

GOMOS Daily Report 09-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 12:10:52
Data source version	GOMOS/5.00
Start time of products	09APR2009 00:17:31
Stop time of products	09APR2009 21:21:32
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)

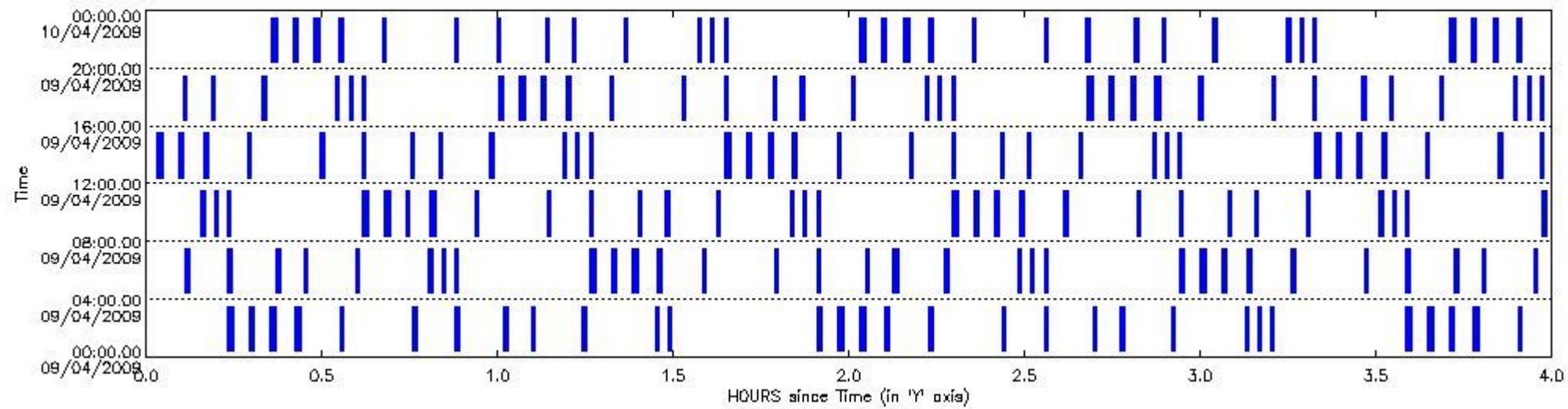
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

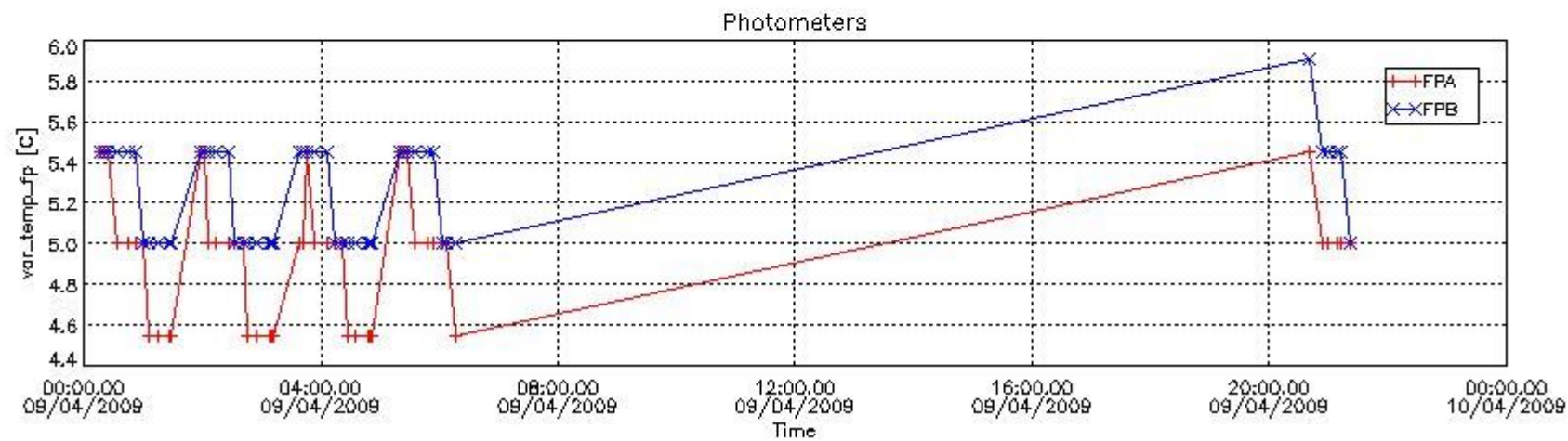
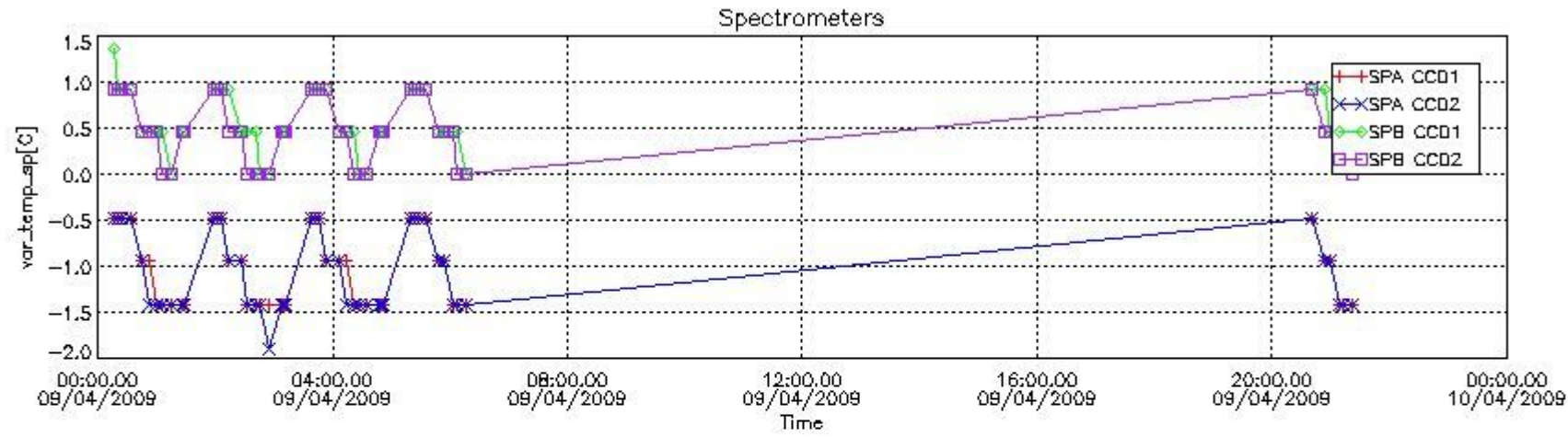
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090409_001731_000000572078_00031_37159_6804.N1	09-APR-2009 00:17:31	Dark	56.500	103	38Zet Sgr	2.6000	9700.0	113	37159	No
2	GOM_TRA_1PNPDE20090409_002110_000000582078_00031_37159_6805.N1	09-APR-2009 00:21:10	Dark	58.000	38	20Eps Sgr	1.8360	11000.	116	37159	No
3	GOM_TRA_1PNPDE20090409_002521_000000582078_00031_37159_6806.N1	09-APR-2009 00:25:21	Dark	58.000	25	35Lam Sco	1.6200	28000.	116	37159	No
4	GOM_TRA_1PNPDE20090409_003302_000000392078_00031_37159_6807.N1	09-APR-2009 00:33:02	Straylight	39.000	109	Bet Lup	2.6770	26000.	78	37159	No
5	GOM_TRA_1PNPDE20090409_004531_000000382078_00031_37159_6808.N1	09-APR-2009 00:45:31	Bright	38.000	15	67Alp Vir	0.97600	28000.	76	37159	No
6	GOM_TRA_1PNPDE20090409_005244_000000392078_00031_37159_6809.N1	09-APR-2009 00:52:44	Bright	38.500	138	47Eps Vir	2.8280	4700.0	77	37159	No
7	GOM_TRA_1PNPDE20090409_010104_000000372078_00031_37159_6810.N1	09-APR-2009 01:01:04	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	37159	No
8	GOM_TRA_1PNPDE20090409_010544_000000422078_00031_37159_6811.N1	09-APR-2009 01:05:44	Bright	41.500	39	85Eta UMa	1.8540	24000.	83	37159	No
9	GOM_TRA_1PNPDE20090409_011429_000000402078_00031_37159_6812.N1	09-APR-2009 01:14:29	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	37159	No
10	GOM_TRA_1PNPDE20090409_012659_000000372078_00031_37159_6813.N1	09-APR-2009 01:26:59	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	37159	No
11	GOM_TRA_1PNPDE20090409_012912_000000332078_00031_37159_6814.N1	09-APR-2009 01:29:12	Twilight_stray	33.000	66	37Gam Cyg	2.2080	5900.0	66	37159	No
12	GOM_TRA_1PNPDE20090409_015808_000000572078_00032_37160_6960.N1	09-APR-2009 01:58:08	Dark	56.500	103	38Zet Sgr	2.6000	9700.0	113	37160	No

13	GOM_TRA_1PNPDE20090409_020147_000000582078_00032_37160_6961.N1	09-APR-2009 02:01:47	Dark	57.500	38	20Eps Sgr	1.8360	11000.	115	37160	No
14	GOM_TRA_1PNPDE20090409_020558_000000582078_00032_37160_6962.N1	09-APR-2009 02:05:58	Dark	58.000	25	35Lam Sco	1.6200	28000.	116	37160	No
15	GOM_TRA_1PNPDE20090409_021338_000000392078_00032_37160_6963.N1	09-APR-2009 02:13:38	Straylight	39.000	109	Bet Lup	2.6770	26000.	78	37160	No
16	GOM_TRA_1PNPDE20090409_022607_000000382078_00032_37160_6964.N1	09-APR-2009 02:26:07	Bright	38.000	15	67Alp Vir	0.97600	28000.	76	37160	No
17	GOM_TRA_1PNPDE20090409_023319_000000392078_00032_37160_6965.N1	09-APR-2009 02:33:19	Bright	38.500	138	47Eps Vir	2.8280	4700.0	77	37160	No
18	GOM_TRA_1PNPDE20090409_024139_000000402078_00032_37160_6966.N1	09-APR-2009 02:41:39	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	37160	No
19	GOM_TRA_1PNPDE20090409_024619_000000412078_00032_37160_6967.N1	09-APR-2009 02:46:19	Bright	41.000	39	85Eta UMa	1.8540	24000.	82	37160	No
20	GOM_TRA_1PNPDE20090409_025505_000000412078_00032_37160_6968.N1	09-APR-2009 02:55:05	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	37160	No
21	GOM_TRA_1PNPDE20090409_030735_000000392078_00032_37160_7109.N1	09-APR-2009 03:07:35	Bright	38.500	144	18Del Cyg	2.8600	11000.	77	37160	No
22	GOM_TRA_1PNPDE20090409_030948_000000352078_00032_37160_7110.N1	09-APR-2009 03:09:48	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	37160	No
23	GOM_TRA_1PNPDE20090409_031205_000000332078_00032_37160_7111.N1	09-APR-2009 03:12:05	Bright	33.000	92	53Eps Cyg	2.5000	4500.0	66	37160	No
24	GOM_TRA_1PNPDE20090409_033846_000000562078_00033_37161_7112.N1	09-APR-2009 03:38:46	Dark	56.000	103	38Zet Sgr	2.6000	9700.0	112	37161	No
25	GOM_TRA_1PNPDE20090409_034225_000000532078_00033_37161_7113.N1	09-APR-2009 03:42:25	Dark	53.000	38	20Eps Sgr	1.8360	11000.	106	37161	No
26	GOM_TRA_1PNPDE20090409_034636_000000532078_00033_37161_7114.N1	09-APR-2009 03:46:36	Dark	53.000	25	35Lam Sco	1.6200	28000.	106	37161	No
27	GOM_TRA_1PNPDE20090409_035415_000000392078_00033_37161_7115.N1	09-APR-2009 03:54:15	Straylight	39.000	109	Bet Lup	2.6770	26000.	78	37161	No
28	GOM_TRA_1PNPDE20090409_040643_000000382078_00033_37161_7116.N1	09-APR-2009 04:06:43	Bright	37.500	15	67Alp Vir	0.97600	28000.	75	37161	No
29	GOM_TRA_1PNPDE20090409_041355_000000392078_00033_37161_7117.N1	09-APR-2009 04:13:55	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	37161	No
30	GOM_TRA_1PNPDE20090409_042215_000000382078_00033_37161_7118.N1	09-APR-2009 04:22:15	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	37161	No
31	GOM_TRA_1PNPDE20090409_042655_000000402078_00033_37161_7119.N1	09-APR-2009 04:26:55	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	37161	No
32	GOM_TRA_1PNPDE20090409_043540_000000412078_00033_37161_7120.N1	09-APR-2009 04:35:40	Bright	40.500	119	14Eta Dra	2.7270	4700.0	81	37161	No
33	GOM_TRA_1PNPDE20090409_044811_000000392078_00033_37161_7344.N1	09-APR-2009 04:48:11	Bright	38.500	144	18Del Cyg	2.8600	11000.	77	37161	No
34	GOM_TRA_1PNPDE20090409_045024_000000352078_00033_37161_7345.N1	09-APR-2009 04:50:24	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	37161	No
35	GOM_TRA_1PNPDE20090409_045241_000000342078_00033_37161_7346.N1	09-APR-2009 04:52:41	Bright	33.500	92	53Eps Cyg	2.5000	4500.0	67	37161	No
36	GOM_TRA_1PNPDE20090409_051923_000000522078_00034_37162_7347.N1	09-APR-2009 05:19:23	Dark	52.000	103	38Zet Sgr	2.6000	9700.0	104	37162	No
37	GOM_TRA_1PNPDE20090409_052302_000000532078_00034_37162_7348.N1	09-APR-2009 05:23:02	Dark	53.000	38	20Eps Sgr	1.8360	11000.	106	37162	No
38	GOM_TRA_1PNPDE20090409_052713_000000542078_00034_37162_7349.N1	09-APR-2009 05:27:13	Dark	53.500	25	35Lam Sco	1.6200	28000.	107	37162	No
39	GOM_TRA_1PNPDE20090409_053452_000000392078_00034_37162_7350.N1	09-APR-2009 05:34:52	Straylight	39.000	109	Bet Lup	2.6770	26000.	78	37162	No
40	GOM_TRA_1PNPDE20090409_054719_000000382078_00034_37162_7351.N1	09-APR-2009 05:47:19	Bright	37.500	15	67Alp Vir	0.97600	28000.	75	37162	No
41	GOM_TRA_1PNPDE20090409_055430_000000382078_00034_37162_7352.N1	09-APR-2009 05:54:30	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	37162	No
42	GOM_TRA_1PNPDE20090409_060250_000000372078_00034_37162_7353.N1	09-APR-2009 06:02:50	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	37162	No
43	GOM_TRA_1PNPDE20090409_060730_000000532078_00034_37162_7354.N1	09-APR-2009 06:07:30	Bright	53.000	39	85Eta UMa	1.8540	24000.	106	37162	No
44	GOM_TRA_1PNPDE20090409_061615_000000402078_00034_37162_7355.N1	09-APR-2009 06:16:15	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	37162	No
45	GOM_TRA_1PNPDE20090409_204021_000000362078_00043_37171_7804.N1	09-APR-2009 20:40:21	Straylight	36.000	109	Bet Lup	2.6770	26000.	72	37171	No
46	GOM_TRA_1PNPDE20090409_205243_000000362078_00043_37171_7805.N1	09-APR-2009 20:52:43	Bright	36.000	15	67Alp Vir	0.97600	28000.	72	37171	No
47	GOM_TRA_1PNPDE20090409_205952_000000362078_00043_37171_7806.N1	09-APR-2009 20:59:52	Bright	35.500	138	47Eps Vir	2.8280	4700.0	71	37171	No
48	GOM_TRA_1PNPDE20090409_210810_000000352078_00043_37171_7807.N1	09-APR-2009 21:08:10	Bright	34.500	152	12Alp2CVn	2.8900	11000.	69	37171	No
49	GOM_TRA_1PNPDE20090409_211248_000000372078_00043_37171_7808.N1	09-APR-2009 21:12:48	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	37171	No
50	GOM_TRA_1PNPDE20090409_212132_000000382078_00043_37171_7809.N1	09-APR-2009 21:21:32	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	37171	No

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



4. Overview of dark signal processing per product

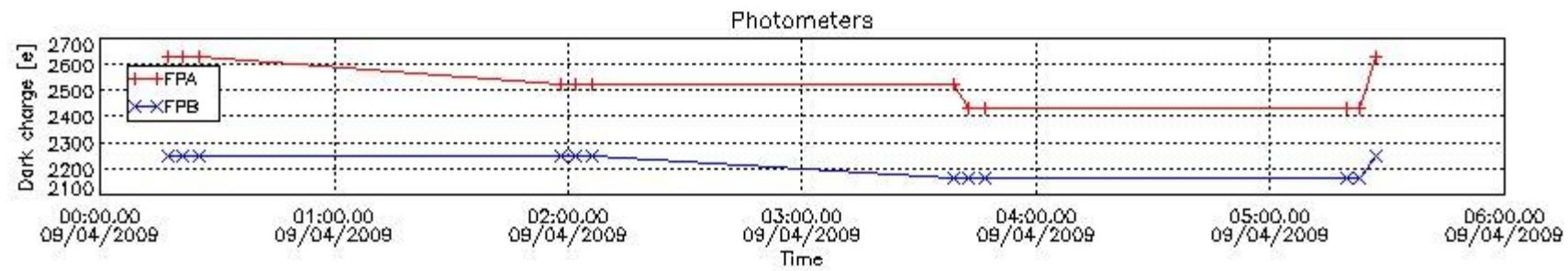
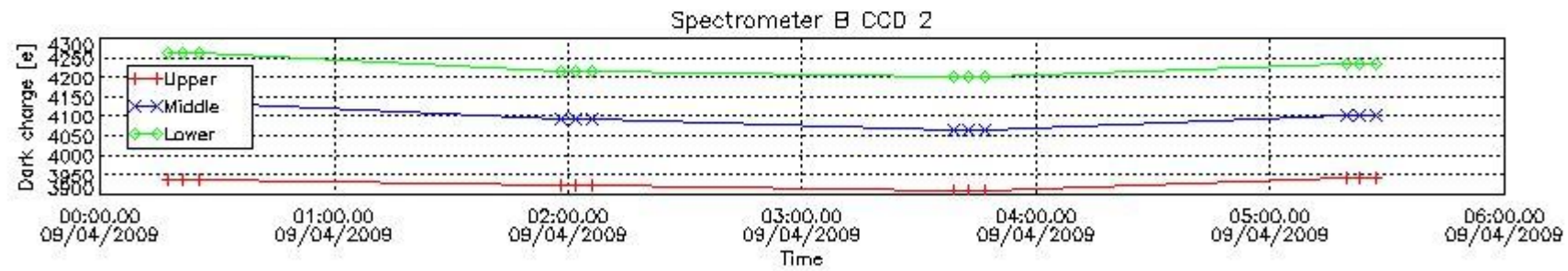
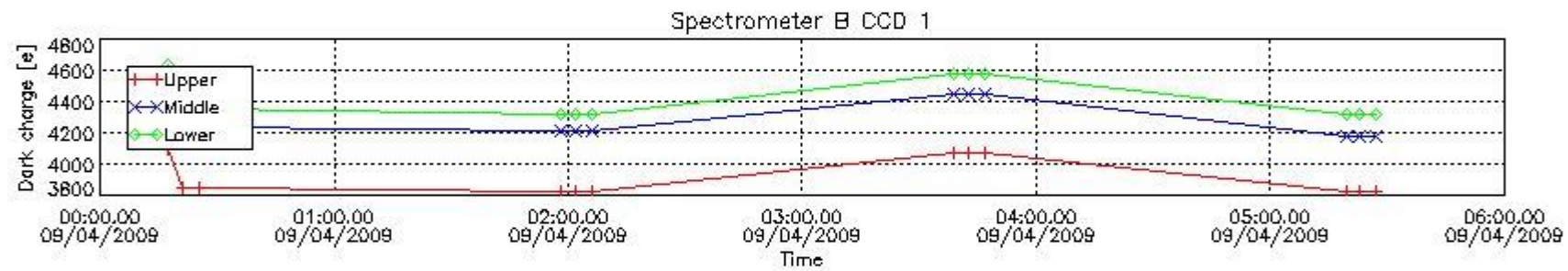
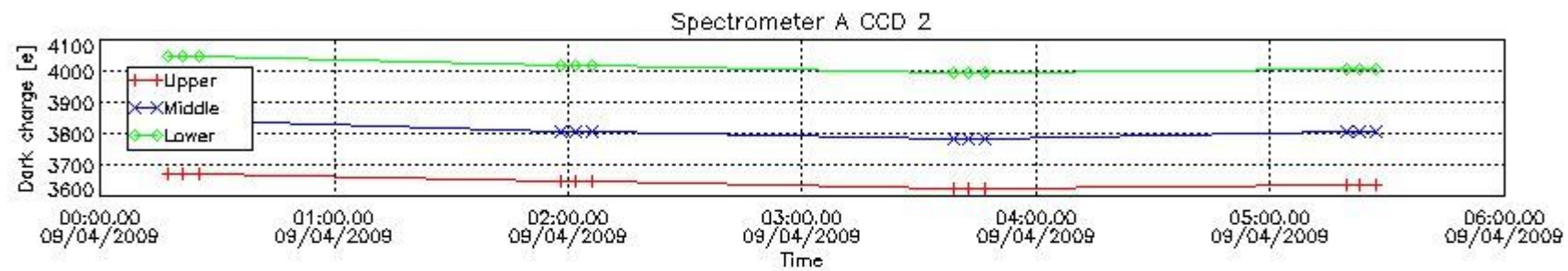
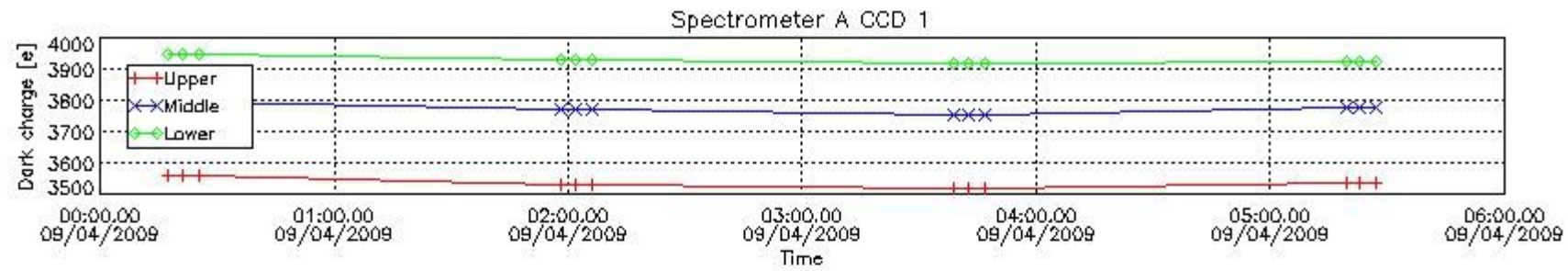
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090409_204021_000000362078_00043_37171_7804.N1	DC map used
GOM_TRA_1PNPDE20090409_205243_000000362078_00043_37171_7805.N1	DC map used
GOM_TRA_1PNPDE20090409_205952_000000362078_00043_37171_7806.N1	DC map used
GOM_TRA_1PNPDE20090409_210810_000000352078_00043_37171_7807.N1	DC map used
GOM_TRA_1PNPDE20090409_211248_000000372078_00043_37171_7808.N1	DC map used
GOM_TRA_1PNPDE20090409_212132_000000382078_00043_37171_7809.N1	DC map used

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



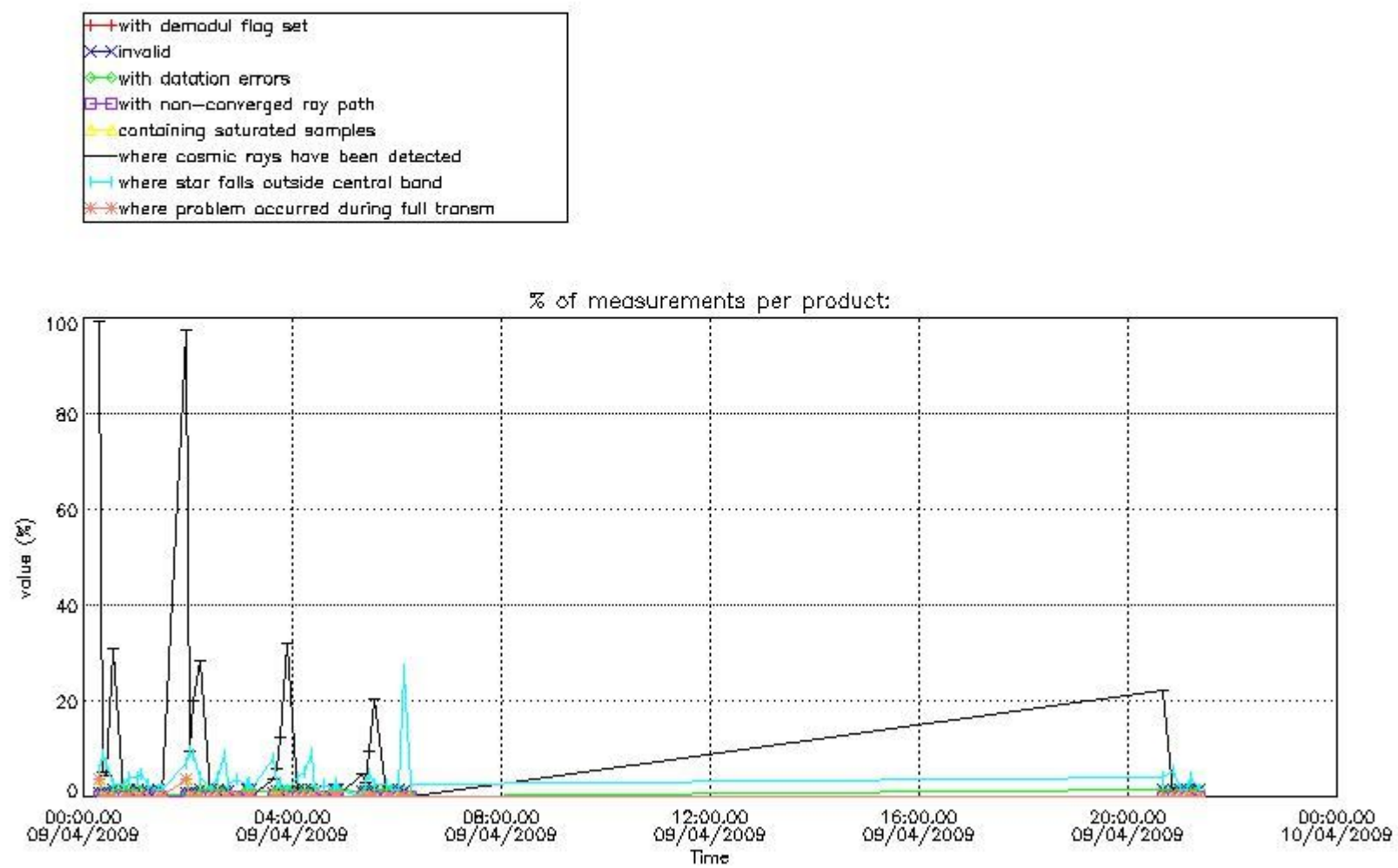
5. Demodulation flag and quality information monitoring

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

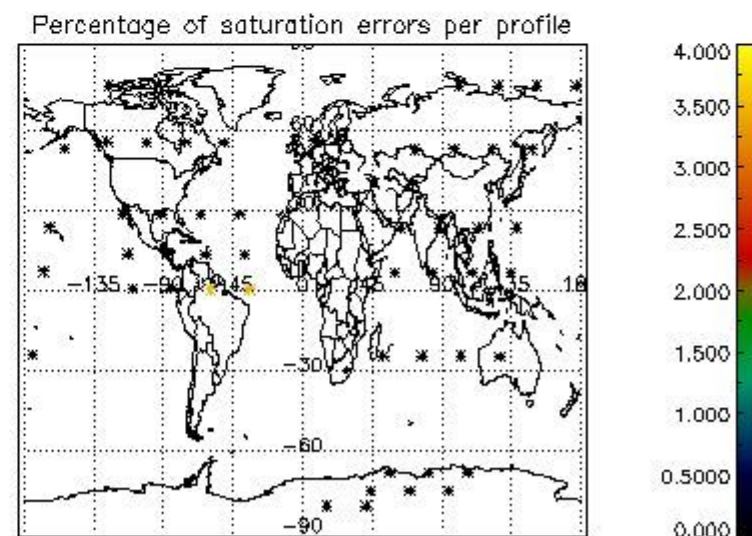
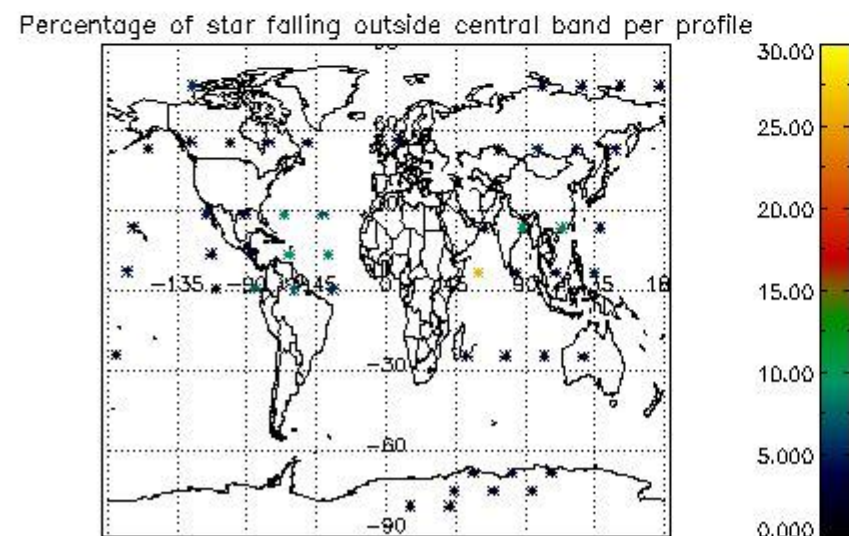
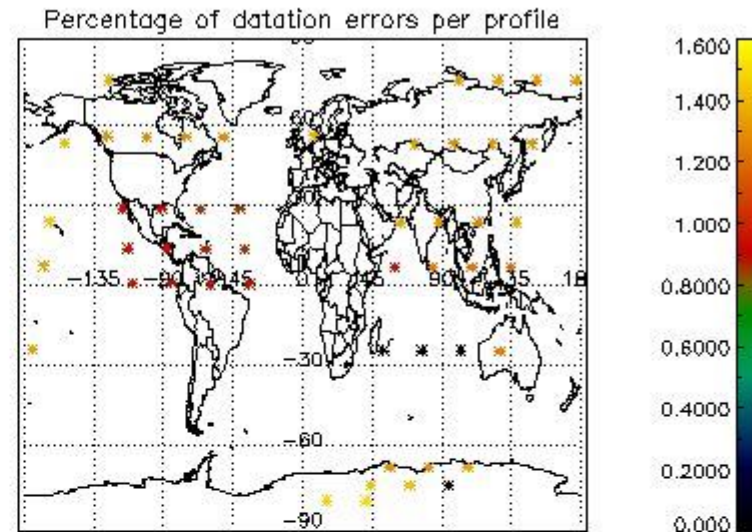
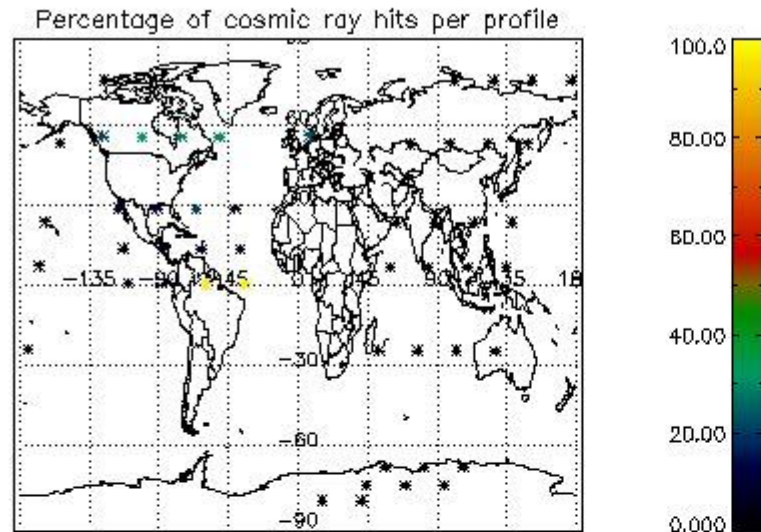
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



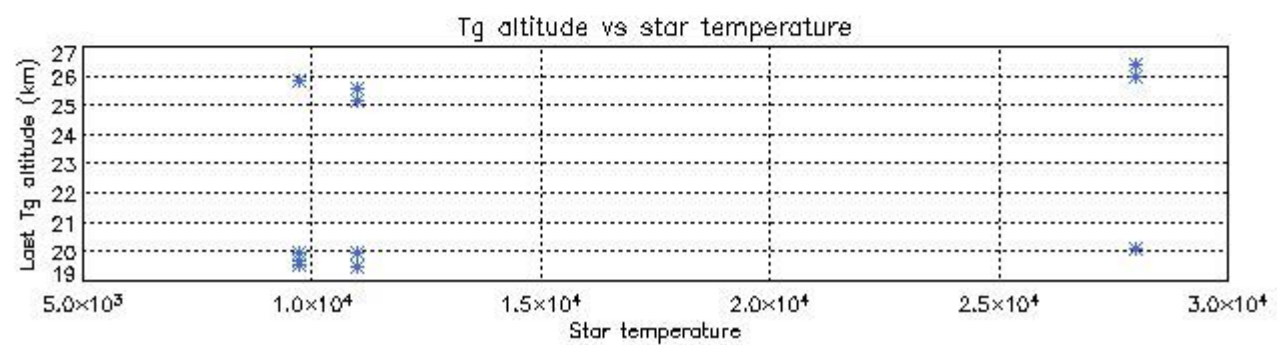
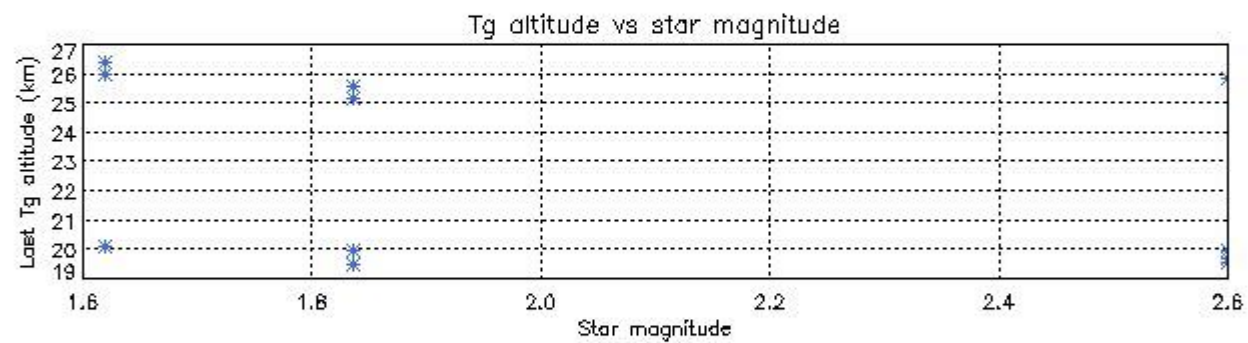
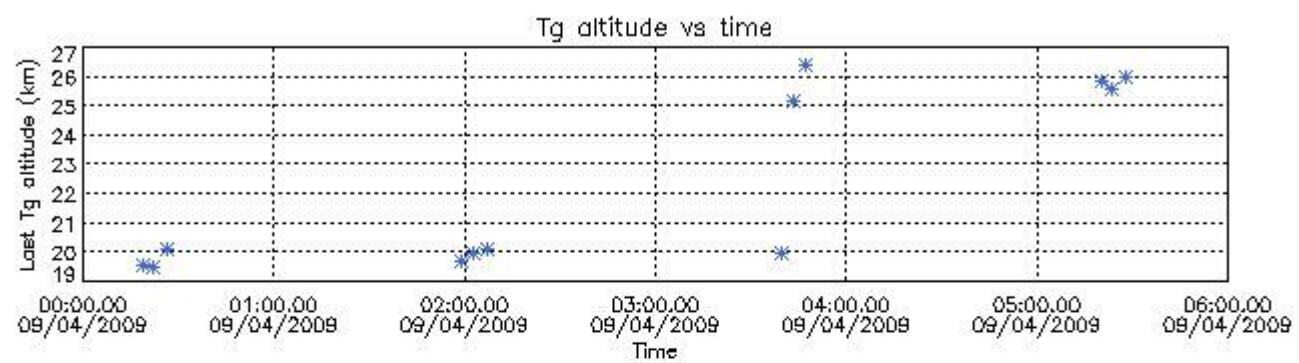
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	22.307	34.011	NaN
St. deviation:	3.0774	8.7893	NaN
Maximum:	26.355	49.111	NaN
Minimum:	19.490	11.296	NaN
Number of data:	12.000	32.000	NaN

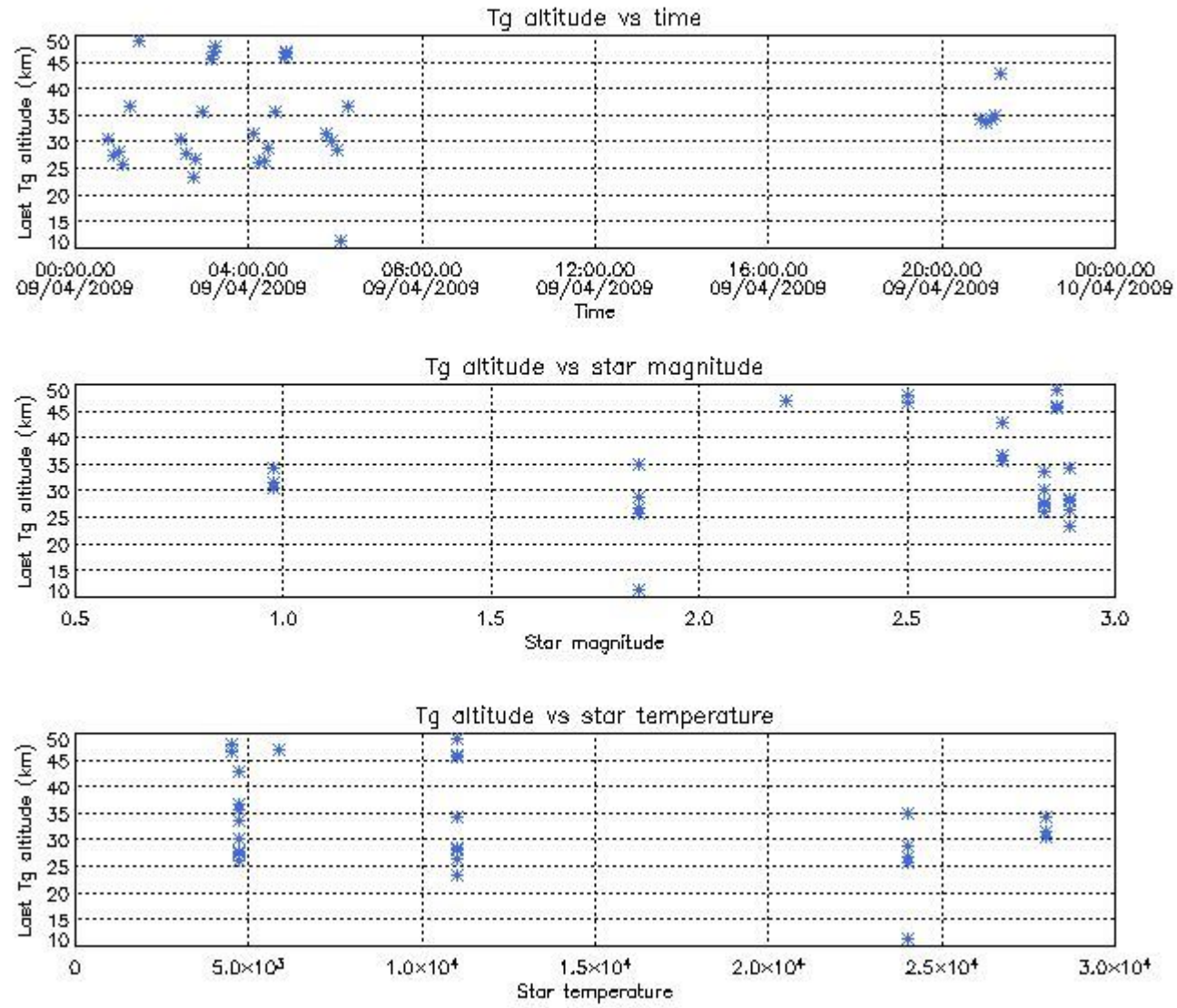
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

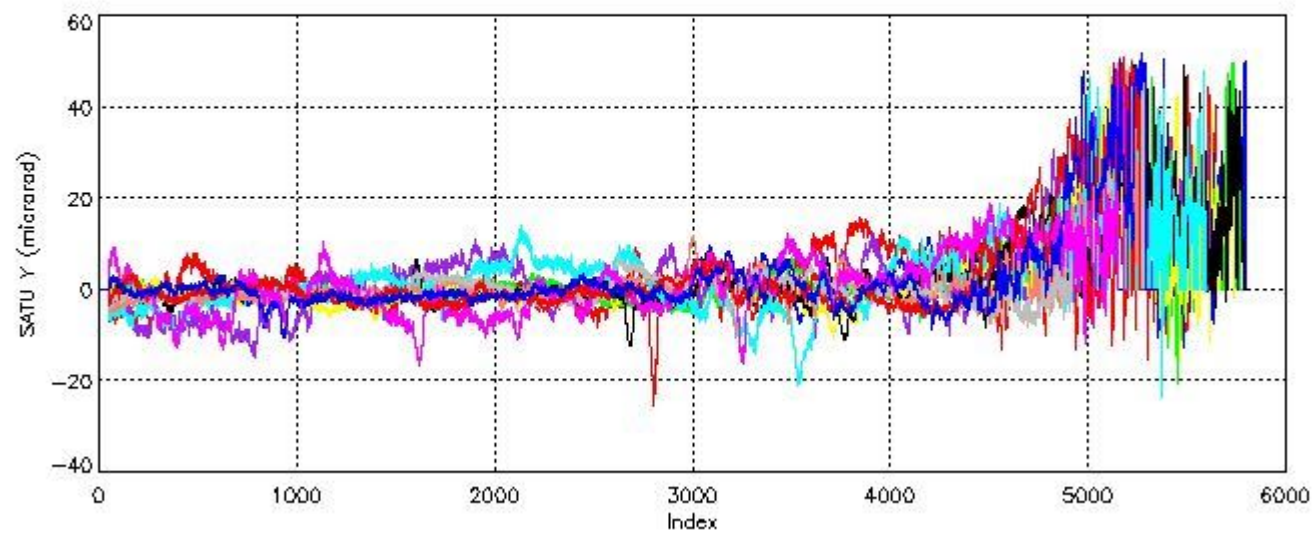
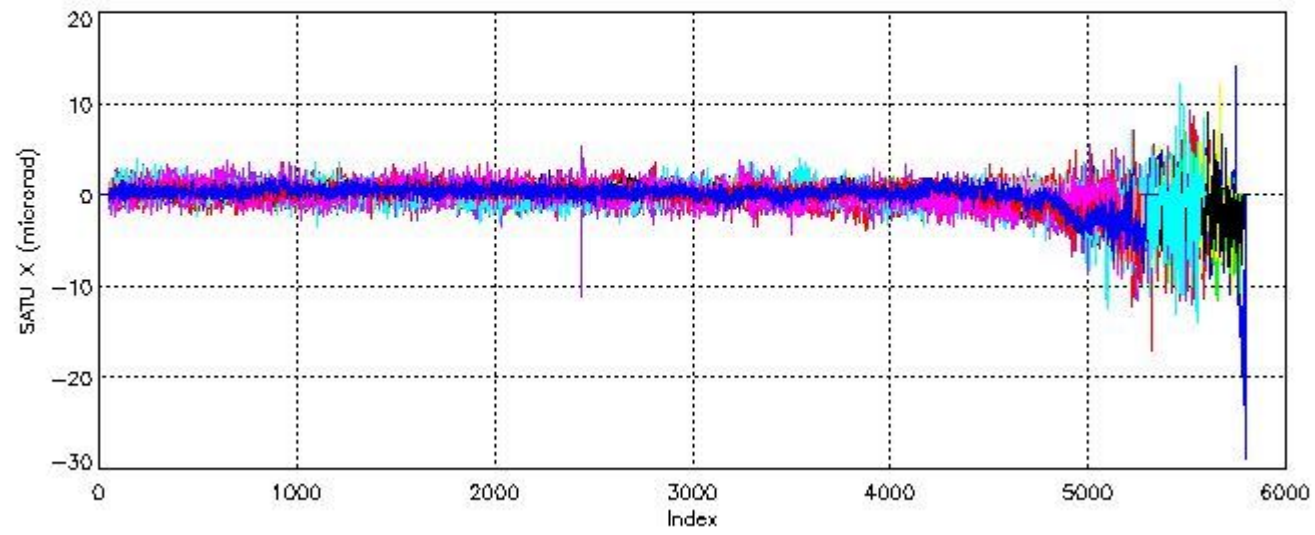


7. Star Acquisition and Tracking Unit (SATU)

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:	0.38743	-1.4682	0.30868	-0.82199
St. deviation:	0.64614	2.2027	0.86430	1.7847
Maximum:	4.0000	10.400	6.7000	10.000
Minimum:	-3.4000	-15.100	-6.0000	-24.400

Number of data:	16600.	16600.	33250.	33250.
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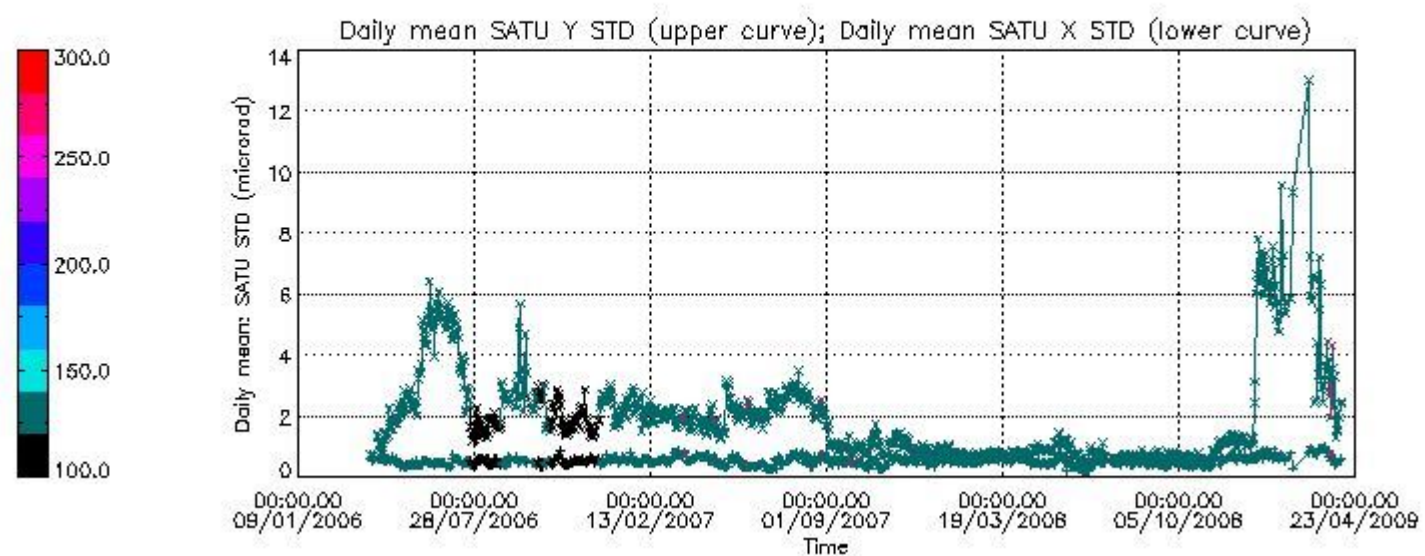
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

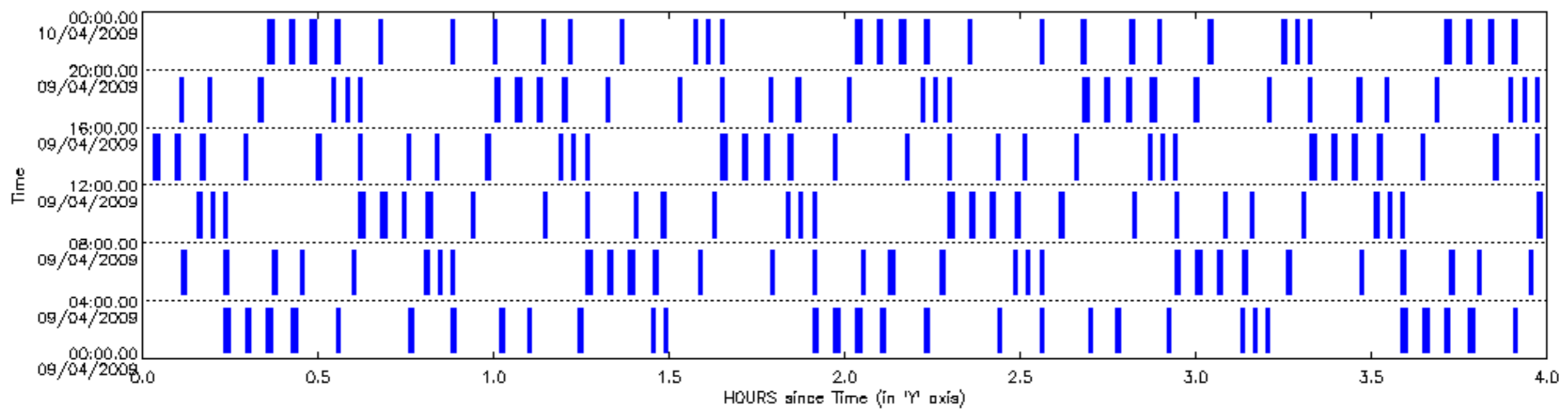
Lower curve: STD of SATU X axis

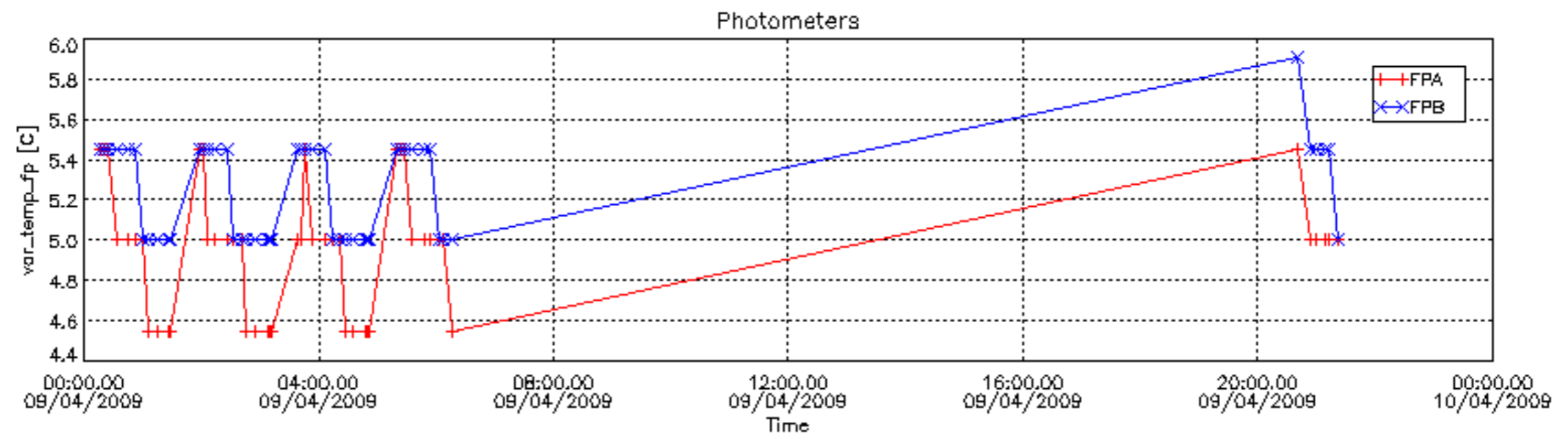
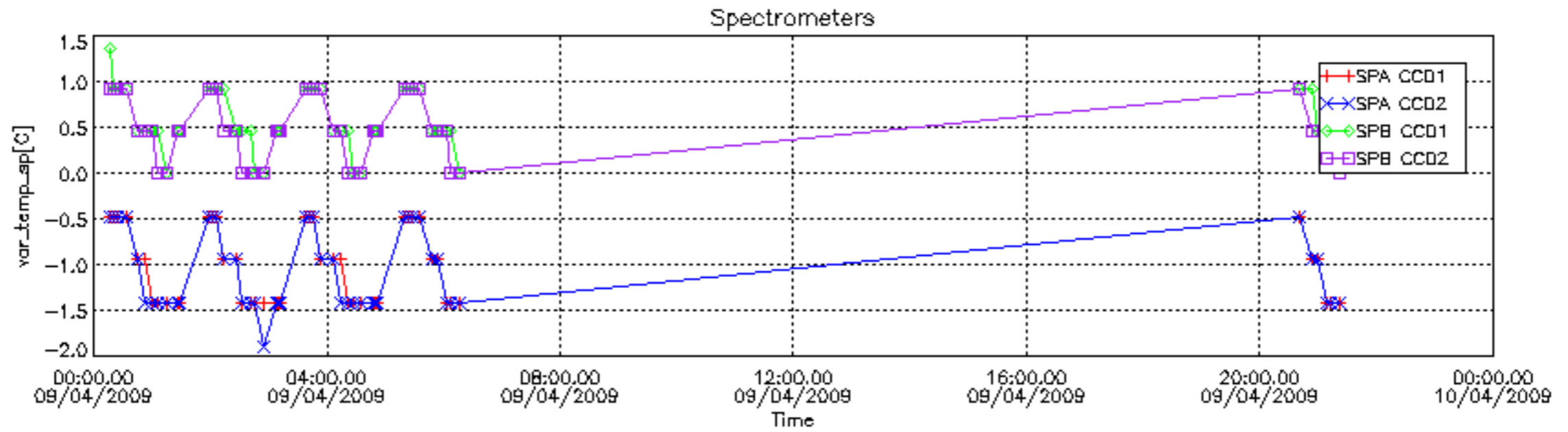


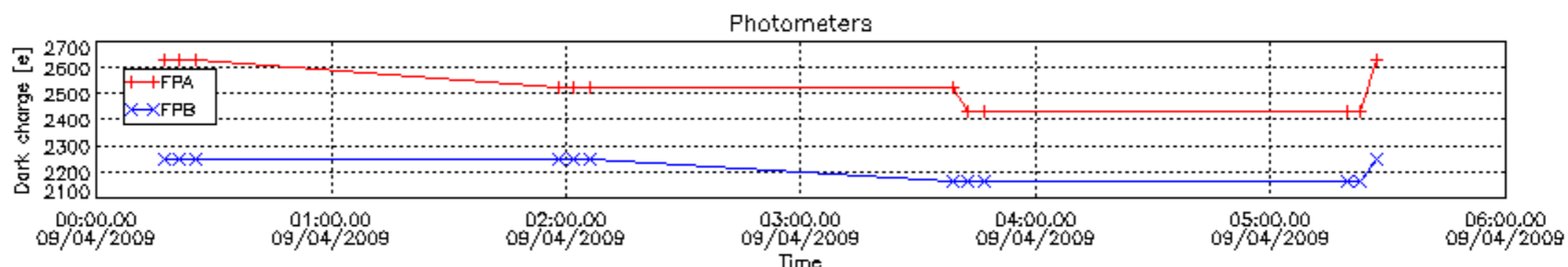
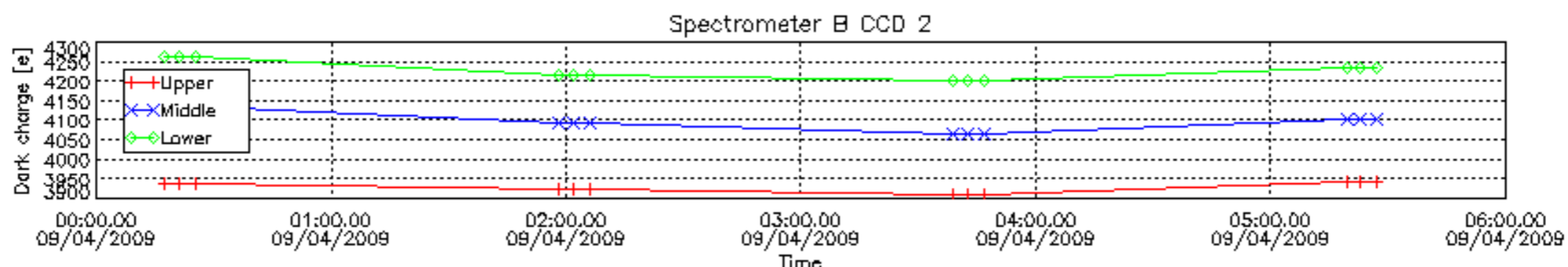
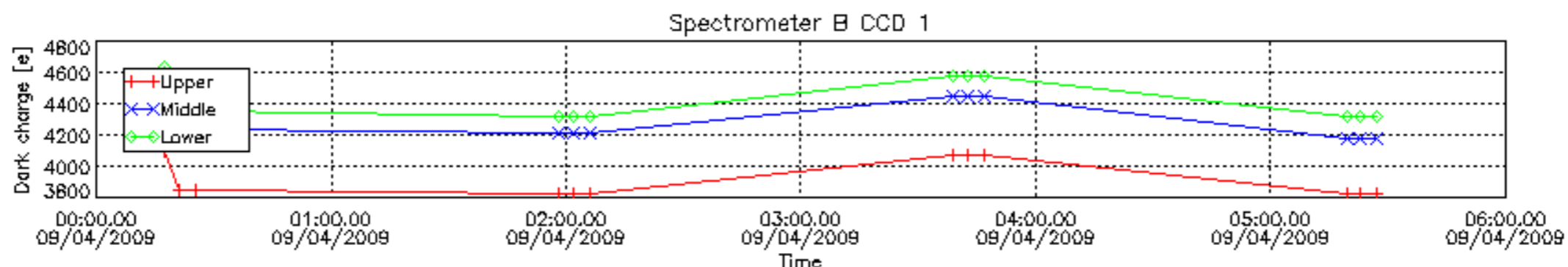
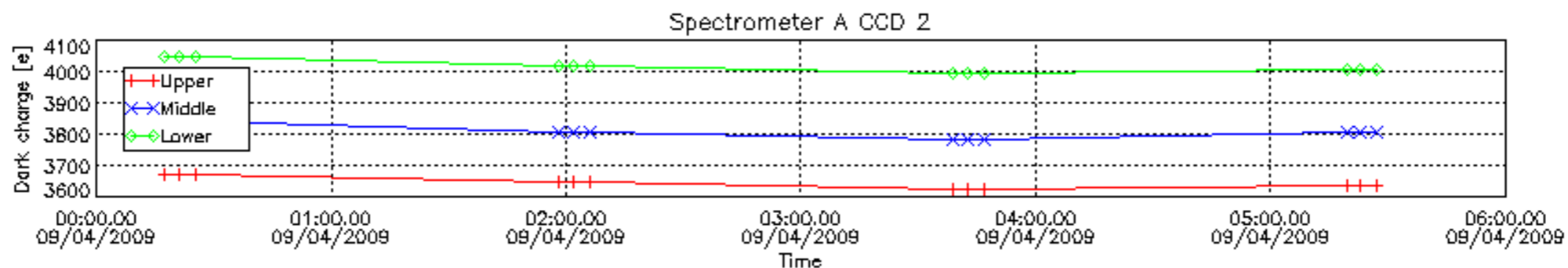
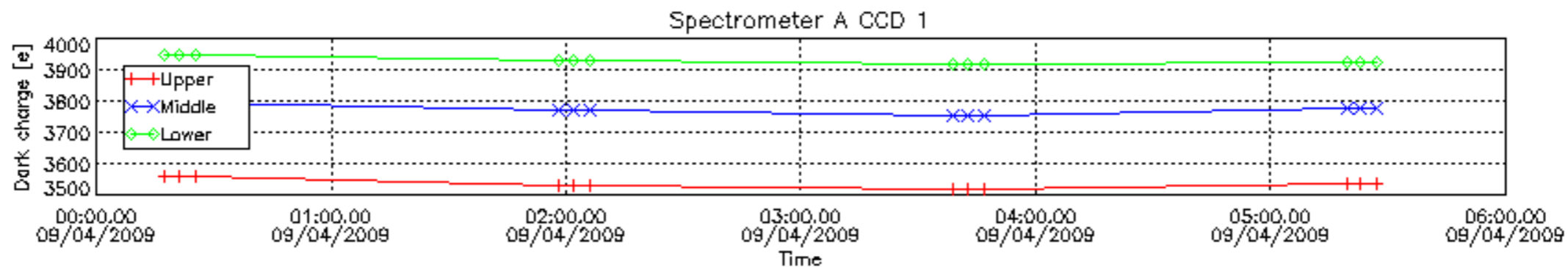
8. Auxiliary Data Files used for the production reported in section 2.4

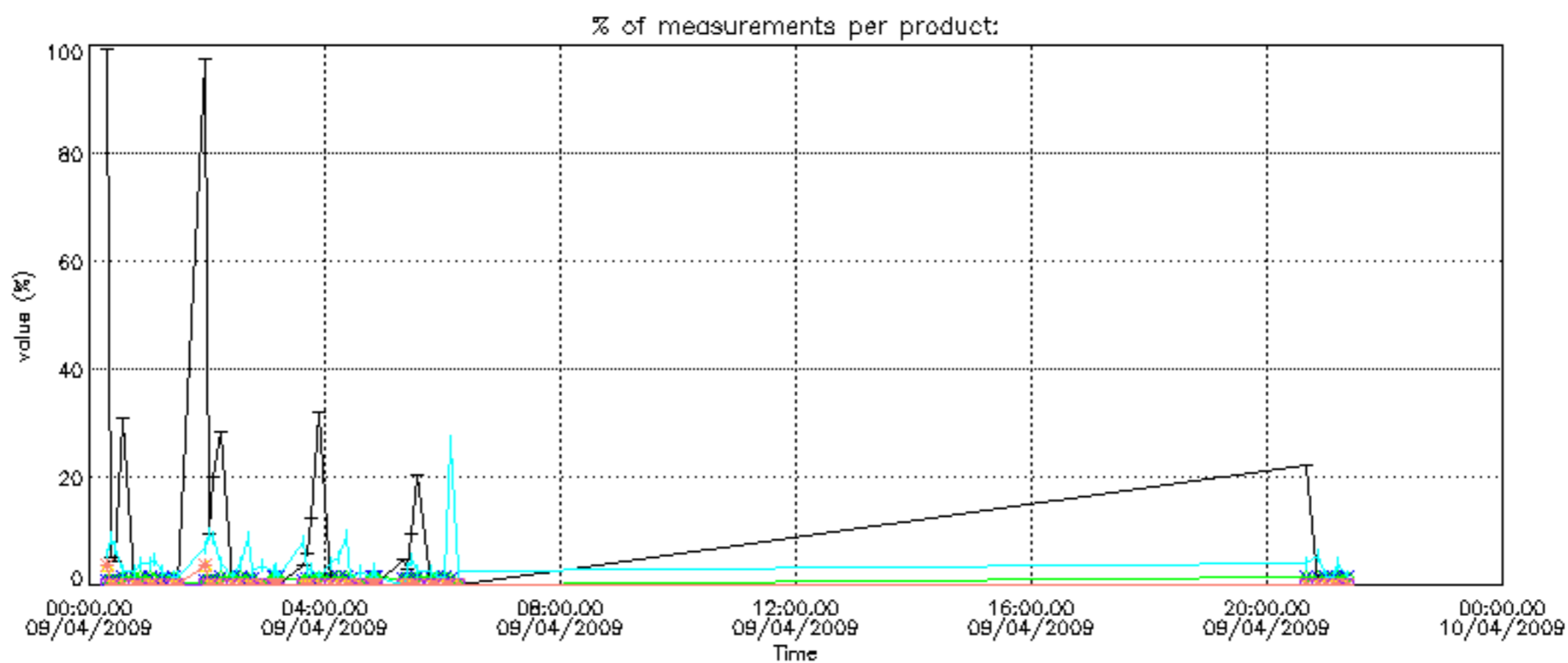
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	09-APR-2009 00:17:31
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090323_082818_20090321_000000_20100101_000000	1	09-APR-2009 00:17:31
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	09-APR-2009 00:17:31
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-APR-2009 00:17:31
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	09-APR-2009 00:17:31
ECMWF_FILE	AUX_ECF_AXNECM20090408_064111_20090408_210000_20090409_090000	1	09-APR-2009 00:17:31
ECMWF_FILE	AUX_ECF_AXNECM20090408_184111_20090409_030000_20090409_150000	21	09-APR-2009 03:07:35
ECMWF_FILE	AUX_ECF_AXNECM20090409_064113_20090409_150000_20090410_030000	45	09-APR-2009 20:40:21
OPTIONAL_ECMWF_FILE	MISSING	1	09-APR-2009 00:17:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090408_222223_000057382078_00029_37157_7712.N1	1	09-APR-2009 00:17:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090409_013858_000041442078_00031_37159_7714.N1	12	09-APR-2009 01:58:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090409_025322_000057382078_00032_37160_7715.N1	33	09-APR-2009 04:48:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090409_203600_000041442078_00043_37171_7717.N1	45	09-APR-2009 20:40:21

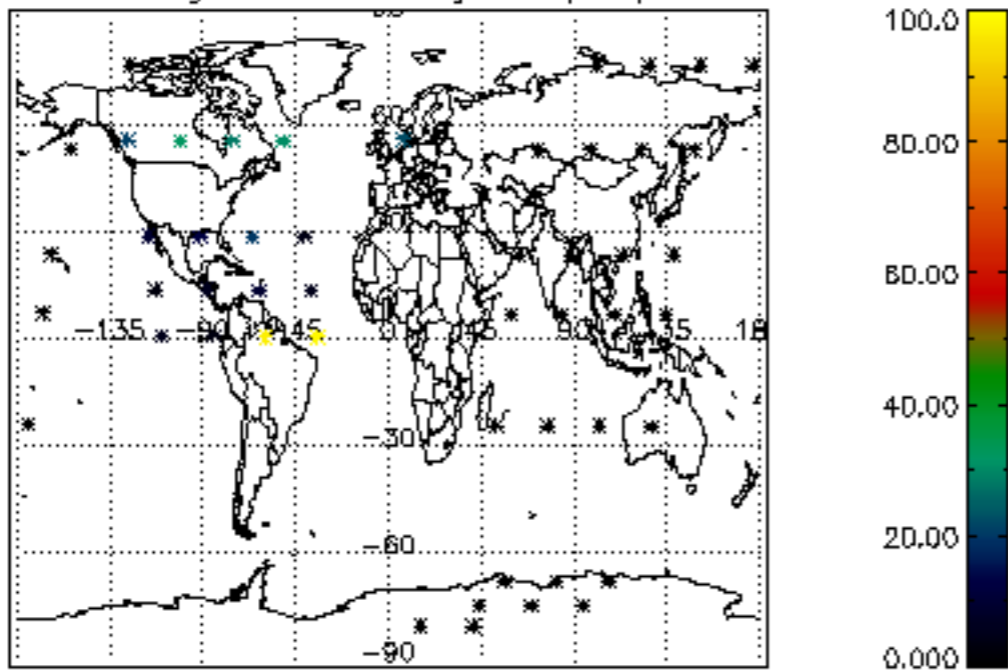




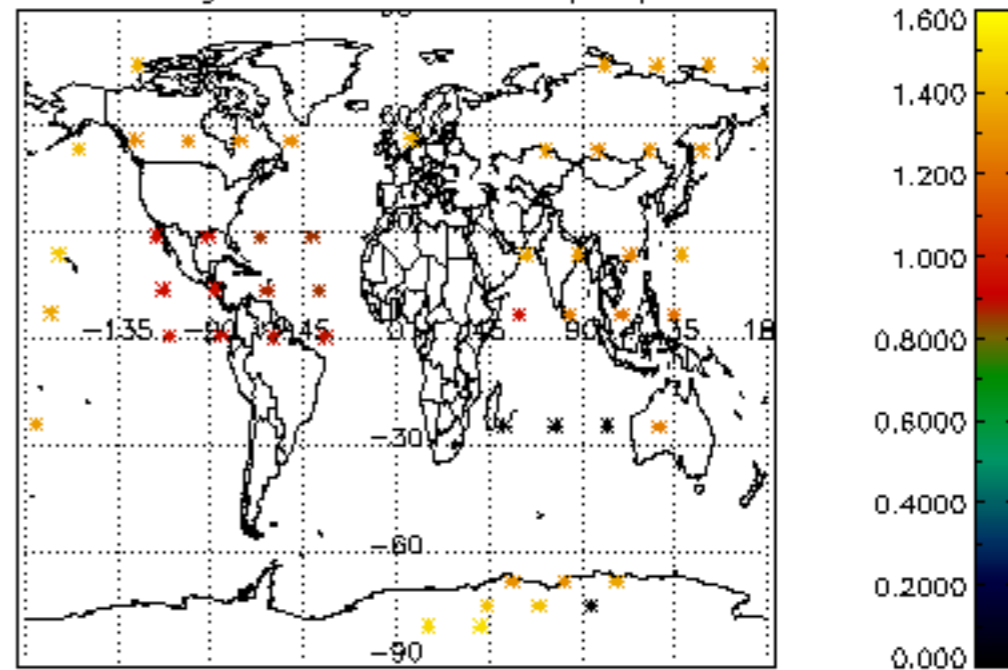




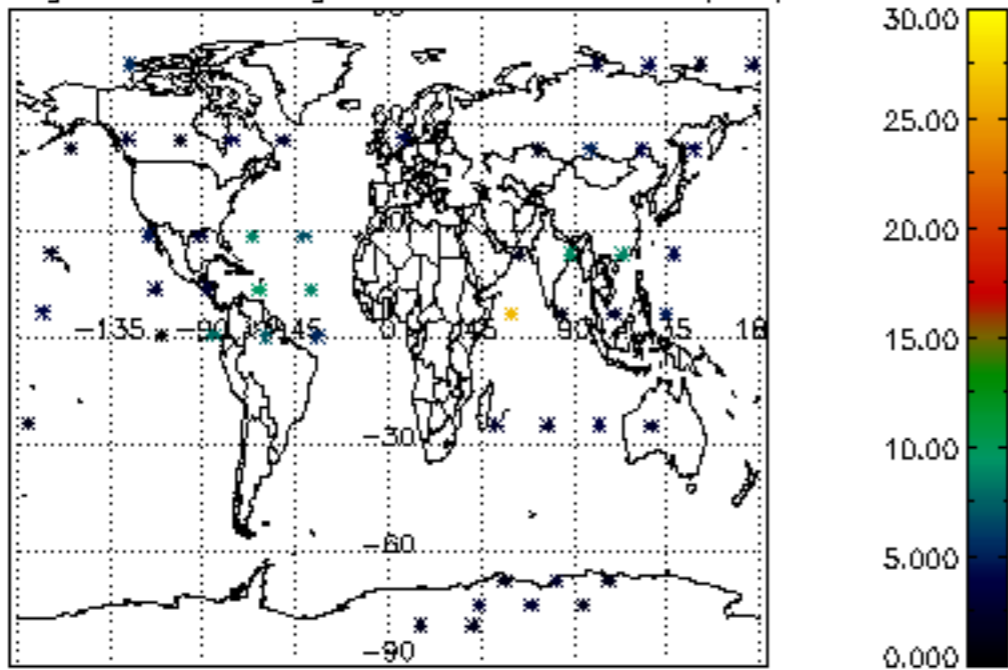
Percentage of cosmic ray hits per profile



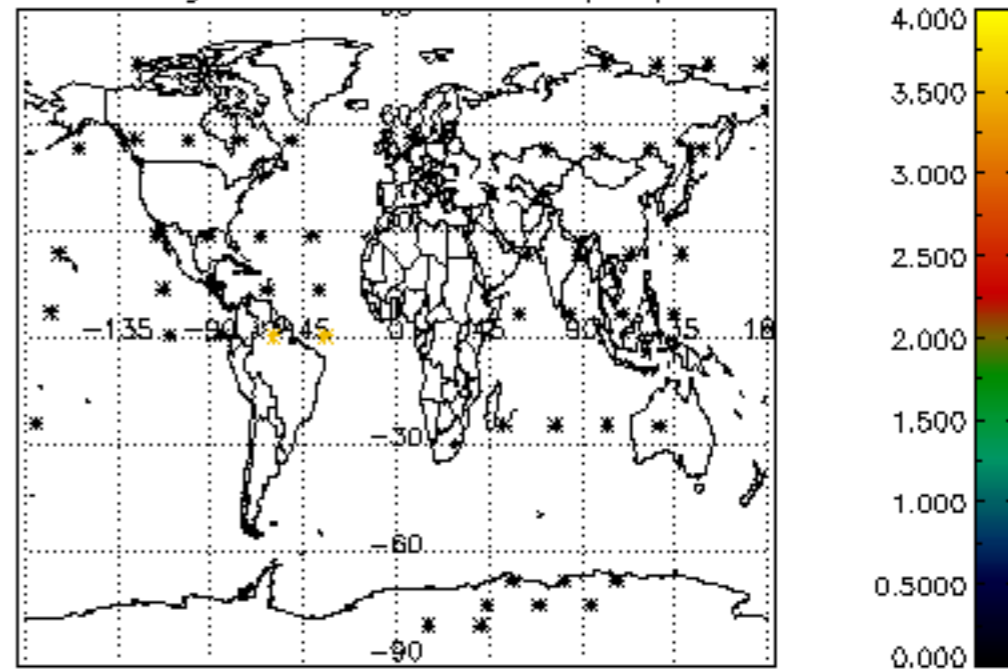
Percentage of datation errors per profile



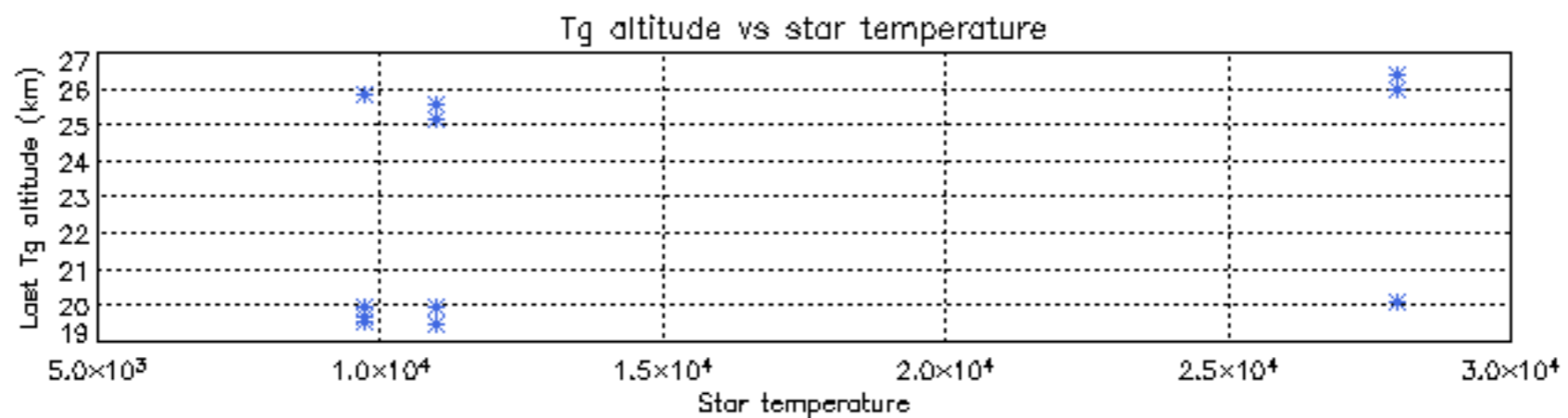
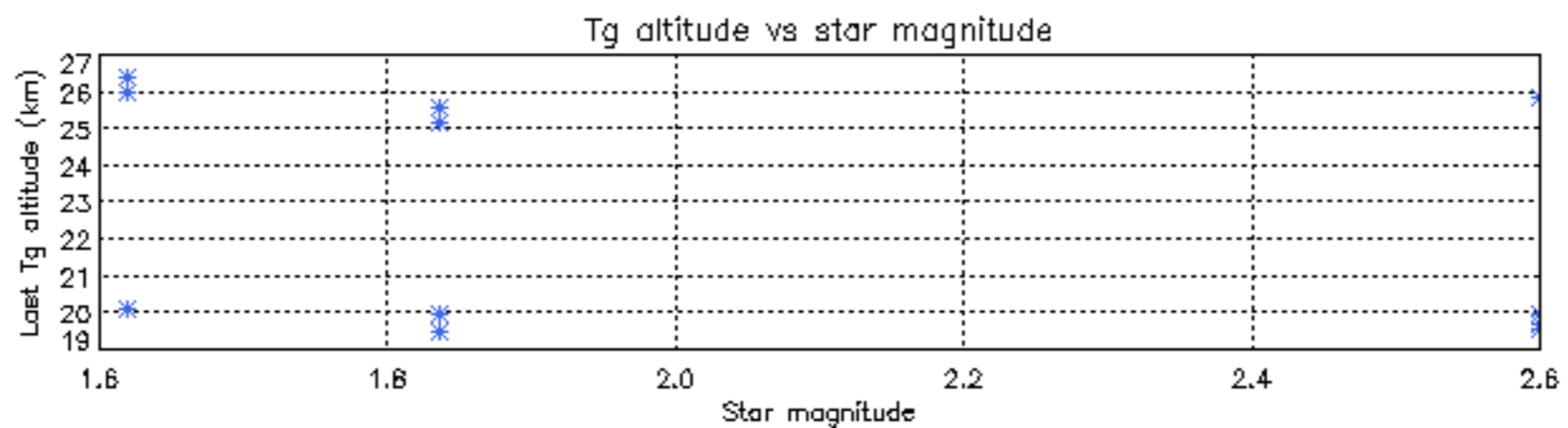
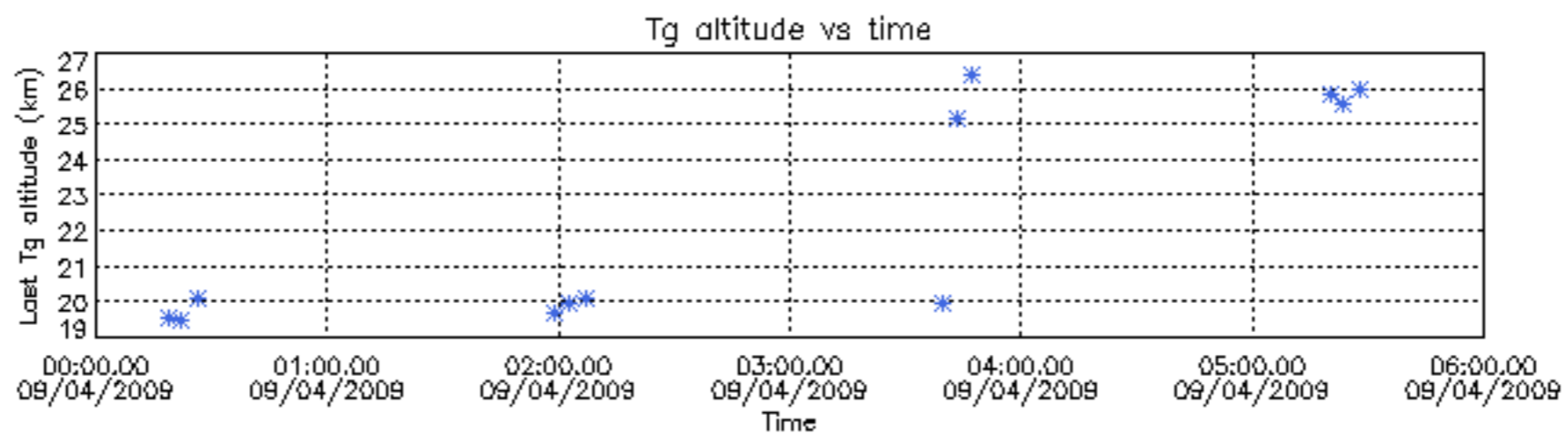
Percentage of star falling outside central band per profile



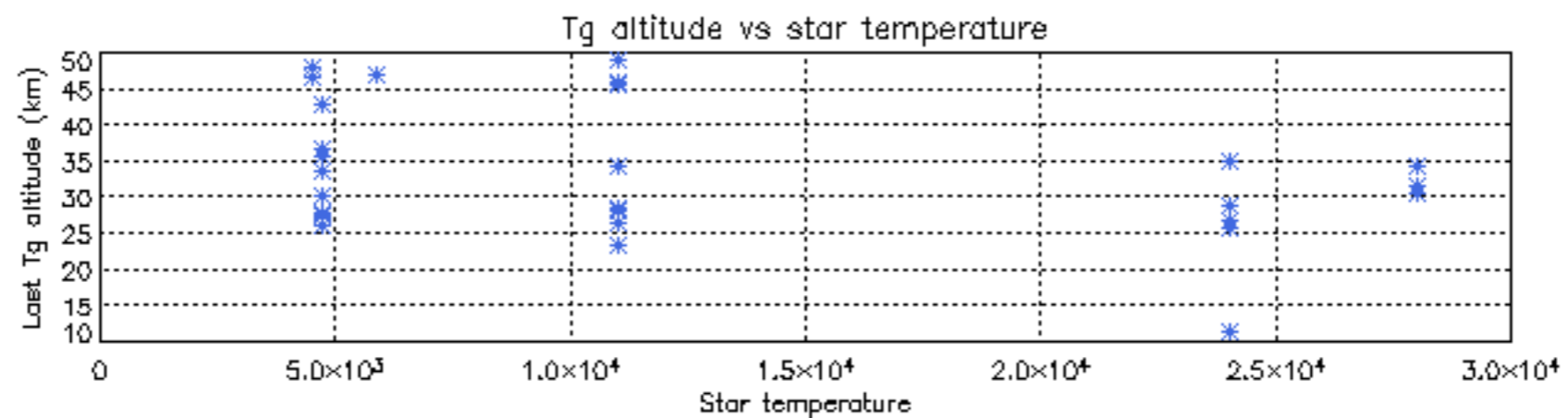
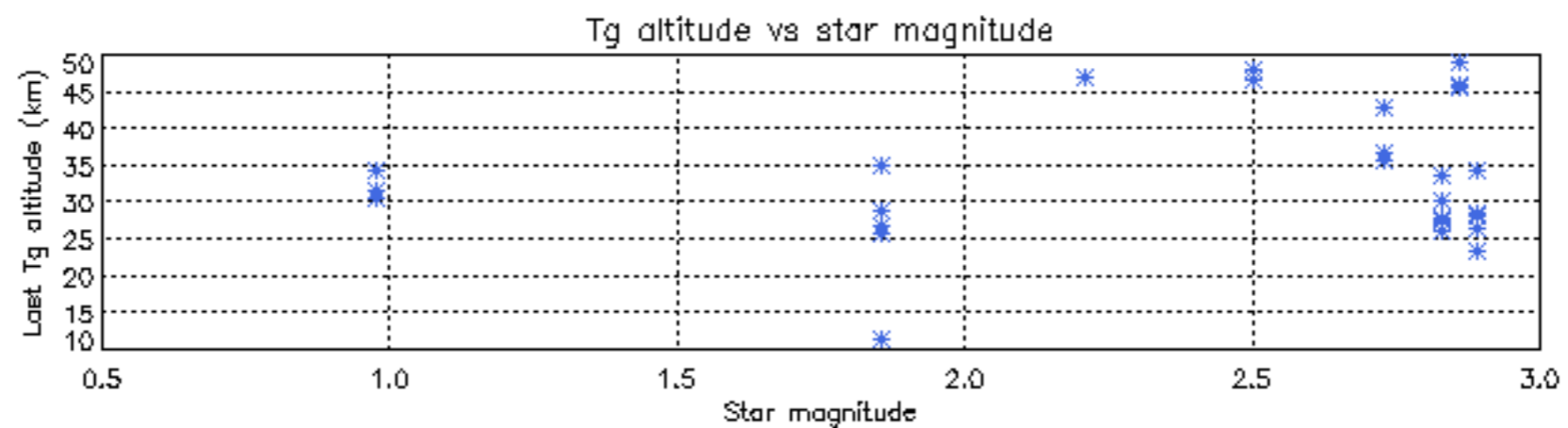
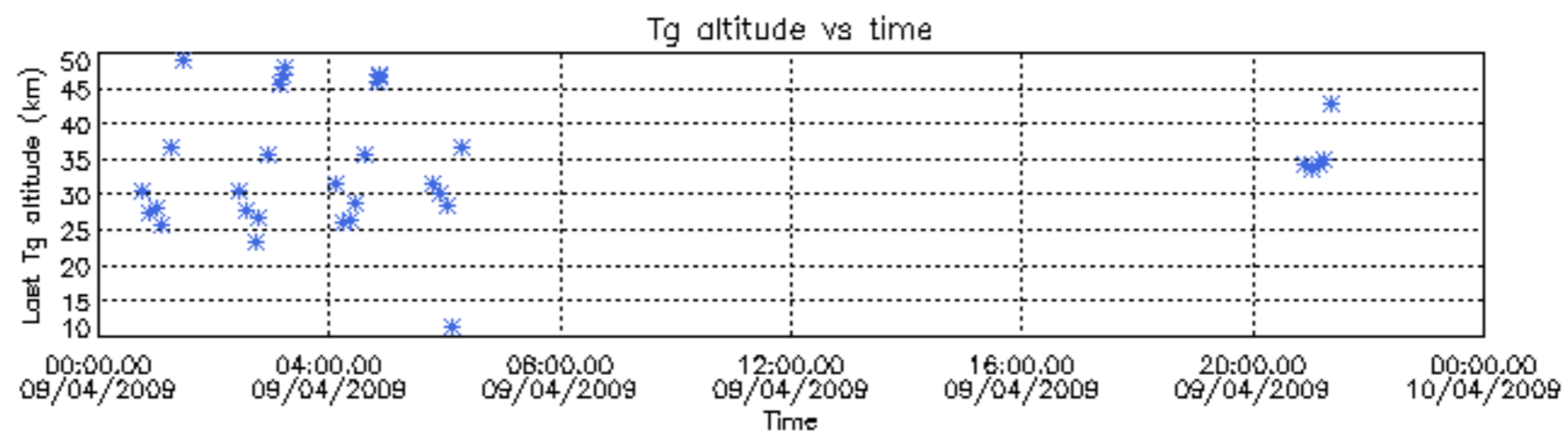
Percentage of saturation errors per profile

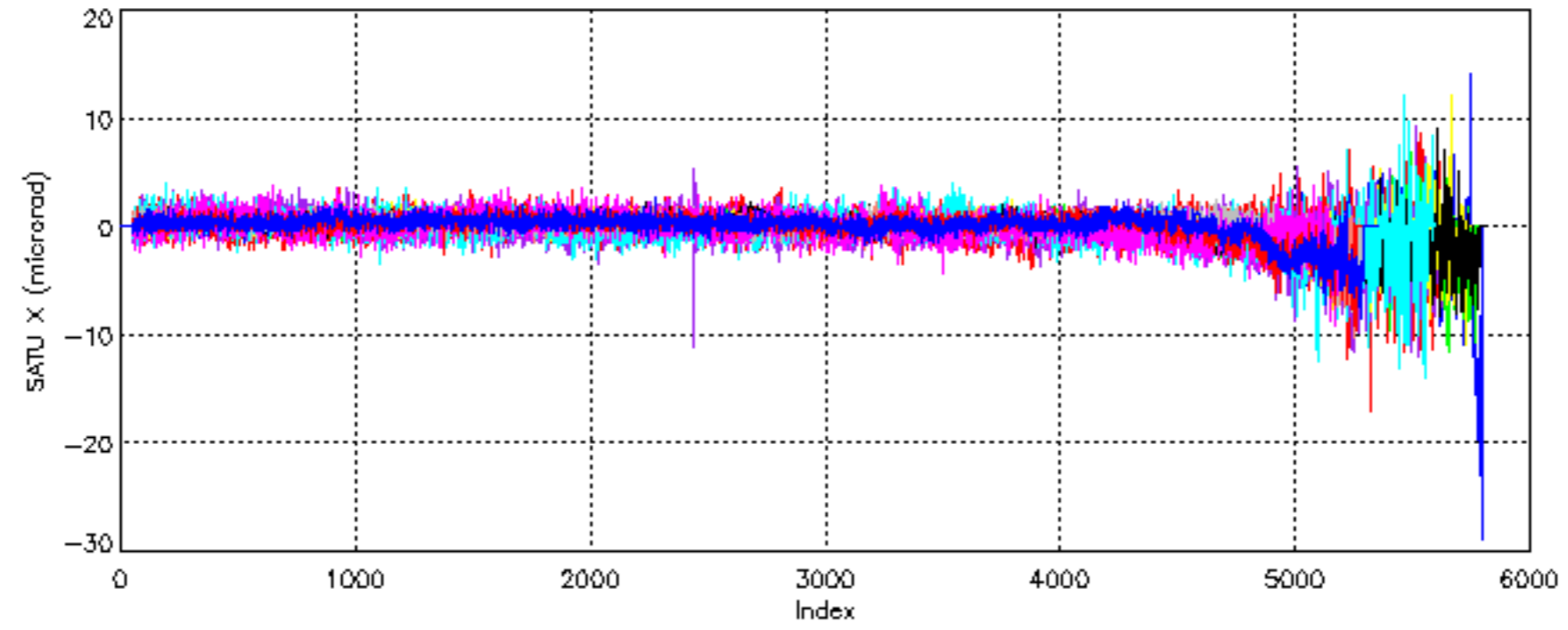


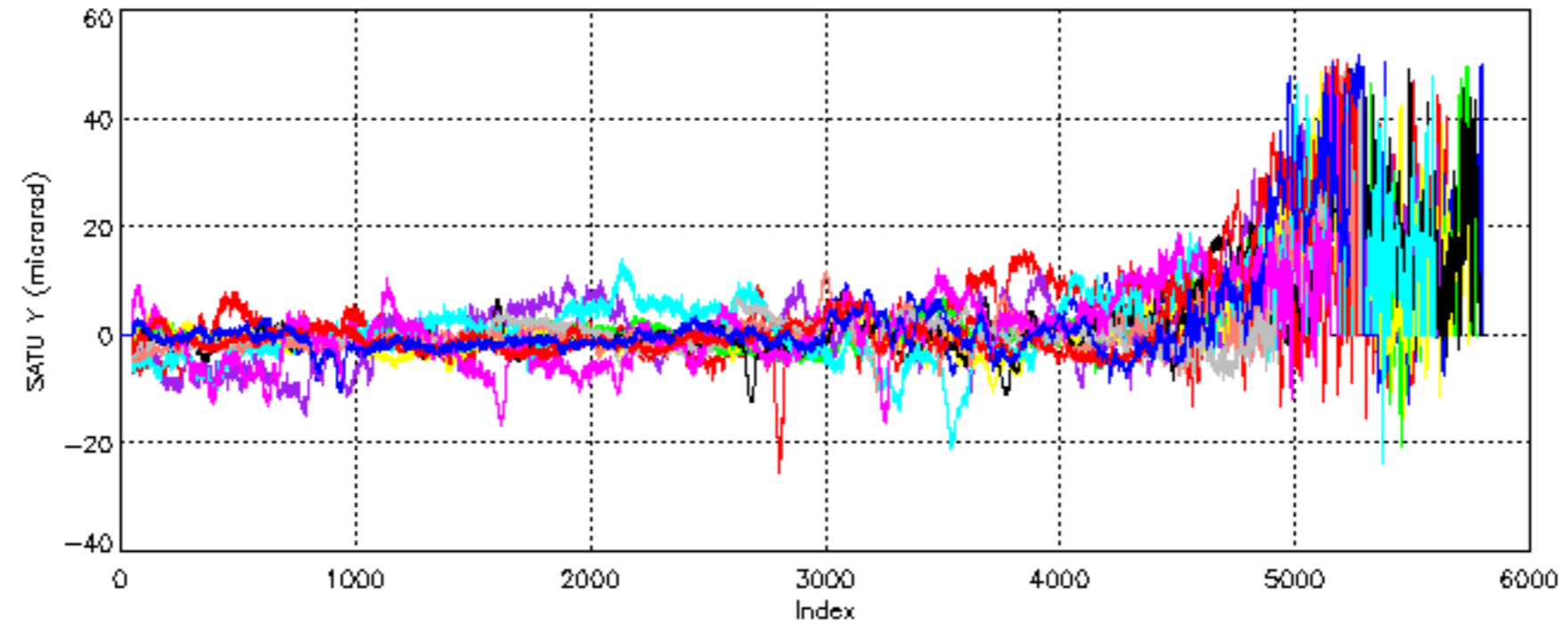
Tangent altitude at which the star is lost

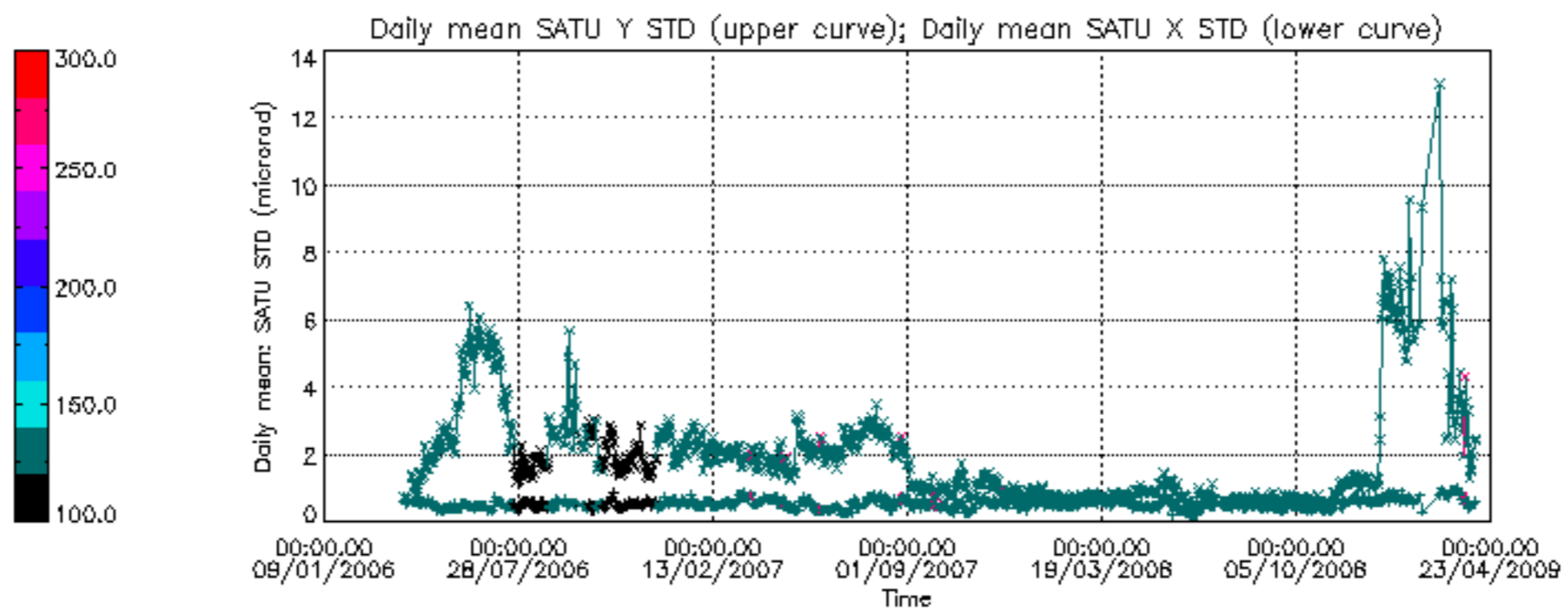


Tangent altitude at which the star is lost









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

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2; 1881.9; 01-APR-2009 15:05:17; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;37053
3; 7141.4; 01-APR-2009 16:32:56; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;37053

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

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

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1; -257.2; 02-APR-2009 00:33:13; Dark ; 60.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 121; 0;37058
2; -125.0; 02-APR-2009 00:35:25; Dark ; 56.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 112; 0;37058
3; 341.6; 02-APR-2009 00:43:12; Dark ; 57.5; 25; 35Lam Sco ; 1.62; 28000;occ; 115; 0;37059
4; 800.4; 02-APR-2009 00:50:51; Dark ; 51.5; 131; Gam Lup ; 2.80; 26000;occ; 103; 0;37059
5; 945.7; 02-APR-2009 00:53:16; Dark ; 48.0; 81; Eta Cen ; 2.36; 28000;occ; 96; 0;37059
6; 1107.7; 02-APR-2009 00:55:58; Dark ; 52.0; 54; 5The Cen ; 2.06; 4500;occ; 104; 0;37059
7; 1433.6; 02-APR-2009 01:01:24; Dark ; 51.0; 169; 46Gam Hya ; 2.99; 4700;occ; 102; 0;37059
8; 1688.1; 02-APR-2009 01:05:38; Dark ; 70.0; 15; 67Alp Vir ; 0.98; 28000;occ; 140; 0;37059
9; 1881.4; 02-APR-2009 01:08:52; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;37059
10; 2154.8; 02-APR-2009 01:13:25; Bright; 49.0; 138; 47Eps Vir ; 2.83; 4700;occ; 98; 0;37059
11; 2669.6; 02-APR-2009 01:22:00; Bright; 44.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 88; 0;37059
12; 2952.7; 02-APR-2009 01:26:43; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;37059
13; 3499.2; 02-APR-2009 01:35:49; Bright; 48.0; 119; 14Eta Dra ; 2.73; 4700;occ; 96; 0;37059
14; 4197.2; 02-APR-2009 01:47:27; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;37059
15; 4312.9; 02-APR-2009 01:49:23; Bright; 49.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 98; 0;37059
16; 4436.0; 02-APR-2009 01:51:26; Bright; 61.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 122; 0;37059
17; 5054.0; 02-APR-2009 02:01:44; Dark ; 65.5; 11; 53Alp Aql ; 0.76; 8000;occ; 131; 0;37059
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2; -742.9; 02-APR-2009 02:05:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37059
3; -255.9; 02-APR-2009 02:13:50; Dark ; 57.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 115; 0;37059
4; -123.9; 02-APR-2009 02:16:02; Dark ; 56.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 112; 0;37059
5; 89.5; 02-APR-2009 02:19:36; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;37060
6; 343.0; 02-APR-2009 02:23:49; Dark ; 59.0; 25; 35Lam Sco ; 1.62; 28000;occ; 118; 0;37060
7; 801.5; 02-APR-2009 02:31:28; Dark ; 52.5; 131; Gam Lup ; 2.80; 26000;occ; 105; 0;37060
8; 946.7; 02-APR-2009 02:33:53; Dark ; 46.5; 81; Eta Cen ; 2.36; 28000;occ; 93; 0;37060
9; 1108.6; 02-APR-2009 02:36:35; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;37060
10; 1433.7; 02-APR-2009 02:42:00; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;37060
11; 1688.2; 02-APR-2009 02:46:14; Dark ; 66.5; 15; 67Alp Vir ; 0.98; 28000;occ; 133; 0;37060
12; 1881.5; 02-APR-2009 02:49:28; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;37060
13; 2154.6; 02-APR-2009 02:54:01; Bright; 48.0; 138; 47Eps Vir ; 2.83; 4700;occ; 96; 0;37060
14; 2669.4; 02-APR-2009 03:02:36; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37060
15; 2952.7; 02-APR-2009 03:07:19; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;37060
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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
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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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