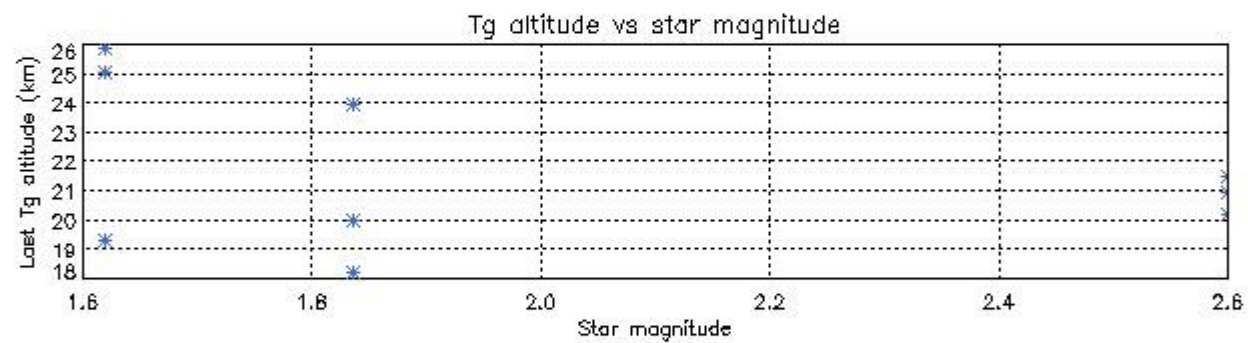
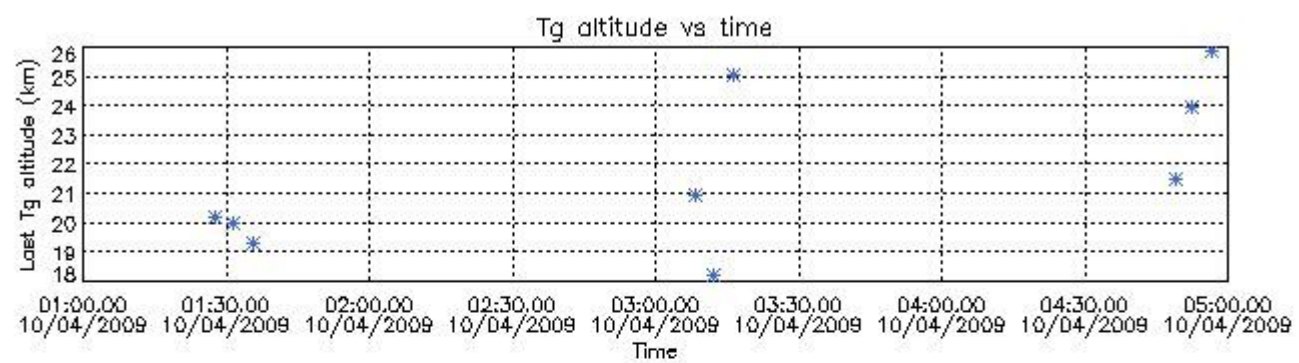
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	21.657	31.515	NaN
St. deviation:	2.6756	11.307	NaN
Maximum:	25.843	50.501	NaN
Minimum:	18.181	3.1097	NaN
Number of data:	9.0000	32.000	NaN

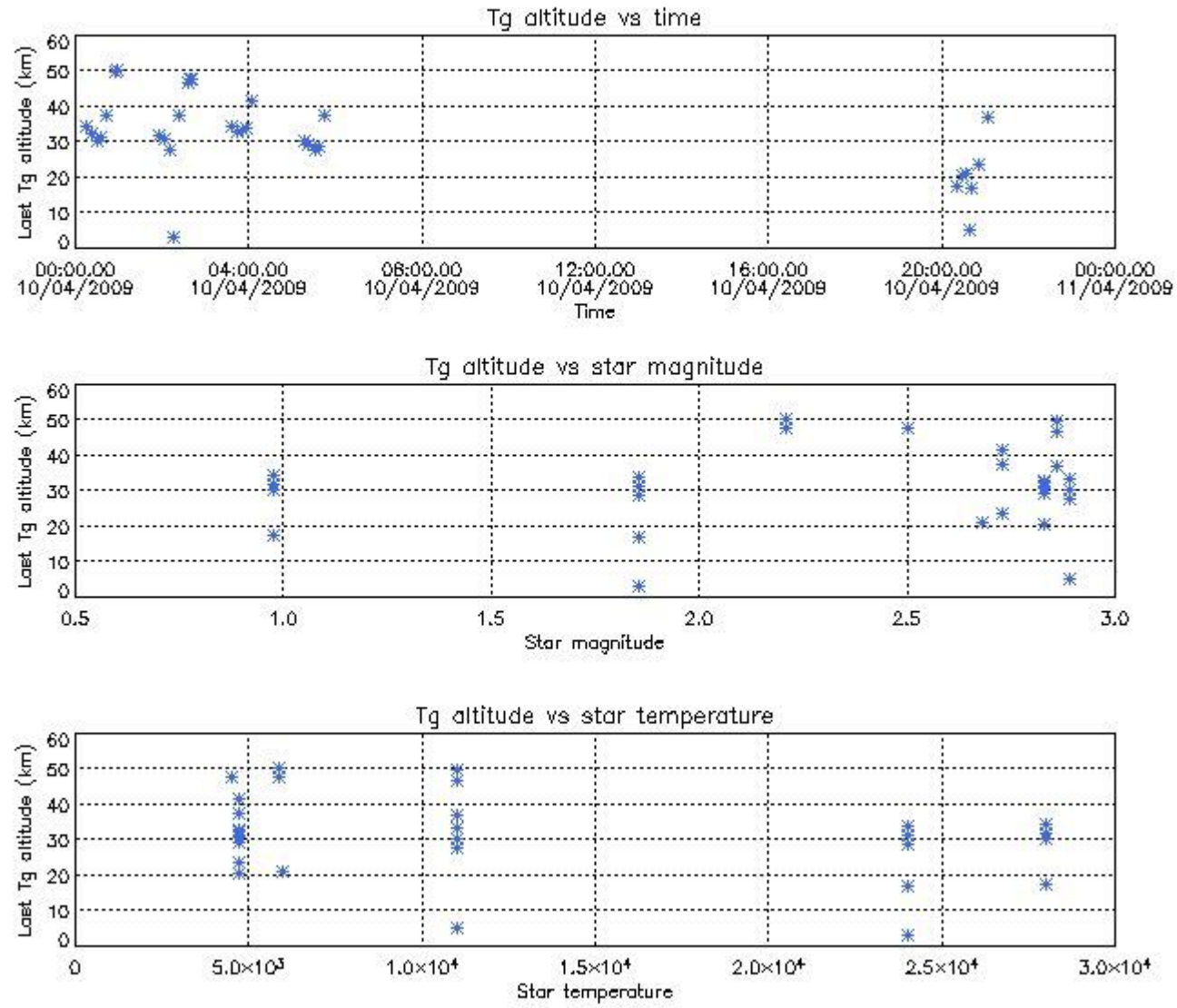
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

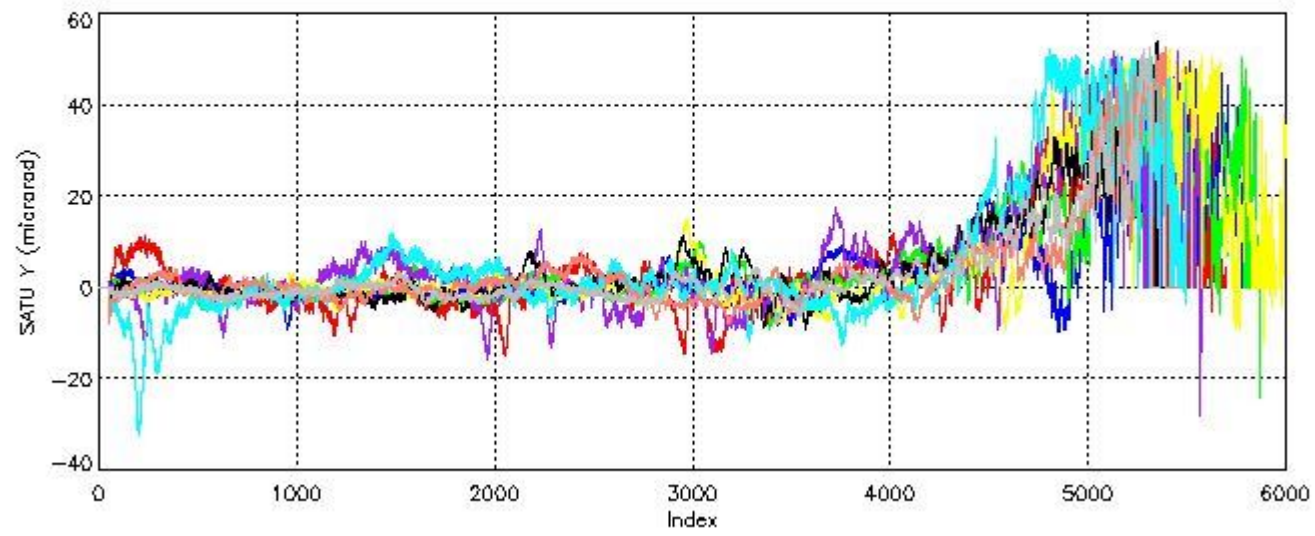
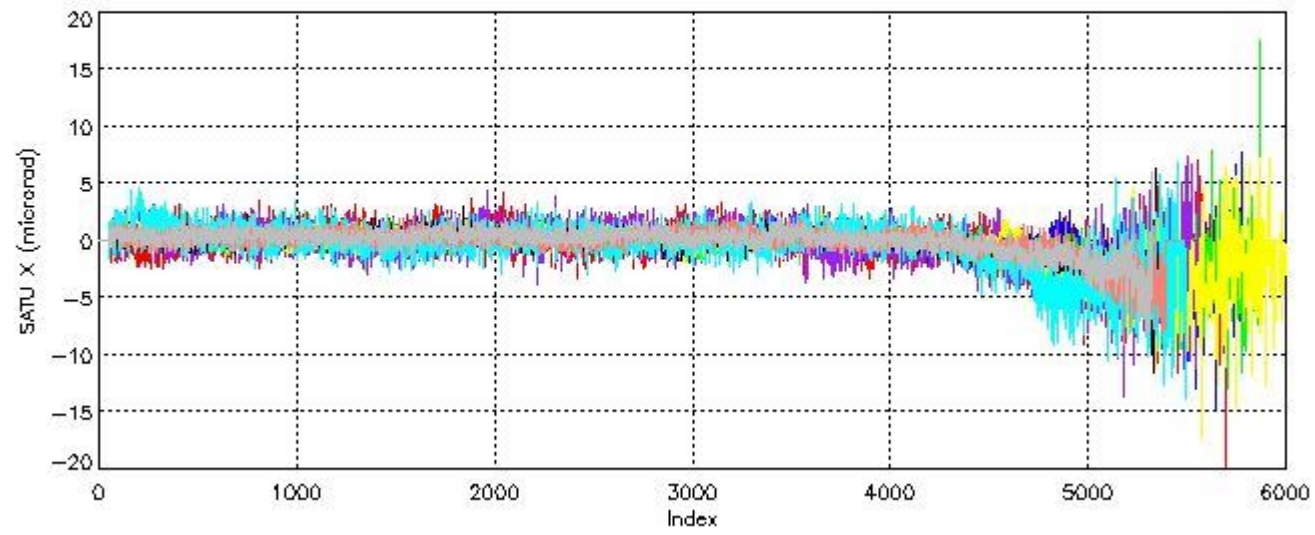


7. Star Acquisition and Tracking Unit (SATU)

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:	0.37162	-0.98192	0.27827	-0.60468
St. deviation:	0.66289	2.5080	0.87533	1.8468
Maximum:	4.6000	11.300	6.7000	10.200
Minimum:	-2.9000	-32.400	-6.1000	-13.200

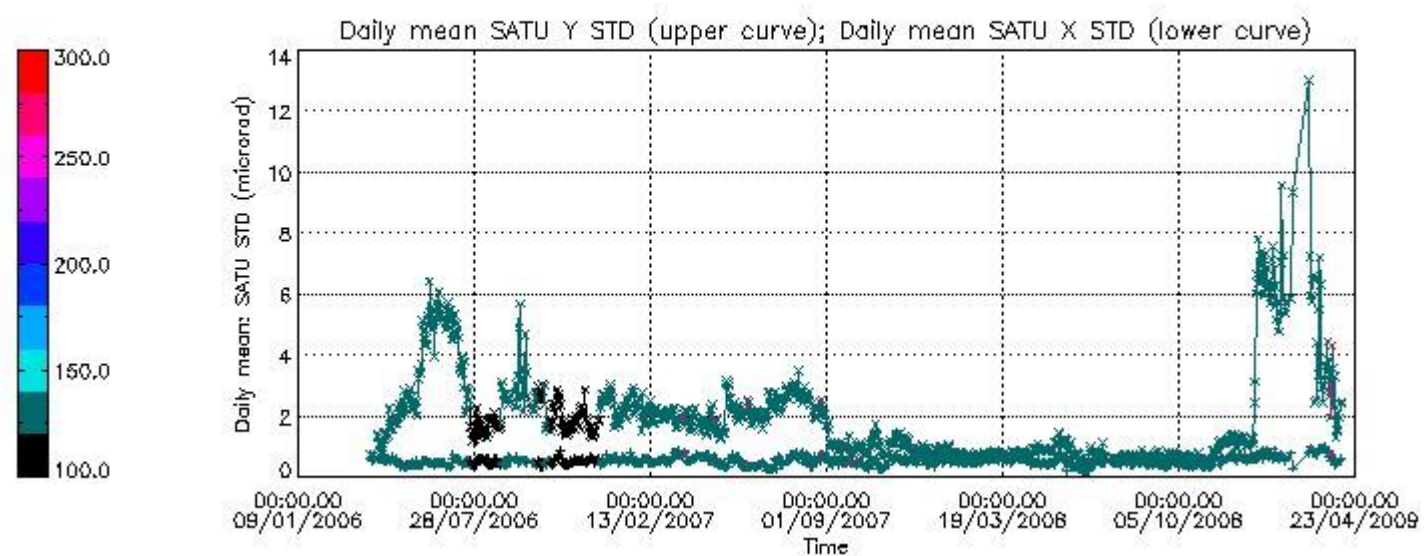
Number of data:	12550.	12550.	33450.	33450.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

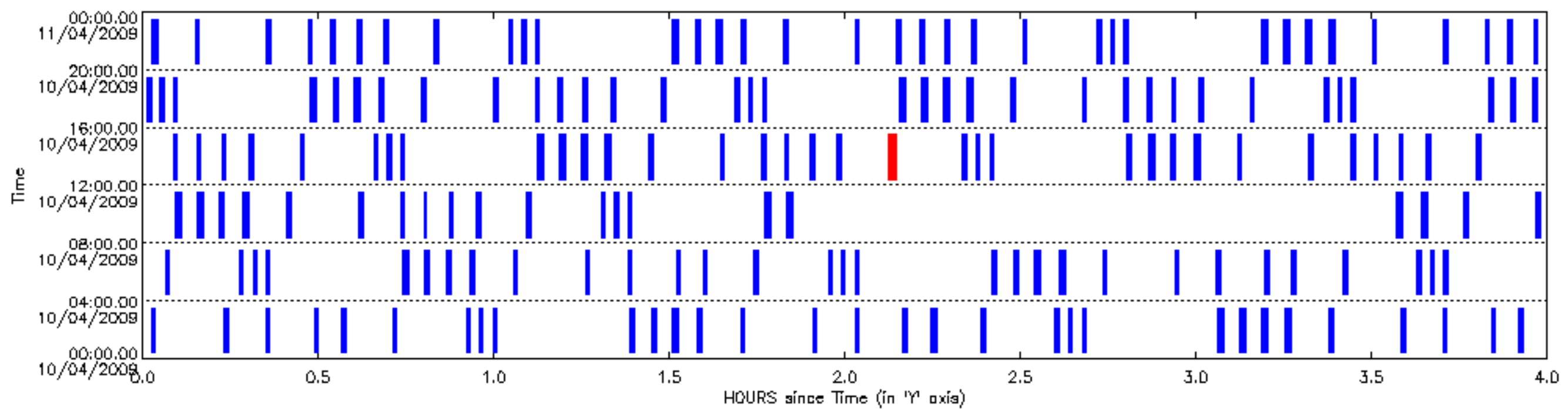
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

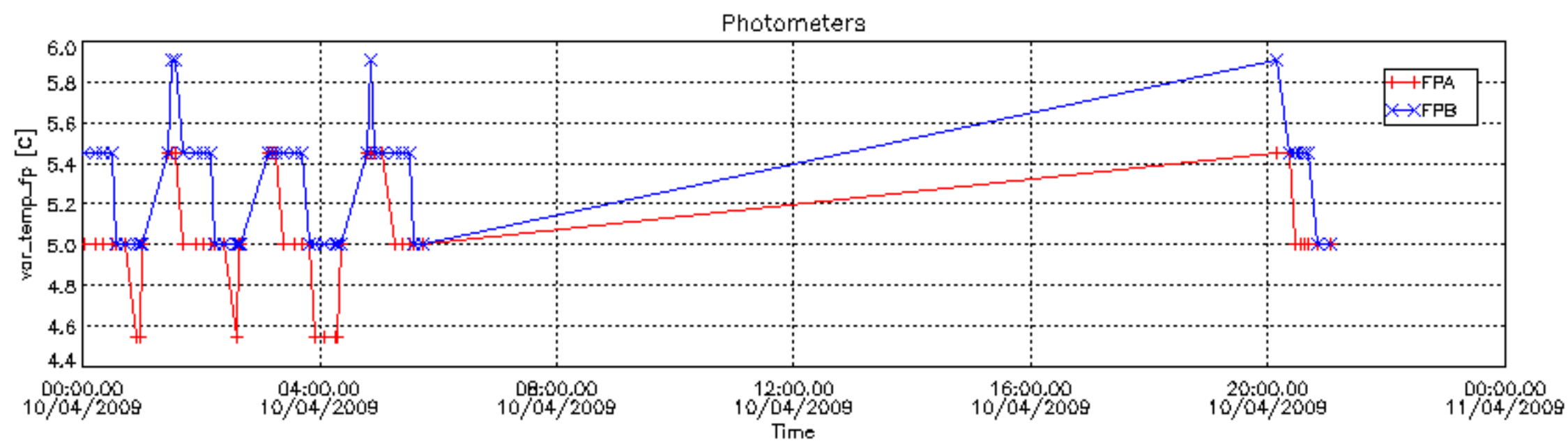
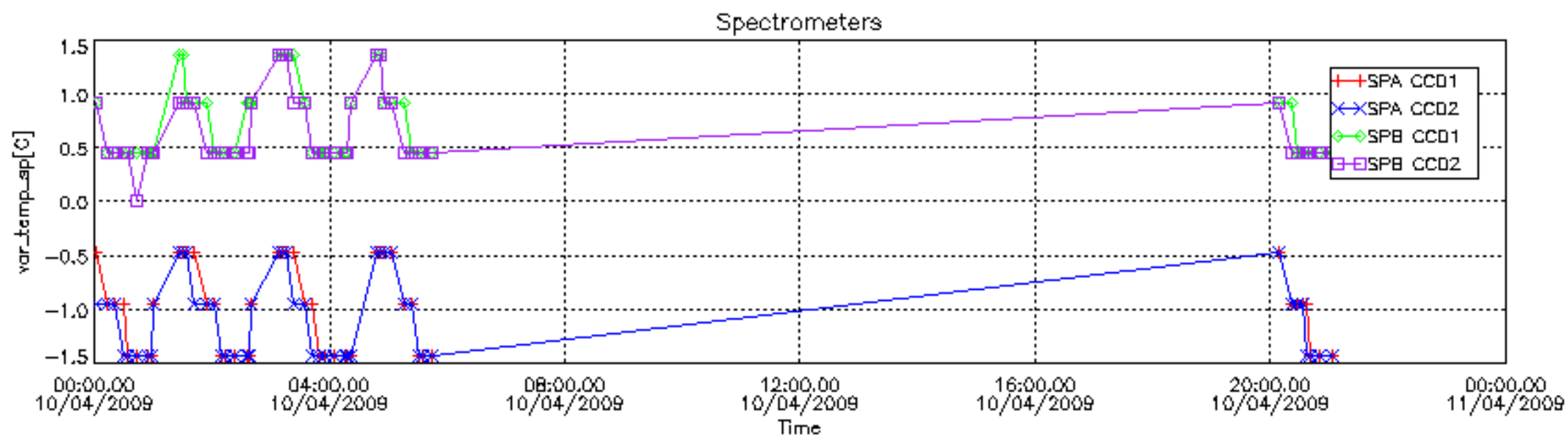


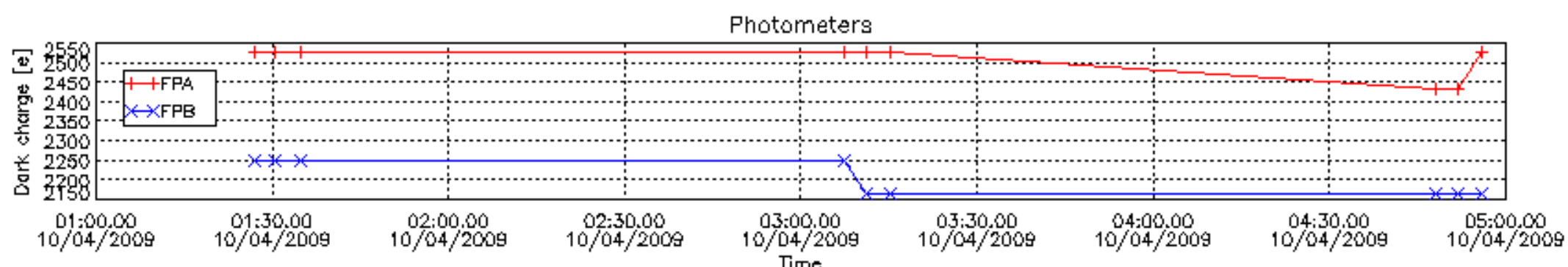
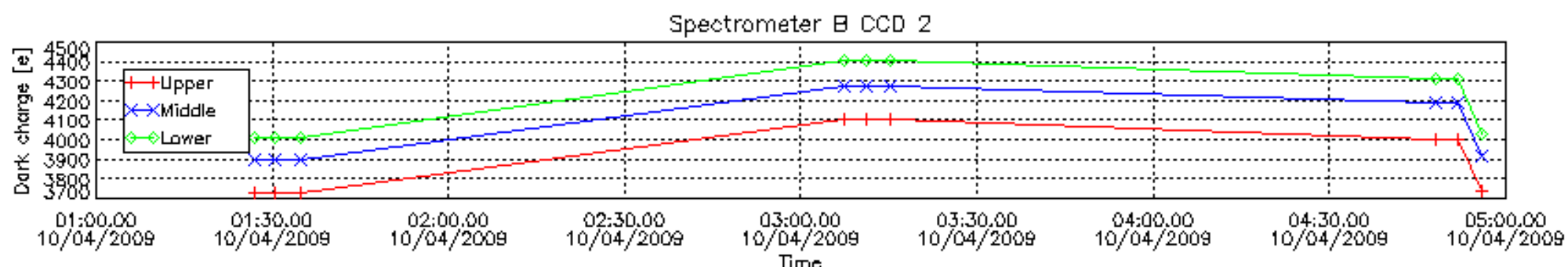
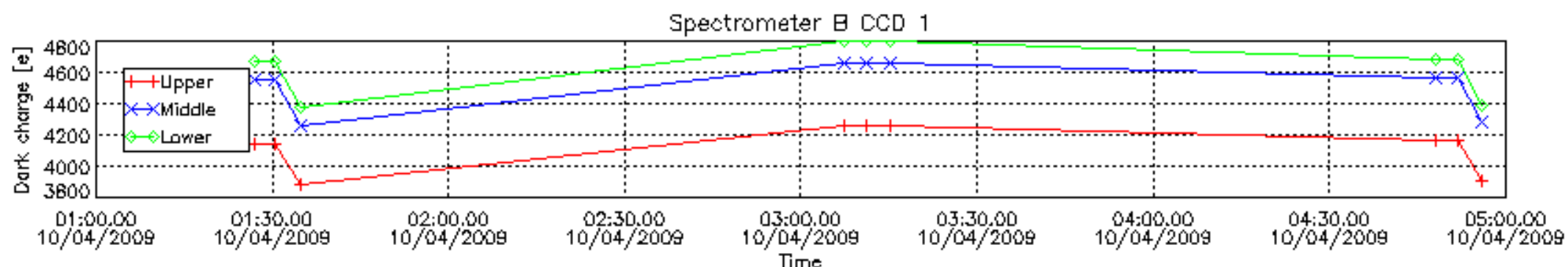
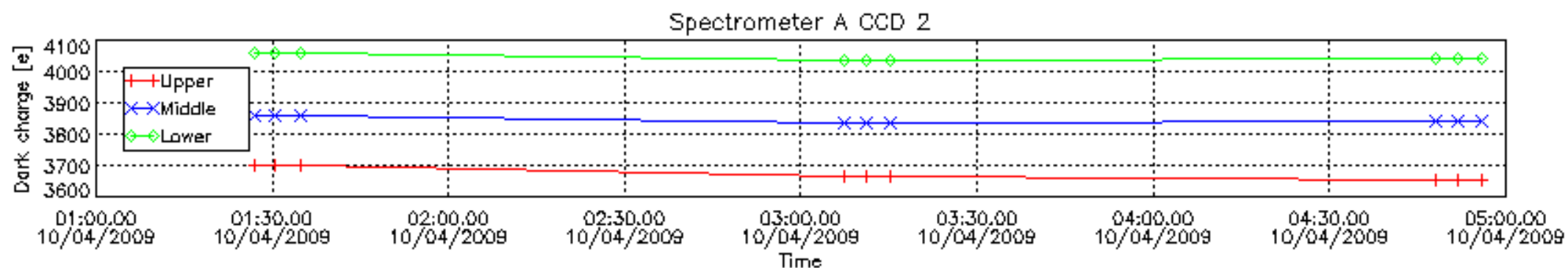
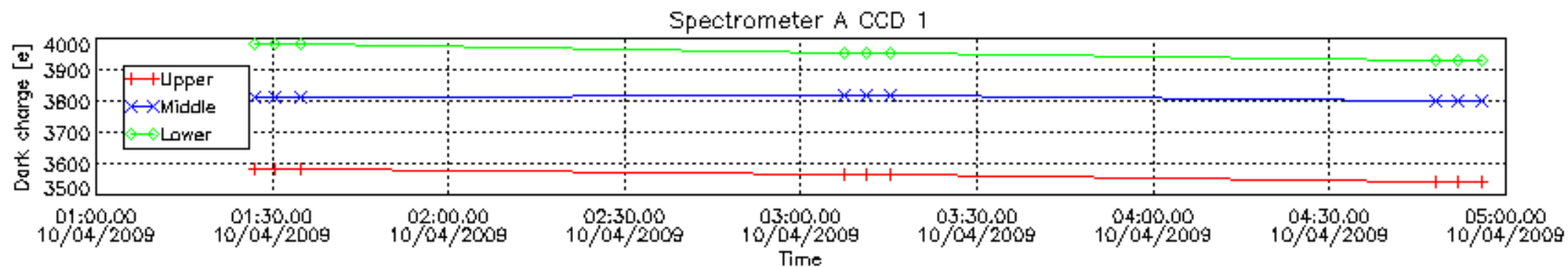
8. Auxiliary Data Files used for the production reported in section 2.4

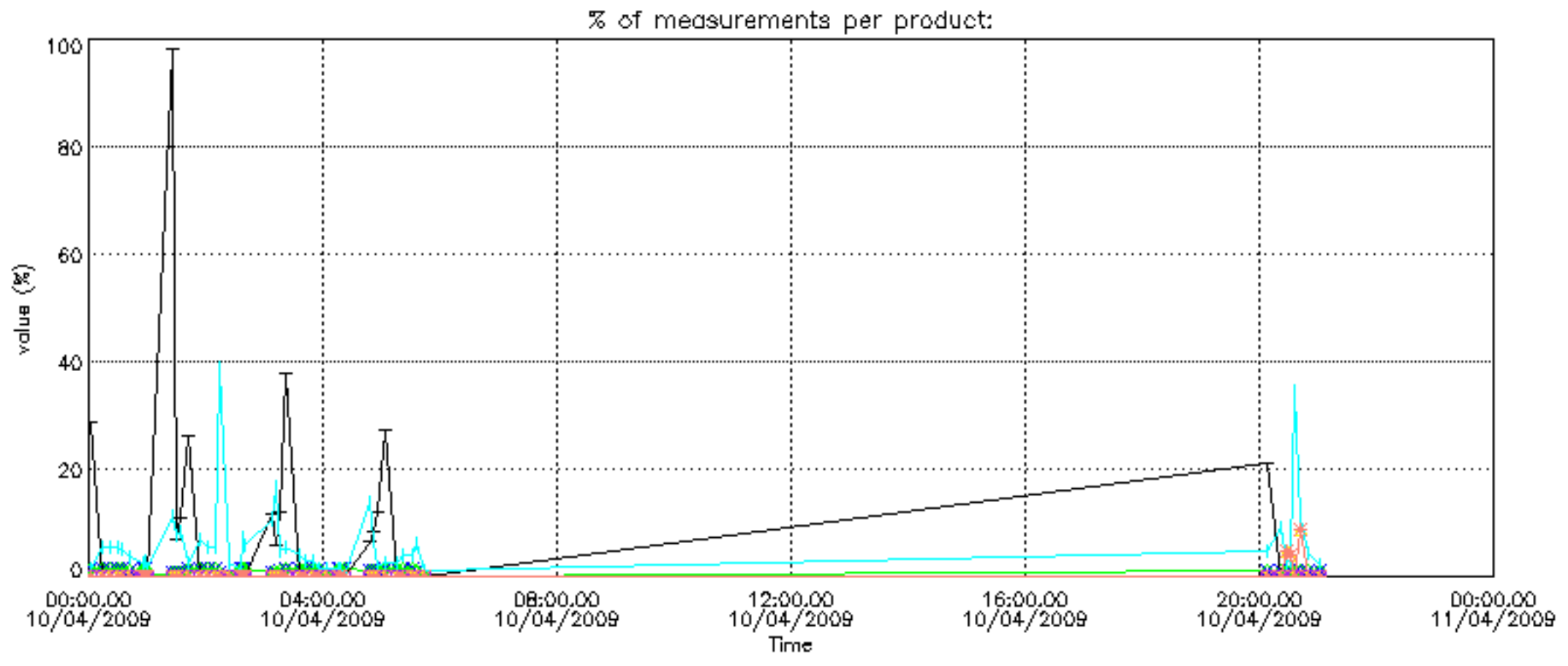
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	10-APR-2009 00:01:34
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090323_082818_20090321_000000_20100101_000000	1	10-APR-2009 00:01:34
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	10-APR-2009 00:01:34
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-APR-2009 00:01:34
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	10-APR-2009 00:01:34
ECMWF_FILE	AUX_ECF_AXNECM20090409_064114_20090409_210000_20090410_090000	1	10-APR-2009 00:01:34
ECMWF_FILE	AUX_ECF_AXNECM20090409_182118_20090410_030000_20090410_150000	31	10-APR-2009 04:16:30
ECMWF_FILE	AUX_ECF_AXNECM20090410_064111_20090410_150000_20090411_030000	43	10-APR-2009 20:08:52
OPTIONAL_ECMWF_FILE	MISSING	1	10-APR-2009 00:01:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090409_215023_000057382078_00043_37171_7718.N1	1	10-APR-2009 00:01:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090409_233120_000057382078_00044_37172_7719.N1	10	10-APR-2009 01:26:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090410_022640_000054192078_00046_37174_7721.N1	19	10-APR-2009 02:35:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090410_200400_000041442078_00057_37185_7723.N1	43	10-APR-2009 20:08:52

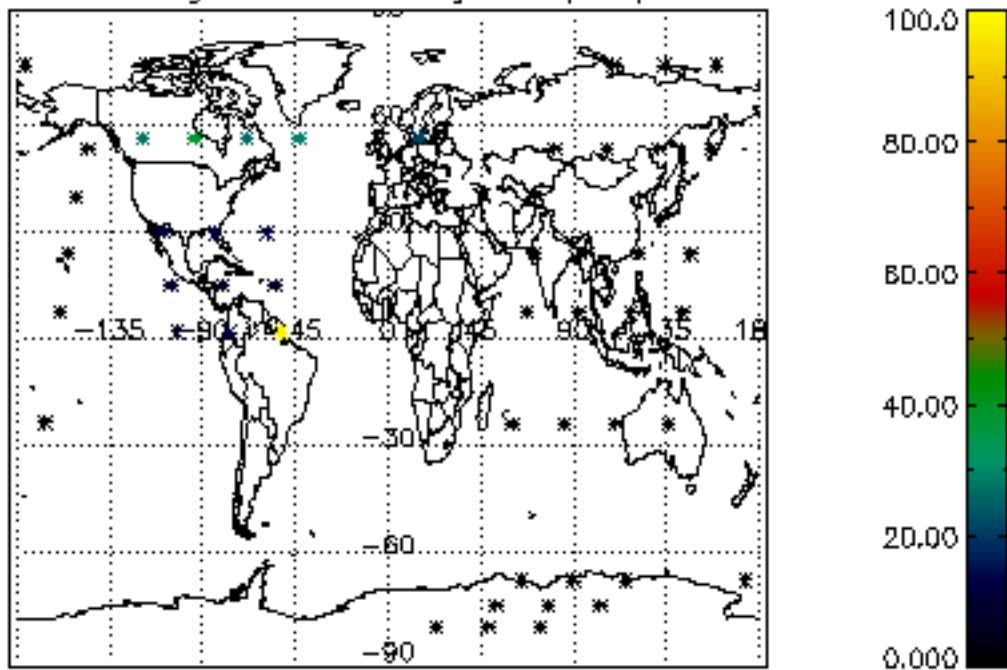




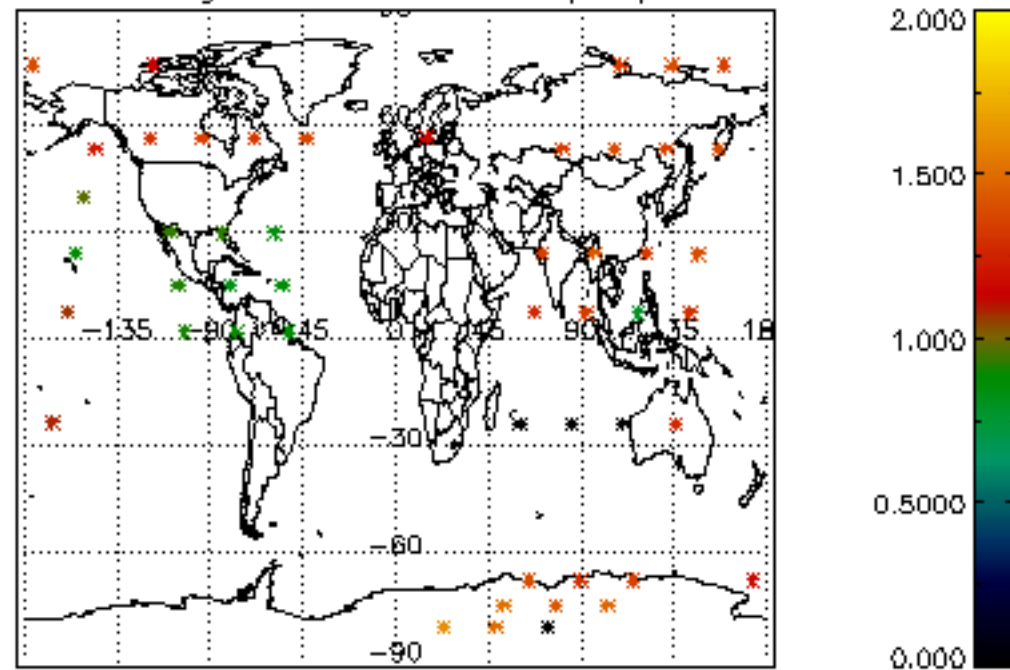




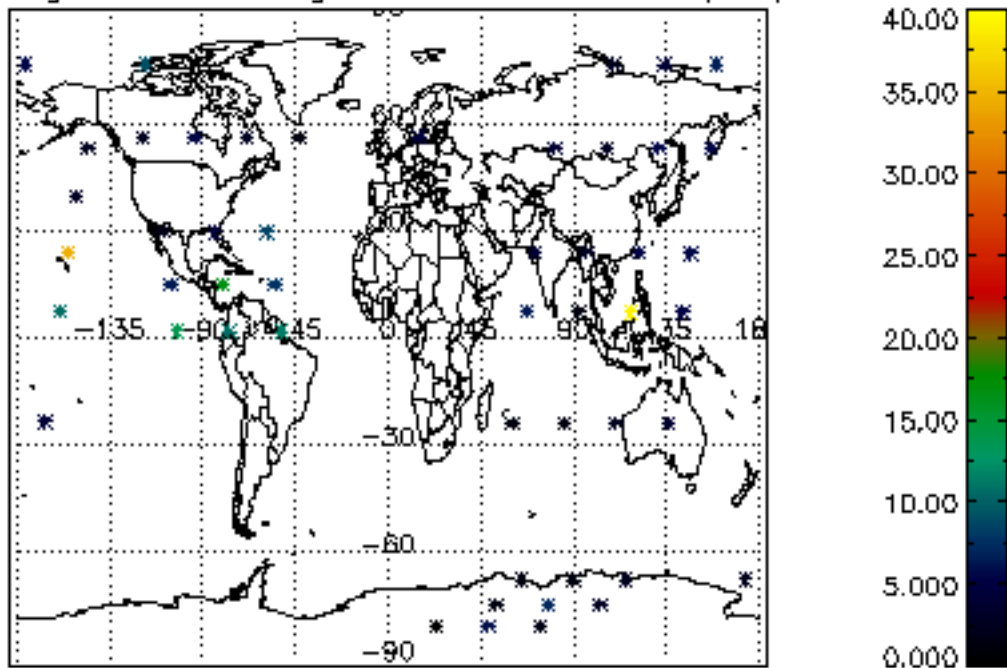
Percentage of cosmic ray hits per profile



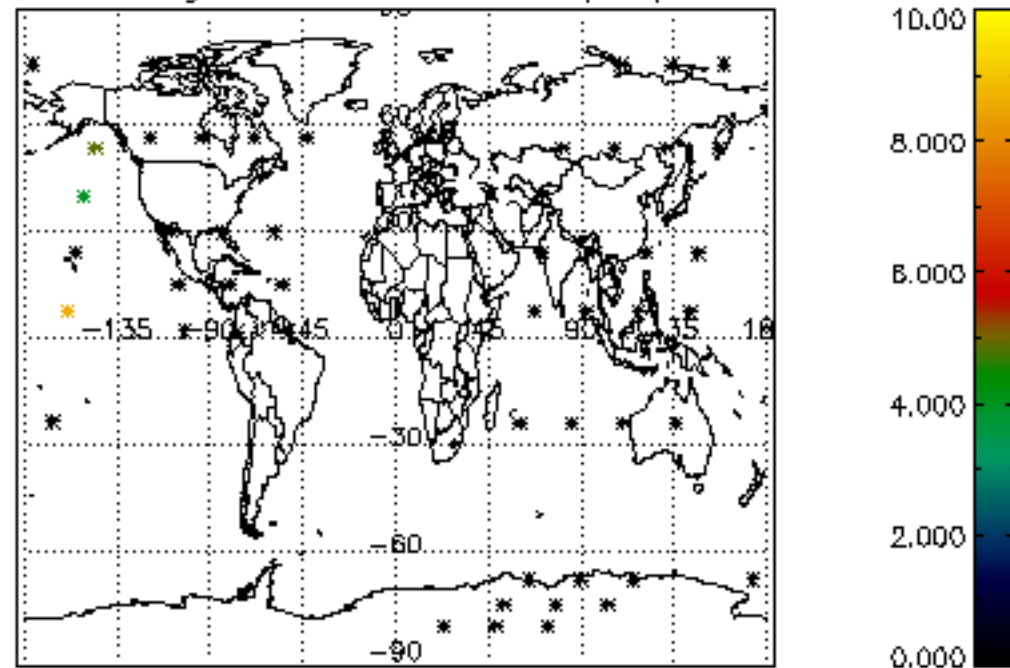
Percentage of datation errors per profile



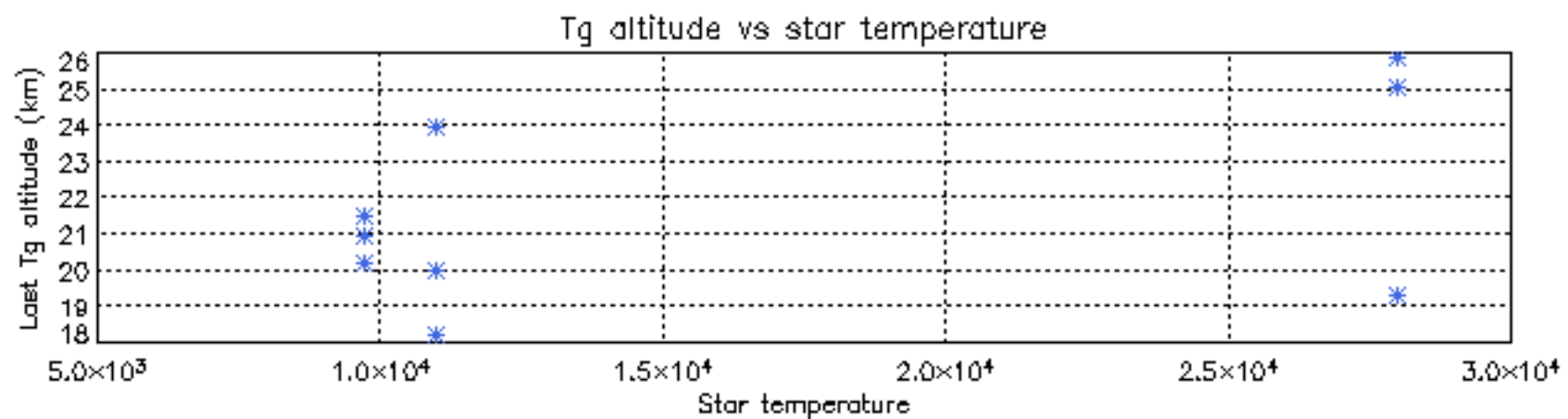
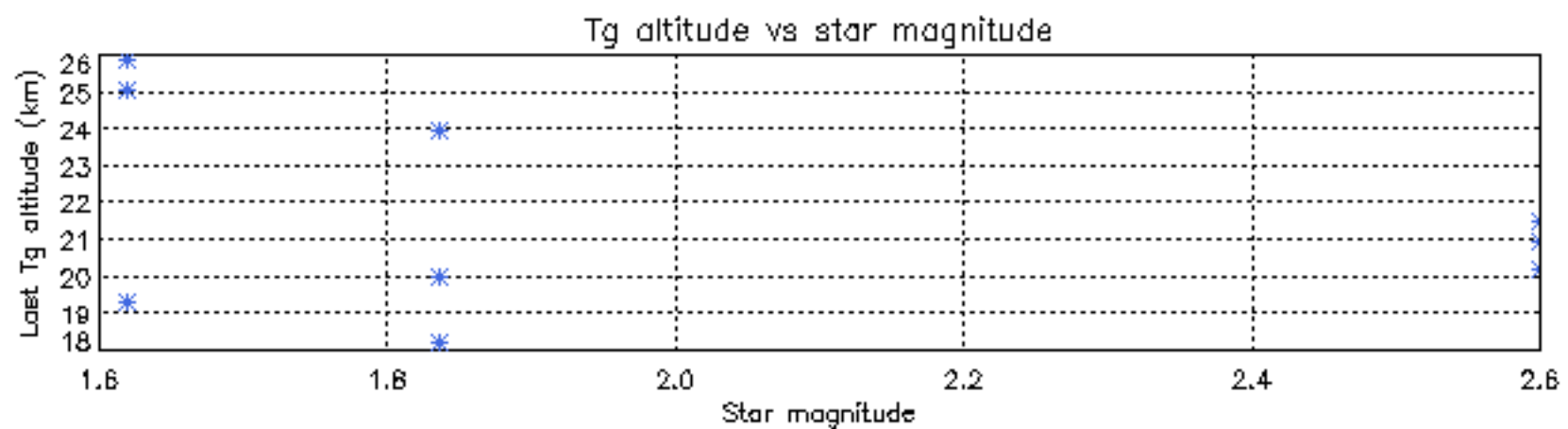
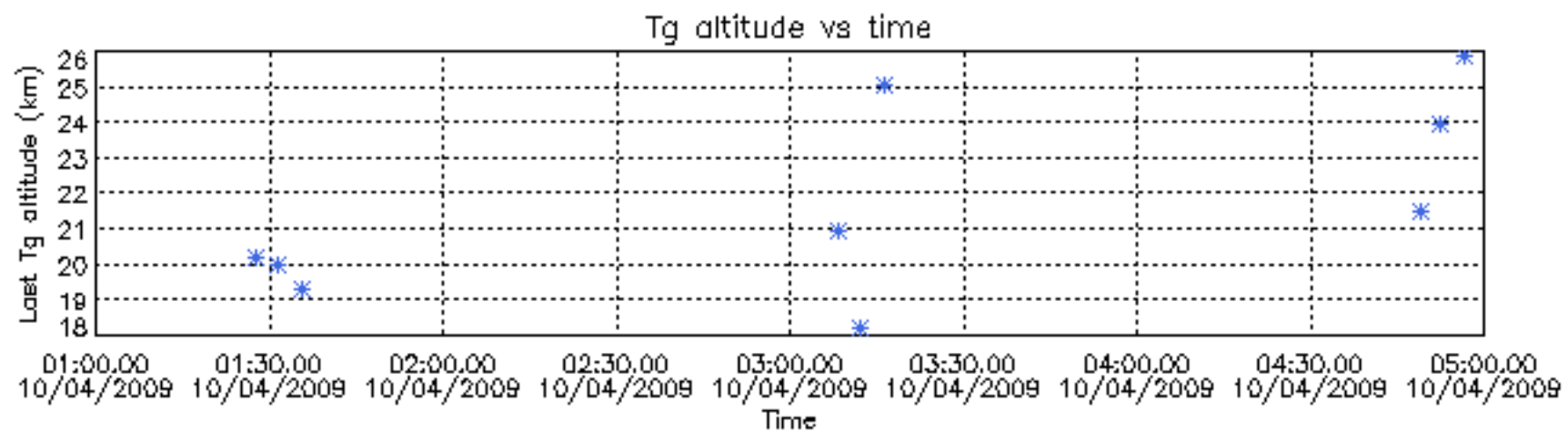
Percentage of star falling outside central band per profile



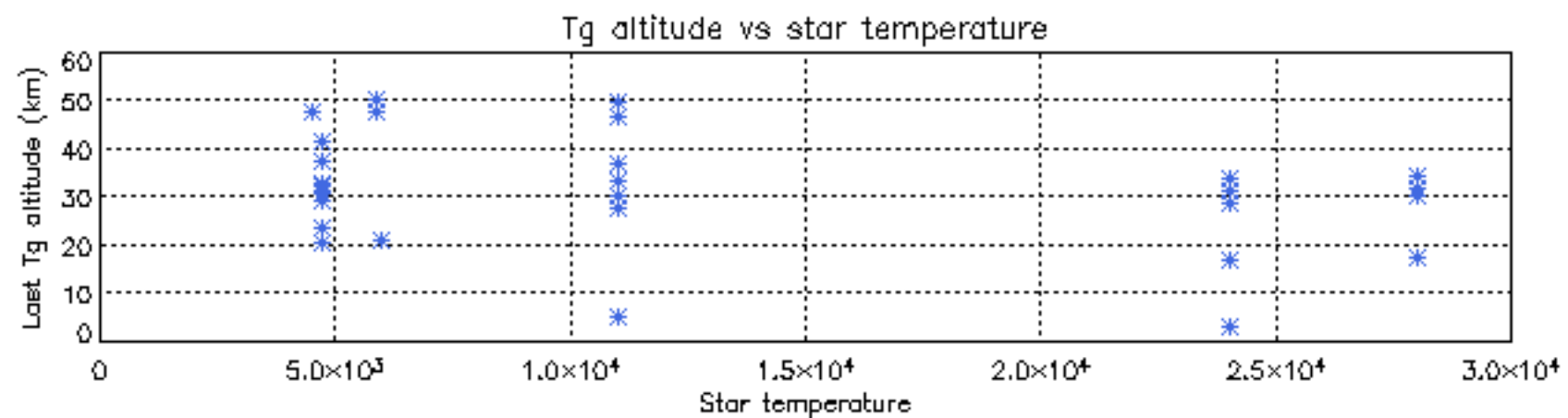
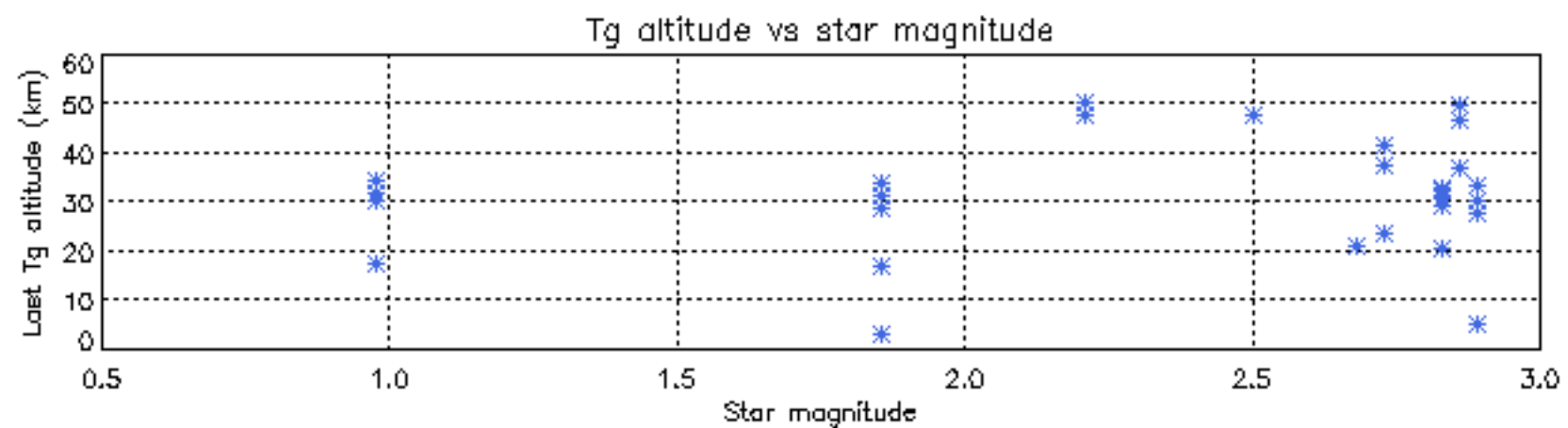
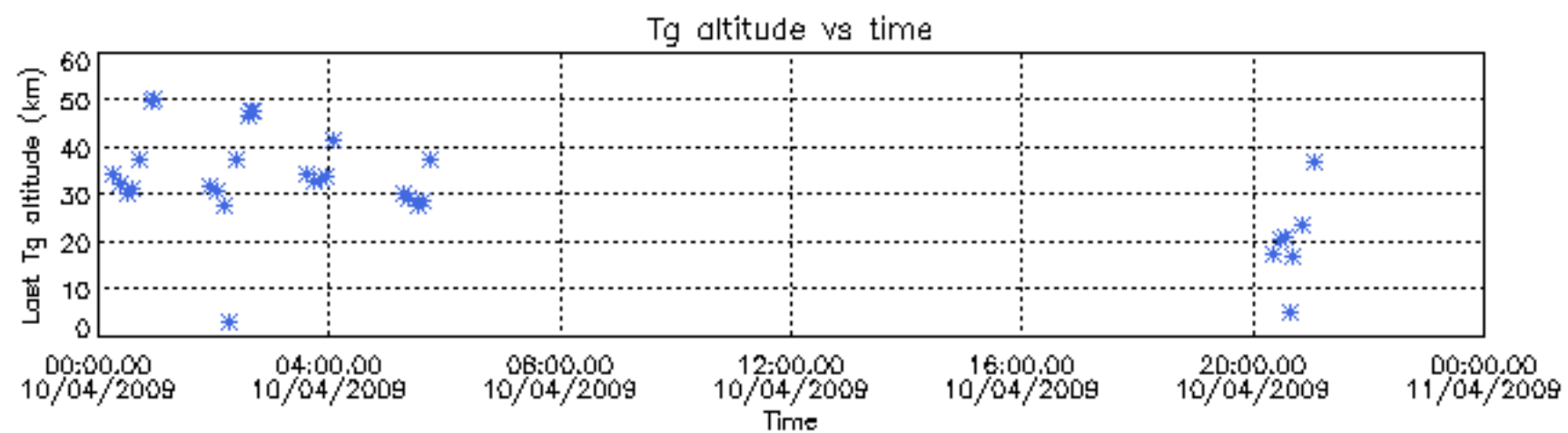
Percentage of saturation errors per profile

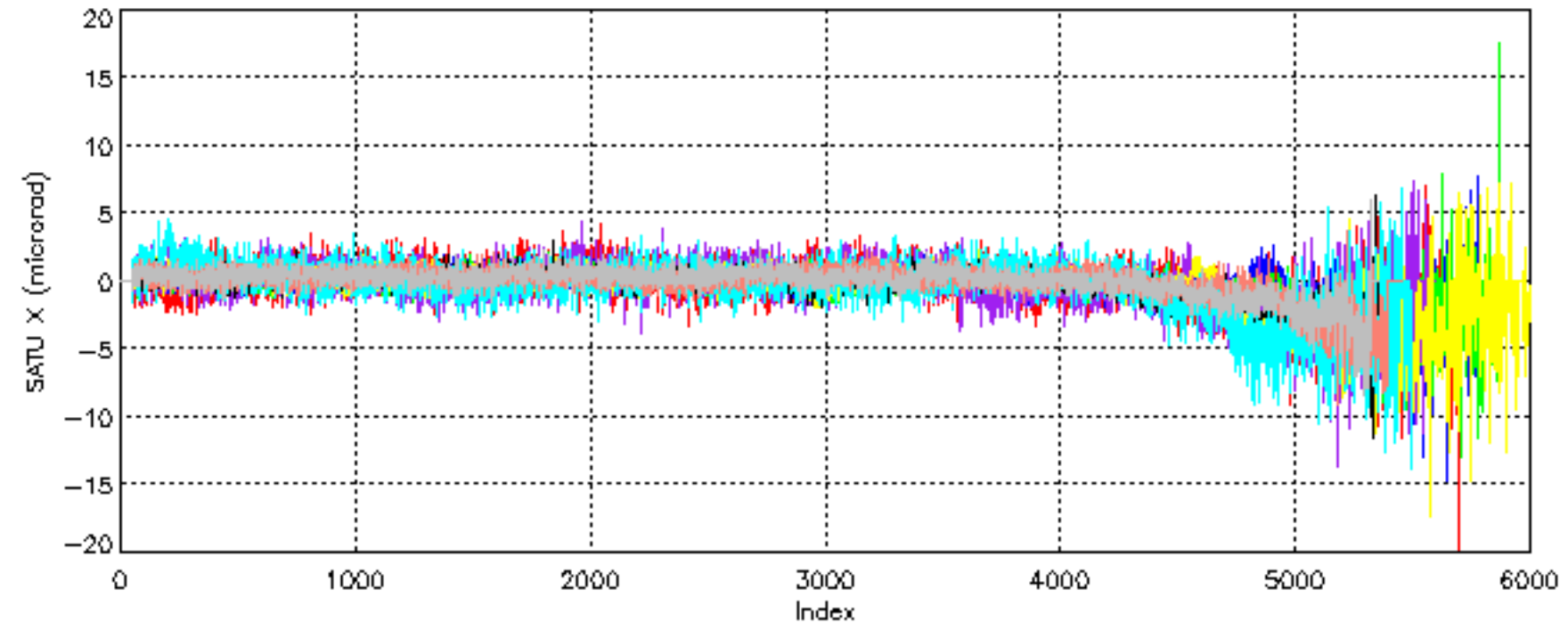


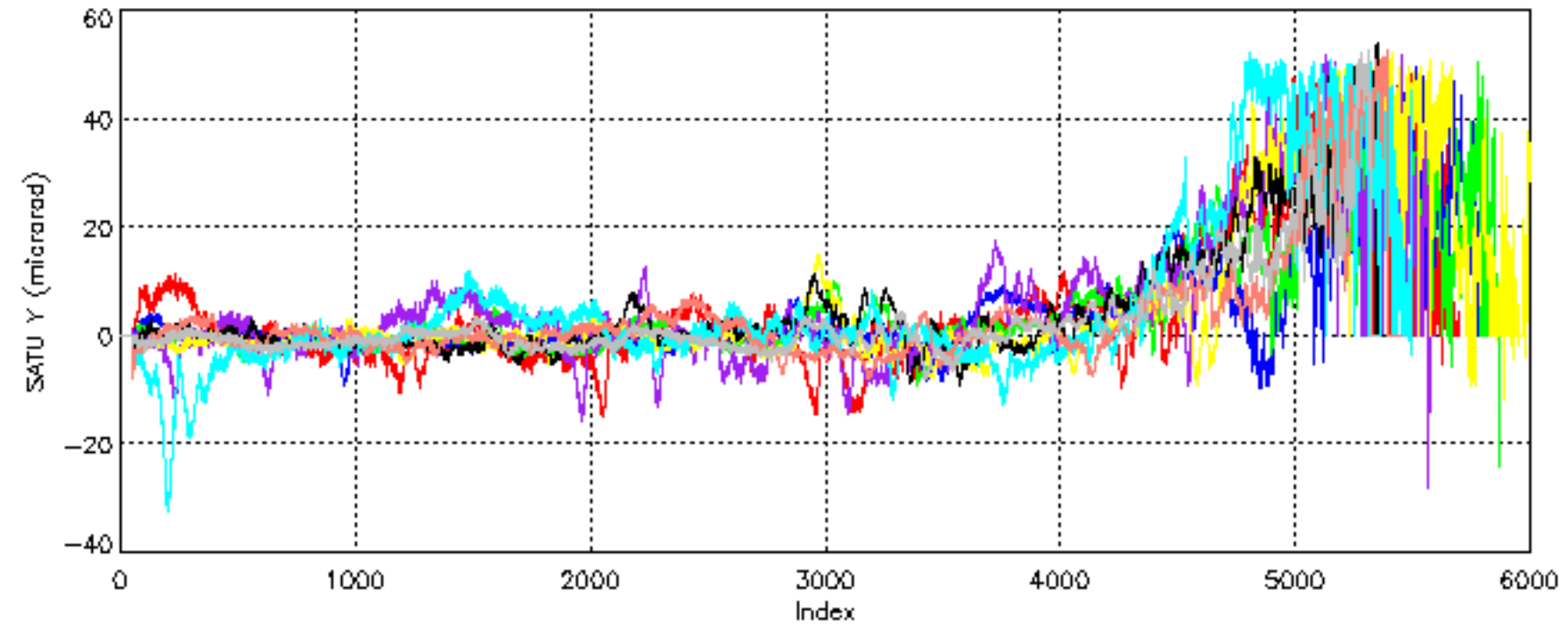
Tangent altitude at which the star is lost

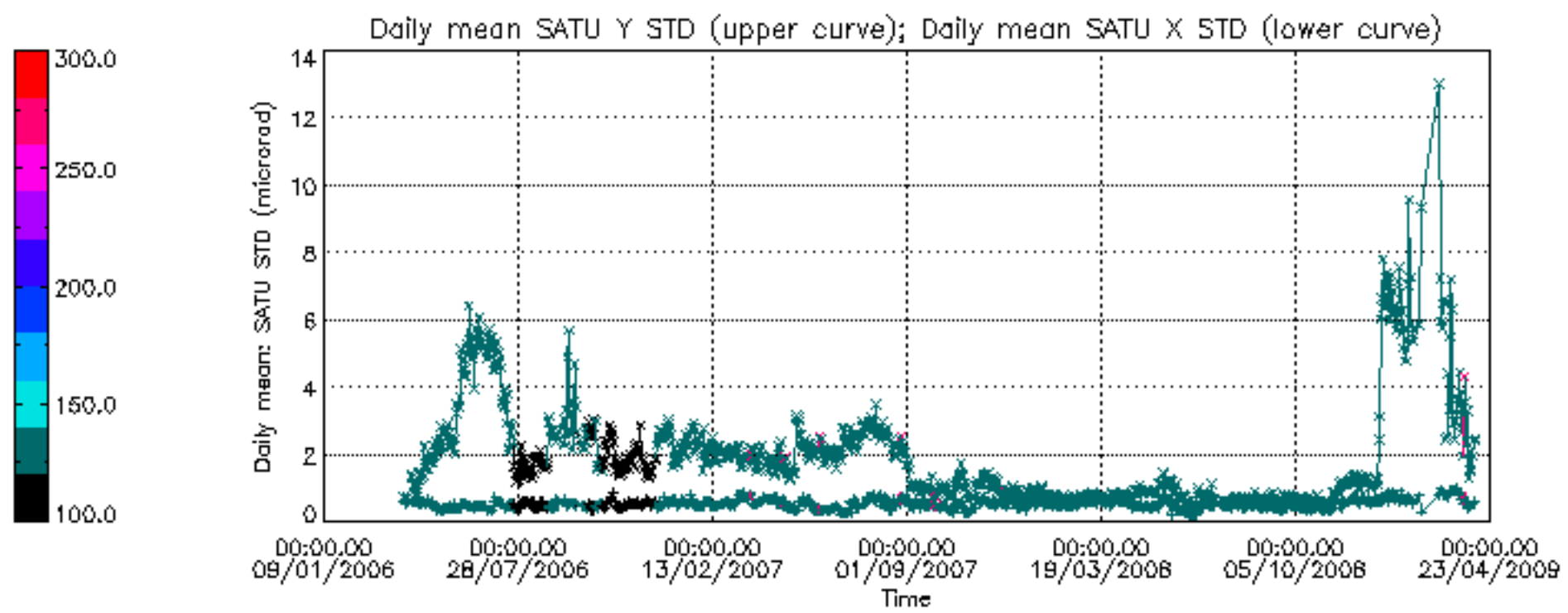


Tangent altitude at which the star is lost









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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
11; 5051.5; 01-APR-2009 20:59:54; Dark ; 23.0; 11; 53Alp Aql ; 0.76; 8000;occ; 46; 0;37056

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

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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
19; 5292.0; 02-APR-2009 00:25:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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1; 1432.5; 01-APR-2009 16:38:23; Dark ; 51.0; 169; 46Gam Hya ; 2.99; 4700;occ; 102; 0;37054
2; 2954.7; 01-APR-2009 17:03:45; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;37054
3; 4312.8; 01-APR-2009 17:26:23; Bright; 43.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 87; 0;37054
4; 4435.5; 01-APR-2009 17:28:26; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;37054

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

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1; -257.2; 02-APR-2009 00:33:13; Dark ; 60.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 121; 0;37058
2; -125.0; 02-APR-2009 00:35:25; Dark ; 56.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 112; 0;37058
3; 341.6; 02-APR-2009 00:43:12; Dark ; 57.5; 25; 35Lam Sco ; 1.62; 28000;occ; 115; 0;37059
4; 800.4; 02-APR-2009 00:50:51; Dark ; 51.5; 131; Gam Lup ; 2.80; 26000;occ; 103; 0;37059
5; 945.7; 02-APR-2009 00:53:16; Dark ; 48.0; 81; Eta Cen ; 2.36; 28000;occ; 96; 0;37059
6; 1107.7; 02-APR-2009 00:55:58; Dark ; 52.0; 54; 5The Cen ; 2.06; 4500;occ; 104; 0;37059
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8; 1688.1; 02-APR-2009 01:05:38; Dark ; 70.0; 15; 67Alp Vir ; 0.98; 28000;occ; 140; 0;37059
9; 1881.4; 02-APR-2009 01:08:52; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;37059
10; 2154.8; 02-APR-2009 01:13:25; Bright; 49.0; 138; 47Eps Vir ; 2.83; 4700;occ; 98; 0;37059
11; 2669.6; 02-APR-2009 01:22:00; Bright; 44.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 88; 0;37059
12; 2952.7; 02-APR-2009 01:26:43; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;37059
13; 3499.2; 02-APR-2009 01:35:49; Bright; 48.0; 119; 14Eta Dra ; 2.73; 4700;occ; 96; 0;37059
14; 4197.2; 02-APR-2009 01:47:27; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;37059
15; 4312.9; 02-APR-2009 01:49:23; Bright; 49.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 98; 0;37059
16; 4436.0; 02-APR-2009 01:51:26; Bright; 61.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 122; 0;37059
17; 5054.0; 02-APR-2009 02:01:44; Dark ; 65.5; 11; 53Alp Aql ; 0.76; 8000;occ; 131; 0;37059
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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
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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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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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5; -741.9; 02-APR-2009 03:46:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37060
6; -253.8; 02-APR-2009 03:54:28; Dark ; 48.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 96; 0;37060
7; -122.3; 02-APR-2009 03:56:40; Dark ; 55.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 110; 0;37060
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
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4; 2475.3; 28-APR-2009 12:45:44; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;37438
5; 2653.2; 28-APR-2009 12:48:42; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;37438
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 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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 16; 4506.4; 29-APR-2009 22:51:34; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;37458
 17; 5020.8; 29-APR-2009 23:00:08; Dark ; 66.0; 61; 8Eps Peg ; 2.10; 3900;occ; 132; 0;37458
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16; 7299.3; 30-APR-2009 14:43:30; Dark ; 34.0; 16; 21Alp Sco ; 1.02; 3000;occ; 68; 0;37467
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