

GOMOS Daily Report 13-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	15APR2009 05:33:48
Data source version	GOMOS/5.00
Start time of products	13APR2009 00:00:46
Stop time of products	13APR2009 21:44:49
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

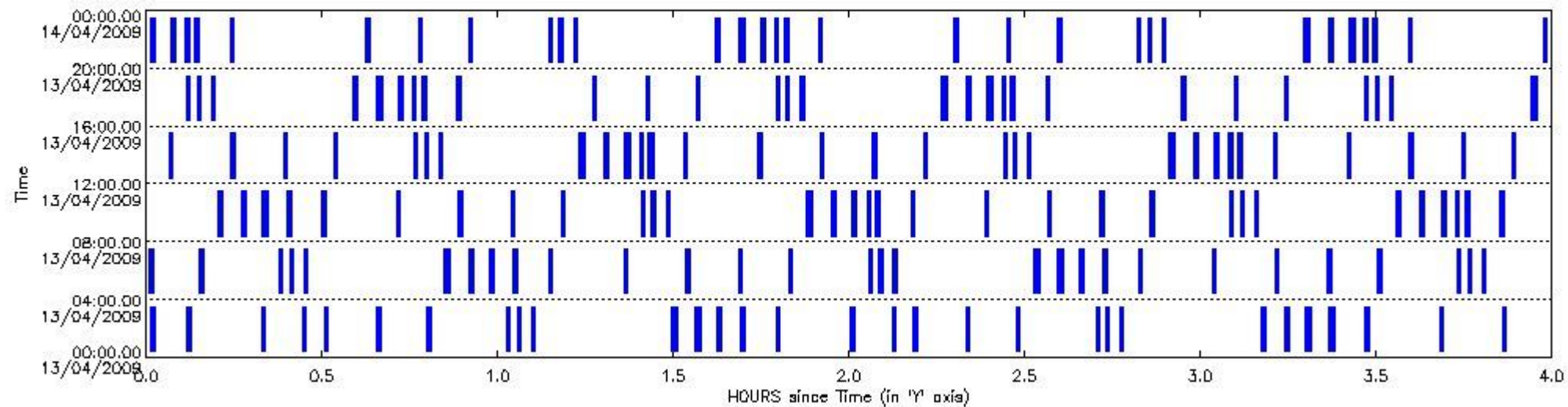
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

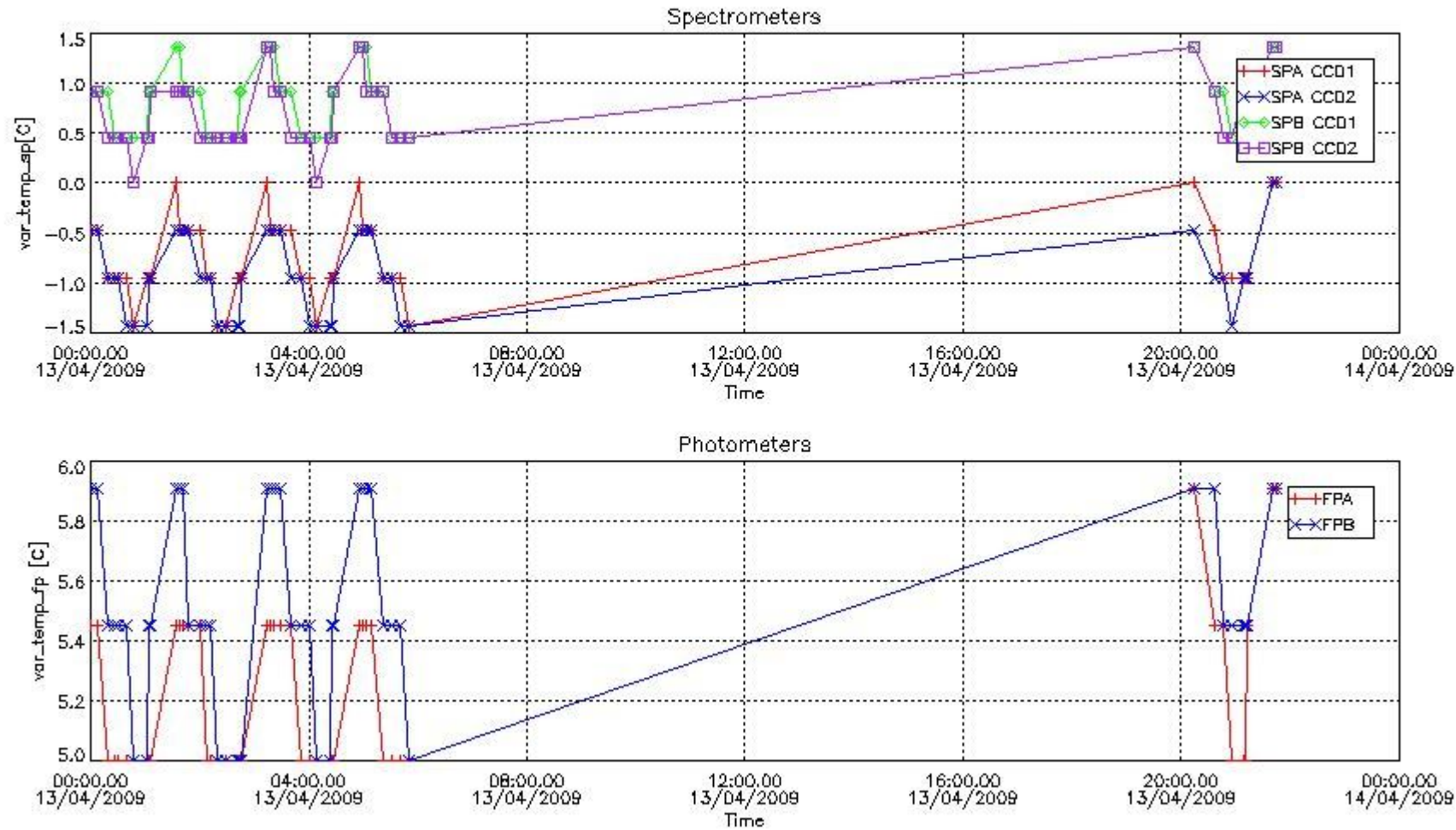
No missing products.

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_1PNPDE20090413_000046_000000522078_00088_37216_2021.N1	13-APR-2009 00:00:46	Dark	52.000	25	35Lam Sco	1.6200	28000.	104	37216	No
2	GOM_TRA_1PNPDE20090413_000654_000000412078_00088_37216_2022.N1	13-APR-2009 00:06:54	Straylight	40.500	131	Gam Lup	2.8000	26000.	81	37216	No
3	GOM_TRA_1PNPDE20090413_001941_000000362078_00088_37216_2023.N1	13-APR-2009 00:19:41	Bright	35.500	15	67Alp Vir	0.97600	28000.	71	37216	No
4	GOM_TRA_1PNPDE20090413_002639_000000362078_00088_37216_2024.N1	13-APR-2009 00:26:39	Bright	35.500	138	47Eps Vir	2.8280	4700.0	71	37216	No
5	GOM_TRA_1PNPDE20090413_003018_000000442078_00088_37216_2025.N1	13-APR-2009 00:30:18	Bright	44.000	111	8Eta Boo	2.6800	6000.0	88	37216	No
6	GOM_TRA_1PNPDE20090413_003919_000000382078_00088_37216_2026.N1	13-APR-2009 00:39:19	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	37216	No
7	GOM_TRA_1PNPDE20090413_004756_000000402078_00088_37216_2027.N1	13-APR-2009 00:47:56	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	37216	No
8	GOM_TRA_1PNPDE20090413_010131_000000332078_00088_37216_2028.N1	13-APR-2009 01:01:31	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	37216	No
9	GOM_TRA_1PNPDE20090413_010317_000000362078_00088_37216_2029.N1	13-APR-2009 01:03:17	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	37216	No
10	GOM_TRA_1PNPDE20090413_010542_000000342078_00088_37216_2030.N1	13-APR-2009 01:05:42	Bright	34.000	92	53Eps Cyg	2.5000	4500.0	68	37216	No
11	GOM_TRA_1PNPDE20090413_013343_000000532078_00089_37217_2167.N1	13-APR-2009 01:33:43	Dark	52.500	103	38Zet Sgr	2.6000	9700.0	105	37217	No
12	GOM_TRA_1PNPDE20090413_013720_000000532078_00089_37217_2168.N1	13-APR-2009 01:37:20	Dark	53.000	38	20Eps Sgr	1.8360	11000.	106	37217	No

13	GOM_TRA_1PNPDE20090413_014123_00000522078_00089_37217_2169.N1	13-APR-2009 01:41:23	Dark	51.500	25	35Lam Sco	1.6200	28000.	103	37217	No
14	GOM_TRA_1PNPDE20090413_014731_00000412078_00089_37217_2170.N1	13-APR-2009 01:47:31	Straylight	40.500	131	Gam Lup	2.8000	26000.	81	37217	No
15	GOM_TRA_1PNPDE20090413_020017_00000362078_00089_37217_2171.N1	13-APR-2009 02:00:17	Bright	35.500	15	67Alp Vir	0.97600	28000.	71	37217	No
16	GOM_TRA_1PNPDE20090413_020719_00000312078_00089_37217_2172.N1	13-APR-2009 02:07:19	Bright	31.000	138	47Eps Vir	2.8280	4700.0	62	37217	No
17	GOM_TRA_1PNPDE20090413_021053_00000442078_00089_37217_2173.N1	13-APR-2009 02:10:53	Bright	44.000	111	8Eta Boo	2.6800	6000.0	88	37217	No
18	GOM_TRA_1PNPDE20090413_021954_00000382078_00089_37217_2174.N1	13-APR-2009 02:19:54	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	37217	No
19	GOM_TRA_1PNPDE20090413_022832_00000402078_00089_37217_2175.N1	13-APR-2009 02:28:32	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	37217	No
20	GOM_TRA_1PNPDE20090413_024207_00000332078_00089_37217_2295.N1	13-APR-2009 02:42:07	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	37217	No
21	GOM_TRA_1PNPDE20090413_024352_00000362078_00089_37217_2296.N1	13-APR-2009 02:43:52	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	37217	No
22	GOM_TRA_1PNPDE20090413_024618_00000352078_00089_37217_2297.N1	13-APR-2009 02:46:18	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	37217	No
23	GOM_TRA_1PNPDE20090413_031420_00000532078_00090_37218_2298.N1	13-APR-2009 03:14:20	Dark	53.000	103	38Zet Sgr	2.6000	9700.0	106	37218	No
24	GOM_TRA_1PNPDE20090413_031757_00000532078_00090_37218_2299.N1	13-APR-2009 03:17:57	Dark	53.000	38	20Eps Sgr	1.8360	11000.	106	37218	No
25	GOM_TRA_1PNPDE20090413_032200_00000522078_00090_37218_2300.N1	13-APR-2009 03:22:00	Dark	51.500	25	35Lam Sco	1.6200	28000.	103	37218	No
26	GOM_TRA_1PNPDE20090413_032807_00000402078_00090_37218_2301.N1	13-APR-2009 03:28:07	Straylight	40.000	131	Gam Lup	2.8000	26000.	80	37218	No
27	GOM_TRA_1PNPDE20090413_034053_00000362078_00090_37218_2302.N1	13-APR-2009 03:40:53	Bright	35.500	15	67Alp Vir	0.97600	28000.	71	37218	No
28	GOM_TRA_1PNPDE20090413_035129_00000442078_00090_37218_2303.N1	13-APR-2009 03:51:29	Bright	44.000	111	8Eta Boo	2.6800	6000.0	88	37218	No
29	GOM_TRA_1PNPDE20090413_040030_00000382078_00090_37218_2304.N1	13-APR-2009 04:00:30	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	37218	No
30	GOM_TRA_1PNPDE20090413_040907_00000402078_00090_37218_2305.N1	13-APR-2009 04:09:07	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	37218	No
31	GOM_TRA_1PNPDE20090413_042243_00000332078_00090_37218_2477.N1	13-APR-2009 04:22:43	Bright	33.000	19	50Alp Cyg	1.2460	10500.	66	37218	No
32	GOM_TRA_1PNPDE20090413_042428_00000362078_00090_37218_2478.N1	13-APR-2009 04:24:28	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	37218	No
33	GOM_TRA_1PNPDE20090413_042655_00000342078_00090_37218_2479.N1	13-APR-2009 04:26:55	Bright	34.000	92	53Eps Cyg	2.5000	4500.0	68	37218	No
34	GOM_TRA_1PNPDE20090413_045458_00000542078_00091_37219_2480.N1	13-APR-2009 04:54:58	Dark	53.500	103	38Zet Sgr	2.6000	9700.0	107	37219	No
35	GOM_TRA_1PNPDE20090413_045835_00000532078_00091_37219_2481.N1	13-APR-2009 04:58:35	Dark	53.000	38	20Eps Sgr	1.8360	11000.	106	37219	No
36	GOM_TRA_1PNPDE20090413_050237_00000522078_00091_37219_2482.N1	13-APR-2009 05:02:37	Dark	51.500	25	35Lam Sco	1.6200	28000.	103	37219	No
37	GOM_TRA_1PNPDE20090413_050844_00000402078_00091_37219_2483.N1	13-APR-2009 05:08:44	Straylight	40.000	131	Gam Lup	2.8000	26000.	80	37219	No
38	GOM_TRA_1PNPDE20090413_052129_00000352078_00091_37219_2484.N1	13-APR-2009 05:21:29	Bright	35.000	15	67Alp Vir	0.97600	28000.	70	37219	No
39	GOM_TRA_1PNPDE20090413_053204_00000442078_00091_37219_2485.N1	13-APR-2009 05:32:04	Bright	44.000	111	8Eta Boo	2.6800	6000.0	88	37219	No
40	GOM_TRA_1PNPDE20090413_054105_00000382078_00091_37219_2486.N1	13-APR-2009 05:41:05	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	37219	No
41	GOM_TRA_1PNPDE20090413_054942_00000402078_00091_37219_2487.N1	13-APR-2009 05:49:42	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	37219	No
42	GOM_TRA_1PNPDE20090413_201414_00000392078_00100_37228_3026.N1	13-APR-2009 20:14:14	Straylight	39.000	131	Gam Lup	2.8000	26000.	78	37228	No
43	GOM_TRA_1PNPDE20090413_203722_00000432078_00100_37228_3027.N1	13-APR-2009 20:37:22	Bright	42.500	111	8Eta Boo	2.6800	6000.0	85	37228	No
44	GOM_TRA_1PNPDE20090413_204624_00000382078_00100_37228_3028.N1	13-APR-2009 20:46:24	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	37228	No
45	GOM_TRA_1PNPDE20090413_205459_00000392078_00100_37228_3029.N1	13-APR-2009 20:54:59	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	37228	No
46	GOM_TRA_1PNPDE20090413_210841_00000332078_00100_37228_3030.N1	13-APR-2009 21:08:41	Bright	32.500	19	50Alp Cyg	1.2460	10500.	65	37228	No
47	GOM_TRA_1PNPDE20090413_211027_00000362078_00100_37228_3031.N1	13-APR-2009 21:10:27	Tw_i_and_stray	35.500	66	37Gam Cyg	2.2080	5900.0	71	37228	No
48	GOM_TRA_1PNPDE20090413_211255_00000342078_00100_37228_3032.N1	13-APR-2009 21:12:55	Tw_i_and_stray	33.500	92	53Eps Cyg	2.5000	4500.0	67	37228	No
49	GOM_TRA_1PNPDE20090413_214113_00000532078_00101_37229_3181.N1	13-APR-2009 21:41:13	Dark	53.000	103	38Zet Sgr	2.6000	9700.0	106	37229	No
50	GOM_TRA_1PNPDE20090413_214449_00000532078_00101_37229_3182.N1	13-APR-2009 21:44:49	Dark	52.500	38	20Eps Sgr	1.8360	11000.	105	37229	No

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



4. Overview of dark signal processing per product

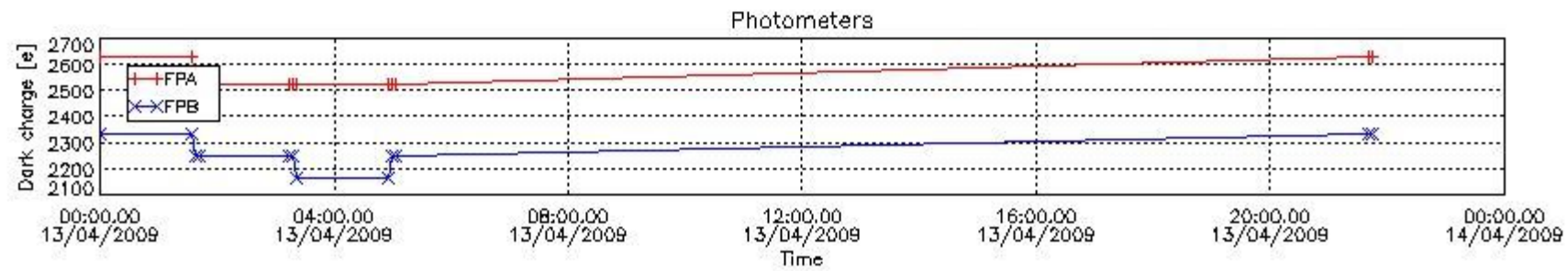
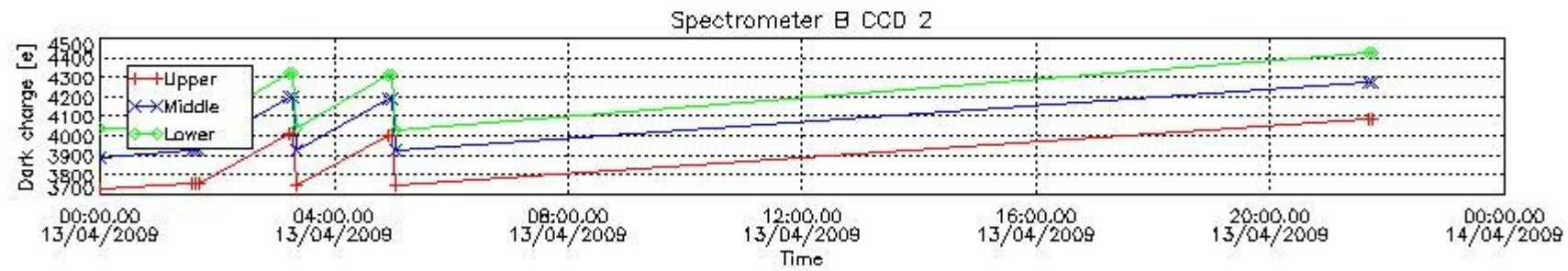
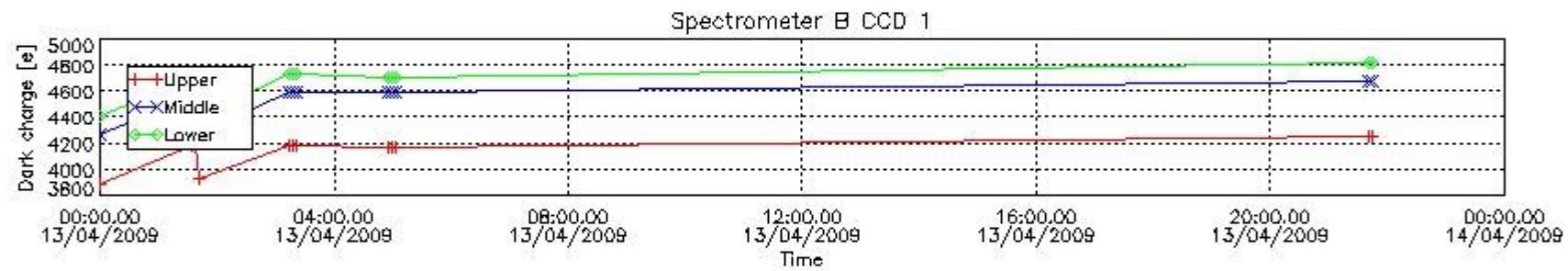
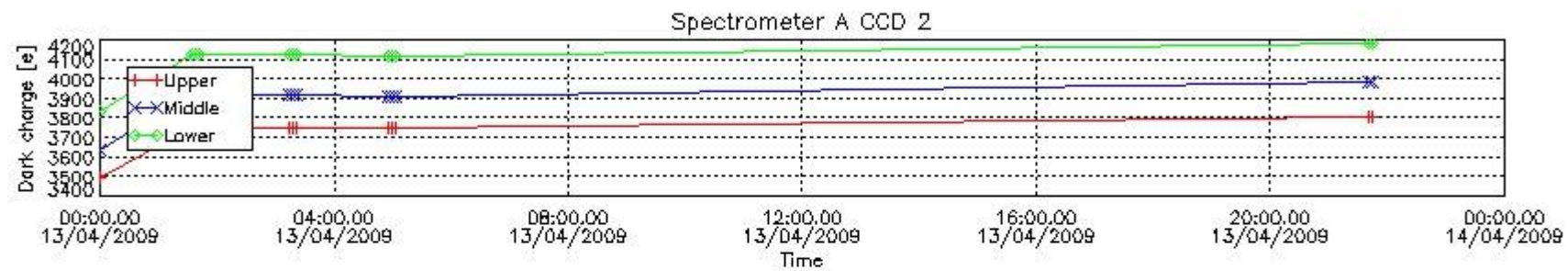
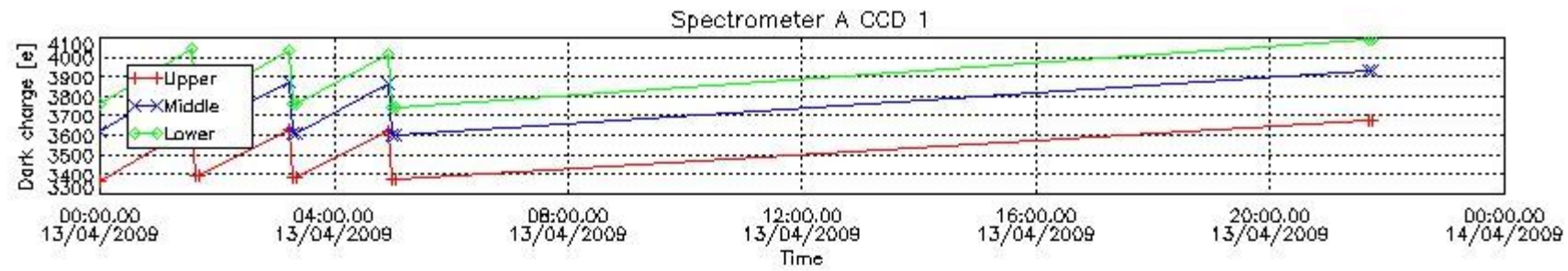
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090413_201414_000000392078_00100_37228_3026.N1	DC map used
GOM_TRA_1PNPDE20090413_203722_000000432078_00100_37228_3027.N1	DC map used
GOM_TRA_1PNPDE20090413_204624_000000382078_00100_37228_3028.N1	DC map used
GOM_TRA_1PNPDE20090413_205459_000000392078_00100_37228_3029.N1	DC map used
GOM_TRA_1PNPDE20090413_210841_000000332078_00100_37228_3030.N1	DC map used
GOM_TRA_1PNPDE20090413_211027_000000362078_00100_37228_3031.N1	DC map used
GOM_TRA_1PNPDE20090413_211255_000000342078_00100_37228_3032.N1	DC map used

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



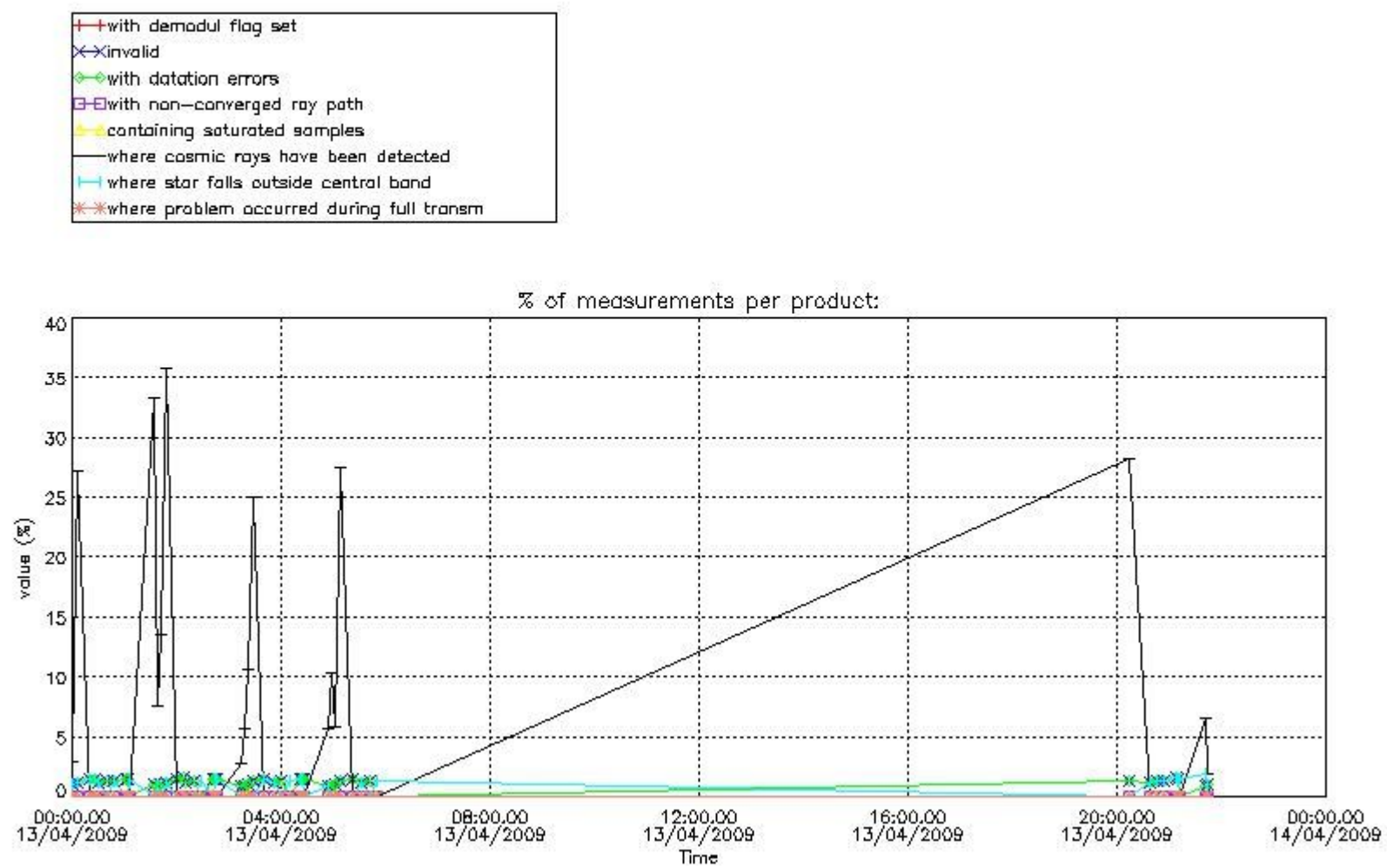
5. Demodulation flag and quality information monitoring

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.

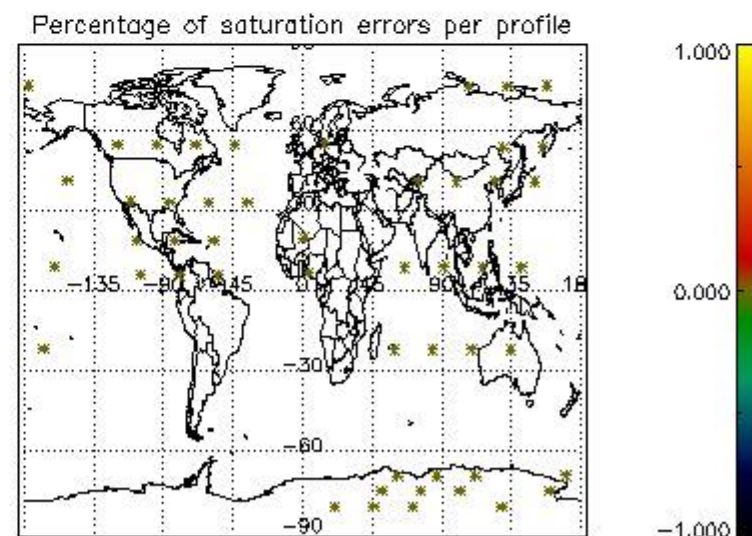
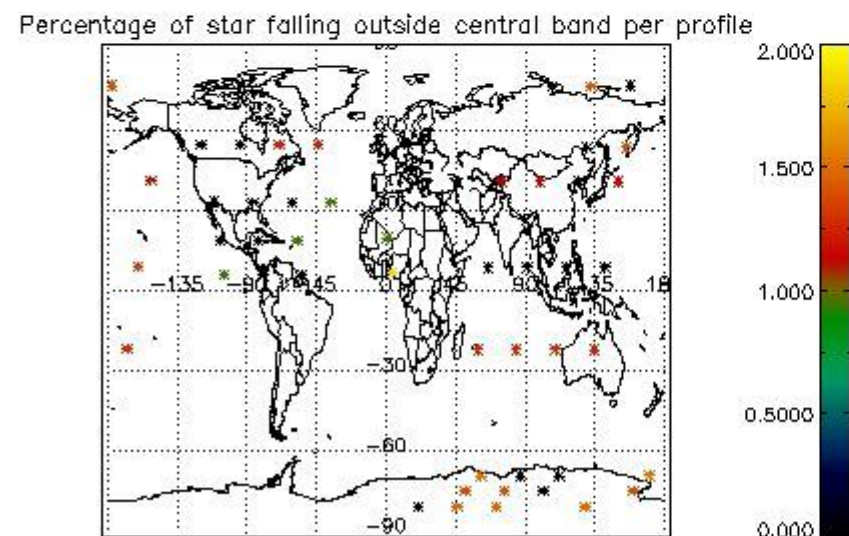
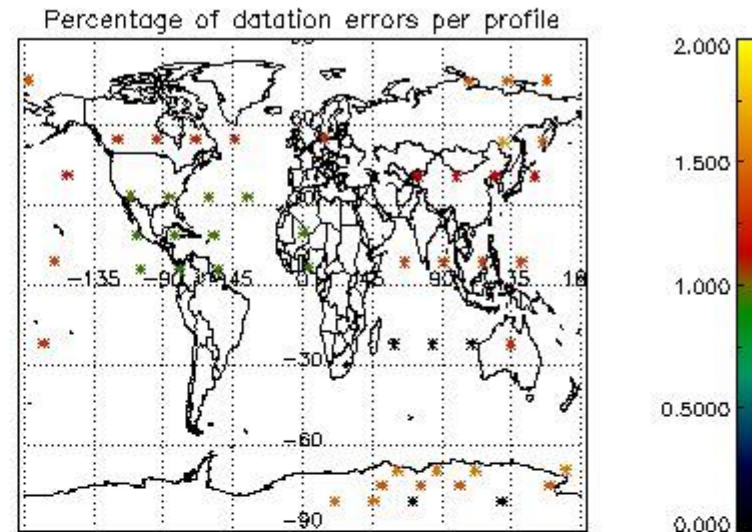
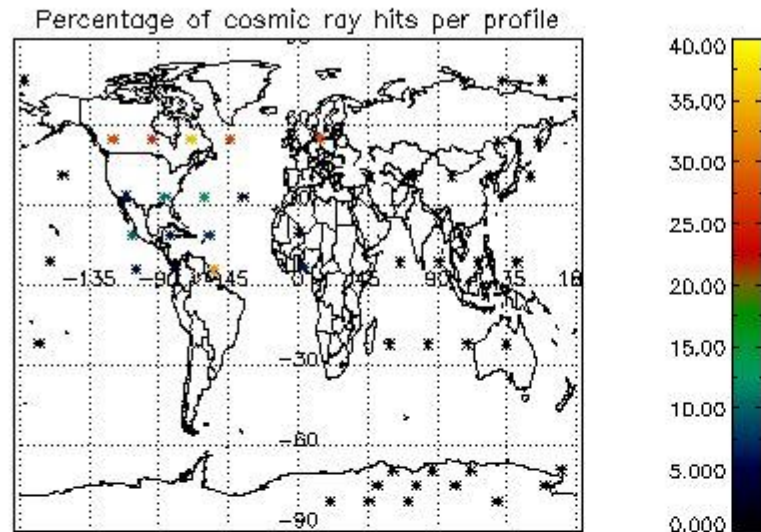
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.0000 %
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)



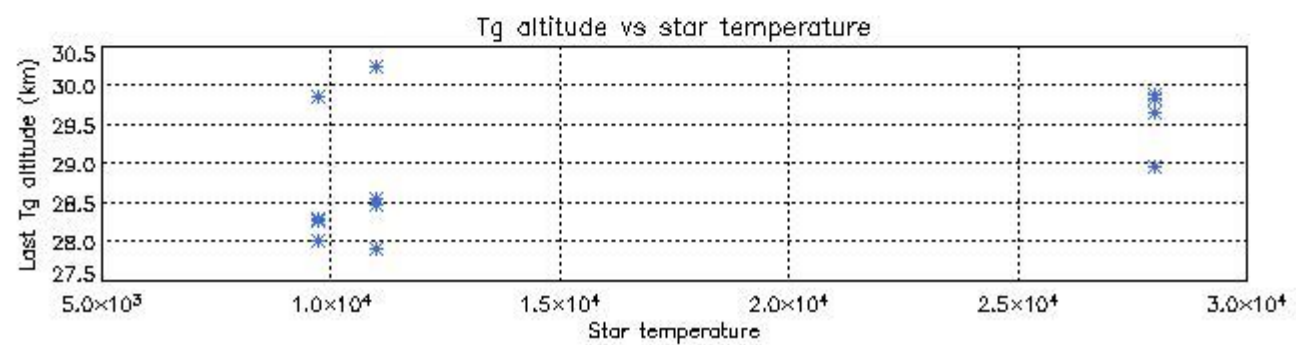
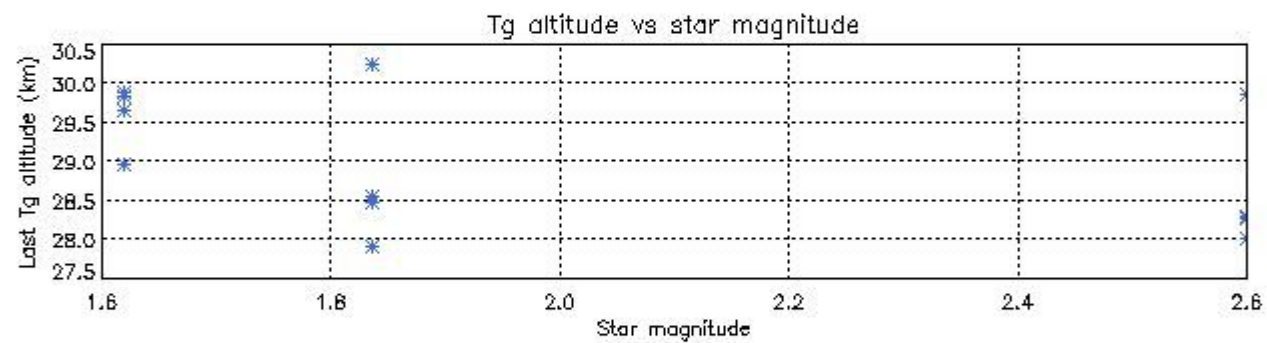
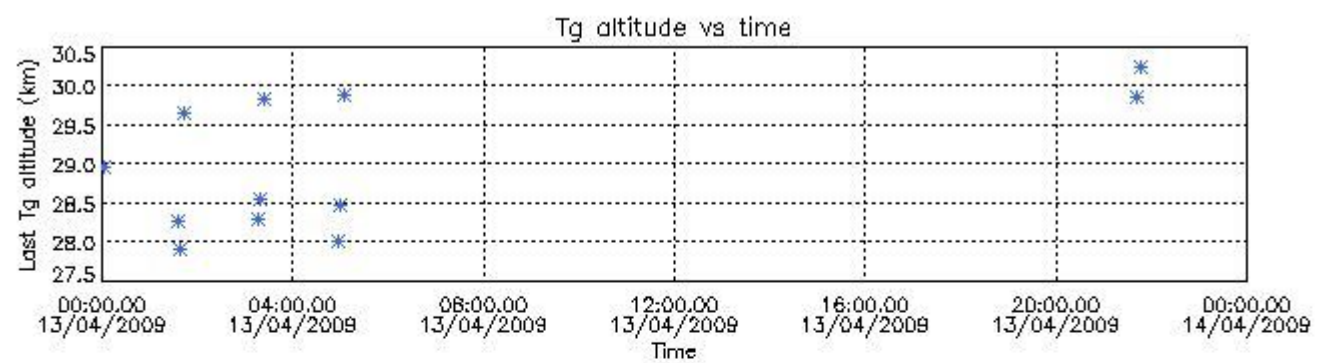
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	28.997	37.597	NaN
St. deviation:	0.84512	8.3498	NaN
Maximum:	30.252	50.105	NaN
Minimum:	27.905	29.126	NaN
Number of data:	12.000	31.000	NaN

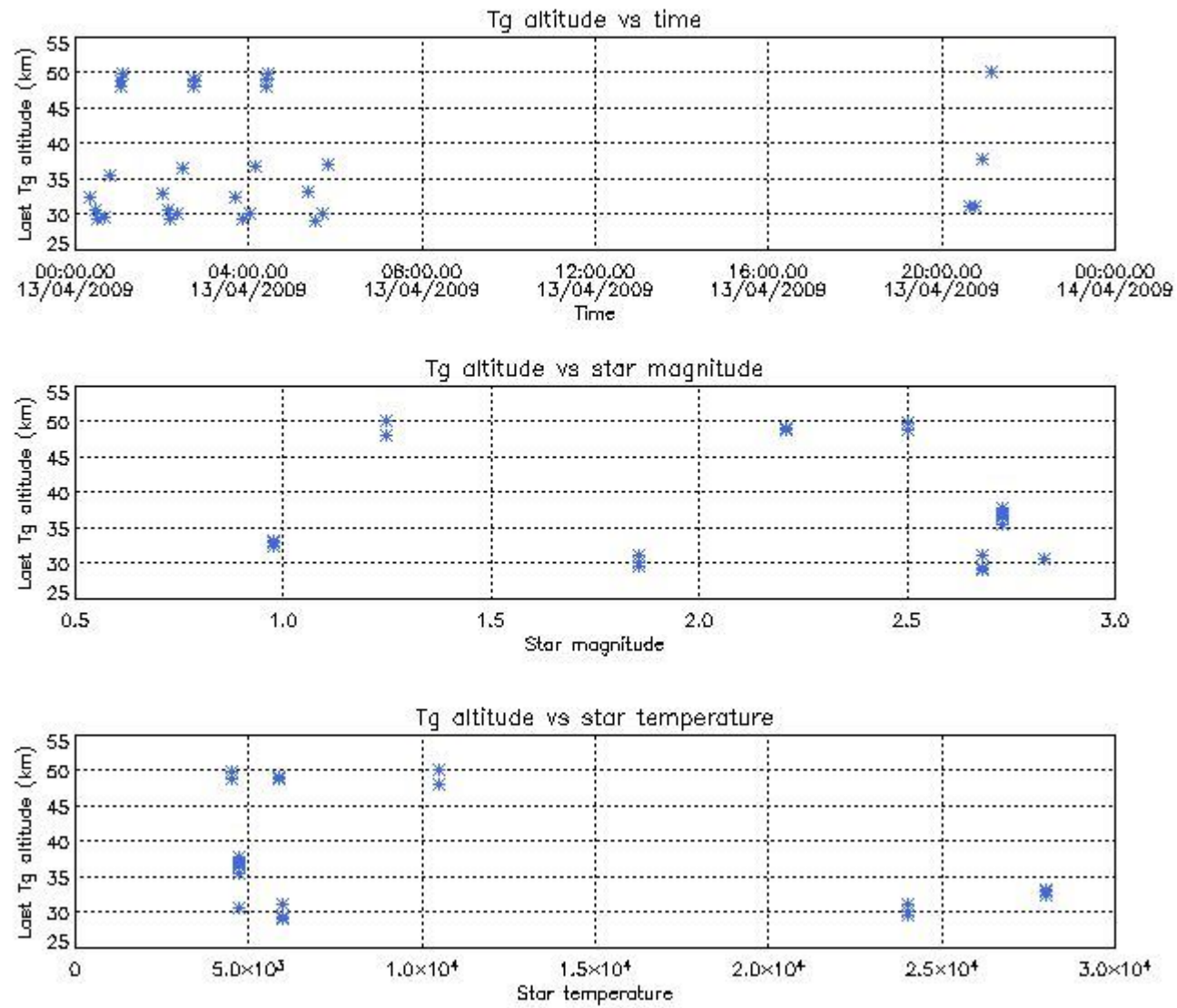
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

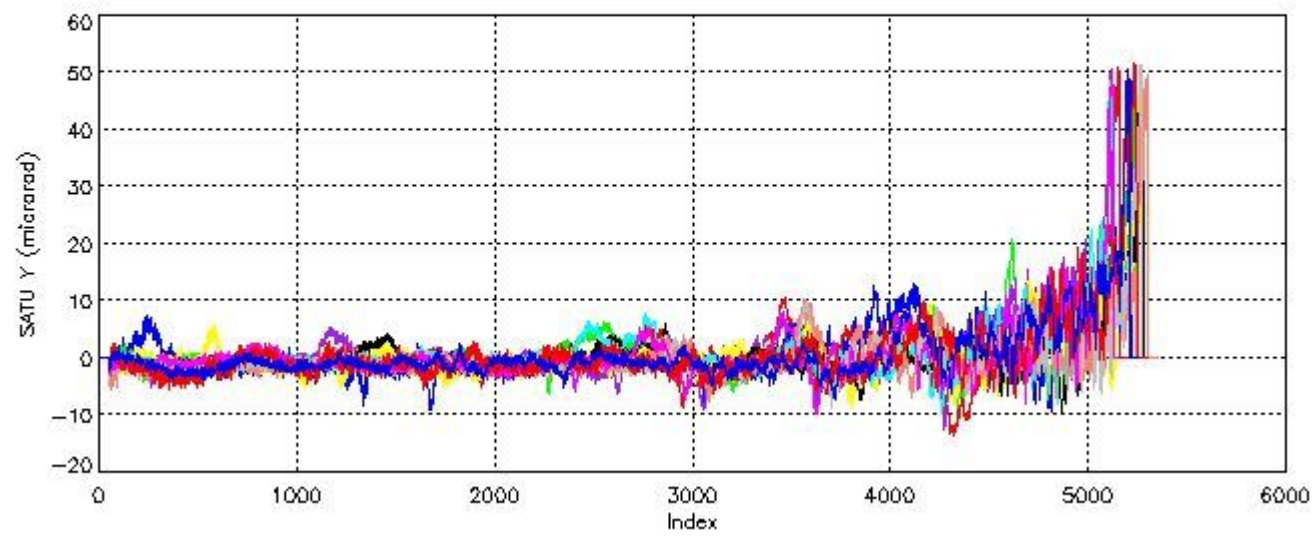
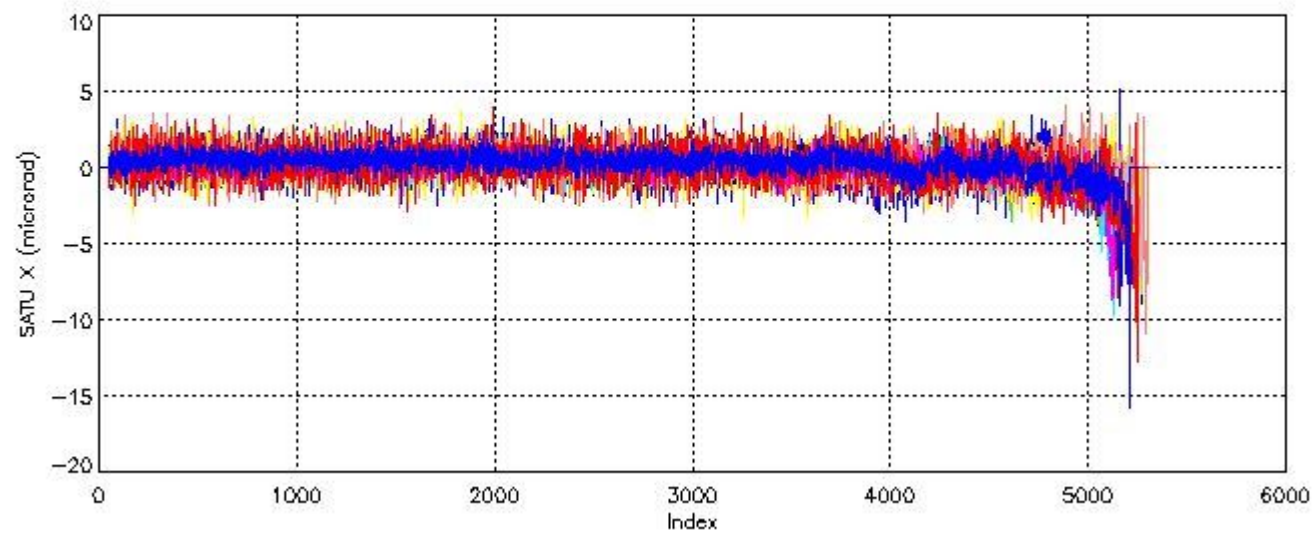


7. Star Acquisition and Tracking Unit (SATU)

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:	0.34247	-0.95151	0.32662	-1.1426
St. deviation:	0.62152	1.2049	0.61569	1.0896
Maximum:	3.5000	7.5000	3.5000	6.5000
Minimum:	-3.0000	-8.4000	-2.8000	-7.0000

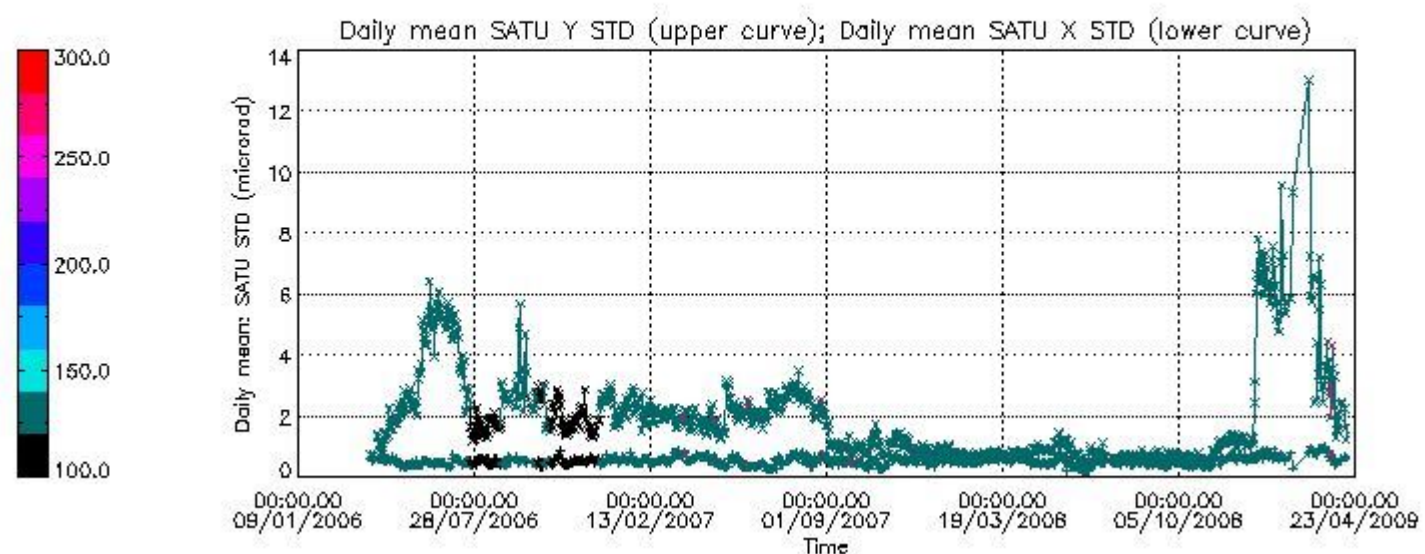
Number of data:	17000.	17000.	32500.	32500.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

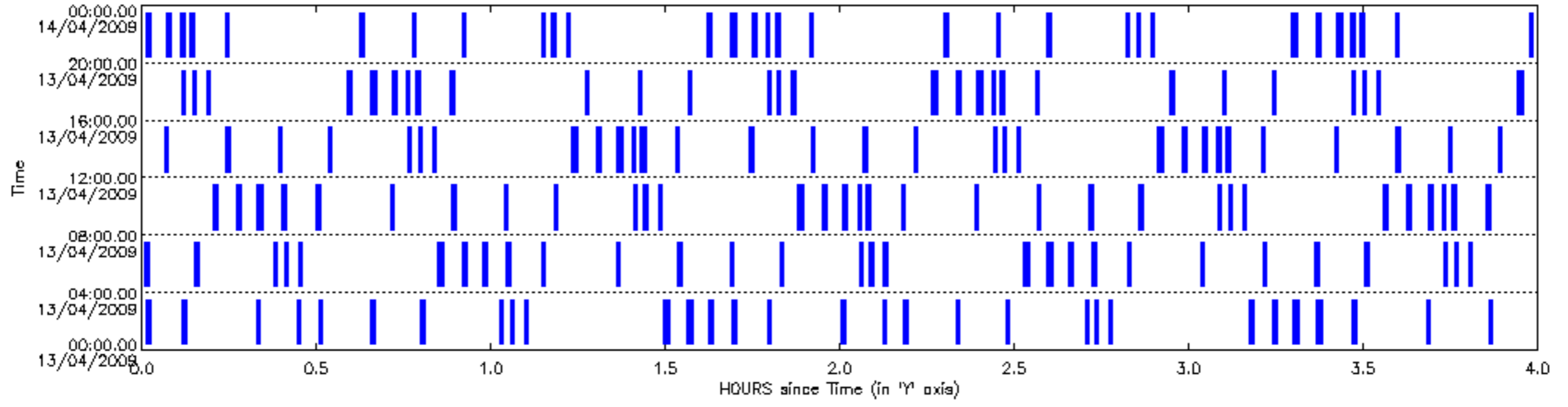
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

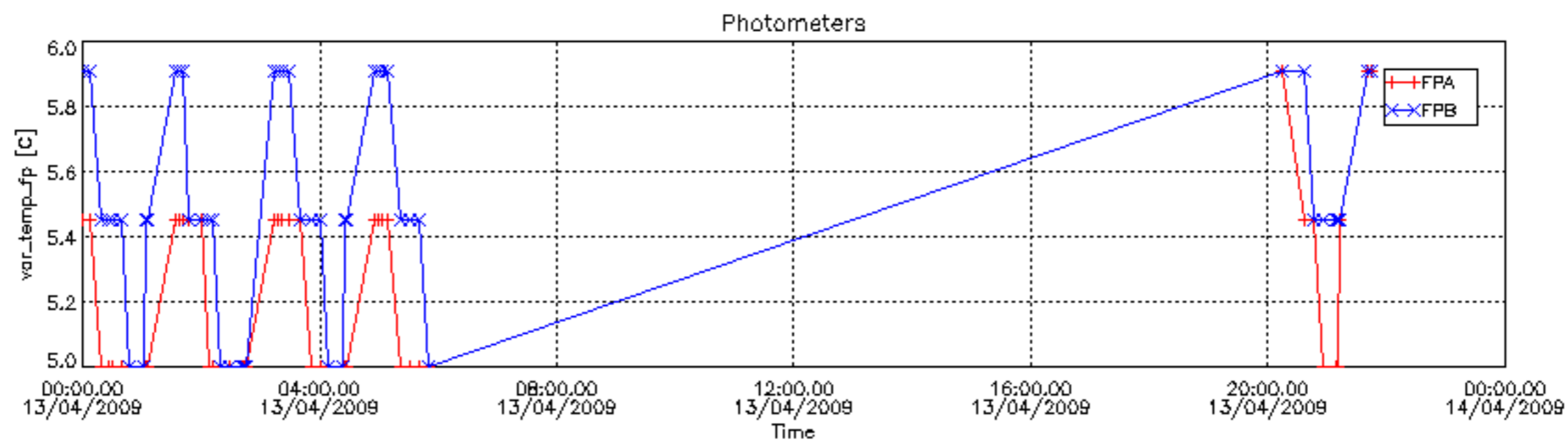
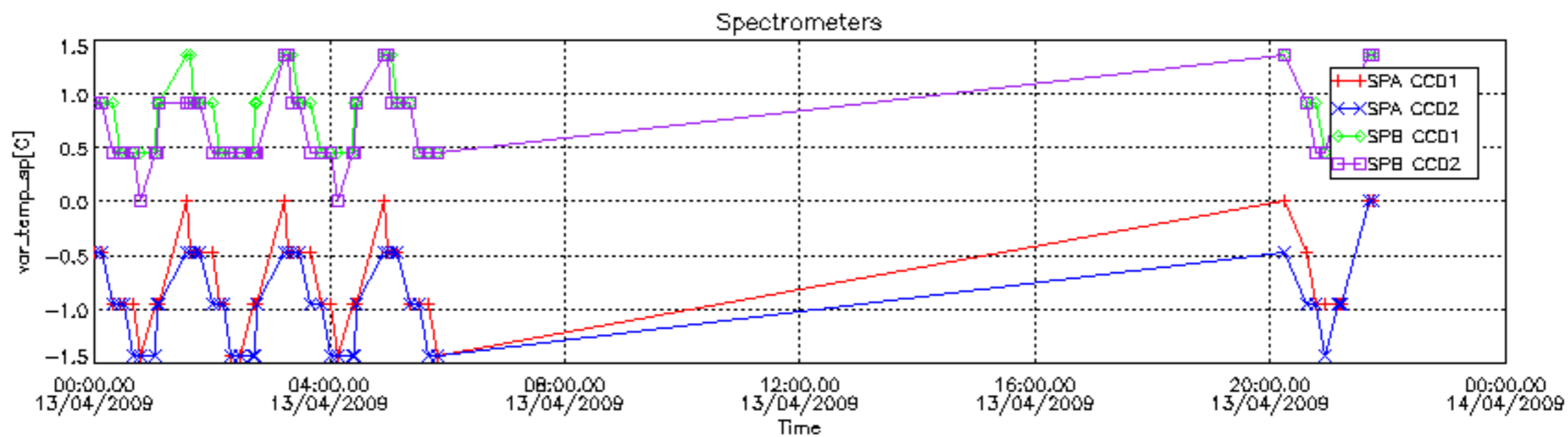


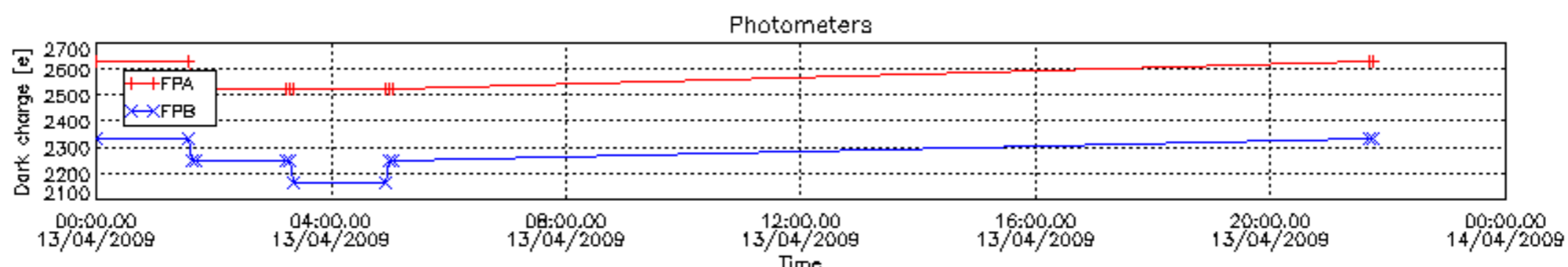
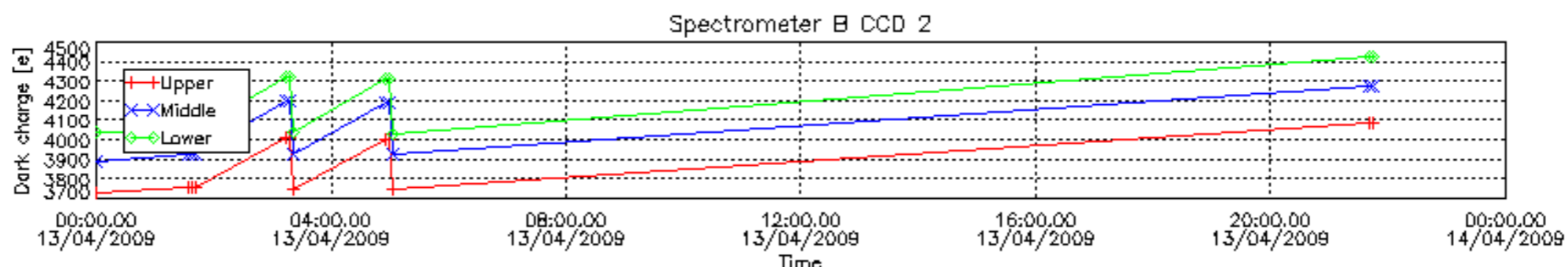
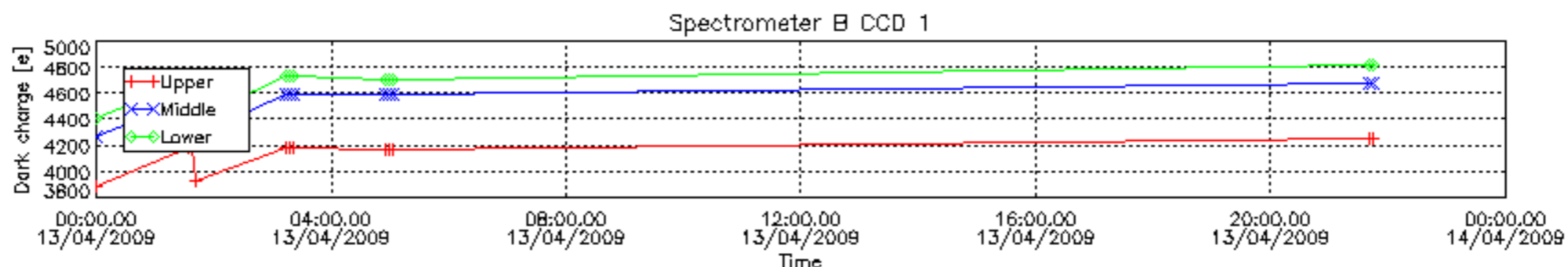
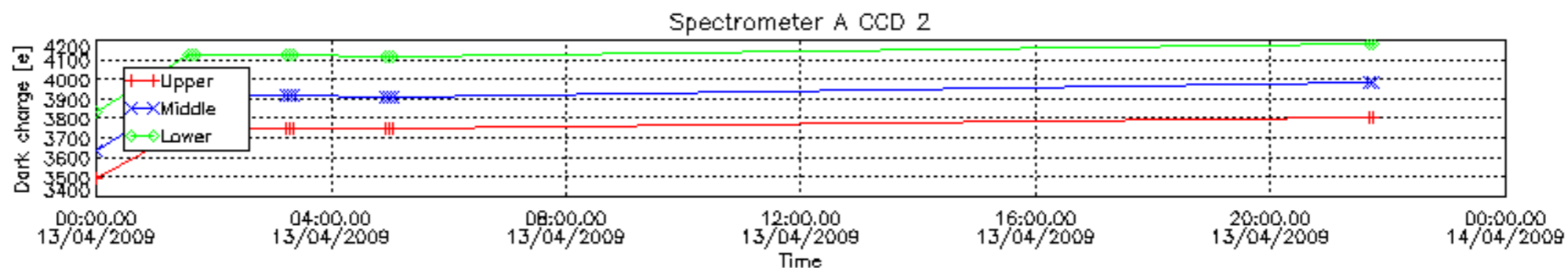
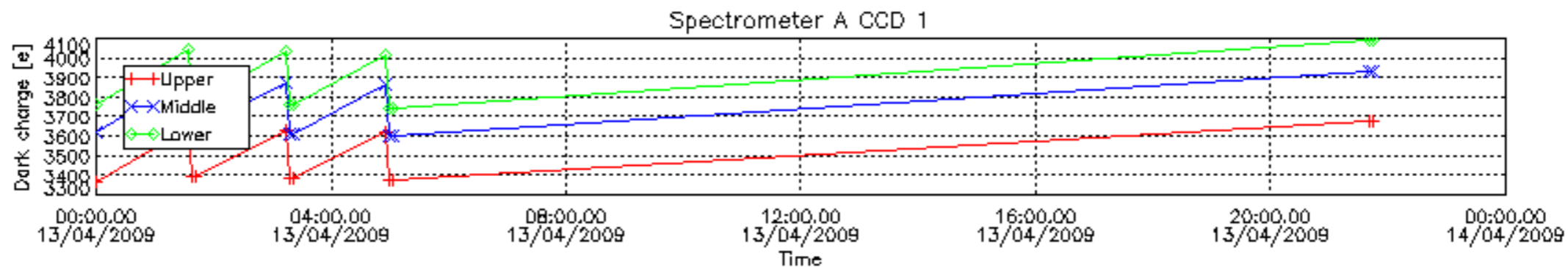
8. Auxiliary Data Files used for the production reported in section 2.4

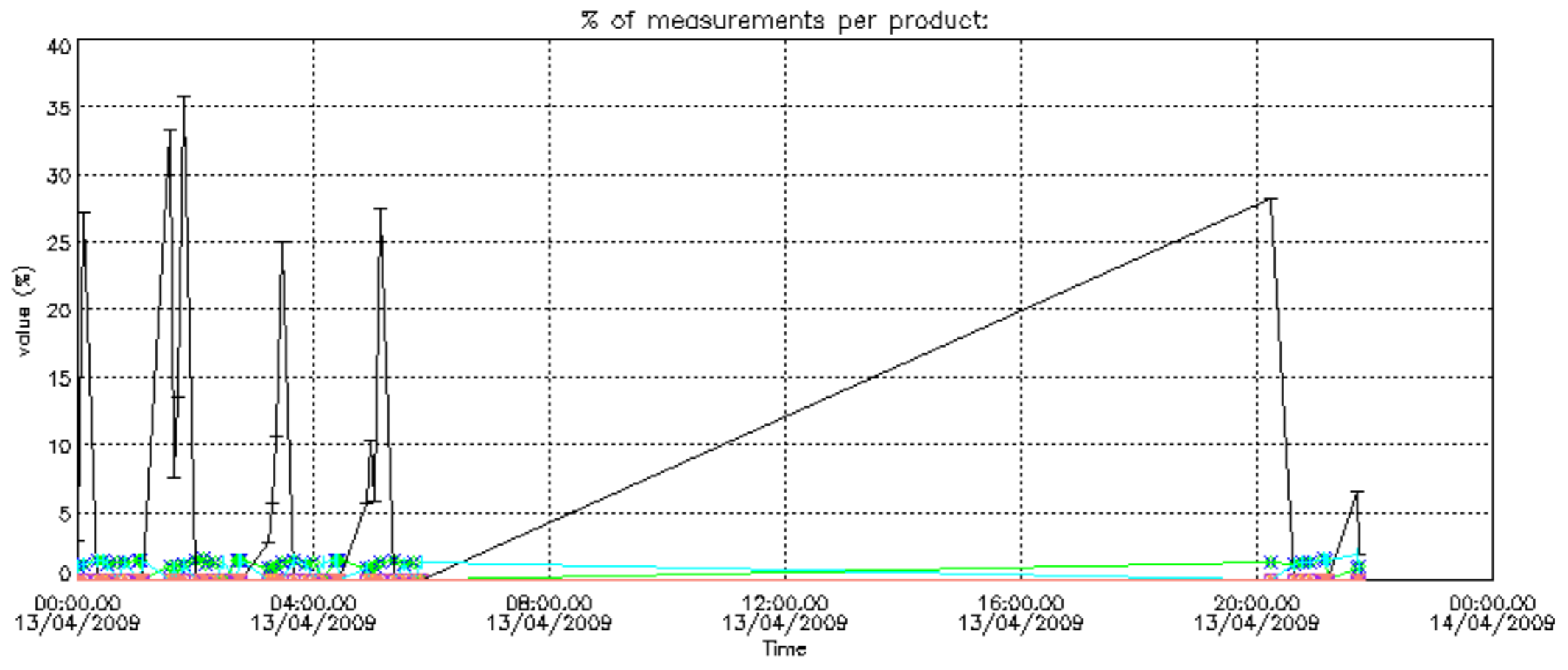
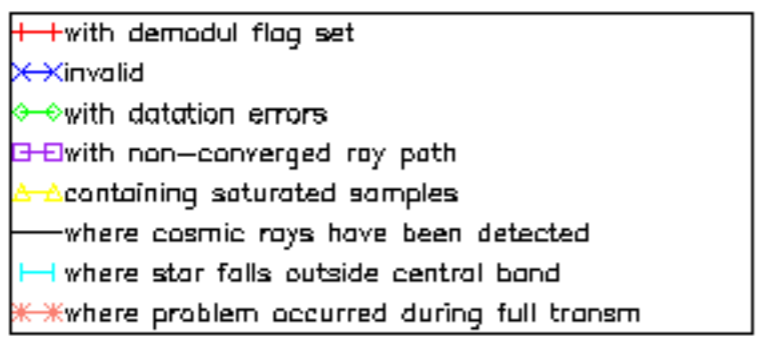
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	13-APR-2009 00:00:46
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090323_082818_20090321_000000_20100101_000000	1	13-APR-2009 00:00:46
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	13-APR-2009 00:00:46
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-APR-2009 00:00:46
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	13-APR-2009 00:00:46
ECMWF_FILE	AUX_ECF_AXNECM20090412_064113_20090412_210000_20090413_090000	1	13-APR-2009 00:00:46
ECMWF_FILE	AUX_ECF_AXNECM20090412_184112_20090413_030000_20090413_150000	31	13-APR-2009 04:22:43
ECMWF_FILE	AUX_ECF_AXNECM20090413_064112_20090413_150000_20090414_030000	42	13-APR-2009 20:14:14
ECMWF_FILE	AUX_ECF_AXNECM20090413_064112_20090413_210000_20090414_090000	49	13-APR-2009 21:41:13
OPTIONAL_ECMWF_FILE	MISSING	1	13-APR-2009 00:00:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090412_215519_000057382078_00086_37214_7738.N1	1	13-APR-2009 00:00:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090412_233616_000057382078_00087_37215_7739.N1	11	13-APR-2009 01:33:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090413_011713_000041442078_00088_37216_7740.N1	20	13-APR-2009 02:42:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090413_023137_000057382078_00089_37217_7741.N1	31	13-APR-2009 04:22:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090413_200856_000041442078_00100_37228_7743.N1	42	13-APR-2009 20:14:14

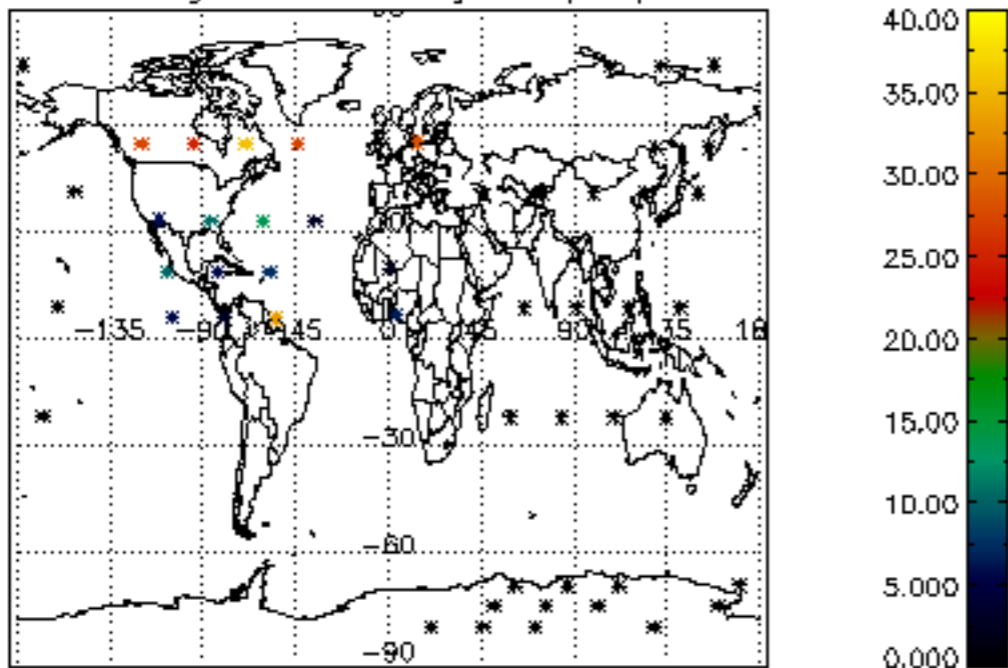




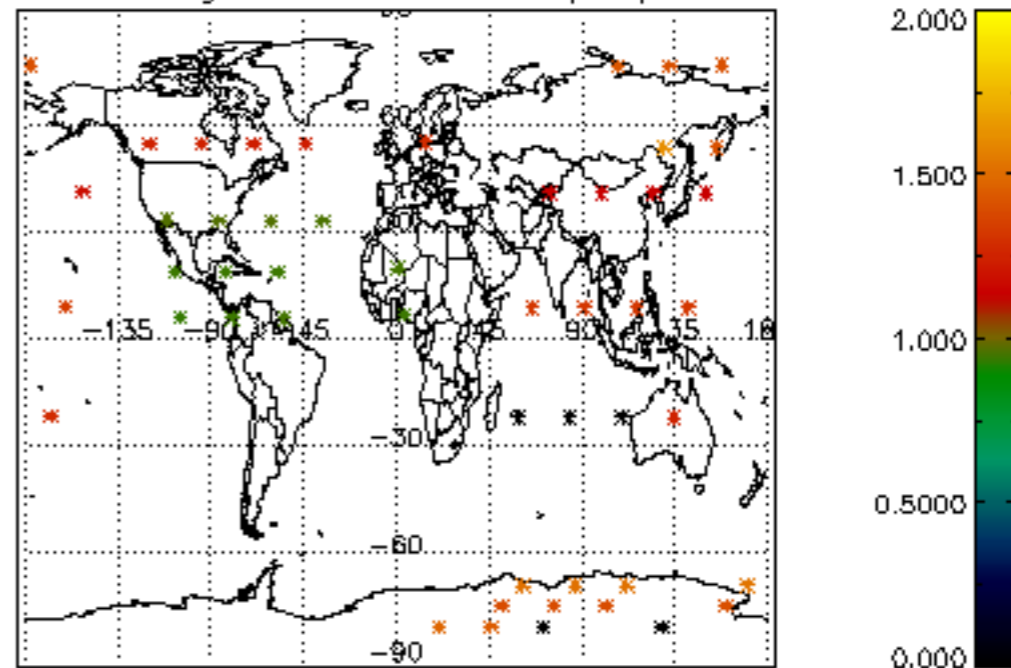




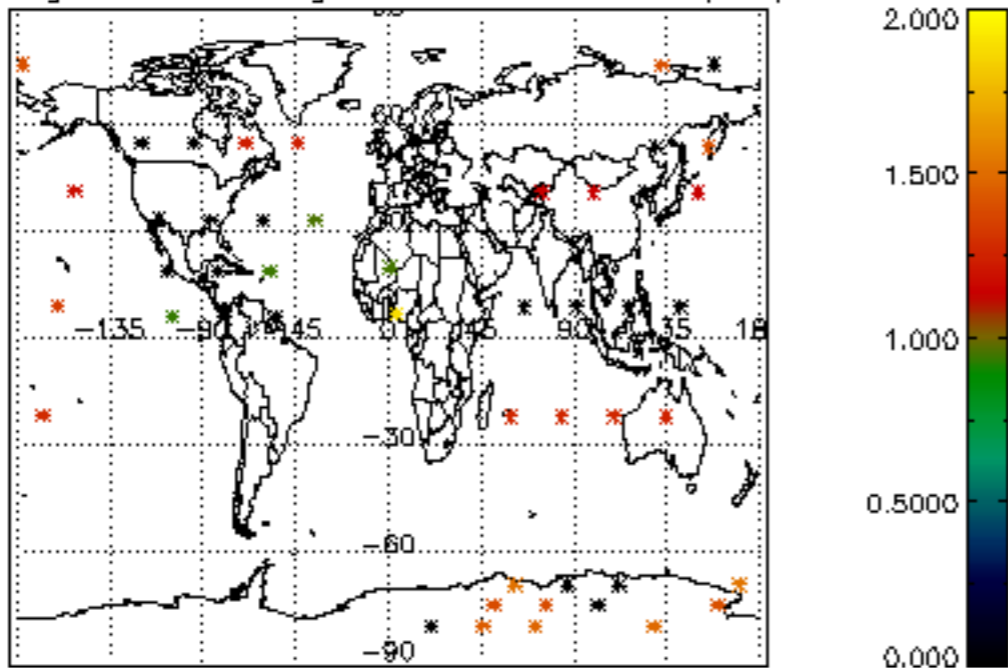
Percentage of cosmic ray hits per profile



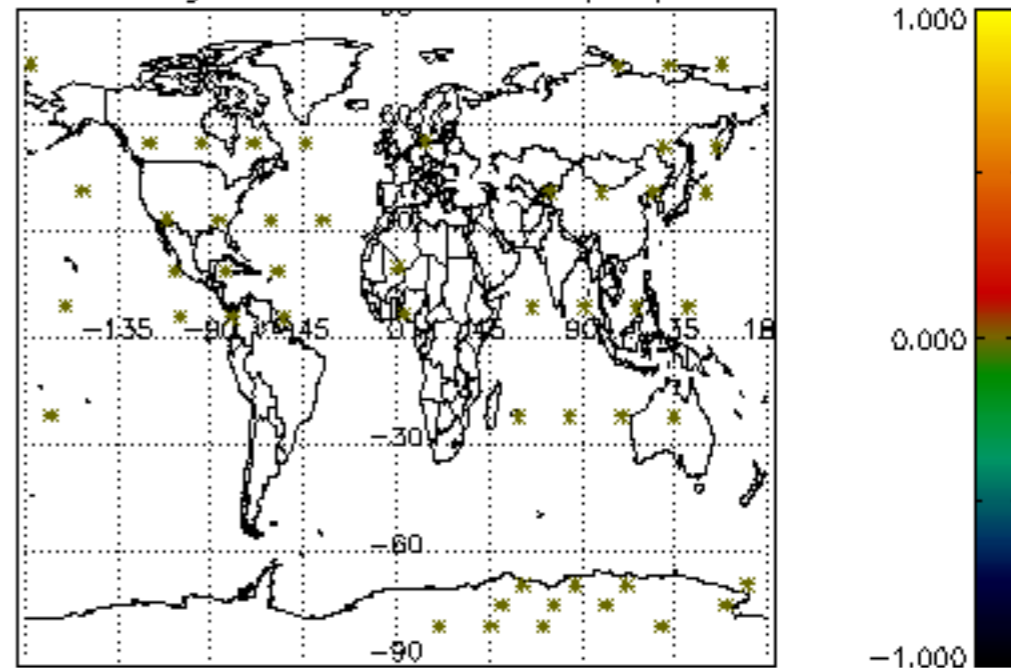
Percentage of datation errors per profile



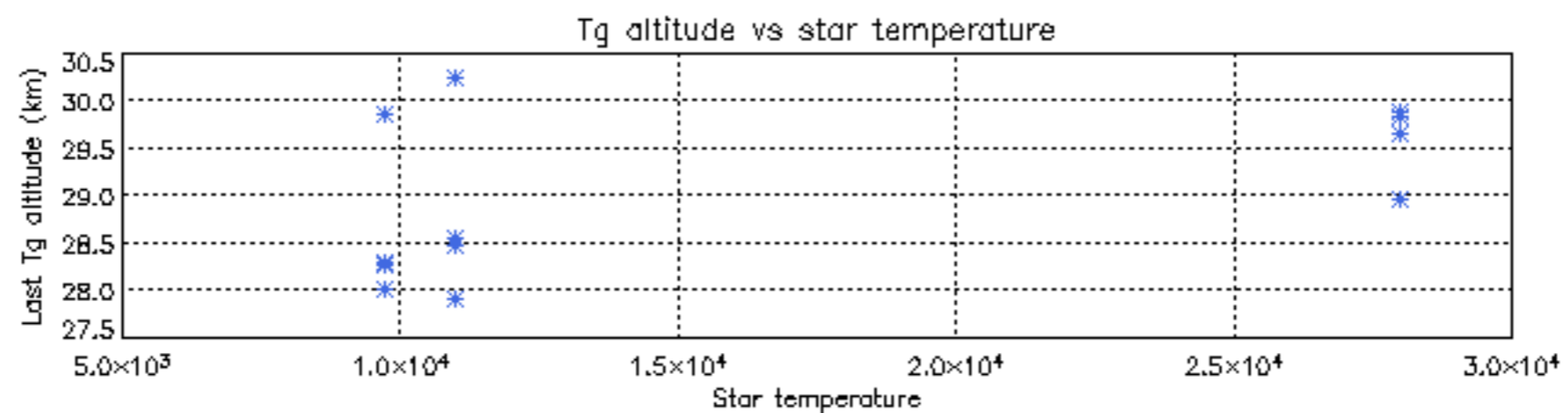
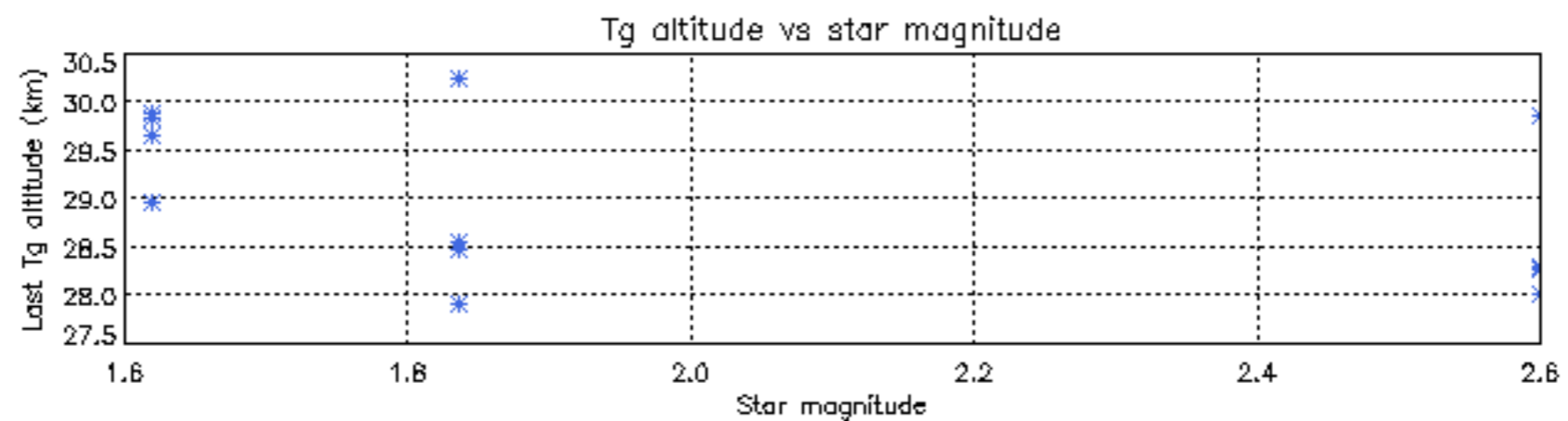
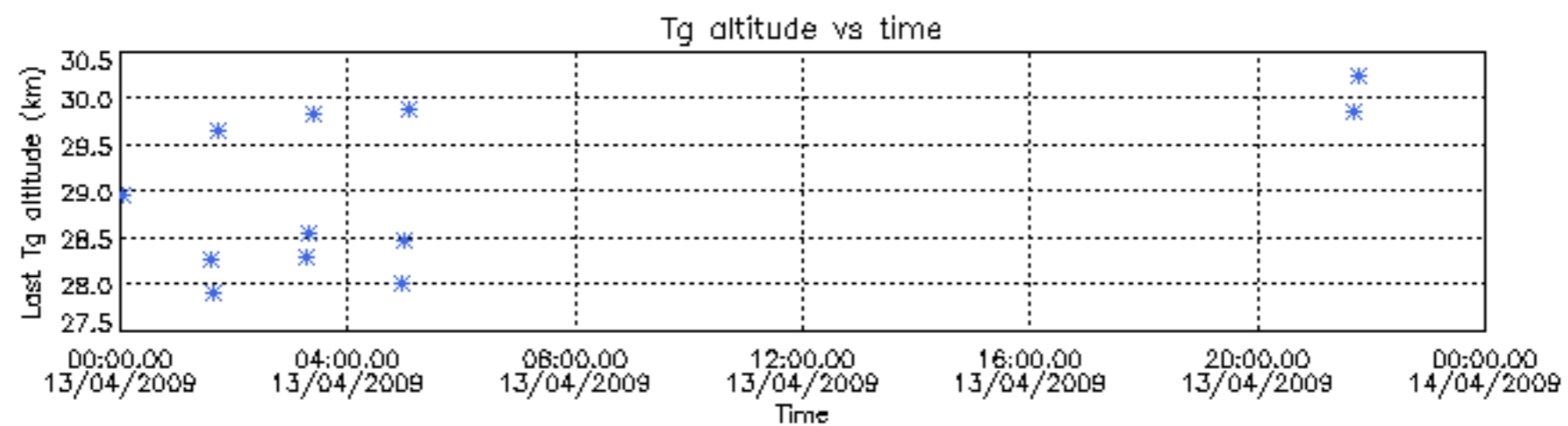
Percentage of star falling outside central band per profile



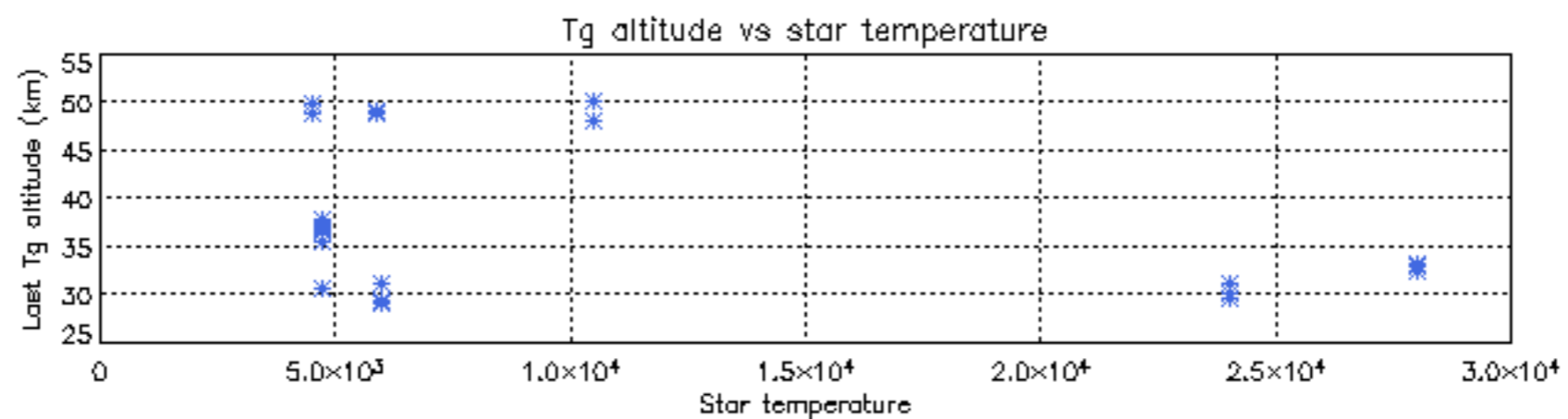
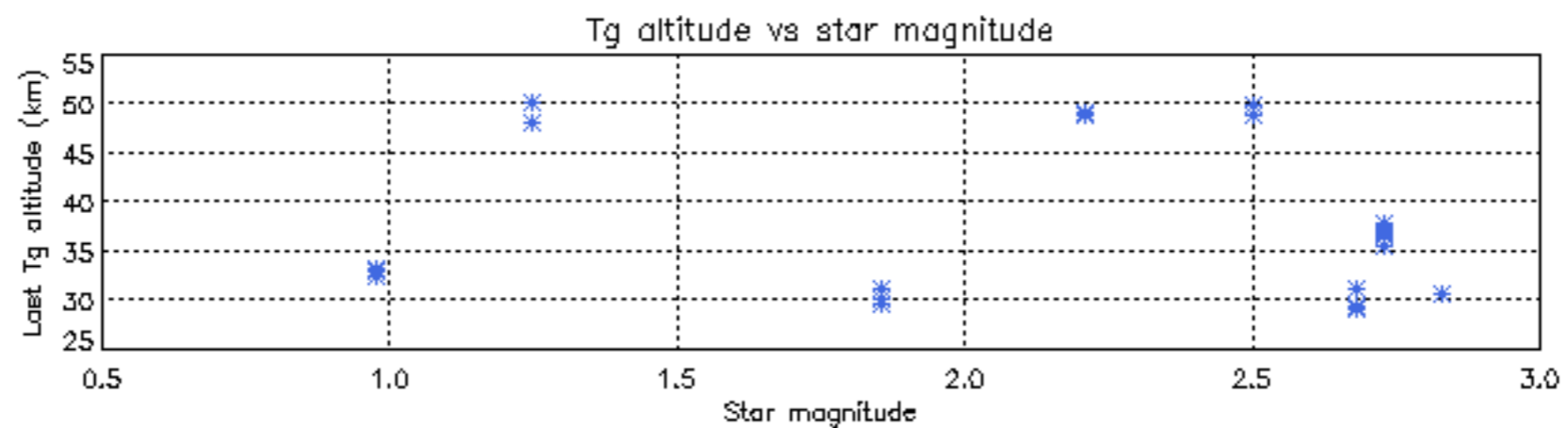
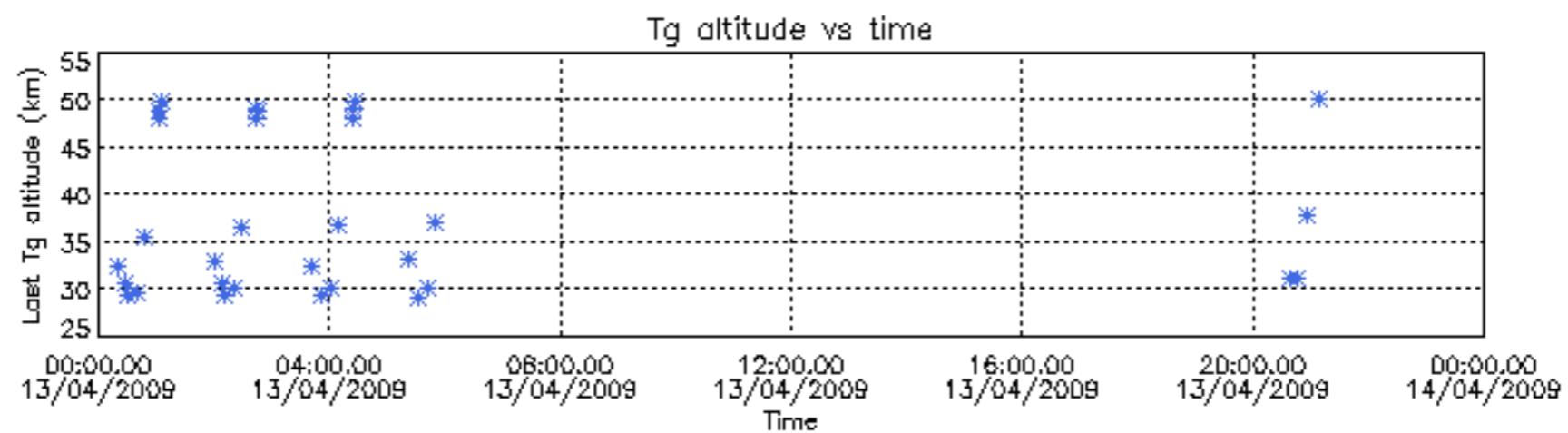
Percentage of saturation errors per profile

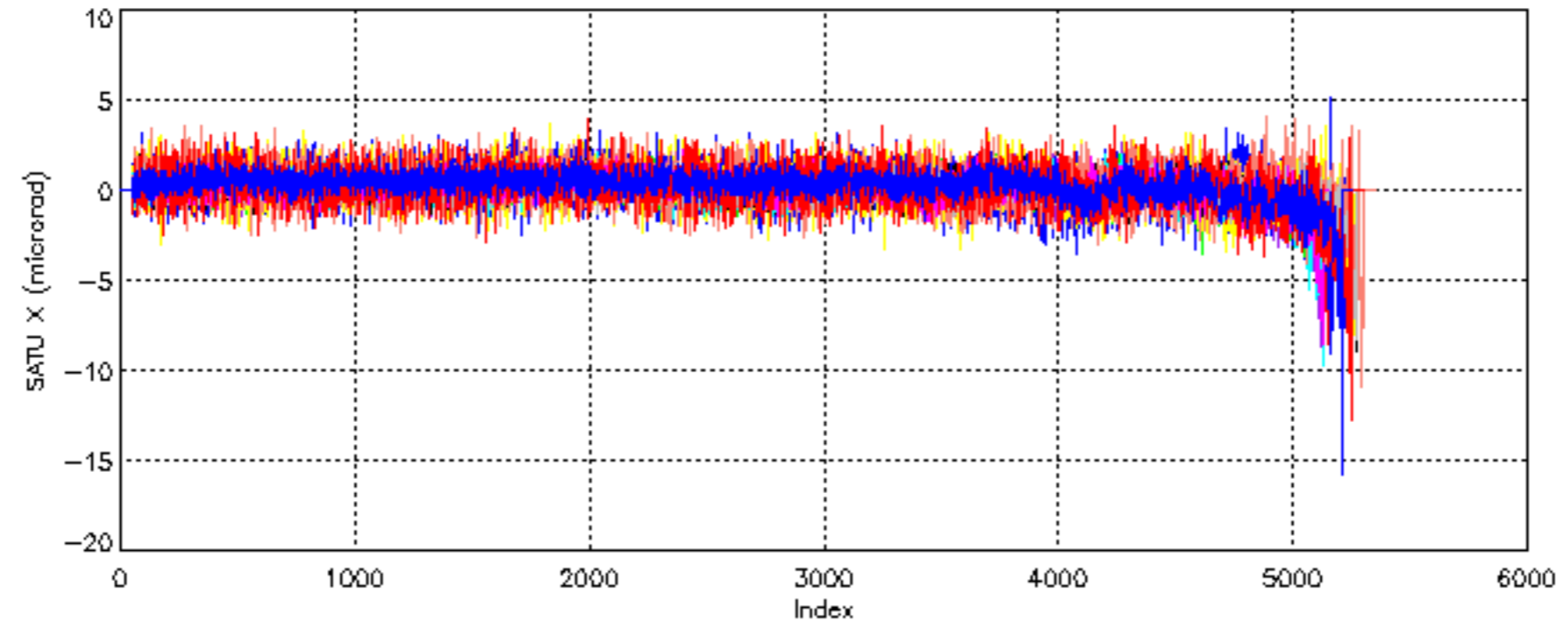


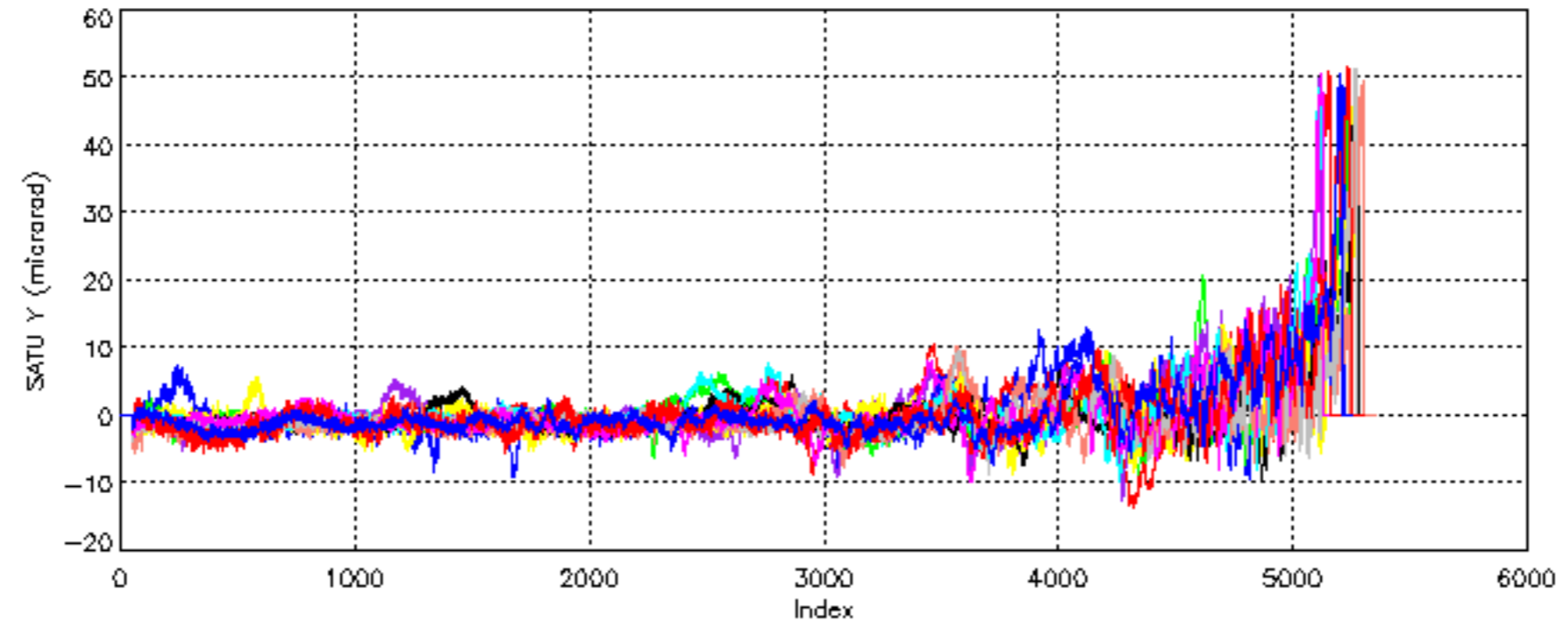
Tangent altitude at which the star is lost

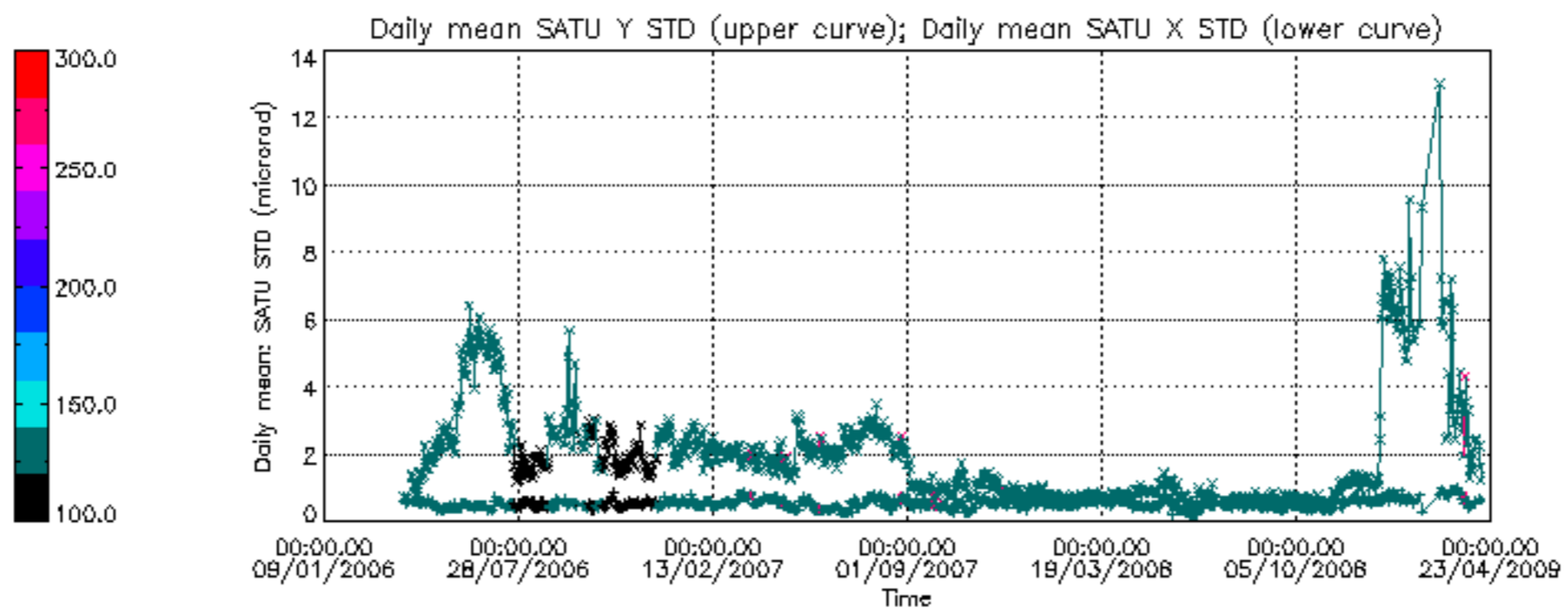


Tangent altitude at which the star is lost









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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
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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
7; 1433.6; 02-APR-2009 01:01:24; Dark ; 51.0; 169; 46Gam Hya ; 2.99; 4700;occ; 102; 0;37059
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9; 1881.4; 02-APR-2009 01:08:52; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;37059
10; 2154.8; 02-APR-2009 01:13:25; Bright; 49.0; 138; 47Eps Vir ; 2.83; 4700;occ; 98; 0;37059
11; 2669.6; 02-APR-2009 01:22:00; Bright; 44.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 88; 0;37059
12; 2952.7; 02-APR-2009 01:26:43; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;37059
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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3; -255.9; 02-APR-2009 02:13:50; Dark ; 57.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 115; 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
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
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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
16; 3498.8; 02-APR-2009 03:16:25; Bright; 47.0; 119; 14Eta Dra ; 2.73; 4700;occ; 94; 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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 13; 6679.5; 17-APR-2009 19:43:34; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;37284
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 5; 970.0; 18-APR-2009 00:50:48; Dark ; 31.5; 131; Gam Lup ; 2.80; 26000;occ; 63; 0;37288
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3; 422.1; 18-APR-2009 02:22:16; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;37289
4; 531.1; 18-APR-2009 02:24:05; Dark ; 35.0; 147; Alp Ara ; 2.88; 26000;occ; 70; 0;37289
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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
6; 3232.3; 28-APR-2009 12:58:21; Bright; 46.0; 119; 14Eta Dra ; 2.73; 4700;occ; 92; 0;37438

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 4; 1200.4; 29-APR-2009 20:15:52; Dark ; 35.0; 136; 23Tau Sco ; 2.82; 30000;occ; 70; 0;37457
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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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 4; 2458.5; 30-APR-2009 15:03:25; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0;37468
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