

GOMOS Daily Report 16-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	19APR2009 05:36:30
Data source version	GOMOS/5.00
Start time of products	16APR2009 00:03:32
Stop time of products	16APR2009 05:54:56
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

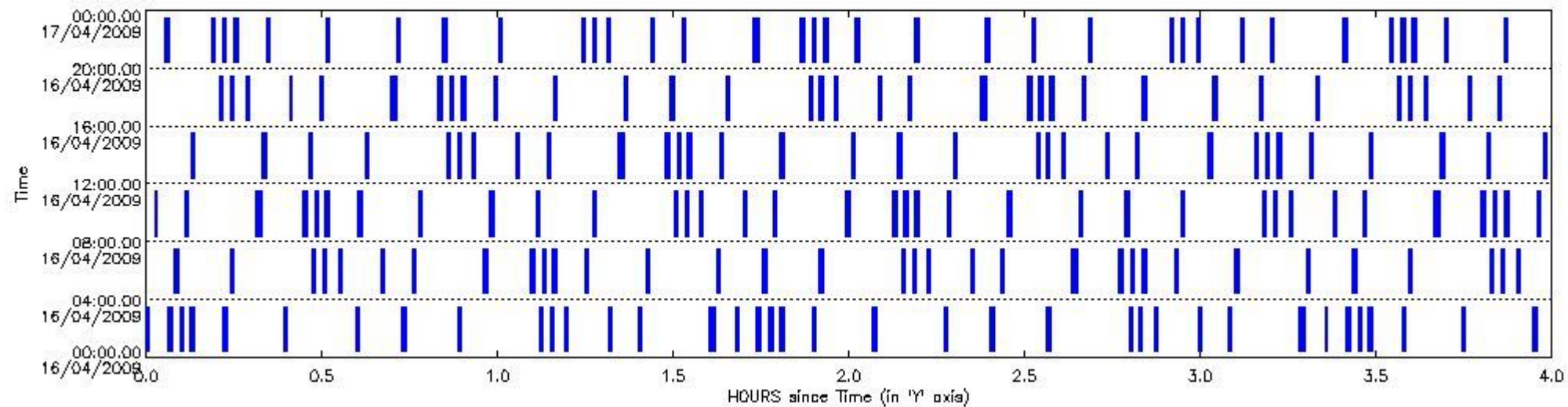
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

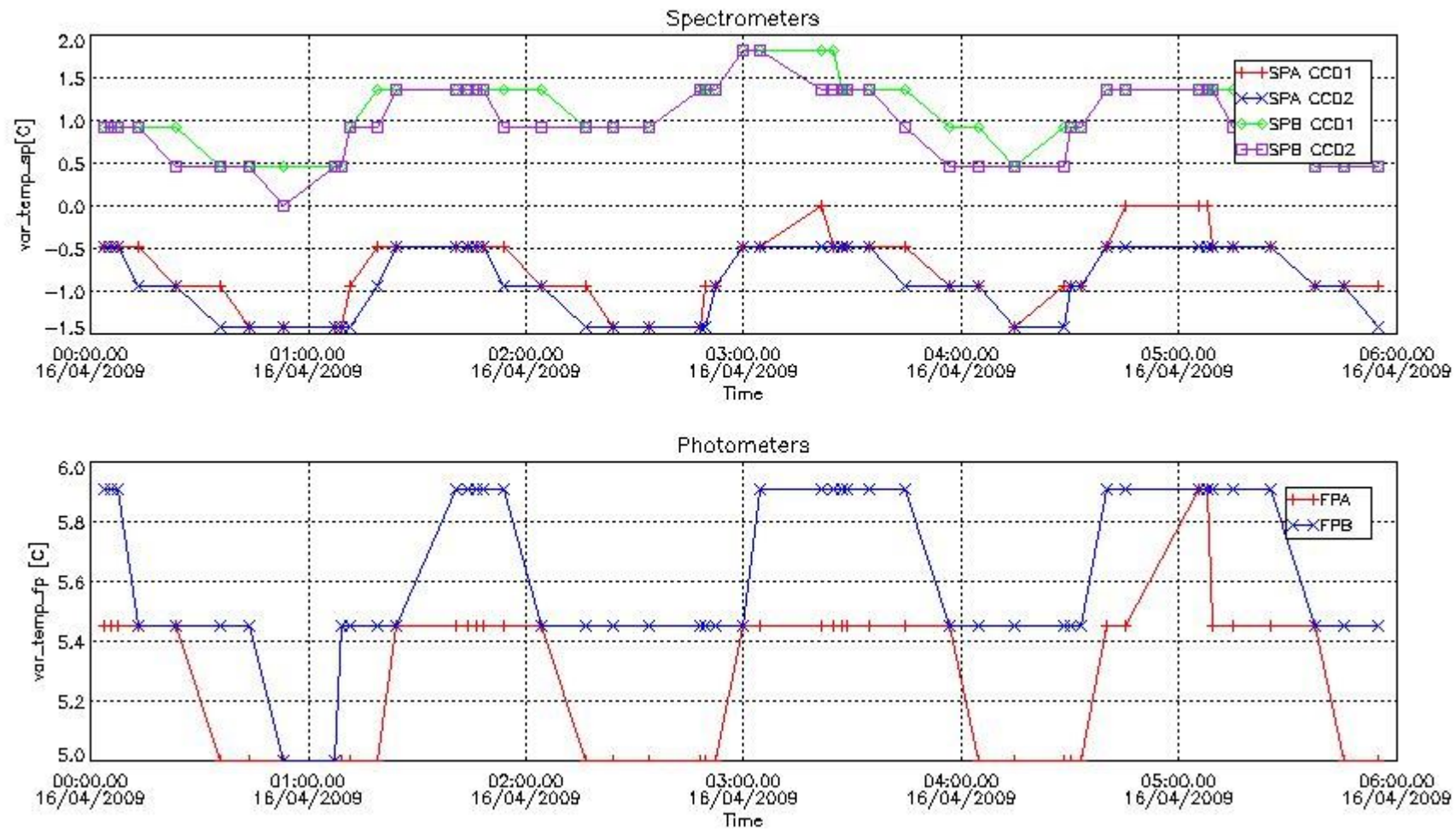
No missing products.

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_1PNPDE20090416_000332_000000512078_00131_37259_6244.N1	16-APR-2009 00:03:32	Dark	51.000	38	20Eps Sgr	1.8360	11000.	102	37259	No
2	GOM_TRA_1PNPDE20090416_000541_000000372078_00131_37259_6245.N1	16-APR-2009 00:05:41	Dark	37.000	147	Alp Ara	2.8770	26000.	74	37259	No
3	GOM_TRA_1PNPDE20090416_000727_000000482078_00131_37259_6246.N1	16-APR-2009 00:07:27	Dark	48.000	25	35Lam Sco	1.6200	28000.	96	37259	No
4	GOM_TRA_1PNPDE20090416_001308_000000372078_00131_37259_6247.N1	16-APR-2009 00:13:08	Straylight	36.500	131	Gam Lup	2.8000	26000.	73	37259	No
5	GOM_TRA_1PNPDE20090416_002325_000000432078_00131_37259_6248.N1	16-APR-2009 00:23:25	Bright	42.500	122	9Alp2Lib	2.7470	9700.0	85	37259	No
6	GOM_TRA_1PNPDE20090416_003539_000000392078_00131_37259_6249.N1	16-APR-2009 00:35:39	Bright	39.000	111	8Eta Boo	2.6800	6000.0	78	37259	No
7	GOM_TRA_1PNPDE20090416_004332_000000432078_00131_37259_6250.N1	16-APR-2009 00:43:32	Bright	42.500	180	27Gam Boo	3.0400	8000.0	85	37259	No
8	GOM_TRA_1PNPDE20090416_005310_000000372078_00131_37259_6251.N1	16-APR-2009 00:53:10	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	37259	No
9	GOM_TRA_1PNPDE20090416_010710_000000322078_00131_37259_6252.N1	16-APR-2009 01:07:10	Twilight	31.500	19	50Alp Cyg	1.2460	10500.	63	37259	No
10	GOM_TRA_1PNPDE20090416_010858_000000352078_00131_37259_6253.N1	16-APR-2009 01:08:58	Twilight	34.500	66	37Gam Cyg	2.2080	5900.0	69	37259	No
11	GOM_TRA_1PNPDE20090416_011131_000000332078_00131_37259_6254.N1	16-APR-2009 01:11:31	Twilight	33.000	92	53Eps Cyg	2.5000	4500.0	66	37259	No
12	GOM_TRA_1PNPDE20090416_011858_000000302078_00131_37259_6255.N1	16-APR-2009 01:18:58	Dark	29.500	61	8Eps Peg	2.1000	3900.0	59	37259	No

13	GOM_TRA_1PNPDE20090416_012405_000000322078_00131_37259_6391.N1	16-APR-2009 01:24:05	Dark	31.500	154	22Bet Aqr	2.8990	5700.0	63	37259	No
14	GOM_TRA_1PNPDE20090416_014037_000000252078_00132_37260_6392.N1	16-APR-2009 01:40:37	Dark	25.000	103	38Zet Sgr	2.6000	9700.0	50	37260	No
15	GOM_TRA_1PNPDE20090416_014410_000000512078_00132_37260_6393.N1	16-APR-2009 01:44:10	Dark	51.000	38	20Eps Sgr	1.8360	11000.	102	37260	No
16	GOM_TRA_1PNPDE20090416_014618_000000382078_00132_37260_6394.N1	16-APR-2009 01:46:18	Dark	37.500	147	Alp Ara	2.8770	26000.	75	37260	No
17	GOM_TRA_1PNPDE20090416_014804_000000482078_00132_37260_6395.N1	16-APR-2009 01:48:04	Dark	48.000	25	35Lam Sco	1.6200	28000.	96	37260	No
18	GOM_TRA_1PNPDE20090416_015344_000000372078_00132_37260_6396.N1	16-APR-2009 01:53:44	Straylight	37.000	131	Gam Lup	2.8000	26000.	74	37260	No
19	GOM_TRA_1PNPDE20090416_020401_000000432078_00132_37260_6397.N1	16-APR-2009 02:04:01	Bright	42.500	122	9Alp2Lib	2.7470	9700.0	85	37260	No
20	GOM_TRA_1PNPDE20090416_021614_000000392078_00132_37260_6398.N1	16-APR-2009 02:16:14	Bright	39.000	111	8Eta Boo	2.6800	6000.0	78	37260	No
21	GOM_TRA_1PNPDE20090416_022407_000000432078_00132_37260_6399.N1	16-APR-2009 02:24:07	Bright	42.500	180	27Gam Boo	3.0400	8000.0	85	37260	No
22	GOM_TRA_1PNPDE20090416_023346_000000372078_00132_37260_6400.N1	16-APR-2009 02:33:46	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	37260	No
23	GOM_TRA_1PNPDE20090416_024746_000000322078_00132_37260_6481.N1	16-APR-2009 02:47:46	Twi_and_stray	31.500	19	50Alp Cyg	1.2460	10500.	63	37260	No
24	GOM_TRA_1PNPDE20090416_024933_000000352078_00132_37260_6482.N1	16-APR-2009 02:49:33	Twi_and_stray	34.500	66	37Gam Cyg	2.2080	5900.0	69	37260	No
25	GOM_TRA_1PNPDE20090416_025207_000000342078_00132_37260_6483.N1	16-APR-2009 02:52:07	Twi_and_stray	33.500	92	53Eps Cyg	2.5000	4500.0	67	37260	No
26	GOM_TRA_1PNPDE20090416_025935_000000302078_00132_37260_6484.N1	16-APR-2009 02:59:35	Dark	29.500	61	8Eps Peg	2.1000	3900.0	59	37260	No
27	GOM_TRA_1PNPDE20090416_030442_000000322078_00132_37260_6485.N1	16-APR-2009 03:04:42	Dark	31.500	154	22Bet Aqr	2.8990	5700.0	63	37260	No
28	GOM_TRA_1PNPDE20090416_032114_000000252078_00133_37261_6486.N1	16-APR-2009 03:21:14	Dark	25.000	103	38Zet Sgr	2.6000	9700.0	50	37261	No
29	GOM_TRA_1PNPDE20090416_032447_000000512078_00133_37261_6487.N1	16-APR-2009 03:24:47	Dark	51.000	38	20Eps Sgr	1.8360	11000.	102	37261	No
30	GOM_TRA_1PNPDE20090416_032655_000000382078_00133_37261_6488.N1	16-APR-2009 03:26:55	Dark	37.500	147	Alp Ara	2.8770	26000.	75	37261	No
31	GOM_TRA_1PNPDE20090416_032841_000000492078_00133_37261_6489.N1	16-APR-2009 03:28:41	Dark	48.500	25	35Lam Sco	1.6200	28000.	97	37261	No
32	GOM_TRA_1PNPDE20090416_033421_000000372078_00133_37261_6490.N1	16-APR-2009 03:34:21	Straylight	36.500	131	Gam Lup	2.8000	26000.	73	37261	No
33	GOM_TRA_1PNPDE20090416_034437_000000422078_00133_37261_6491.N1	16-APR-2009 03:44:37	Bright	42.000	122	9Alp2Lib	2.7470	9700.0	84	37261	No
34	GOM_TRA_1PNPDE20090416_035650_000000392078_00133_37261_6492.N1	16-APR-2009 03:56:50	Bright	39.000	111	8Eta Boo	2.6800	6000.0	78	37261	No
35	GOM_TRA_1PNPDE20090416_040442_000000432078_00133_37261_6493.N1	16-APR-2009 04:04:42	Bright	42.500	180	27Gam Boo	3.0400	8000.0	85	37261	No
36	GOM_TRA_1PNPDE20090416_041421_000000372078_00133_37261_6494.N1	16-APR-2009 04:14:21	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	37261	No
37	GOM_TRA_1PNPDE20090416_042822_000000322078_00133_37261_6577.N1	16-APR-2009 04:28:22	Twi_and_stray	31.500	19	50Alp Cyg	1.2460	10500.	63	37261	No
38	GOM_TRA_1PNPDE20090416_043009_000000352078_00133_37261_6578.N1	16-APR-2009 04:30:09	Twi_and_stray	34.500	66	37Gam Cyg	2.2080	5900.0	69	37261	No
39	GOM_TRA_1PNPDE20090416_043244_000000332078_00133_37261_6579.N1	16-APR-2009 04:32:44	Twi_and_stray	33.000	92	53Eps Cyg	2.5000	4500.0	66	37261	No
40	GOM_TRA_1PNPDE20090416_044011_000000302078_00133_37261_6580.N1	16-APR-2009 04:40:11	Dark	29.500	61	8Eps Peg	2.1000	3900.0	59	37261	No
41	GOM_TRA_1PNPDE20090416_044519_000000322078_00133_37261_6581.N1	16-APR-2009 04:45:19	Dark	31.500	154	22Bet Aqr	2.8990	5700.0	63	37261	No
42	GOM_TRA_1PNPDE20090416_050524_000000512078_00134_37262_6582.N1	16-APR-2009 05:05:24	Dark	51.000	38	20Eps Sgr	1.8360	11000.	102	37262	No
43	GOM_TRA_1PNPDE20090416_050732_000000382078_00134_37262_6583.N1	16-APR-2009 05:07:32	Dark	37.500	147	Alp Ara	2.8770	26000.	75	37262	No
44	GOM_TRA_1PNPDE20090416_050918_000000482078_00134_37262_6584.N1	16-APR-2009 05:09:18	Dark	48.000	25	35Lam Sco	1.6200	28000.	96	37262	No
45	GOM_TRA_1PNPDE20090416_051458_000000372078_00134_37262_6585.N1	16-APR-2009 05:14:58	Straylight	36.500	131	Gam Lup	2.8000	26000.	73	37262	No
46	GOM_TRA_1PNPDE20090416_052513_000000422078_00134_37262_6586.N1	16-APR-2009 05:25:13	Bright	41.500	122	9Alp2Lib	2.7470	9700.0	83	37262	No
47	GOM_TRA_1PNPDE20090416_053725_000000392078_00134_37262_6587.N1	16-APR-2009 05:37:25	Bright	38.500	111	8Eta Boo	2.6800	6000.0	77	37262	No
48	GOM_TRA_1PNPDE20090416_054518_000000422078_00134_37262_6588.N1	16-APR-2009 05:45:18	Bright	41.500	180	27Gam Boo	3.0400	8000.0	83	37262	No
49	GOM_TRA_1PNPDE20090416_055456_000000362078_00134_37262_6589.N1	16-APR-2009 05:54:56	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	37262	No

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



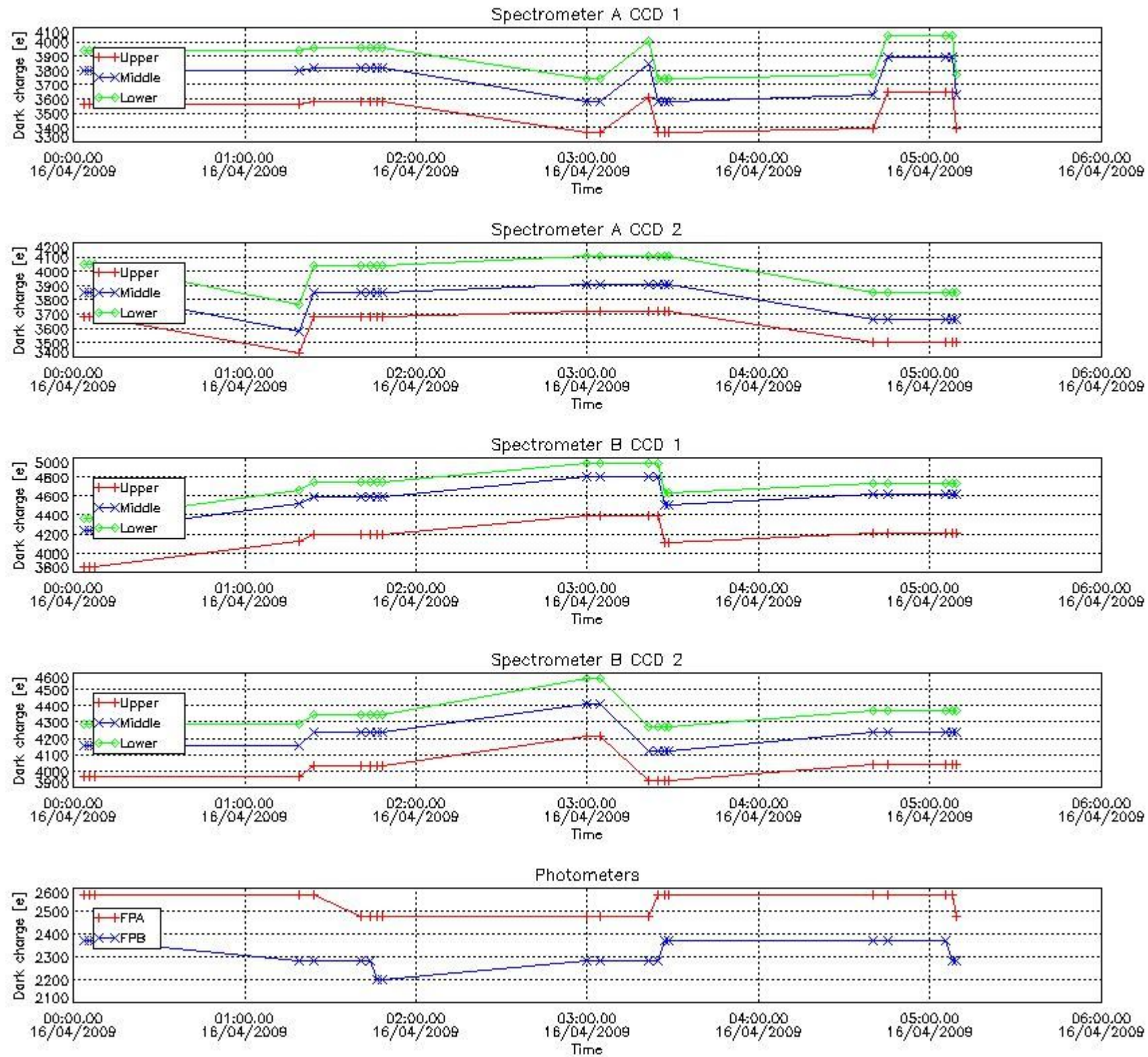
4. Overview of dark signal processing per product

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



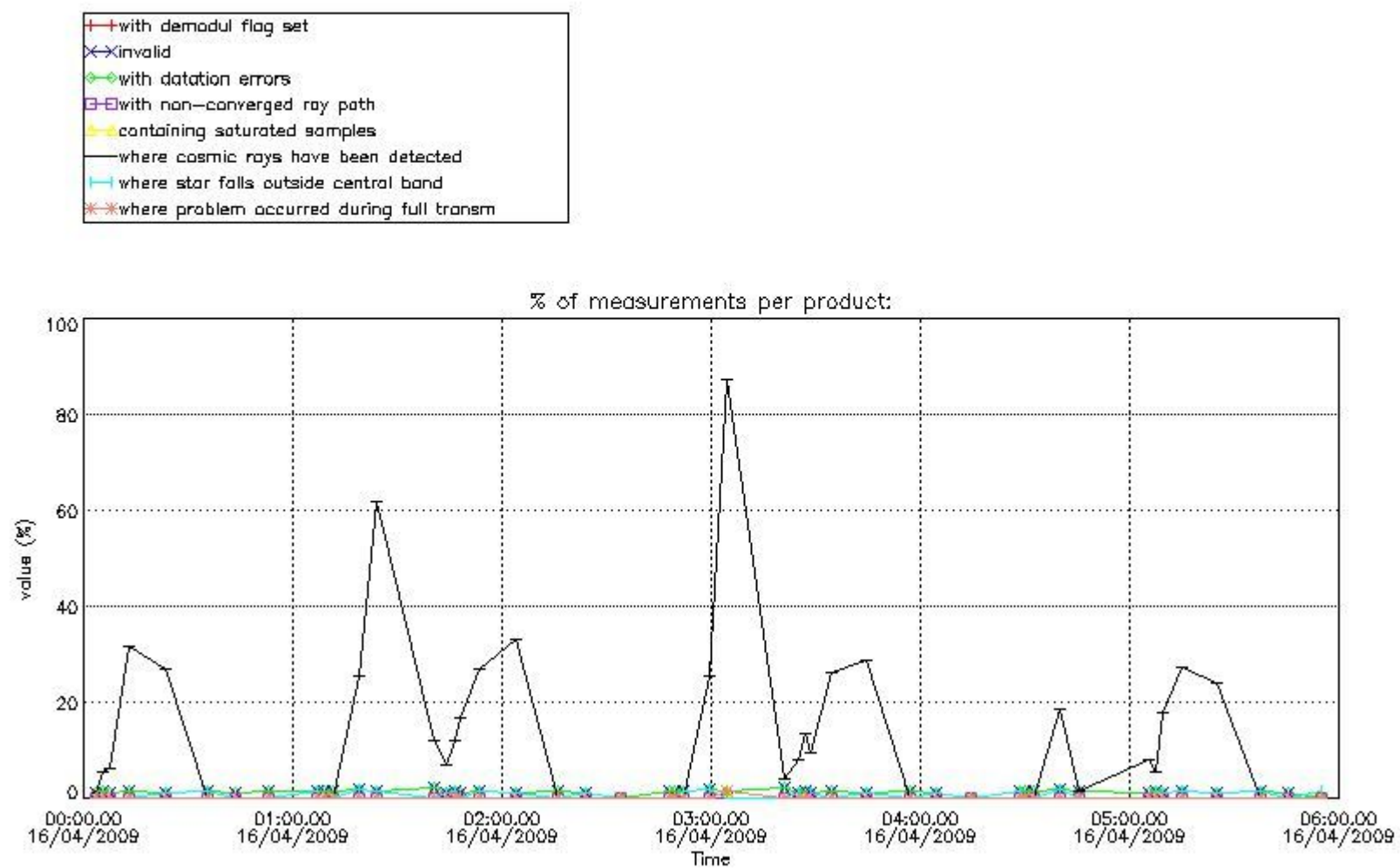
5. Demodulation flag and quality information monitoring

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.

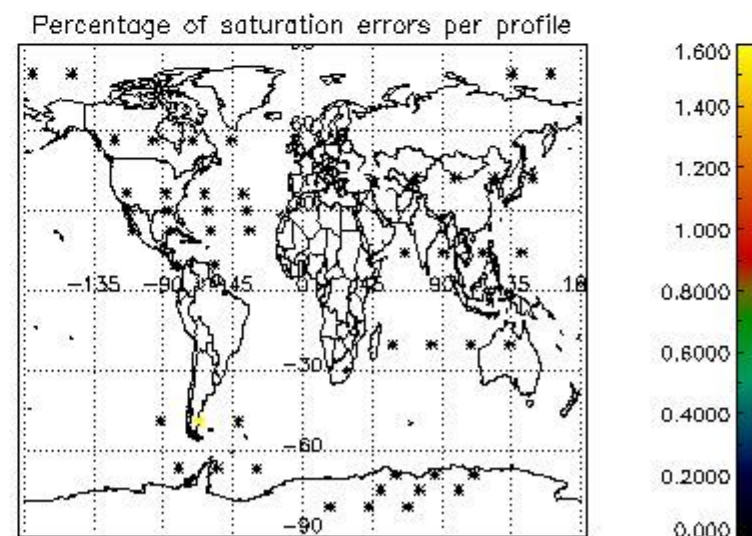
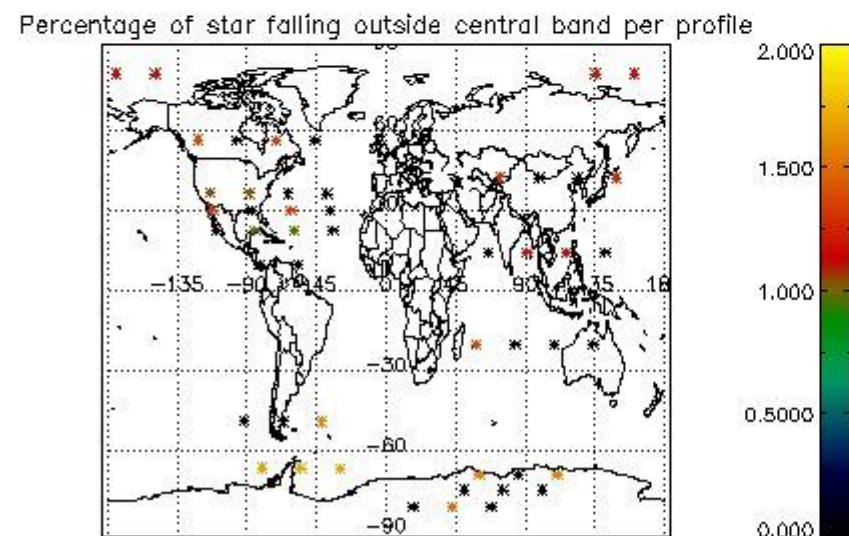
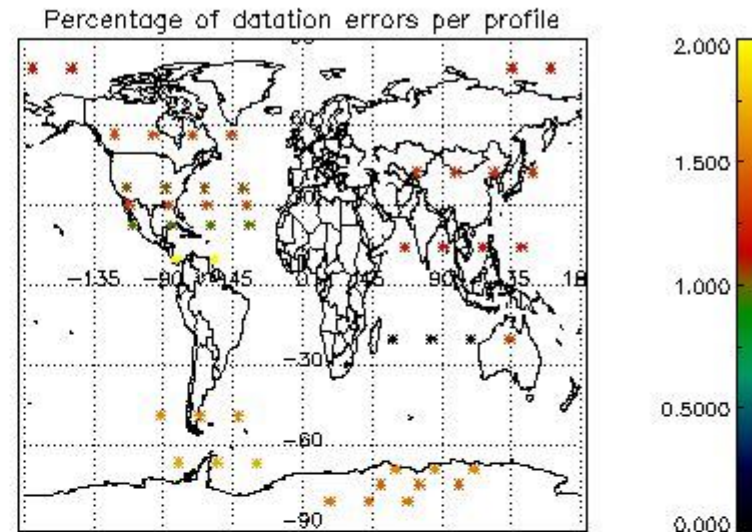
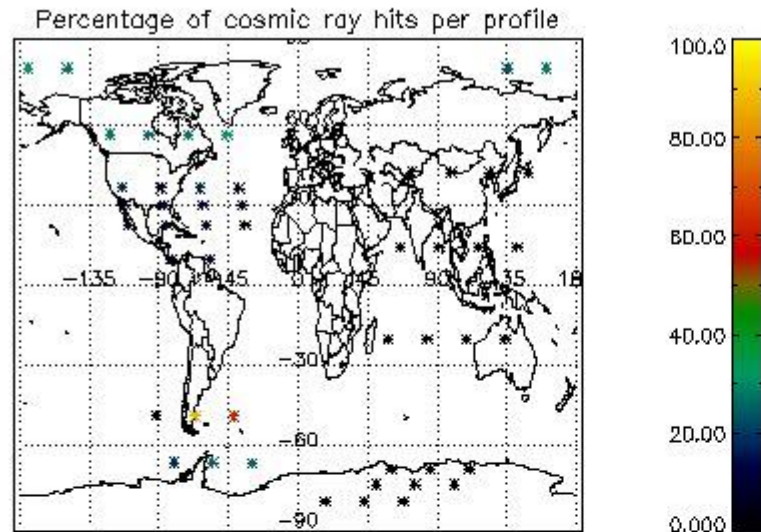
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.2449 %
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)



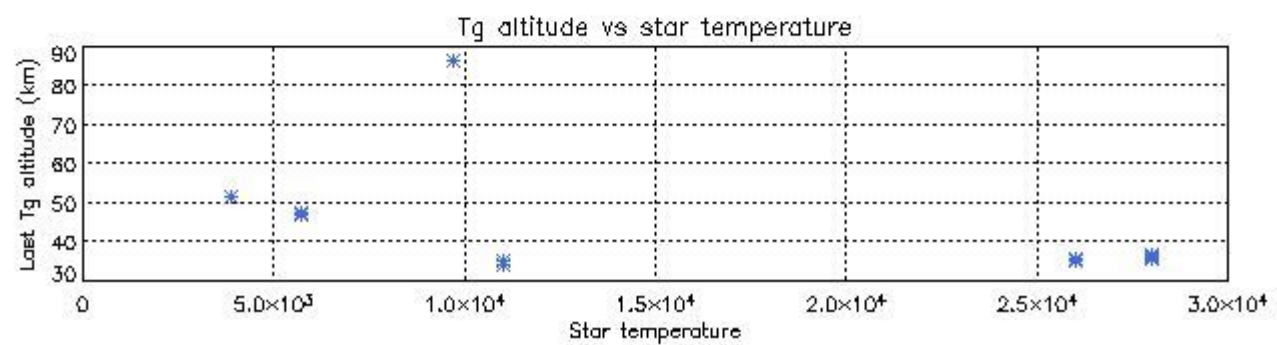
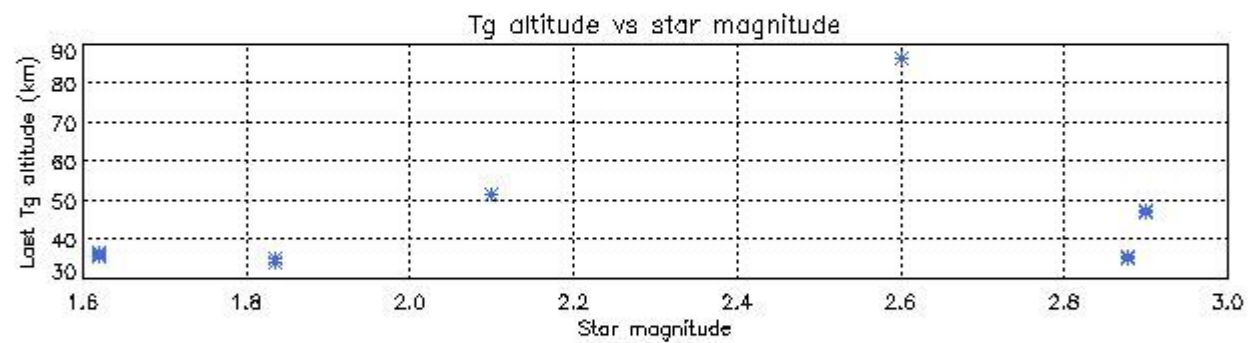
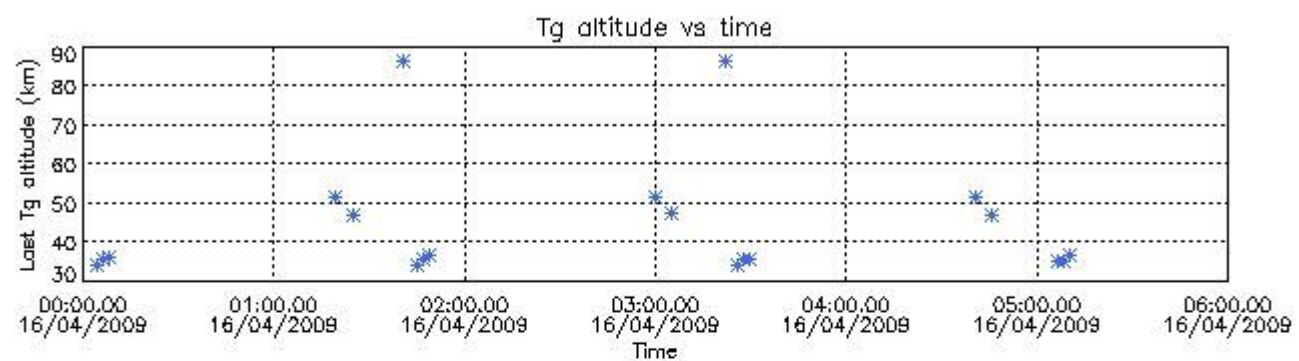
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	44.659	38.742	NaN
St. deviation:	15.702	3.2891	NaN
Maximum:	86.561	44.350	NaN
Minimum:	34.035	35.149	NaN
Number of data:	20.000	16.000	NaN

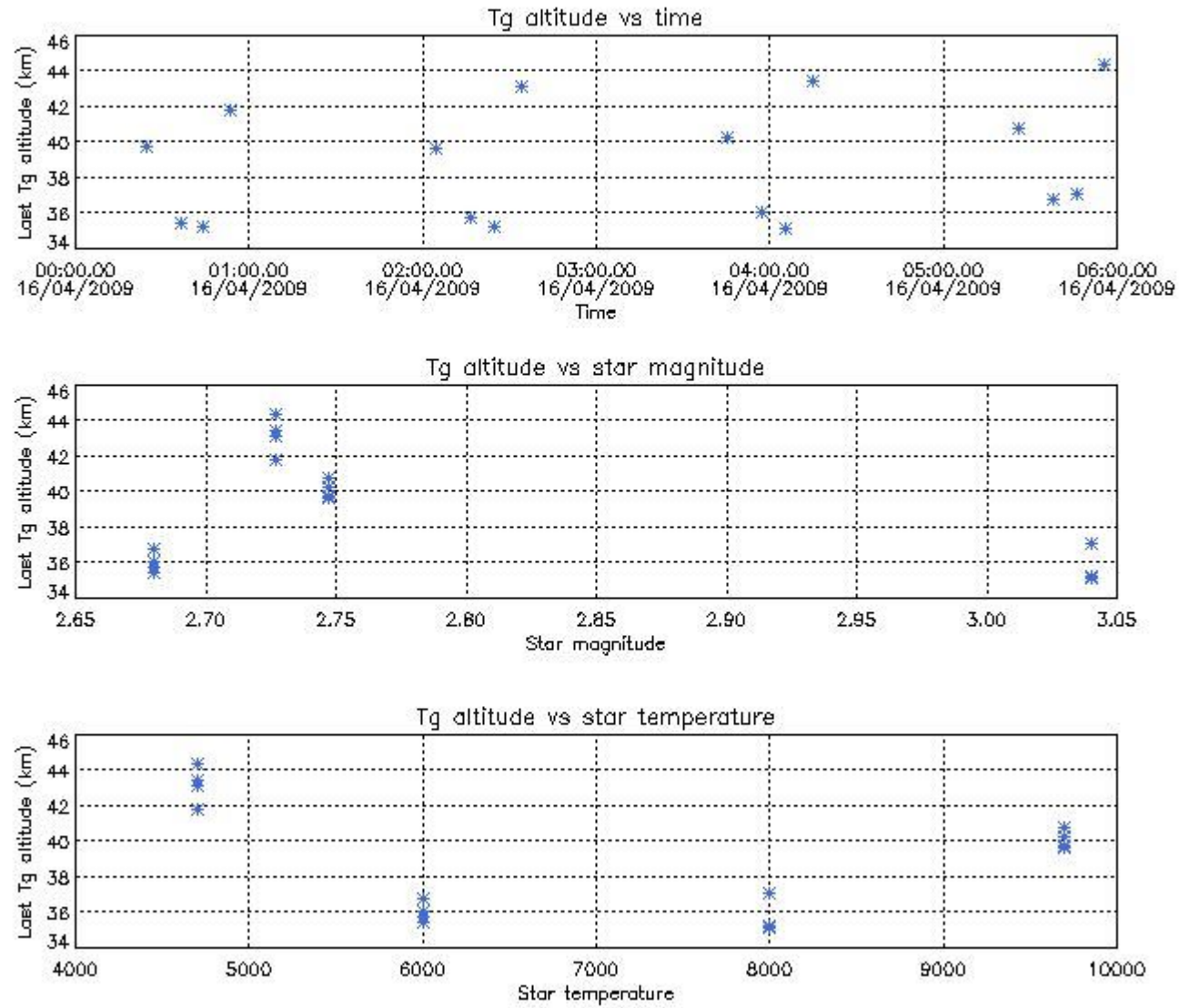
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

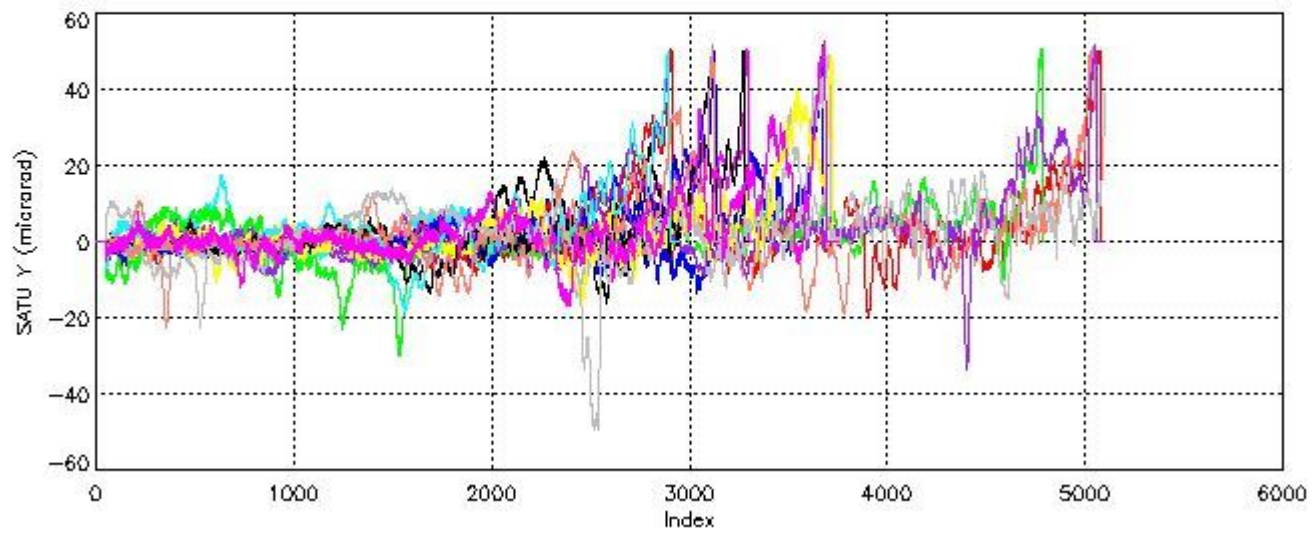
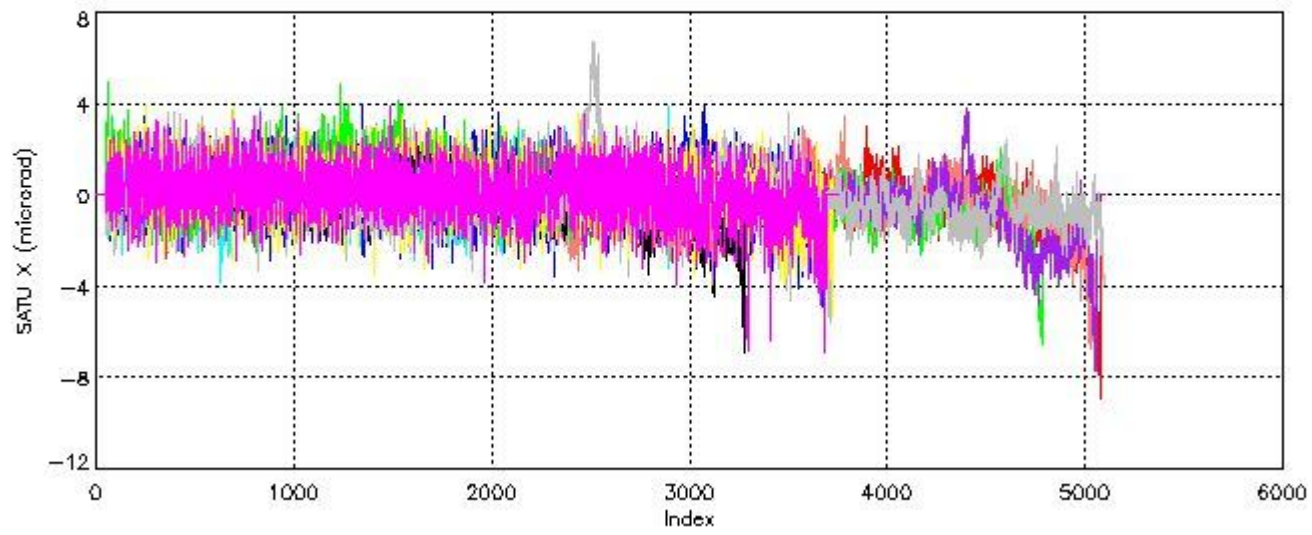


7. Star Acquisition and Tracking Unit (SATU)

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:	0.32431	-0.79724	0.40297	-0.81257
St. deviation:	0.69538	2.3665	1.0054	1.8302
Maximum:	4.9000	17.400	6.5000	9.2000
Minimum:	-3.8000	-23.300	-5.7000	-15.200

Number of data:	24750.	24750.	18500.	18500.
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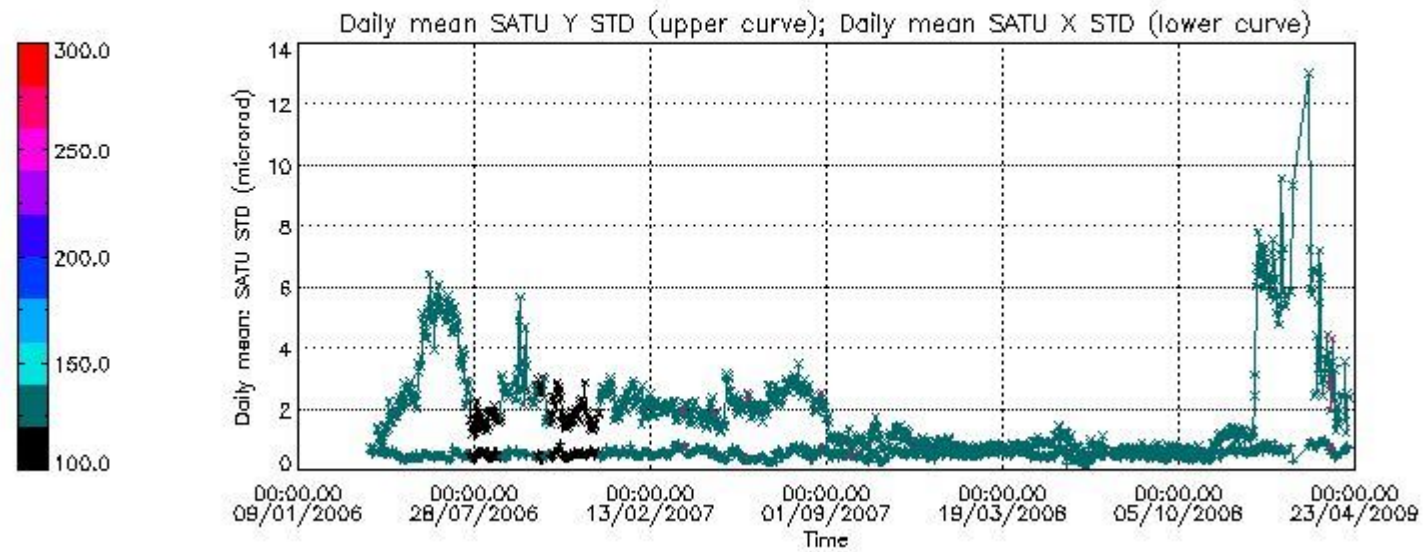
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

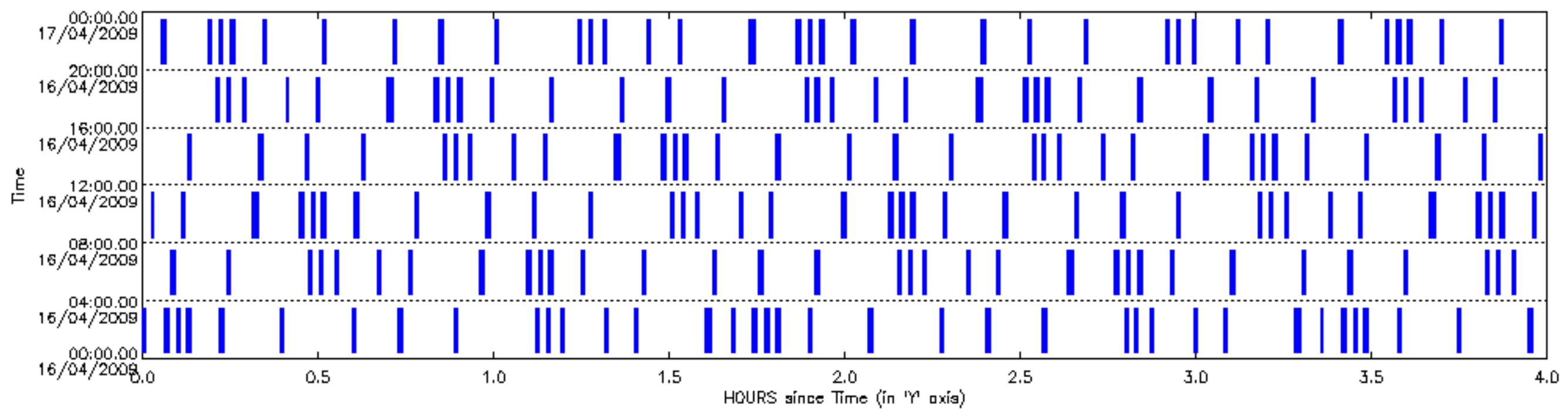
Lower curve: STD of SATU X axis

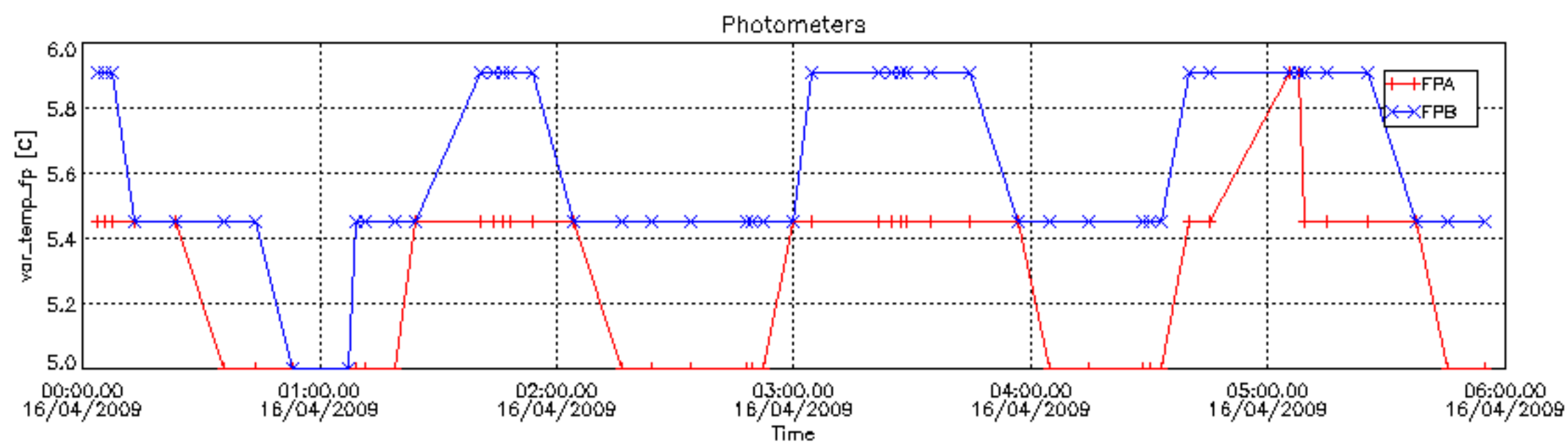
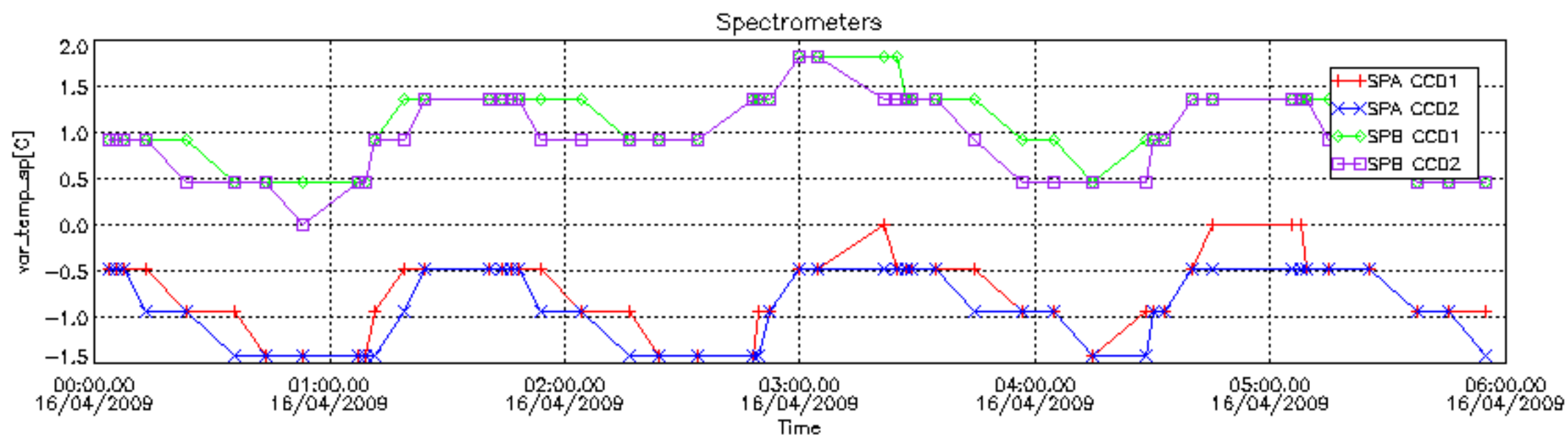


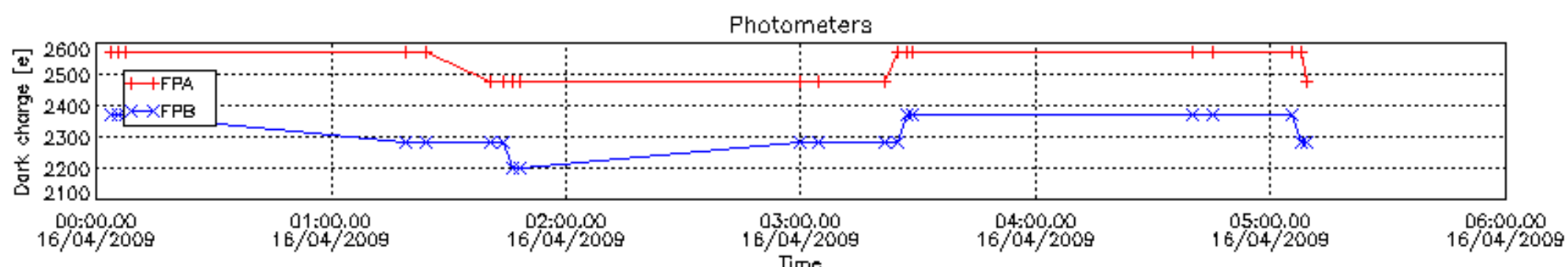
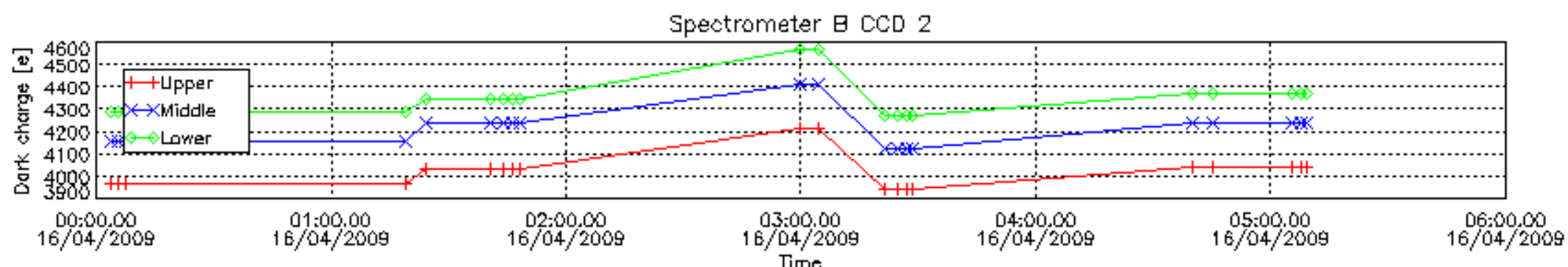
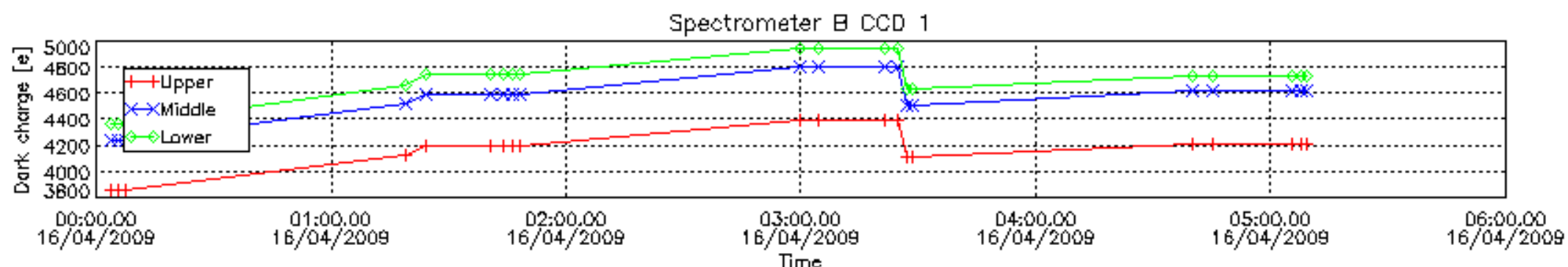
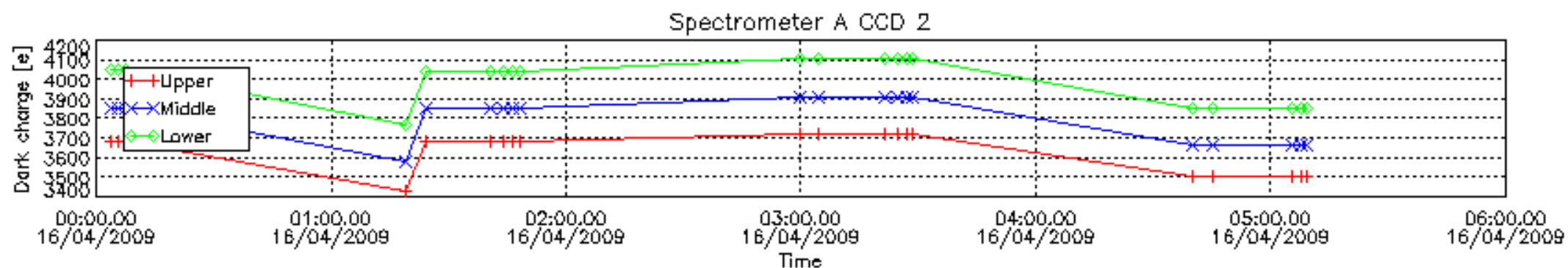
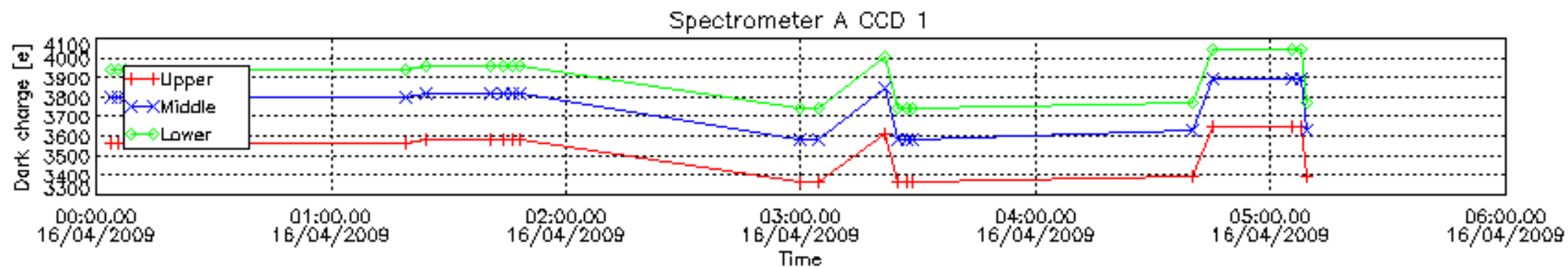
8. Auxiliary Data Files used for the production reported in section 2.4

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.

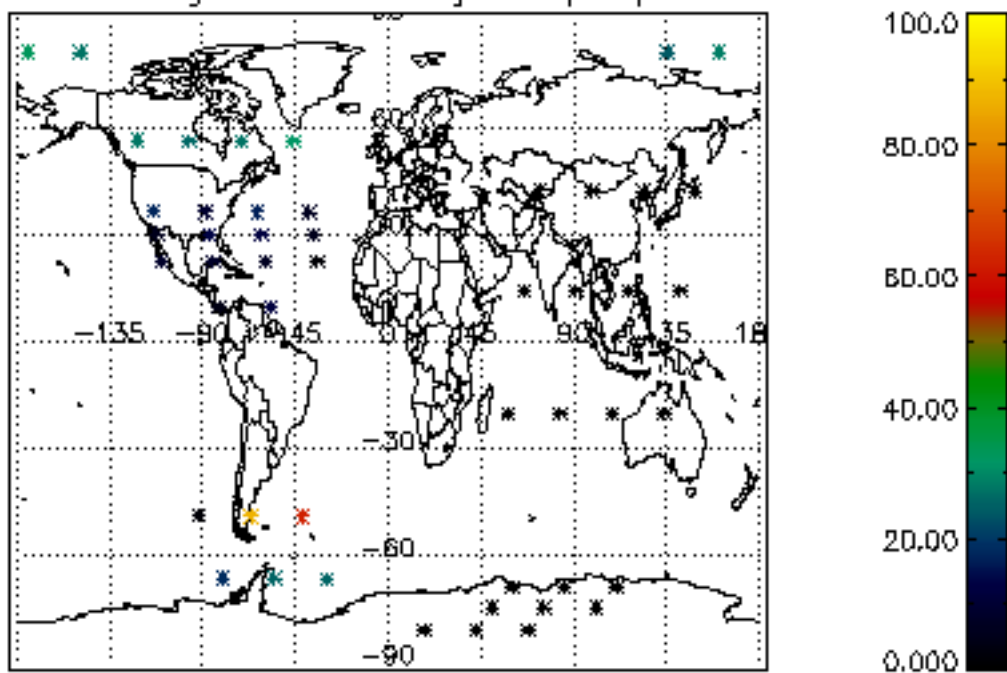
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	16-APR-2009 00:03:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090414_083029_20090412_000000_20100101_000000	1	16-APR-2009 00:03:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-APR-2009 00:03:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-APR-2009 00:03:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-APR-2009 00:03:32
ECMWF_FILE	AUX_ECF_AXNECM20090415_064111_20090415_210000_20090416_090000	1	16-APR-2009 00:03:32
ECMWF_FILE	AUX_ECF_AXNECM20090415_184111_20090416_030000_20090416_150000	37	16-APR-2009 04:28:22
OPTIONAL_ECMWF_FILE	MISSING	1	16-APR-2009 00:03:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090415_220016_000057382078_00129_37257_7758.N1	1	16-APR-2009 00:03:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090415_234113_000057382078_00130_37258_7759.N1	13	16-APR-2009 01:24:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090416_012210_000044632078_00131_37259_7760.N1	23	16-APR-2009 02:47:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090416_023633_000054192078_00132_37260_7761.N1	37	16-APR-2009 04:28:22



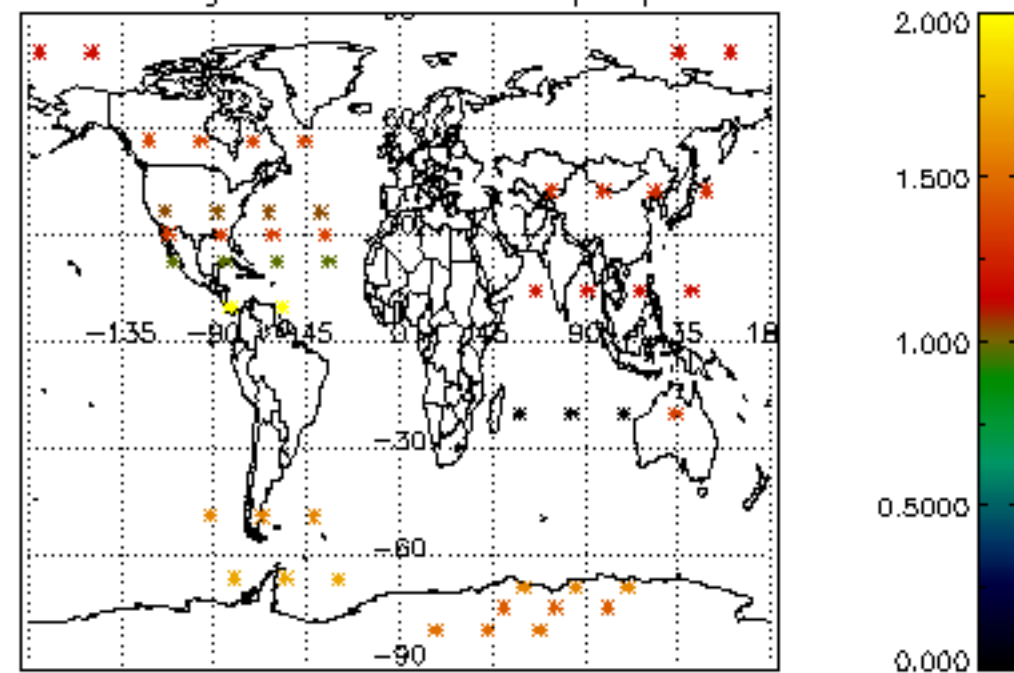




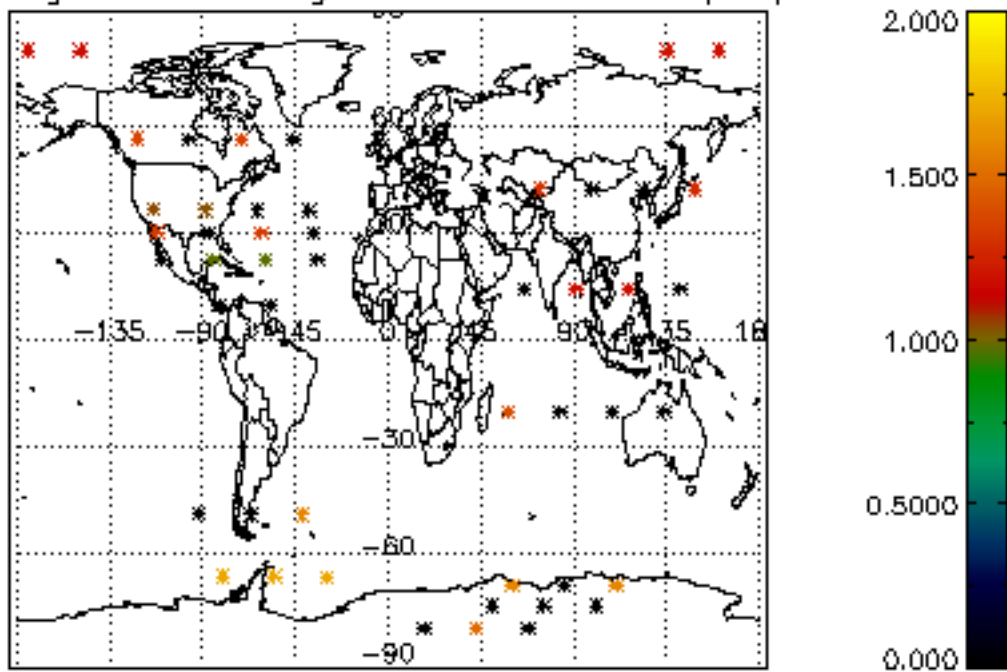
Percentage of cosmic ray hits per profile



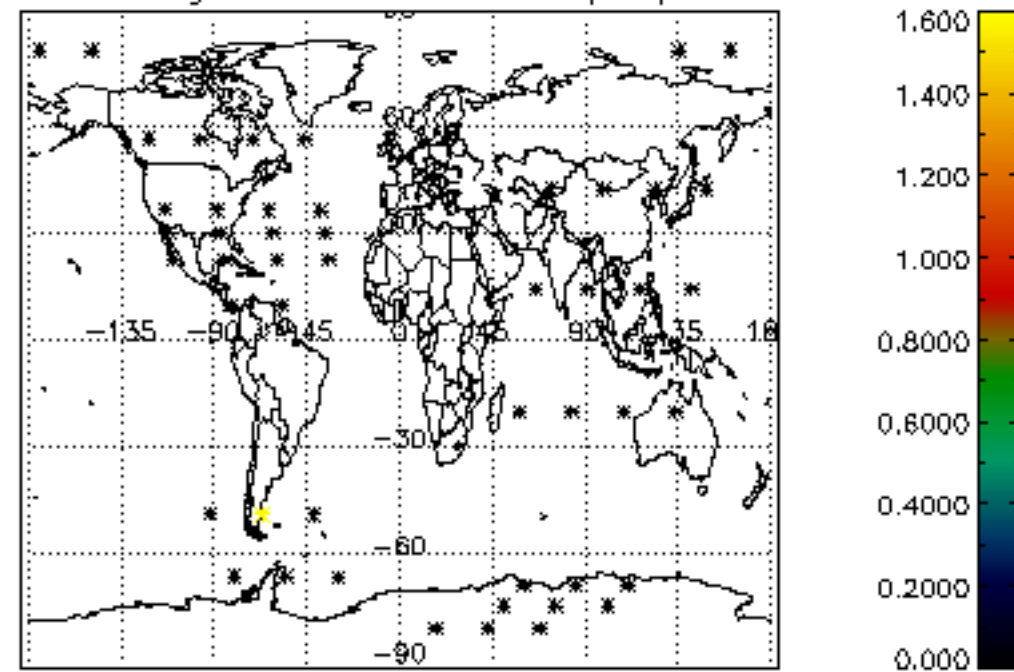
Percentage of datation errors per profile



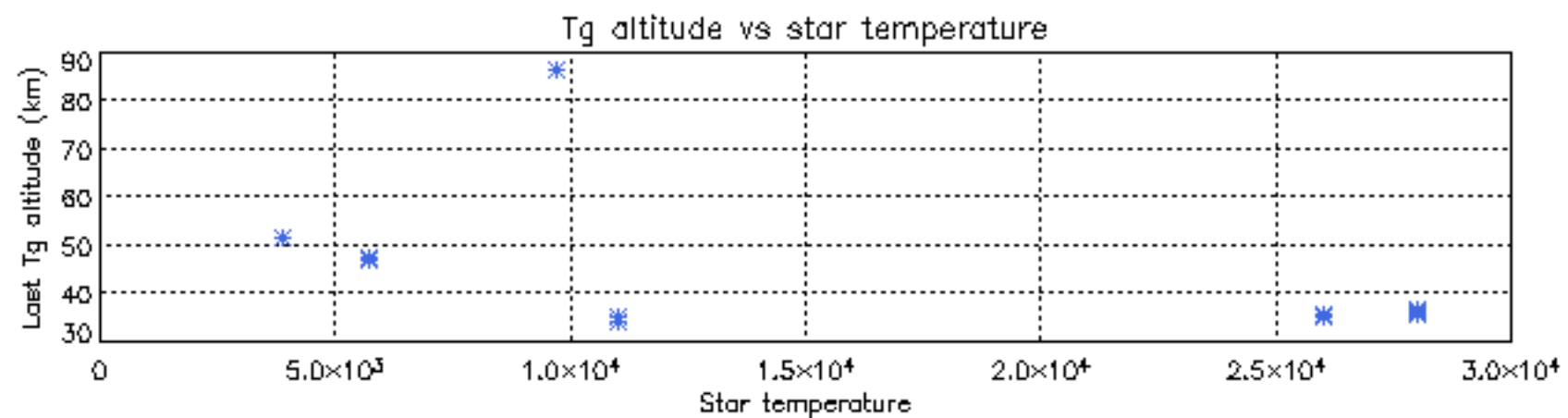
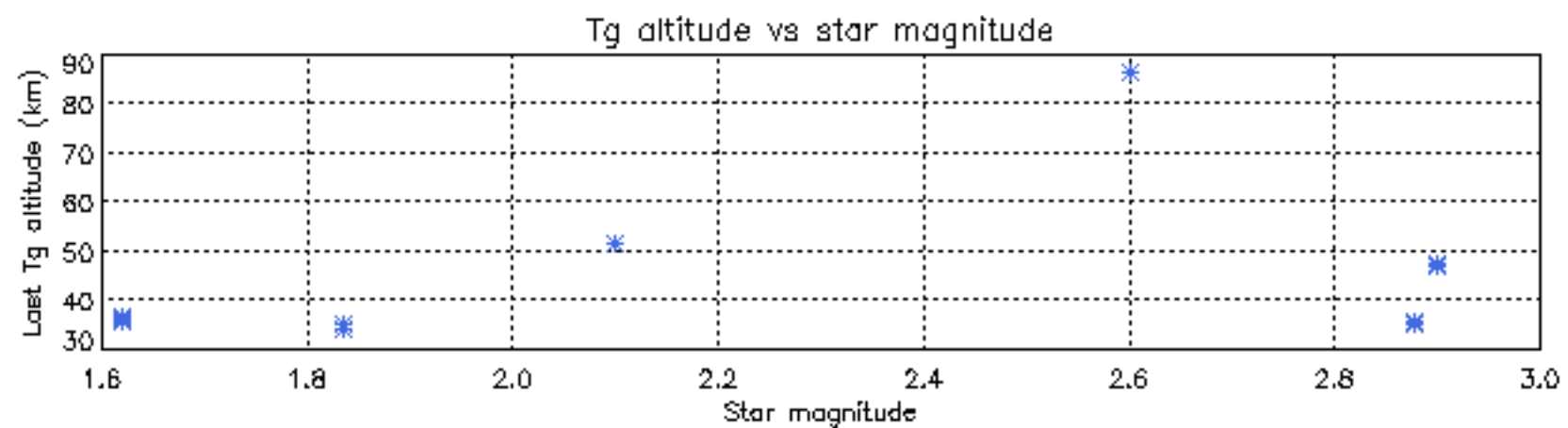
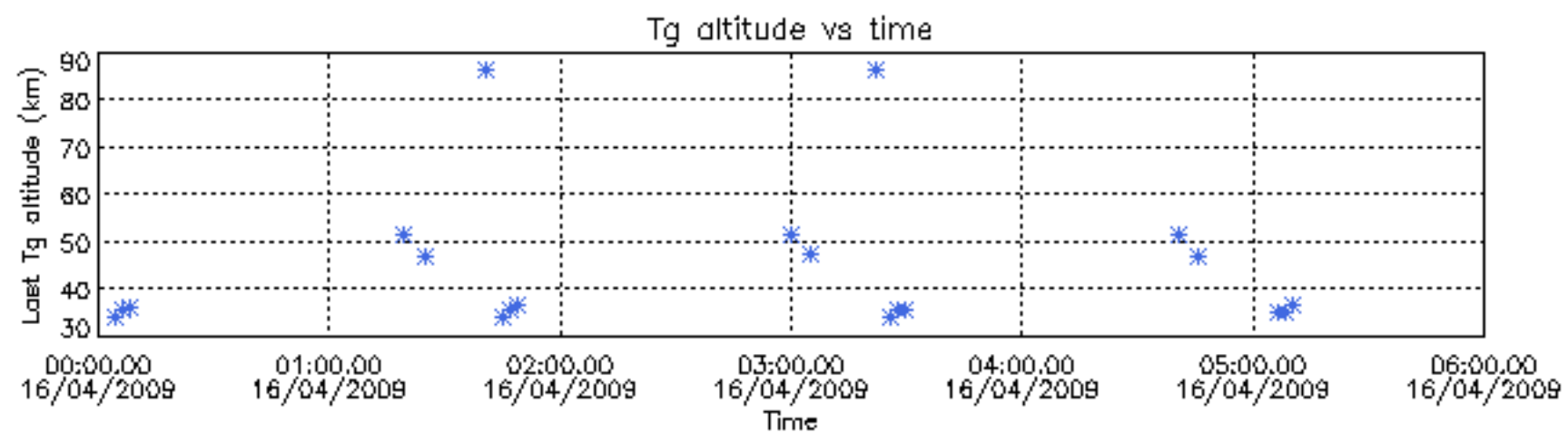
Percentage of star falling outside central band per profile



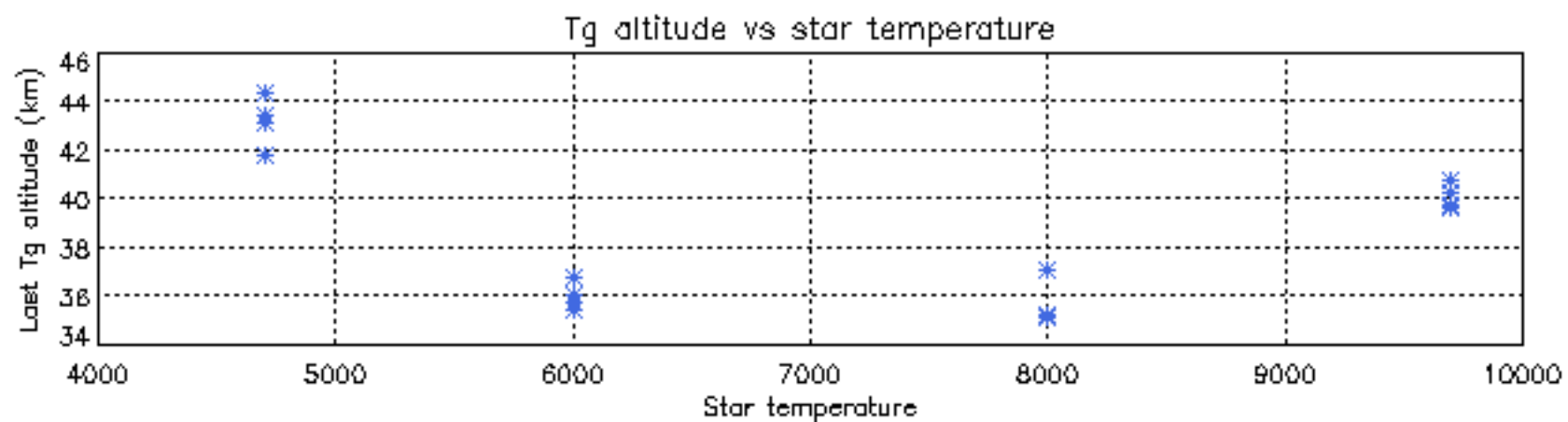
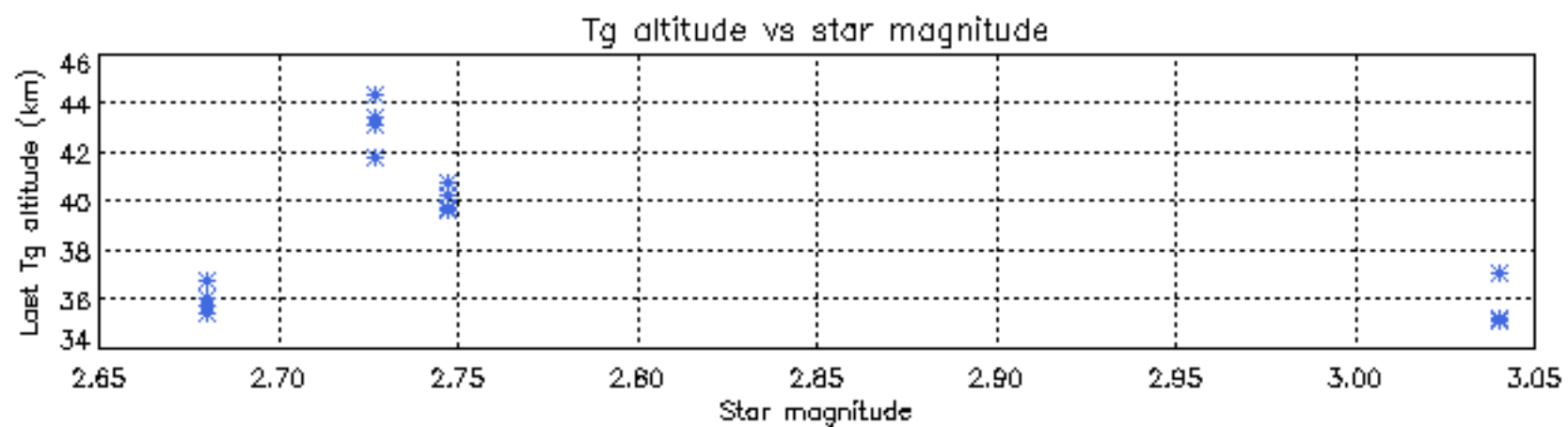
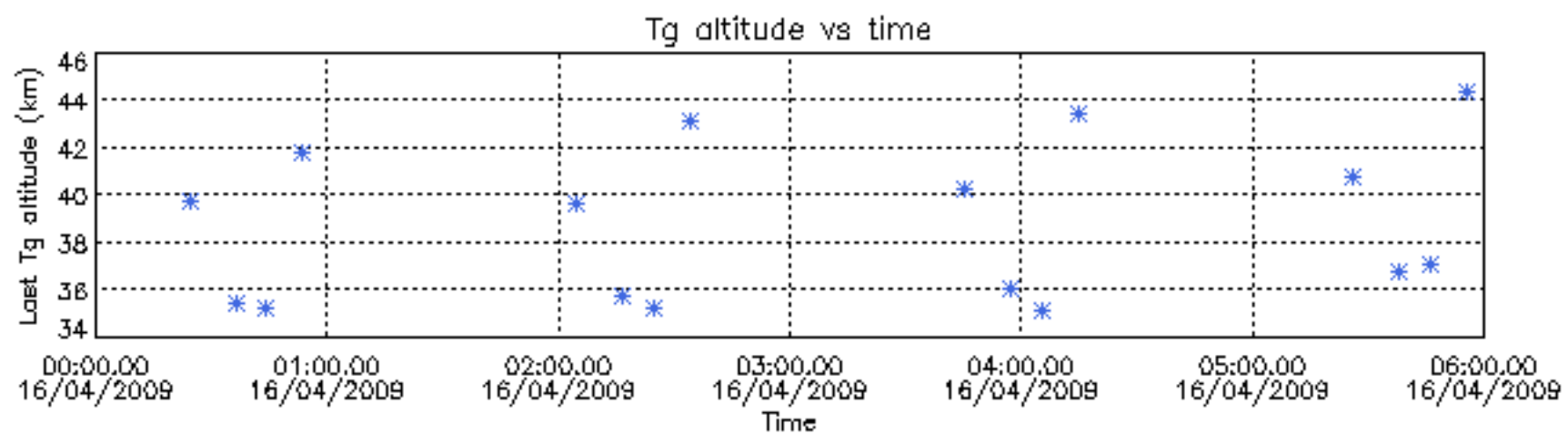
Percentage of saturation errors per profile

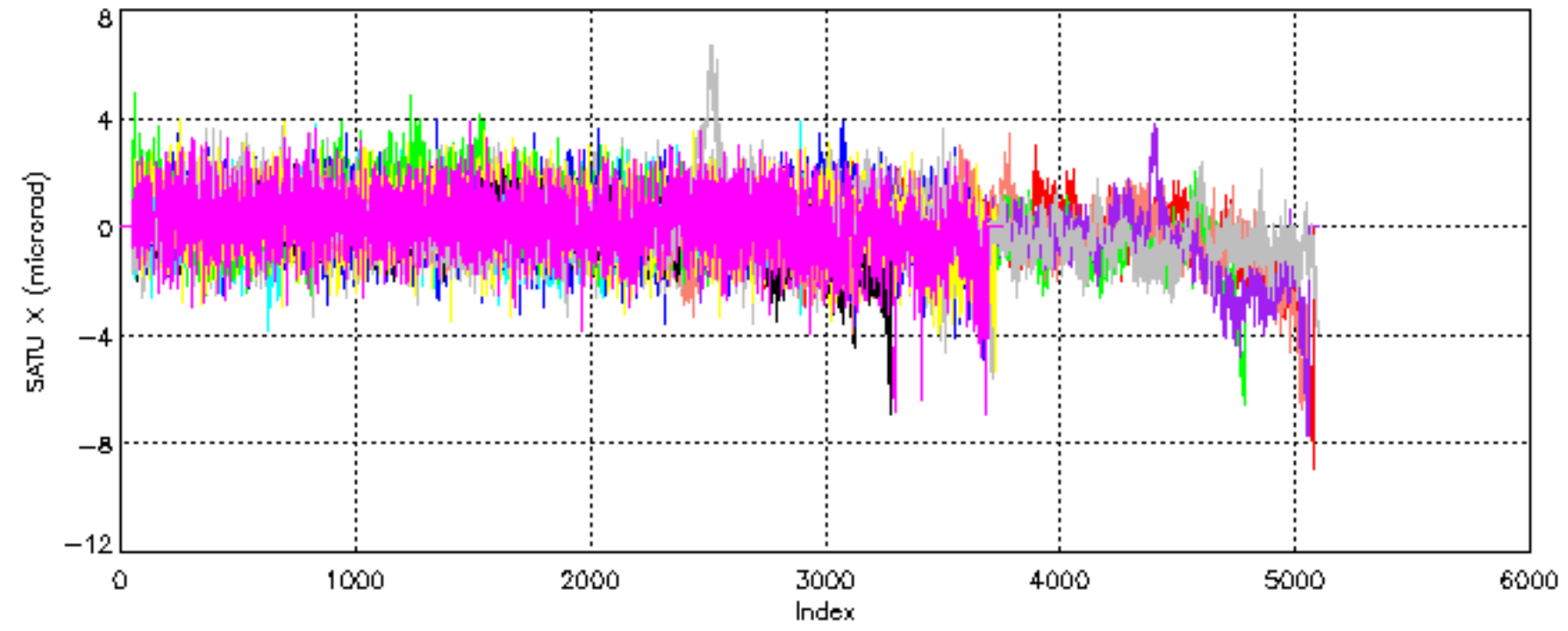


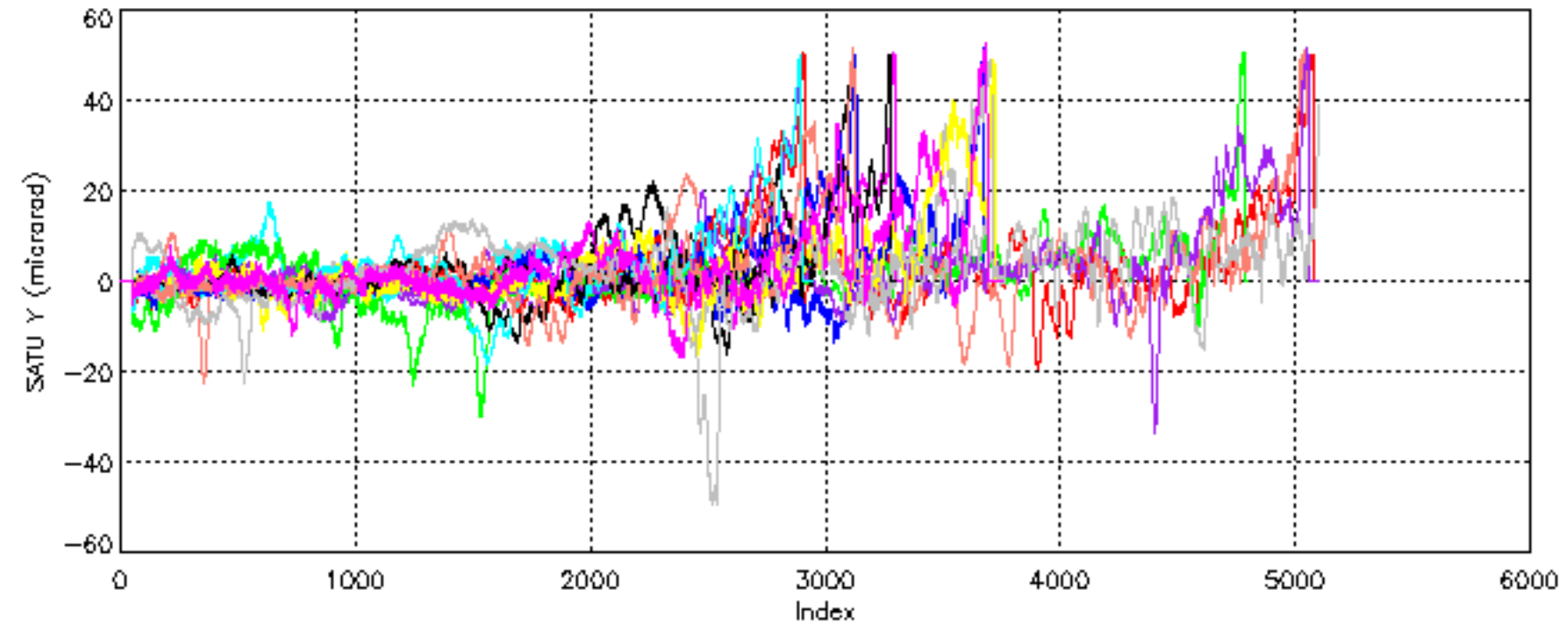
Tangent altitude at which the star is lost

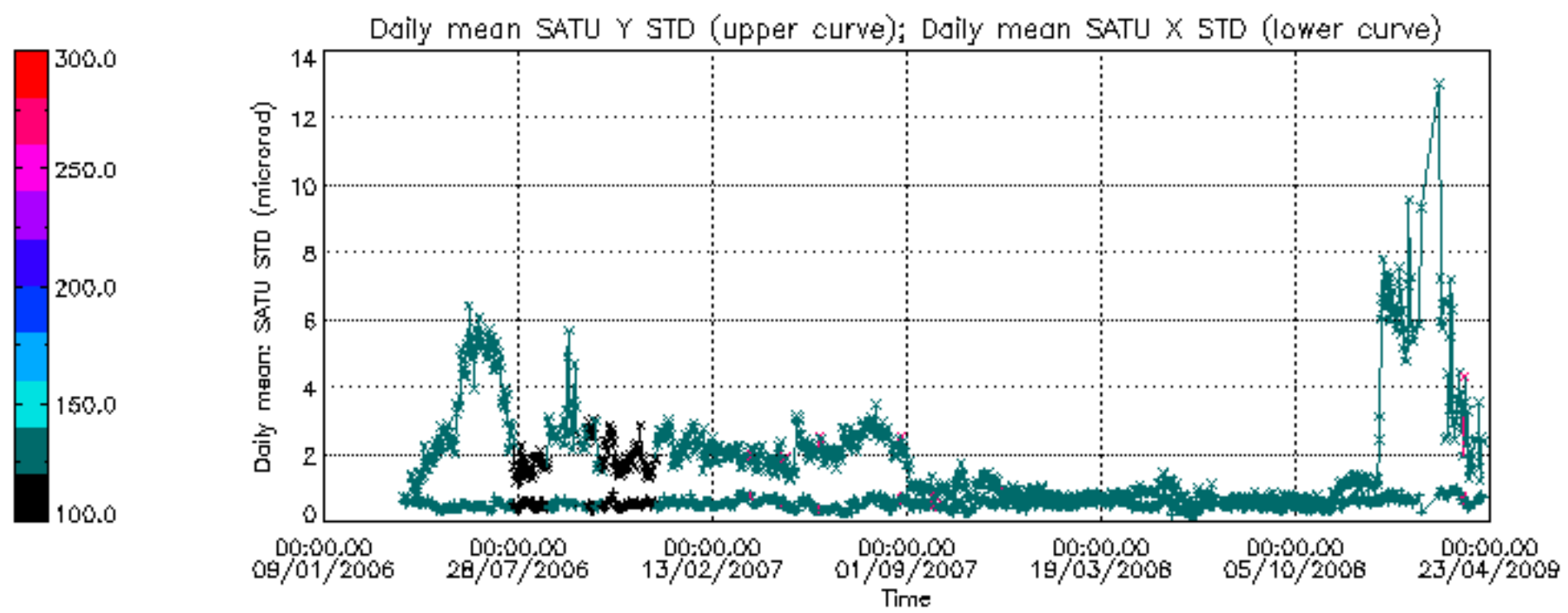


Tangent altitude at which the star is lost









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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
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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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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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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
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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
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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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2; -1723.0; 02-APR-2009 03:29:59; Bright; 45.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 91; 0;37060
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
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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
12; 1109.2; 02-APR-2009 04:17:11; Dark ; 48.0; 54; 5The Cen ; 2.06; 4500;occ; 96; 0;37061
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
15; 1881.7; 02-APR-2009 04:30:04; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;37061
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; -980.2; 02-APR-2009 05:22:58; Dark ; 66.5; 11; 53Alp Aql ; 0.76; 8000;occ; 133; 0;37061
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8; 92.8; 02-APR-2009 05:40:51; Dark ; 53.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 107; 0;37062
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5; 2693.6; 23-APR-2009 17:08:03; Bright; 45.5; 180; 27Gam Boo ; 3.04; 8000;occ; 91; 0;37369
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13; 6882.9; 30-APR-2009 12:55:58; Dark ; 63.5; 25; 35Lam Sco ; 1.62; 28000;occ; 127; 0;37466
14; 7072.1; 30-APR-2009 12:59:07; Dark ; 58.0; 75; 26Eps Sco ; 2.29; 4250;occ; 116; 0;37466
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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
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 9; 5028.2; 30-APR-2009 14:05:39; Dark ; 64.5; 61; 8Eps Peg ; 2.10; 3900;occ; 129; 0;37467
10; 5174.1; 30-APR-2009 14:08:05; Dark ; 50.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 101; 0;37467
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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13; 5175.8; 30-APR-2009 17:29:18; Dark ; 53.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 107; 0;37469
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