

GOMOS Daily Report 26-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	28APR2009 05:32:07
Data source version	GOMOS/5.00
Start time of products	26APR2009 00:04:27
Stop time of products	26APR2009 05:22:11
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)

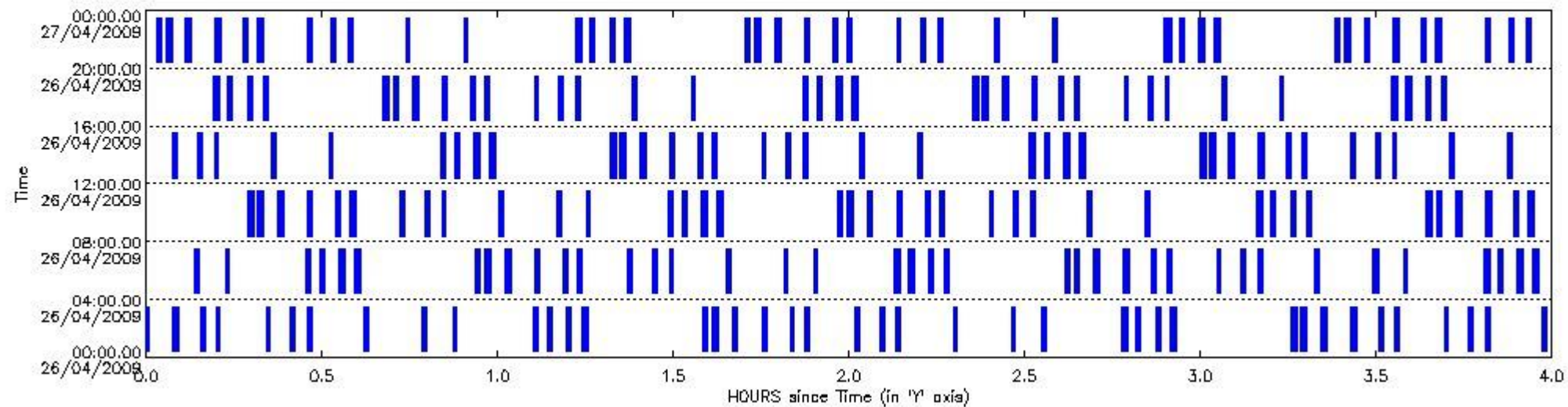
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

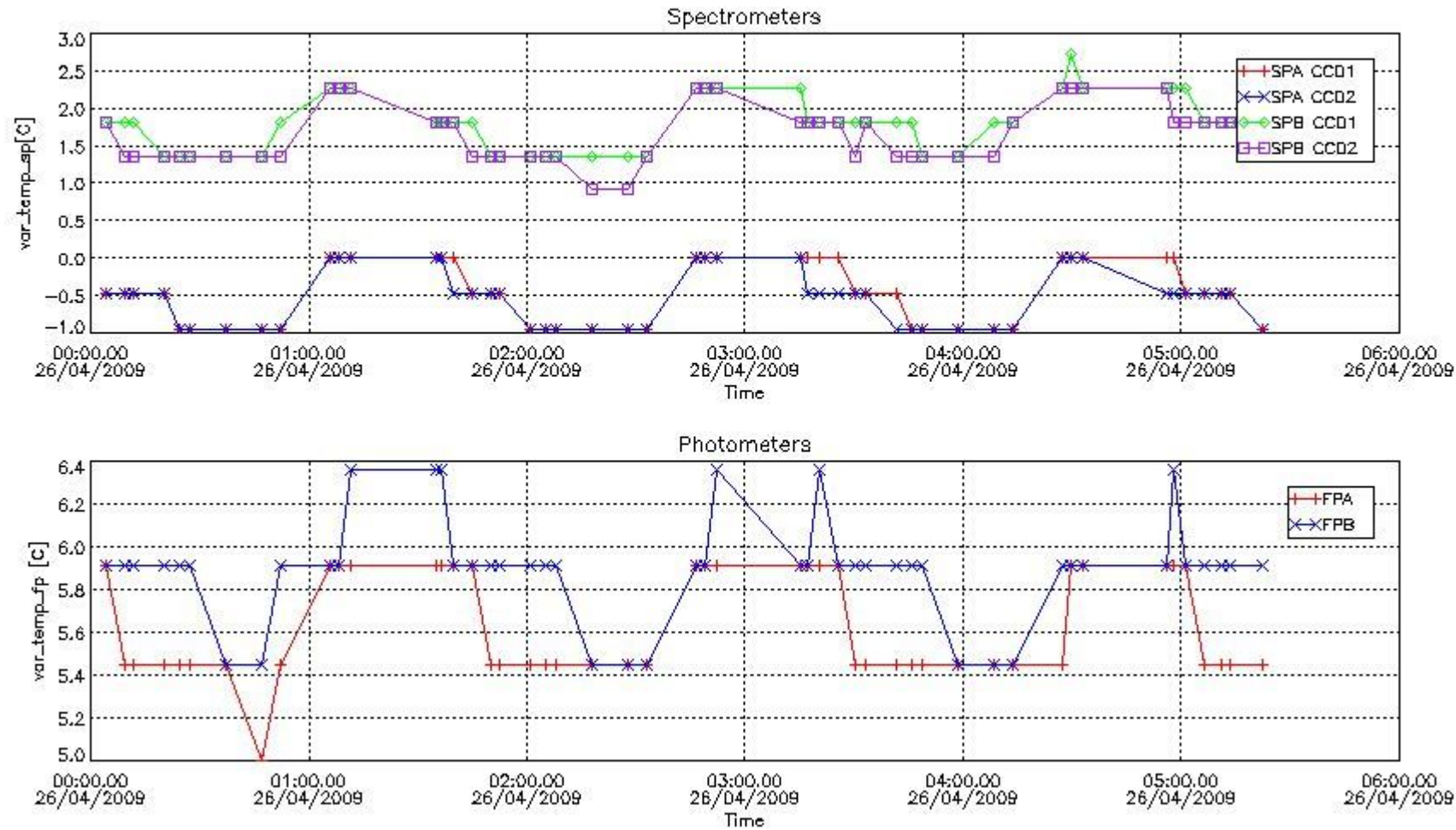
No missing products.

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_1PNPDE20090426_000427_000000562078_00274_37402_9536.N1	26-APR-2009 00:04:27	Twilight_and_stray	56.000	158	6Pi Sco	2.9060	28000.	112	37402	No
2	GOM_TRA_1PNPDE20090426_000918_000000482078_00274_37402_9537.N1	26-APR-2009 00:09:18	Bright	47.500	122	9Alp2Lib	2.7470	9700.0	95	37402	No
3	GOM_TRA_1PNPDE20090426_001150_000000452078_00274_37402_9538.N1	26-APR-2009 00:11:50	Bright	45.000	104	27Bet Lib	2.6140	13100.	90	37402	No
4	GOM_TRA_1PNPDE20090426_002024_000000402078_00274_37402_9539.N1	26-APR-2009 00:20:24	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	37402	No
5	GOM_TRA_1PNPDE20090426_002433_000000502078_00274_37402_9540.N1	26-APR-2009 00:24:33	Bright	50.000	83		2.3780	11000.	100	37402	No
6	GOM_TRA_1PNPDE20090426_002728_000000432078_00274_37402_9541.N1	26-APR-2009 00:27:28	Bright	43.000	180	27Gam Boo	3.0400	8000.0	86	37402	No
7	GOM_TRA_1PNPDE20090426_003711_000000422078_00274_37402_9542.N1	26-APR-2009 00:37:11	Bright	41.500	119	14Eta Dra	2.7270	4700.0	83	37402	No
8	GOM_TRA_1PNPDE20090426_004703_000000482078_00274_37402_9543.N1	26-APR-2009 00:47:03	Bright	47.500	89	5Alp Cep	2.4510	8000.0	95	37402	No
9	GOM_TRA_1PNPDE20090426_005218_000000402078_00274_37402_9544.N1	26-APR-2009 00:52:18	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	37402	No
10	GOM_TRA_1PNPDE20090426_010555_000000592078_00274_37402_9545.N1	26-APR-2009 01:05:55	Dark	58.500	61	8Eps Peg	2.1000	3900.0	117	37402	No
11	GOM_TRA_1PNPDE20090426_010822_000000502078_00274_37402_9546.N1	26-APR-2009 01:08:22	Dark	50.000	162	34Alp Aqr	2.9440	5350.0	100	37402	No
12	GOM_TRA_1PNPDE20090426_011139_000000542078_00274_37402_9678.N1	26-APR-2009 01:11:39	Dark	54.000	154	22Bet Aqr	2.8990	5700.0	108	37402	No

13	GOM_TRA_1PNPDE20090426_013454_000000562078_00275_37403_9679.N1	26-APR-2009 01:34:54	Straylight	55.500	40	The Sco	1.8590	7100.0	111	37403	No
14	GOM_TRA_1PNPDE20090426_013632_000000642078_00275_37403_9680.N1	26-APR-2009 01:36:32	Straylight	63.500	25	35Lam Sco	1.6200	28000.	127	37403	No
15	GOM_TRA_1PNPDE20090426_013957_000000622078_00275_37403_9681.N1	26-APR-2009 01:39:57	Straylight	62.000	75	26Eps Sco	2.2910	4250.0	124	37403	No
16	GOM_TRA_1PNPDE20090426_014504_000000552078_00275_37403_9682.N1	26-APR-2009 01:45:04	Tw_i_and_stray	55.000	158	6Pi Sco	2.9060	28000.	110	37403	No
17	GOM_TRA_1PNPDE20090426_014954_000000452078_00275_37403_9683.N1	26-APR-2009 01:49:54	Bright	44.500	122	9Alp2Lib	2.7470	9700.0	89	37403	No
18	GOM_TRA_1PNPDE20090426_015225_000000452078_00275_37403_9684.N1	26-APR-2009 01:52:25	Bright	45.000	104	27Bet Lib	2.6140	13100.	90	37403	No
19	GOM_TRA_1PNPDE20090426_020059_000000422078_00275_37403_9685.N1	26-APR-2009 02:00:59	Bright	41.500	111	8Eta Boo	2.6800	6000.0	83	37403	No
20	GOM_TRA_1PNPDE20090426_020509_000000502078_00275_37403_9686.N1	26-APR-2009 02:05:09	Bright	49.500	83		2.3780	11000.	99	37403	No
21	GOM_TRA_1PNPDE20090426_020803_000000442078_00275_37403_9687.N1	26-APR-2009 02:08:03	Bright	44.000	180	27Gam Boo	3.0400	8000.0	88	37403	No
22	GOM_TRA_1PNPDE20090426_021746_000000452078_00275_37403_9688.N1	26-APR-2009 02:17:46	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	37403	No
23	GOM_TRA_1PNPDE20090426_022739_000000472078_00275_37403_9850.N1	26-APR-2009 02:27:39	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	37403	No
24	GOM_TRA_1PNPDE20090426_023254_000000402078_00275_37403_9851.N1	26-APR-2009 02:32:54	Bright	40.000	19	50Alp Cyg	1.2460	10500.	80	37403	No
25	GOM_TRA_1PNPDE20090426_024632_000000592078_00275_37403_9852.N1	26-APR-2009 02:46:32	Dark	58.500	61	8Eps Peg	2.1000	3900.0	117	37403	No
26	GOM_TRA_1PNPDE20090426_024859_000000512078_00275_37403_9853.N1	26-APR-2009 02:48:59	Dark	51.000	162	34Alp Aqr	2.9440	5350.0	102	37403	No
27	GOM_TRA_1PNPDE20090426_025216_000000532078_00275_37403_9854.N1	26-APR-2009 02:52:16	Dark	52.500	154	22Bet Aqr	2.8990	5700.0	105	37403	No
28	GOM_TRA_1PNPDE20090426_031531_000000612078_00276_37404_9855.N1	26-APR-2009 03:15:31	Straylight	61.000	40	The Sco	1.8590	7100.0	122	37404	No
29	GOM_TRA_1PNPDE20090426_031709_000000602078_00276_37404_9856.N1	26-APR-2009 03:17:09	Straylight	60.000	25	35Lam Sco	1.6200	28000.	120	37404	No
30	GOM_TRA_1PNPDE20090426_032034_000000622078_00276_37404_9857.N1	26-APR-2009 03:20:34	Straylight	62.000	75	26Eps Sco	2.2910	4250.0	124	37404	No
31	GOM_TRA_1PNPDE20090426_032540_000000552078_00276_37404_9858.N1	26-APR-2009 03:25:40	Tw_i_and_stray	54.500	158	6Pi Sco	2.9060	28000.	109	37404	No
32	GOM_TRA_1PNPDE20090426_033030_000000492078_00276_37404_9859.N1	26-APR-2009 03:30:30	Bright	48.500	122	9Alp2Lib	2.7470	9700.0	97	37404	No
33	GOM_TRA_1PNPDE20090426_033301_000000512078_00276_37404_9860.N1	26-APR-2009 03:33:01	Bright	51.000	104	27Bet Lib	2.6140	13100.	102	37404	No
34	GOM_TRA_1PNPDE20090426_034135_000000402078_00276_37404_9861.N1	26-APR-2009 03:41:35	Bright	40.000	111	8Eta Boo	2.6800	6000.0	80	37404	No
35	GOM_TRA_1PNPDE20090426_034544_000000462078_00276_37404_9862.N1	26-APR-2009 03:45:44	Bright	46.000	83		2.3780	11000.	92	37404	No
36	GOM_TRA_1PNPDE20090426_034839_000000442078_00276_37404_9863.N1	26-APR-2009 03:48:39	Bright	44.000	180	27Gam Boo	3.0400	8000.0	88	37404	No
37	GOM_TRA_1PNPDE20090426_035821_000000452078_00276_37404_9864.N1	26-APR-2009 03:58:21	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	37404	No
38	GOM_TRA_1PNPDE20090426_040814_000000482078_00276_37404_0025.N1	26-APR-2009 04:08:14	Bright	48.000	89	5Alp Cep	2.4510	8000.0	96	37404	No
39	GOM_TRA_1PNPDE20090426_041330_000000352078_00276_37404_0026.N1	26-APR-2009 04:13:30	Tw_i_and_stray	35.000	19	50Alp Cyg	1.2460	10500.	70	37404	No
40	GOM_TRA_1PNPDE20090426_042708_000000592078_00276_37404_0027.N1	26-APR-2009 04:27:08	Dark	59.000	61	8Eps Peg	2.1000	3900.0	118	37404	No
41	GOM_TRA_1PNPDE20090426_042936_000000502078_00276_37404_0028.N1	26-APR-2009 04:29:36	Dark	50.000	162	34Alp Aqr	2.9440	5350.0	100	37404	No
42	GOM_TRA_1PNPDE20090426_043253_000000572078_00276_37404_0029.N1	26-APR-2009 04:32:53	Dark	57.000	154	22Bet Aqr	2.8990	5700.0	114	37404	No
43	GOM_TRA_1PNPDE20090426_045608_000000532078_00277_37405_0030.N1	26-APR-2009 04:56:08	Straylight	52.500	40	The Sco	1.8590	7100.0	105	37405	No
44	GOM_TRA_1PNPDE20090426_045747_000000592078_00277_37405_0031.N1	26-APR-2009 04:57:47	Straylight	59.000	25	35Lam Sco	1.6200	28000.	118	37405	No
45	GOM_TRA_1PNPDE20090426_050111_000000642078_00277_37405_0032.N1	26-APR-2009 05:01:11	Straylight	64.000	75	26Eps Sco	2.2910	4250.0	128	37405	No
46	GOM_TRA_1PNPDE20090426_050617_000000532078_00277_37405_0033.N1	26-APR-2009 05:06:17	Tw_i_and_stray	52.500	158	6Pi Sco	2.9060	28000.	105	37405	No
47	GOM_TRA_1PNPDE20090426_051106_000000512078_00277_37405_0034.N1	26-APR-2009 05:11:06	Bright	50.500	122	9Alp2Lib	2.7470	9700.0	101	37405	No
48	GOM_TRA_1PNPDE20090426_051337_000000512078_00277_37405_0035.N1	26-APR-2009 05:13:37	Bright	51.000	104	27Bet Lib	2.6140	13100.	102	37405	No
49	GOM_TRA_1PNPDE20090426_052211_000000402078_00277_37405_0036.N1	26-APR-2009 05:22:11	Bright	40.000	111	8Eta Boo	2.6800	6000.0	80	37405	No

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



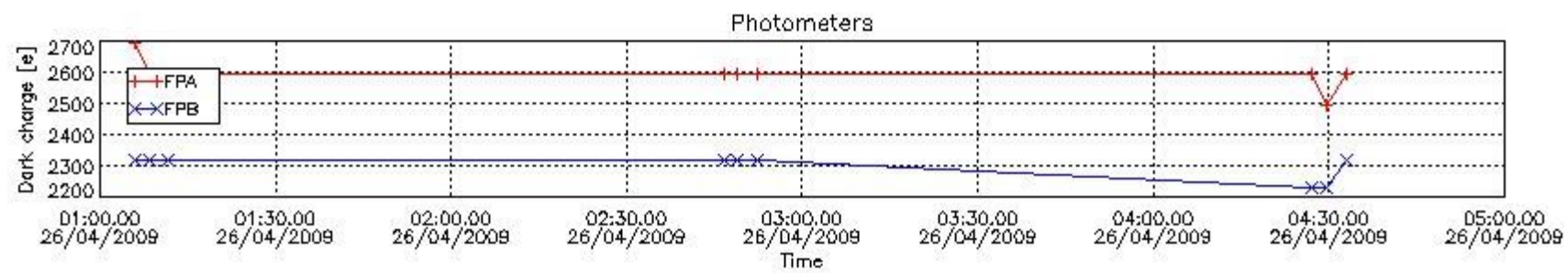
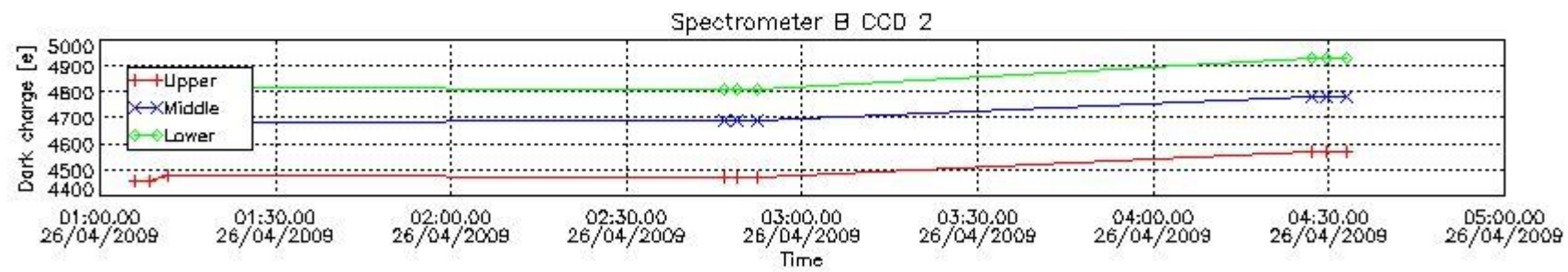
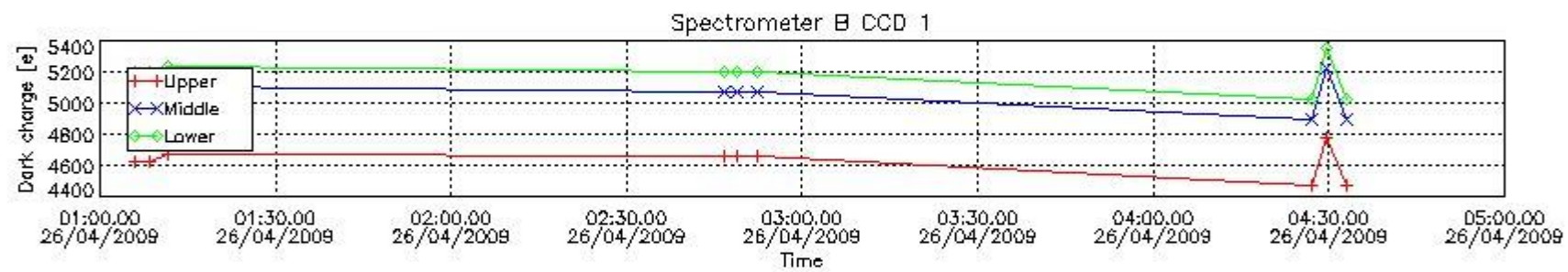
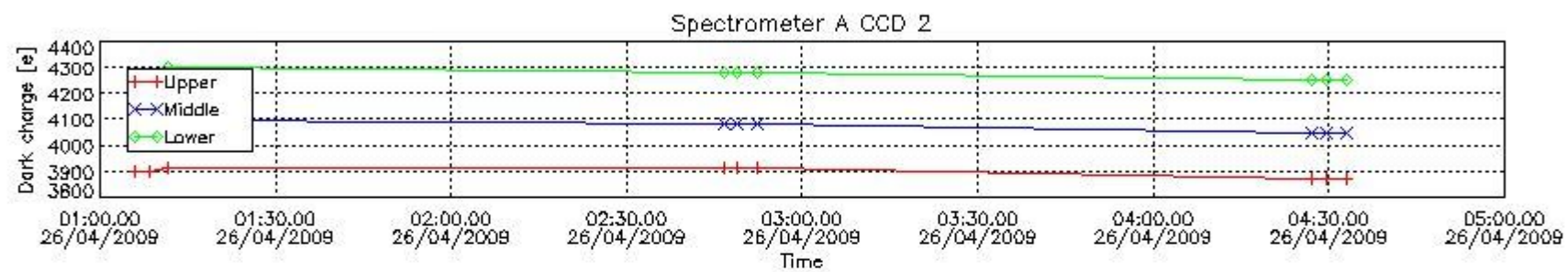
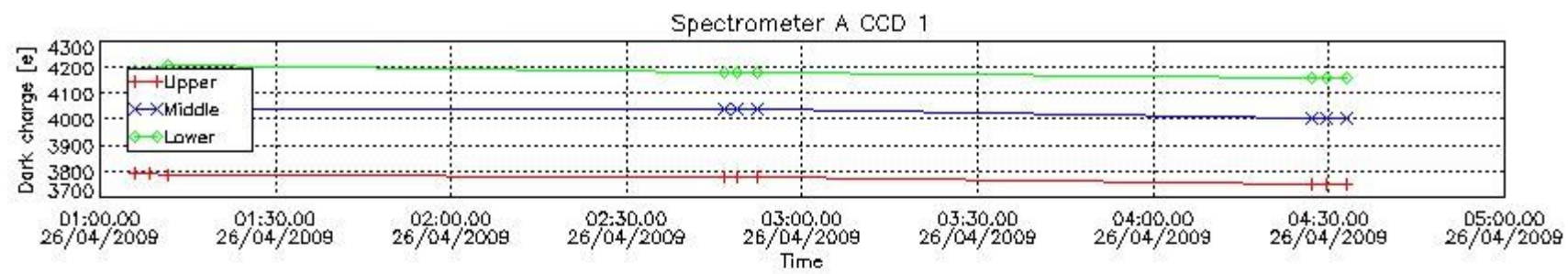
4. Overview of dark signal processing per product

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



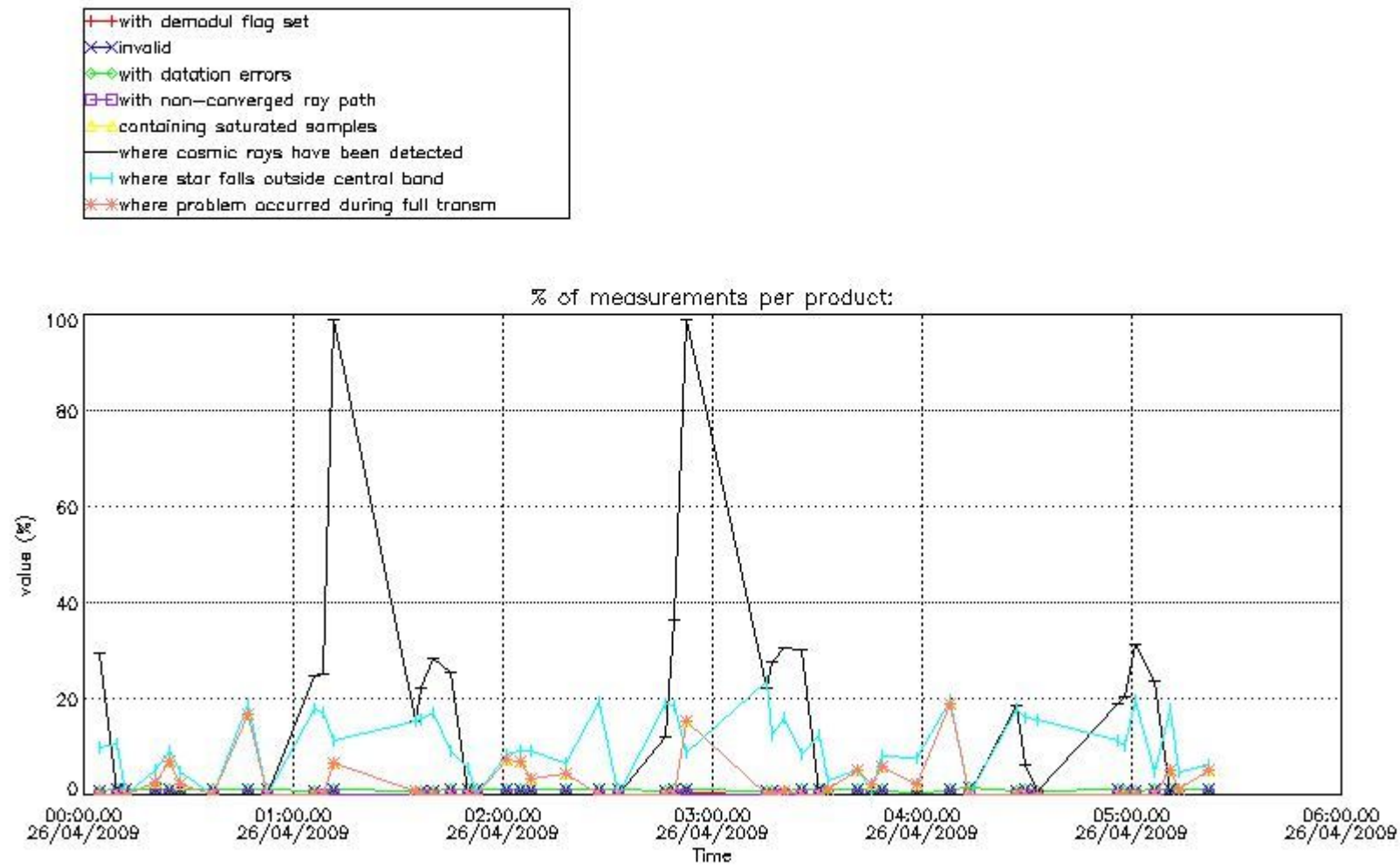
5. Demodulation flag and quality information monitoring

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.

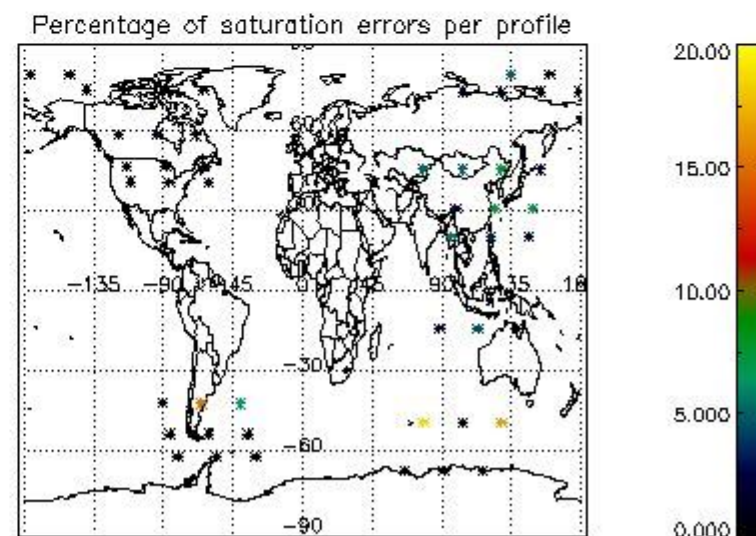
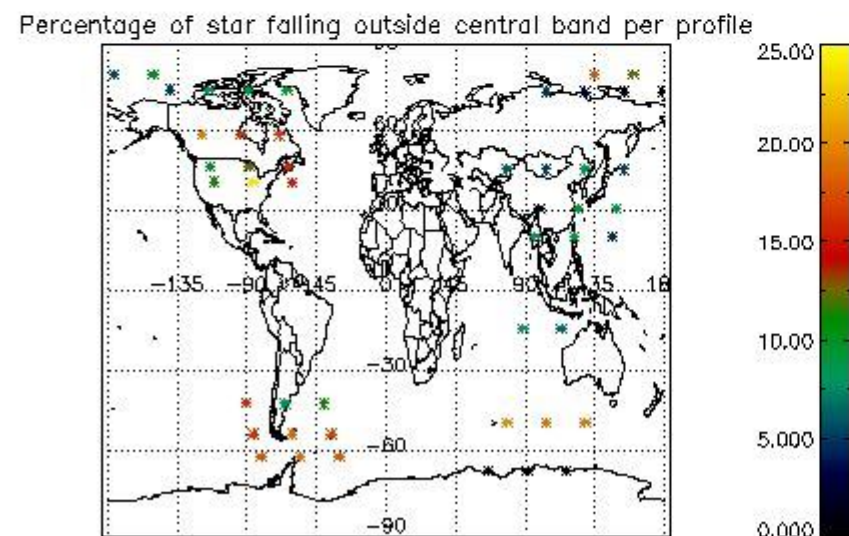
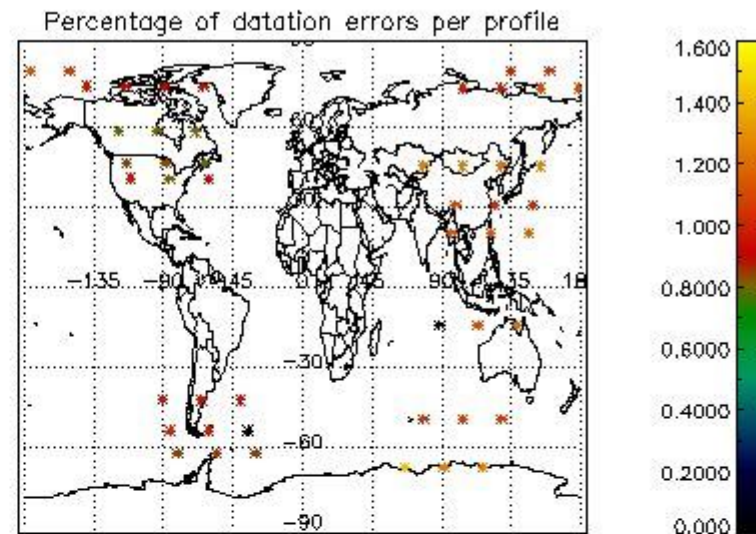
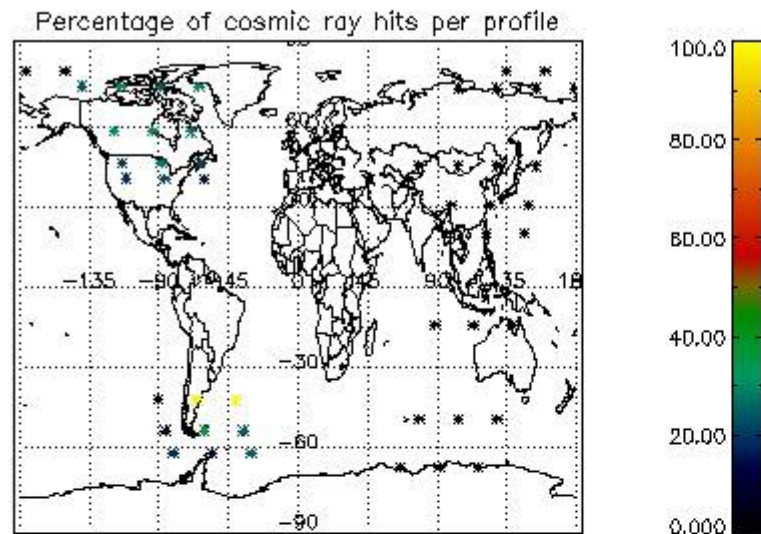
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.5306 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



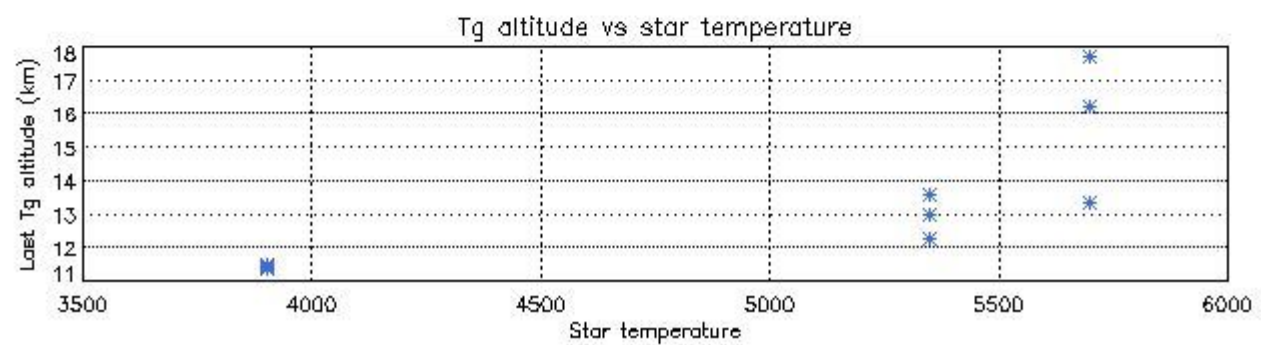
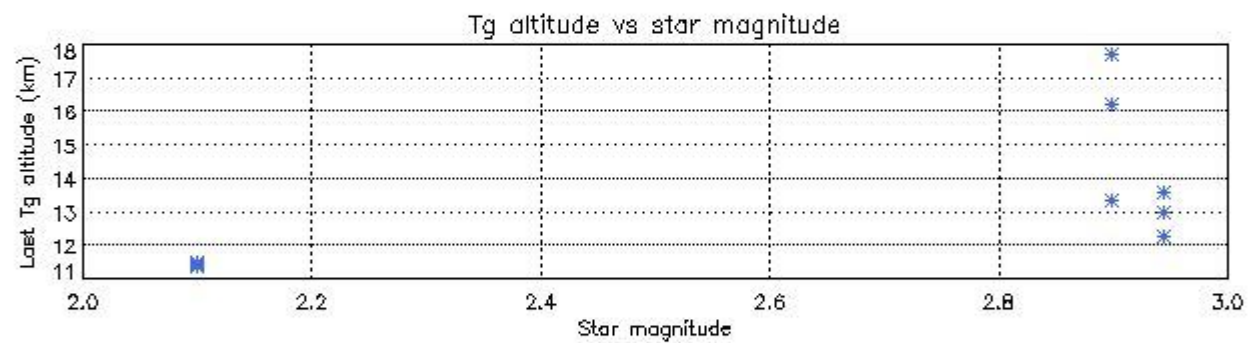
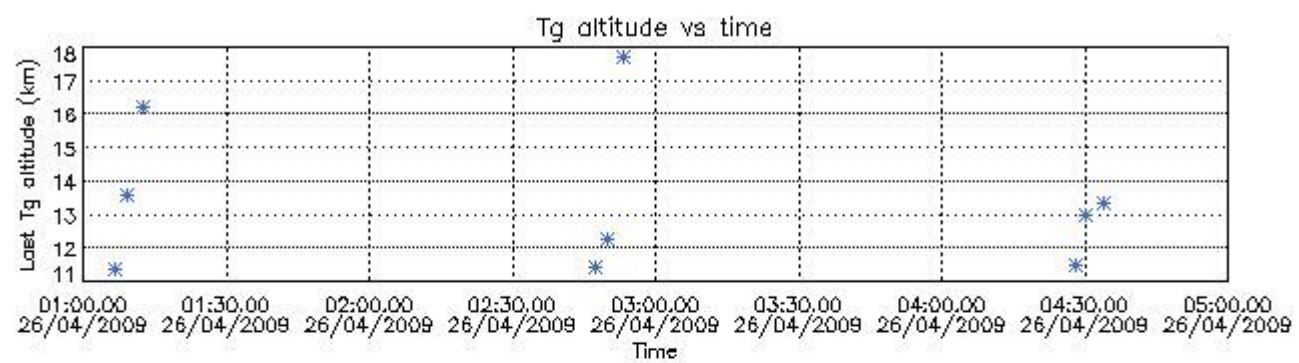
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.366	22.478	NaN
St. deviation:	2.2174	8.4646	NaN
Maximum:	17.687	45.264	NaN
Minimum:	11.364	12.844	NaN
Number of data:	9.0000	26.000	NaN

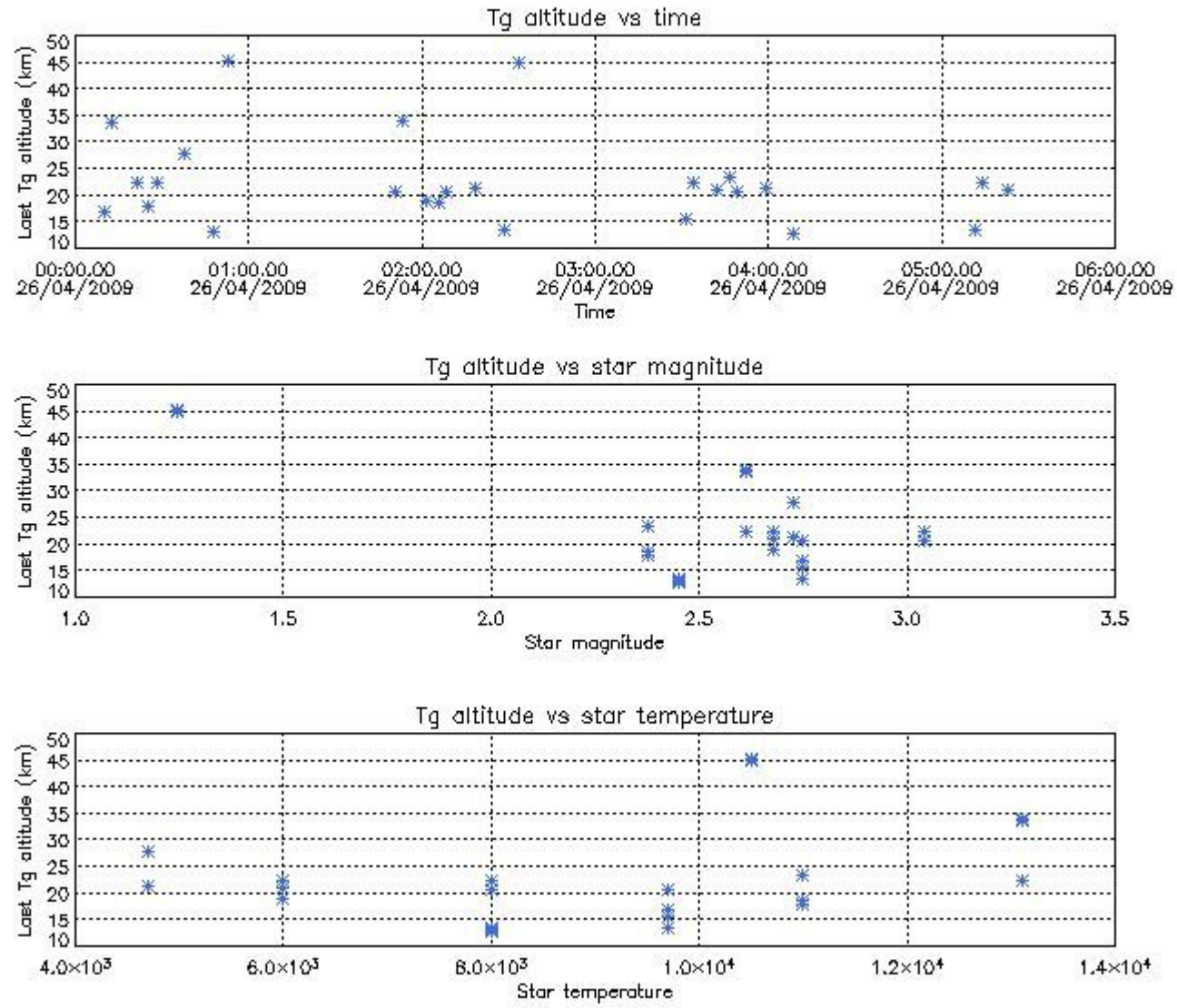
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

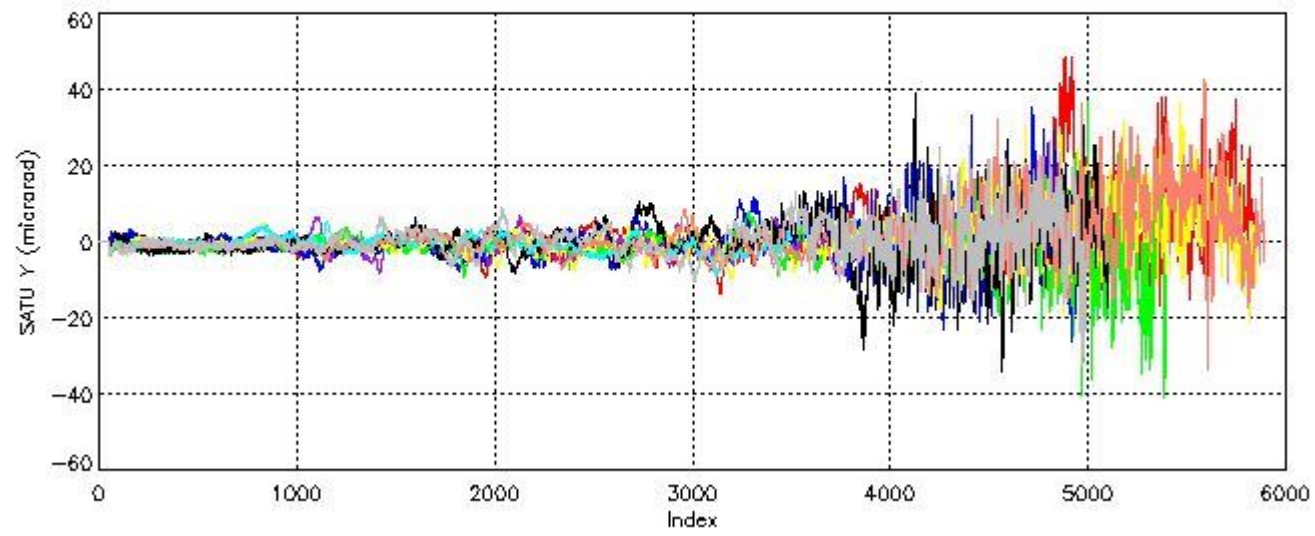
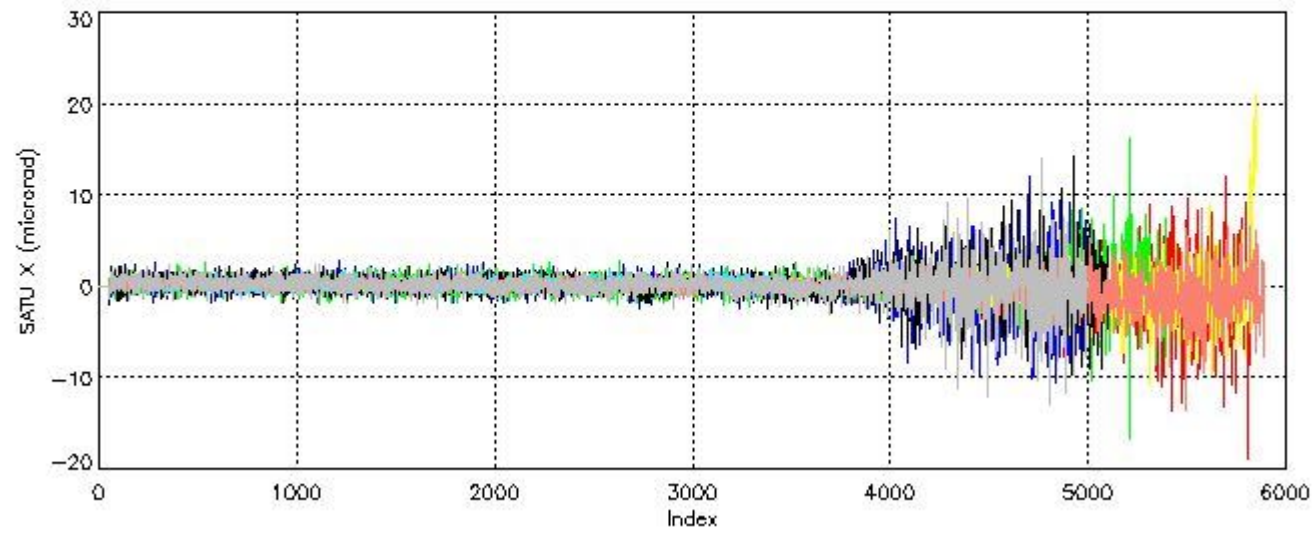


7. Star Acquisition and Tracking Unit (SATU)

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:	0.26817	-0.84841	0.32584	-0.63067
St. deviation:	0.53830	1.0969	0.96189	1.5932
Maximum:	2.5000	5.1000	5.4000	12.000
Minimum:	-2.4000	-5.4000	-5.0000	-6.8000

Number of data:	10250.	10250.	27500.	27500.
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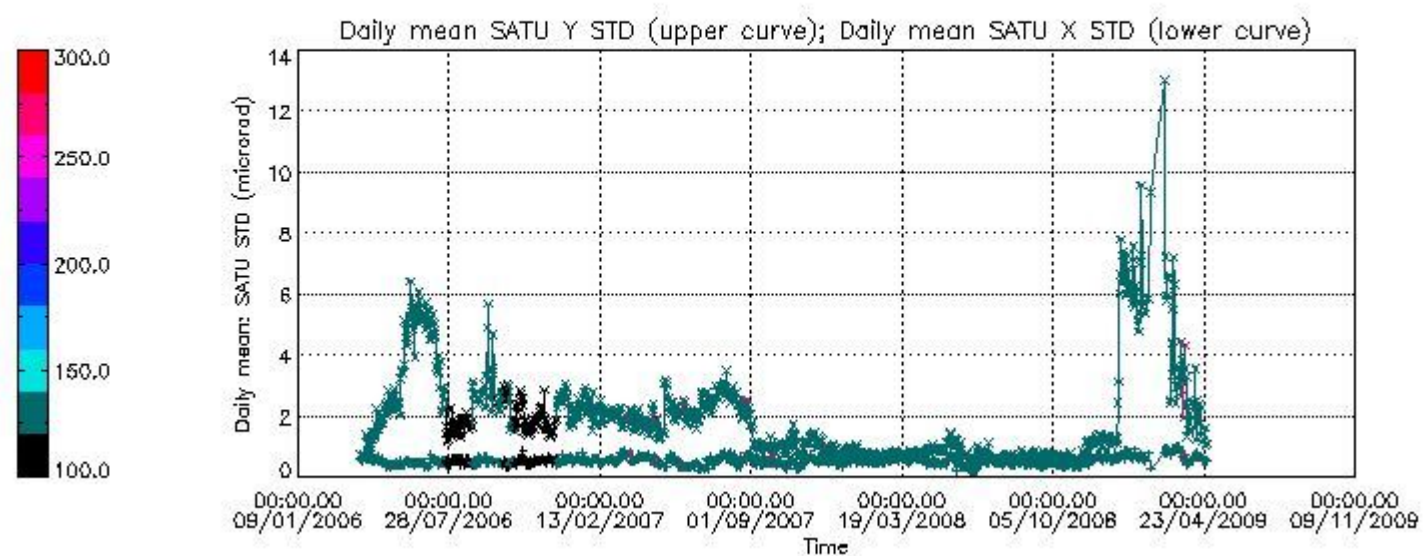
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

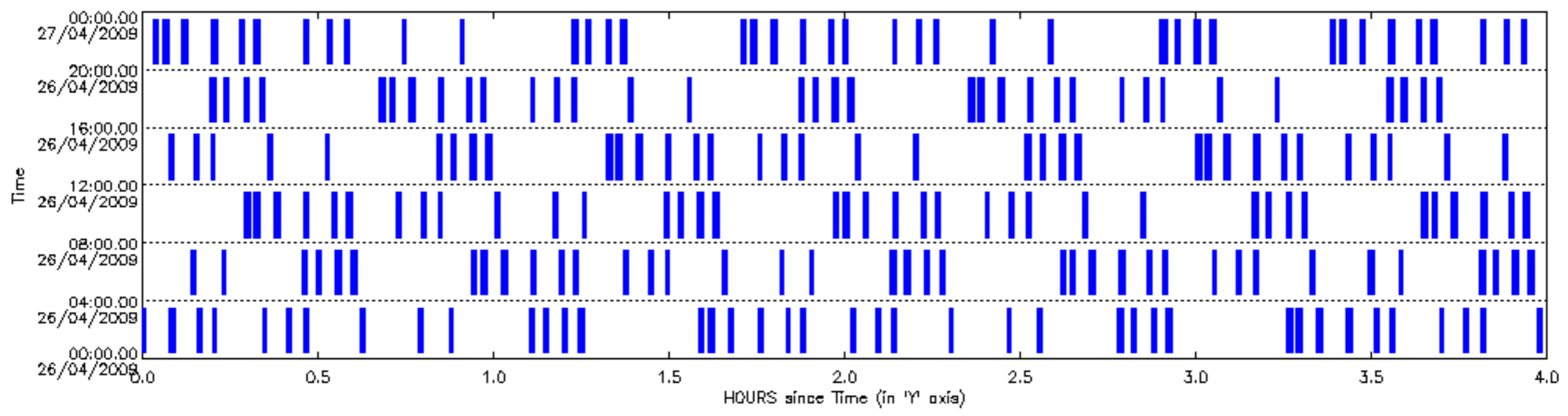
Lower curve: STD of SATU X axis

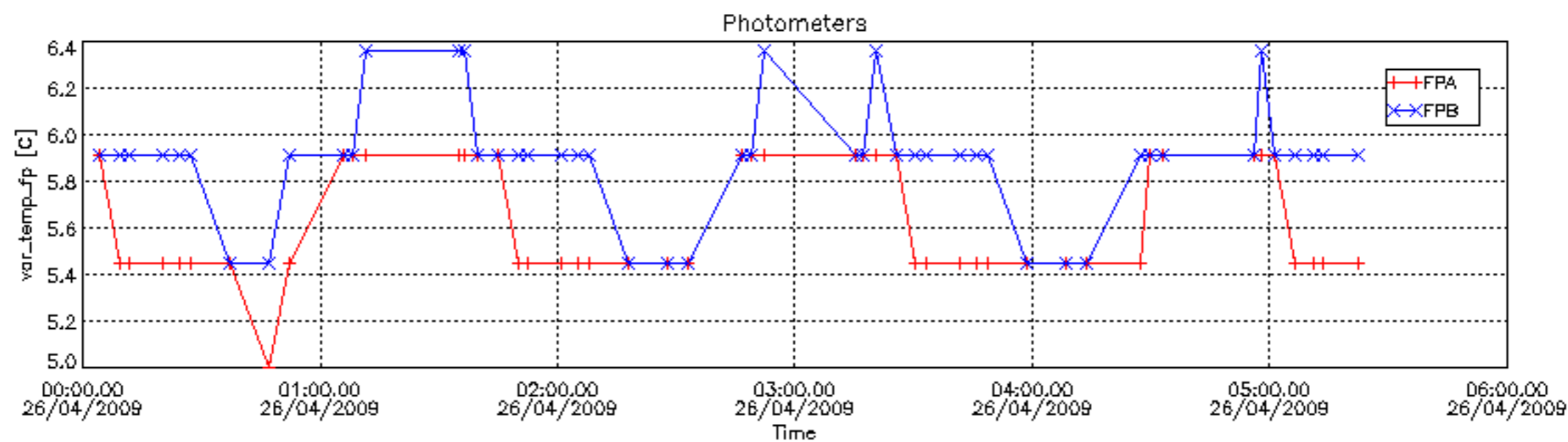
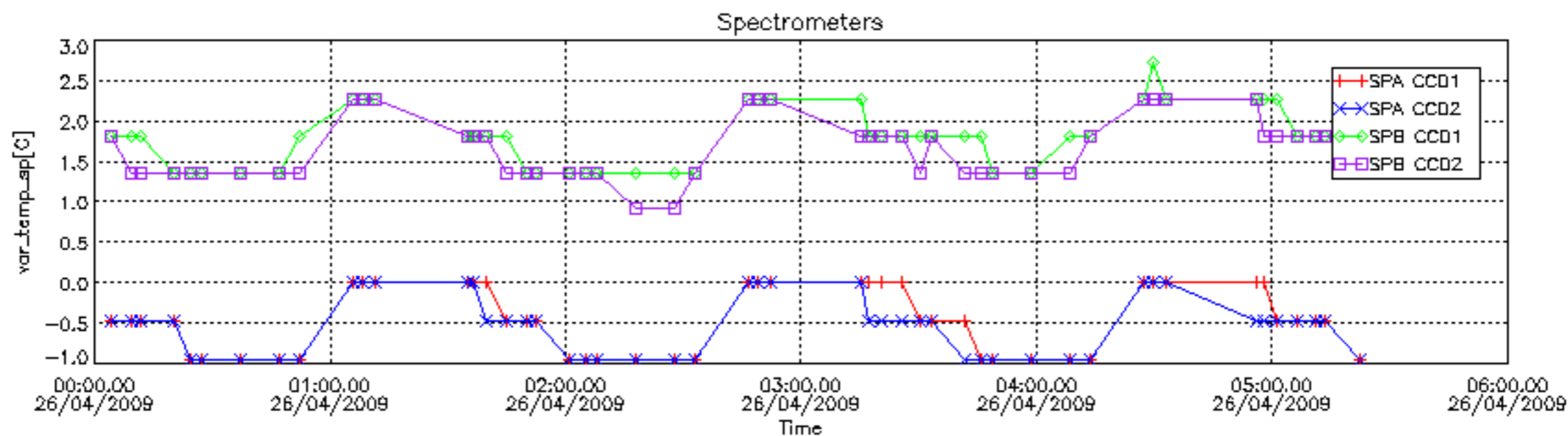


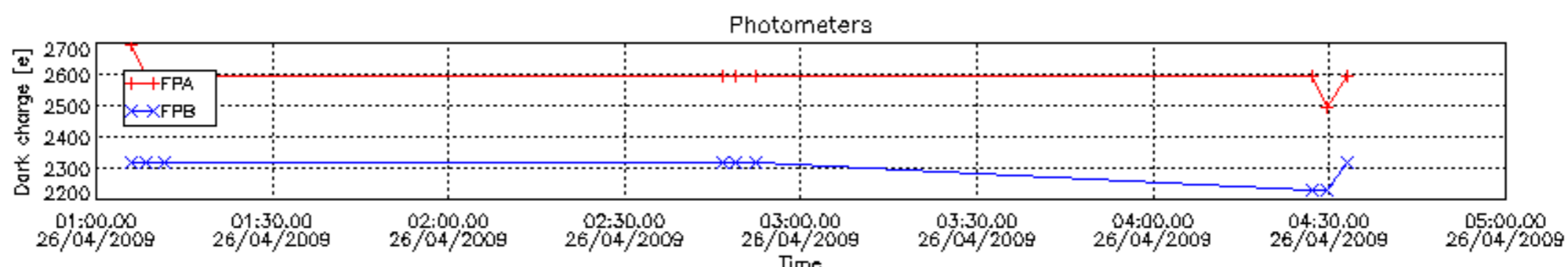
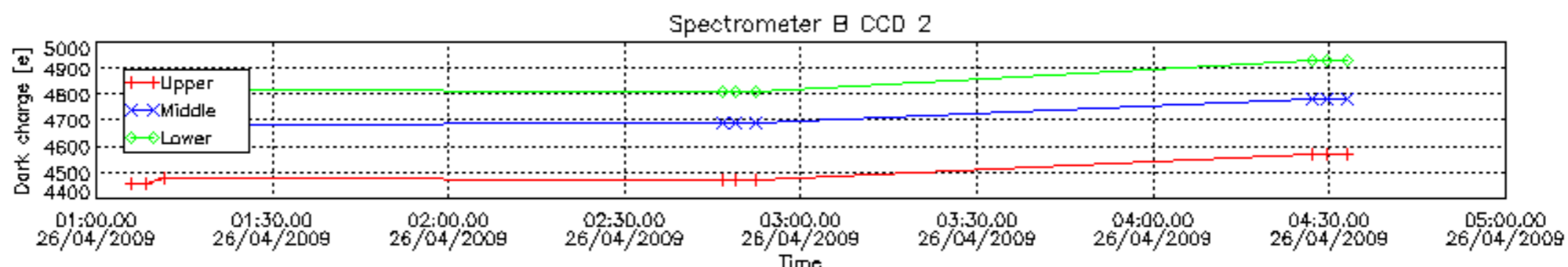
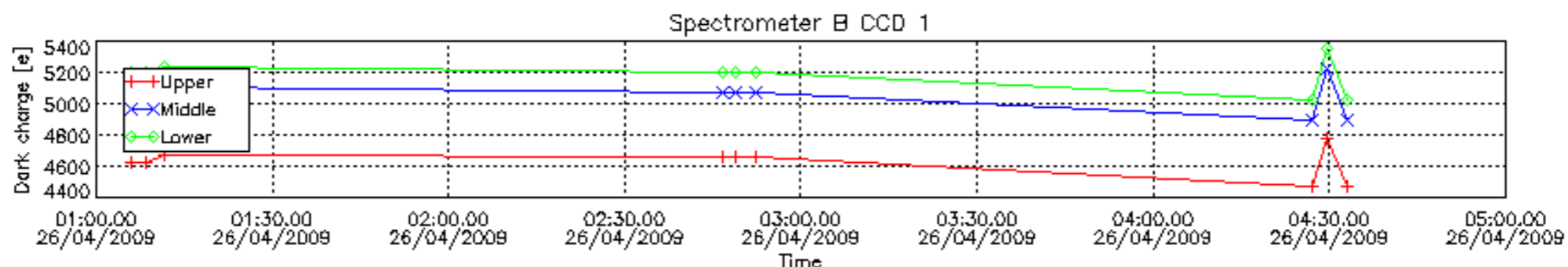
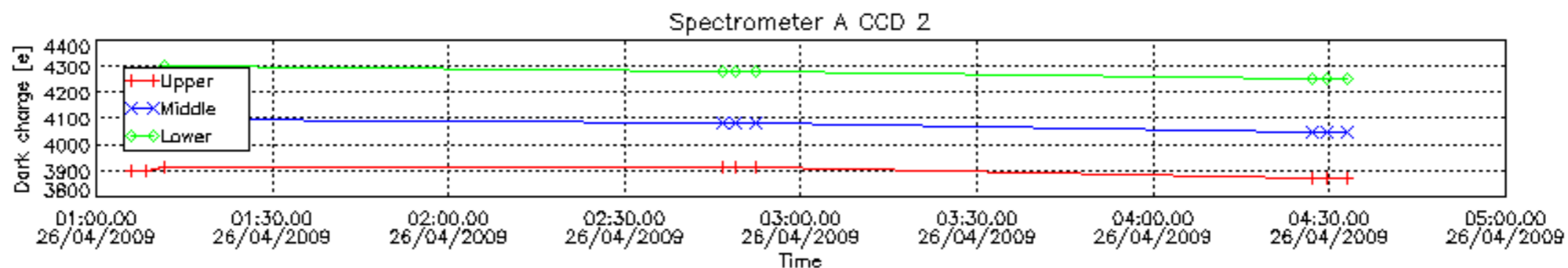
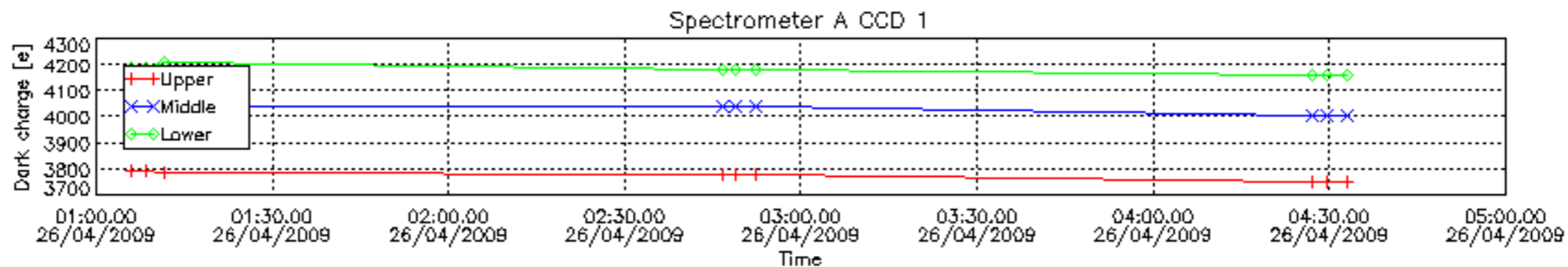
8. Auxiliary Data Files used for the production reported in section 2.4

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.

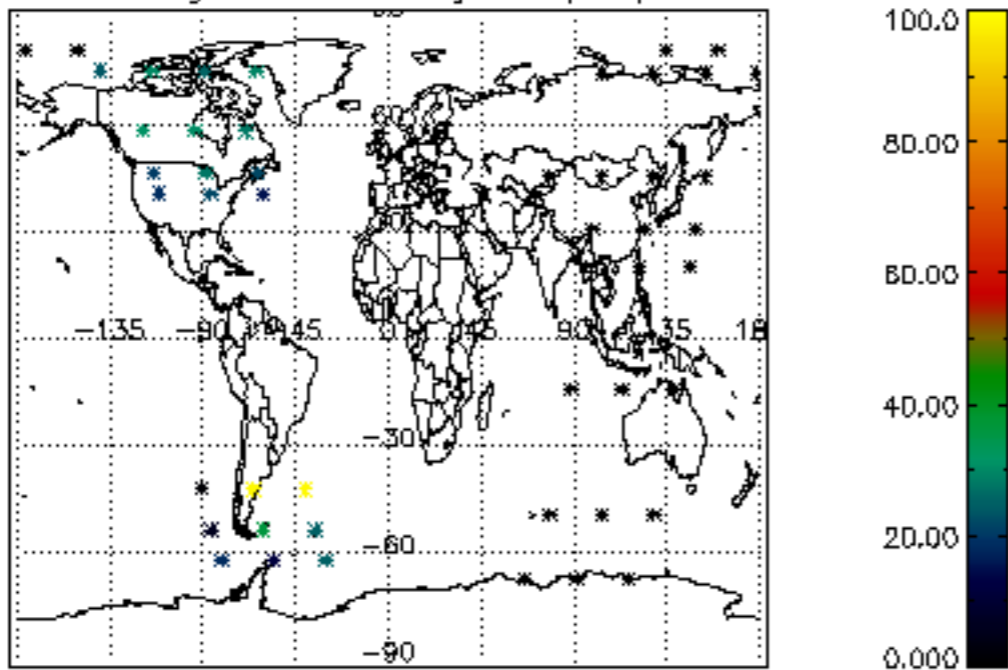
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090422_132334_20090420_000000_20100101_000000	1	26-APR-2009 00:04:27
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	26-APR-2009 00:04:27
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-APR-2009 00:04:27
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	26-APR-2009 00:04:27
ECMWF_FILE	AUX_ECF_AXNECM20090425_064112_20090425_210000_20090426_090000	1	26-APR-2009 00:04:27
ECMWF_FILE	AUX_ECF_AXNECM20090425_194113_20090426_030000_20090426_150000	38	26-APR-2009 04:08:14
OPTIONAL_ECMWF_FILE	MISSING	1	26-APR-2009 00:04:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090425_214824_000057382078_00272_37400_7824.N1	1	26-APR-2009 00:04:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090425_232921_000057382078_00273_37401_7825.N1	12	26-APR-2009 01:11:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090426_010459_000044632078_00274_37402_7826.N1	23	26-APR-2009 02:27:39
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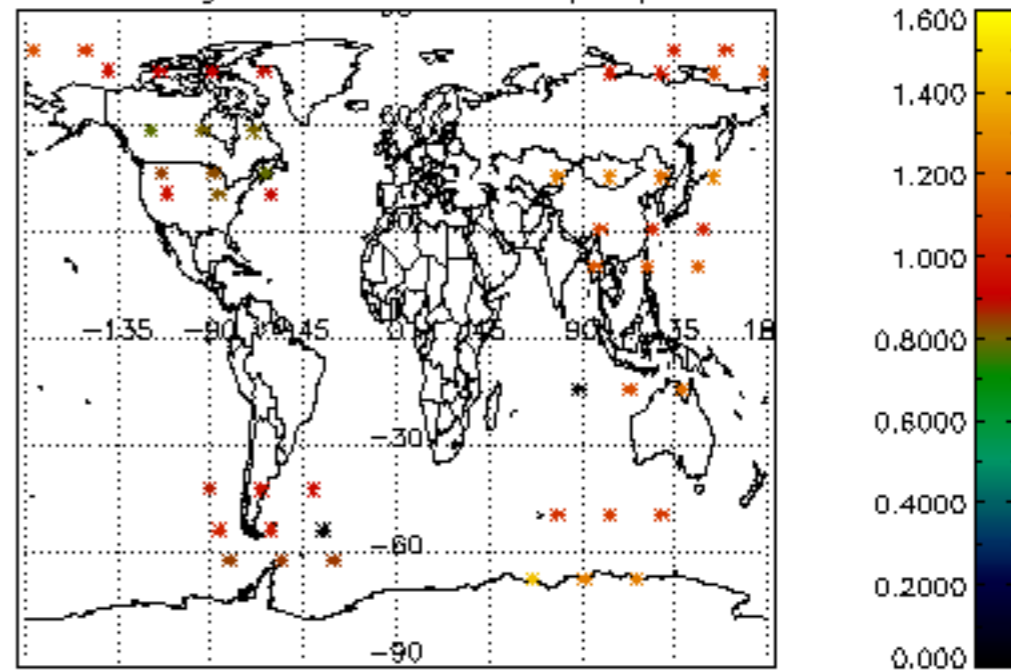




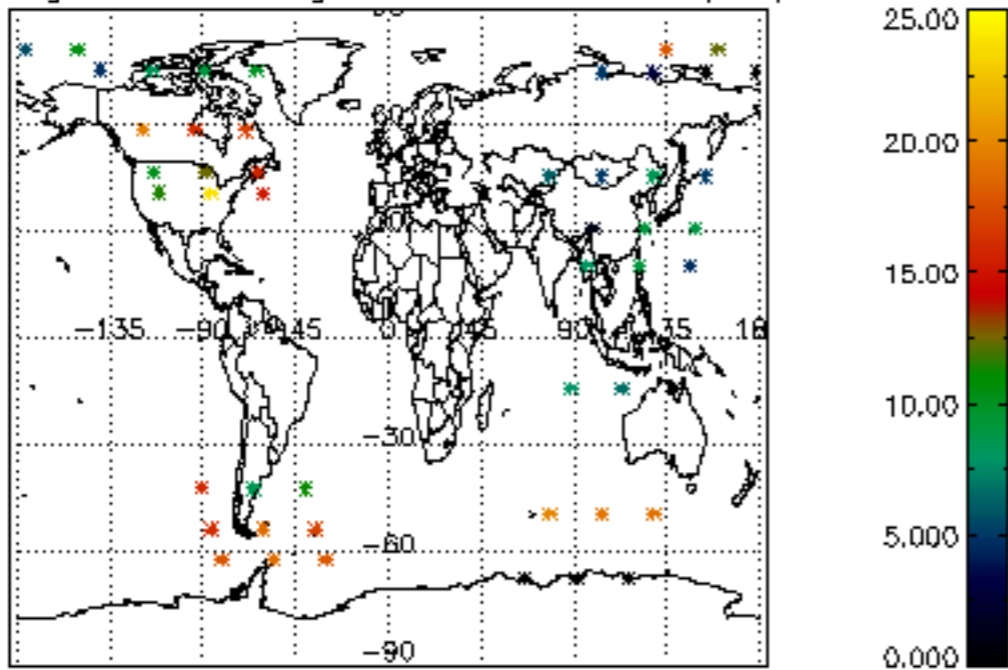
Percentage of cosmic ray hits per profile



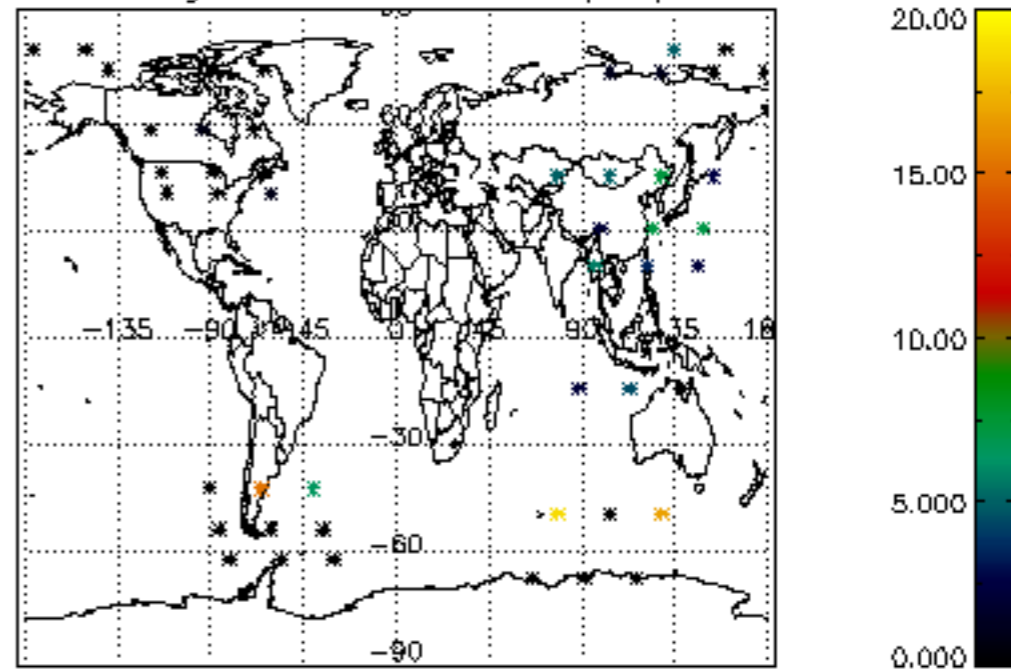
Percentage of datation errors per profile



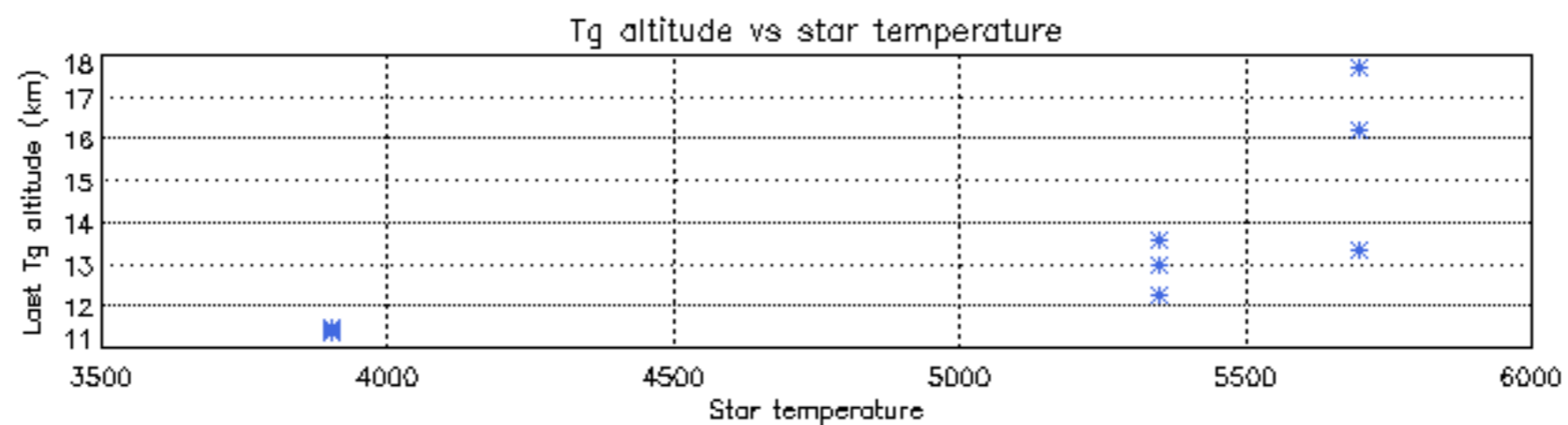
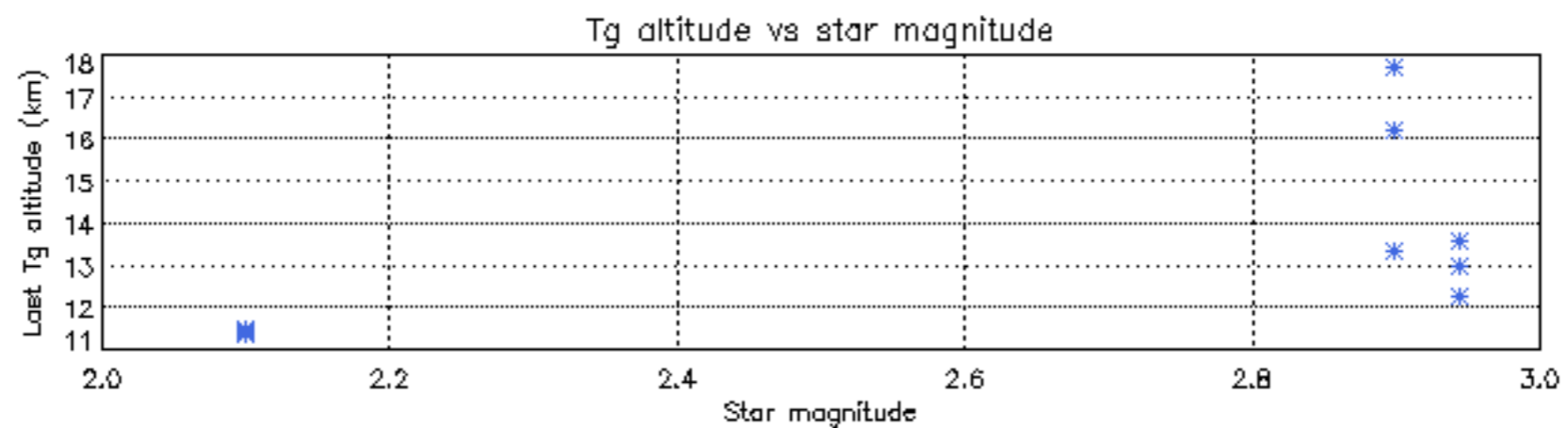
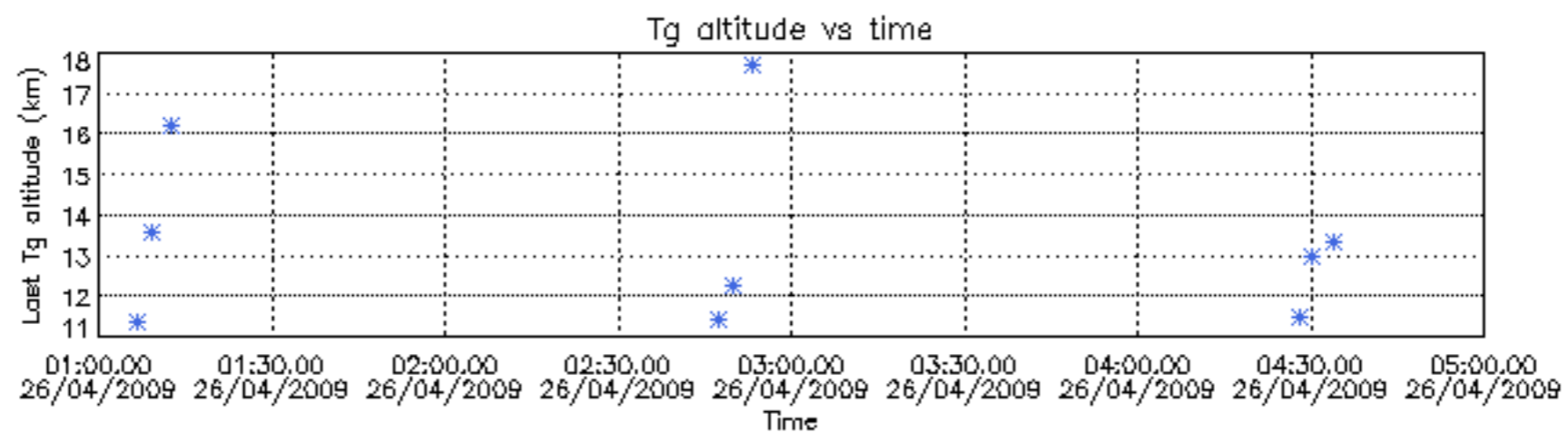
Percentage of star falling outside central band per profile



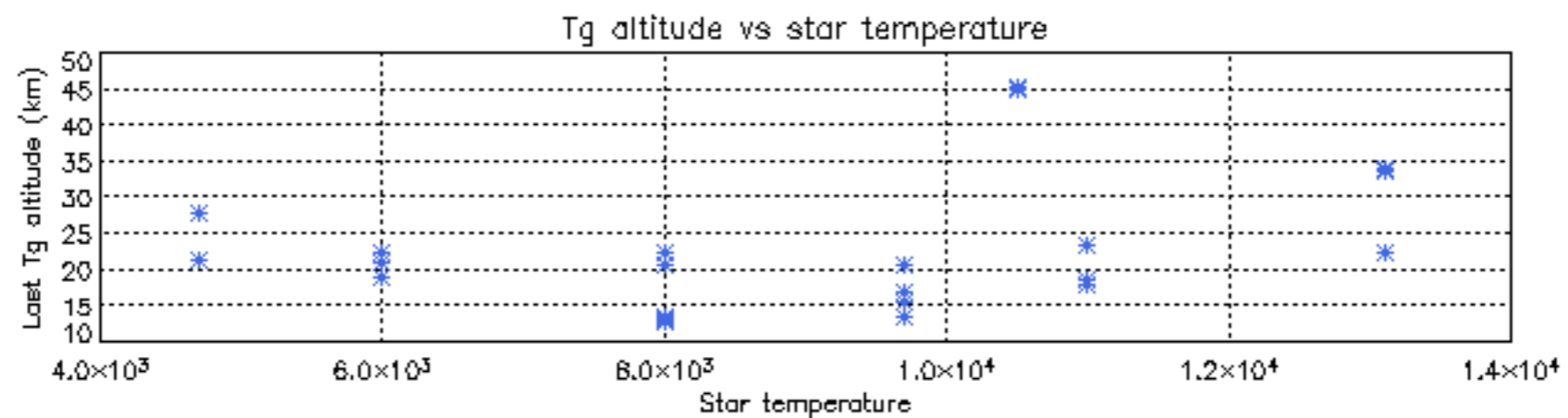
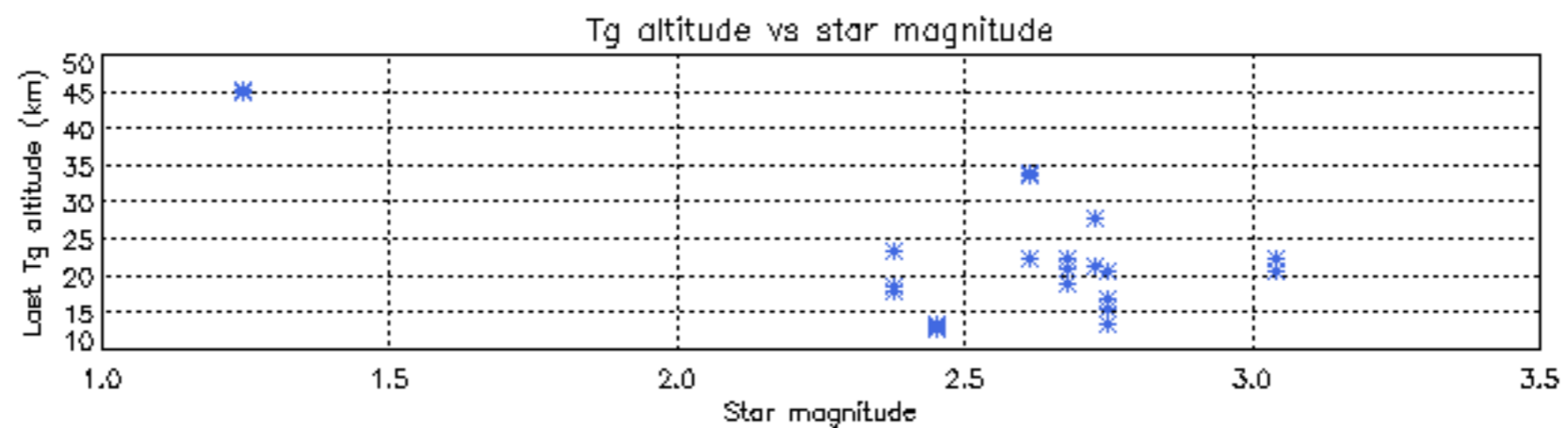
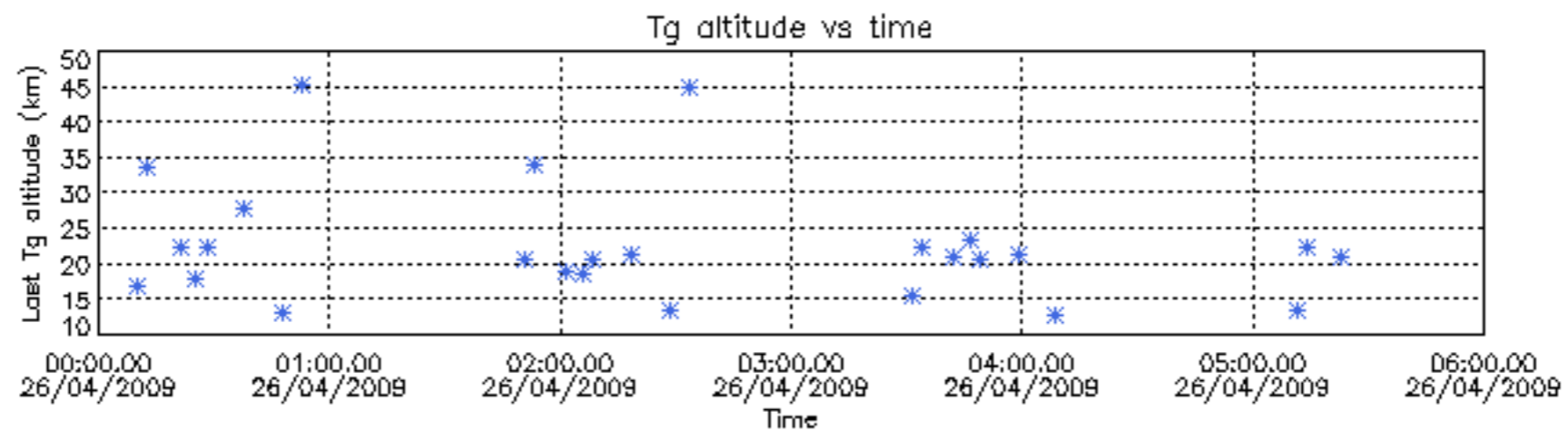
Percentage of saturation errors per profile

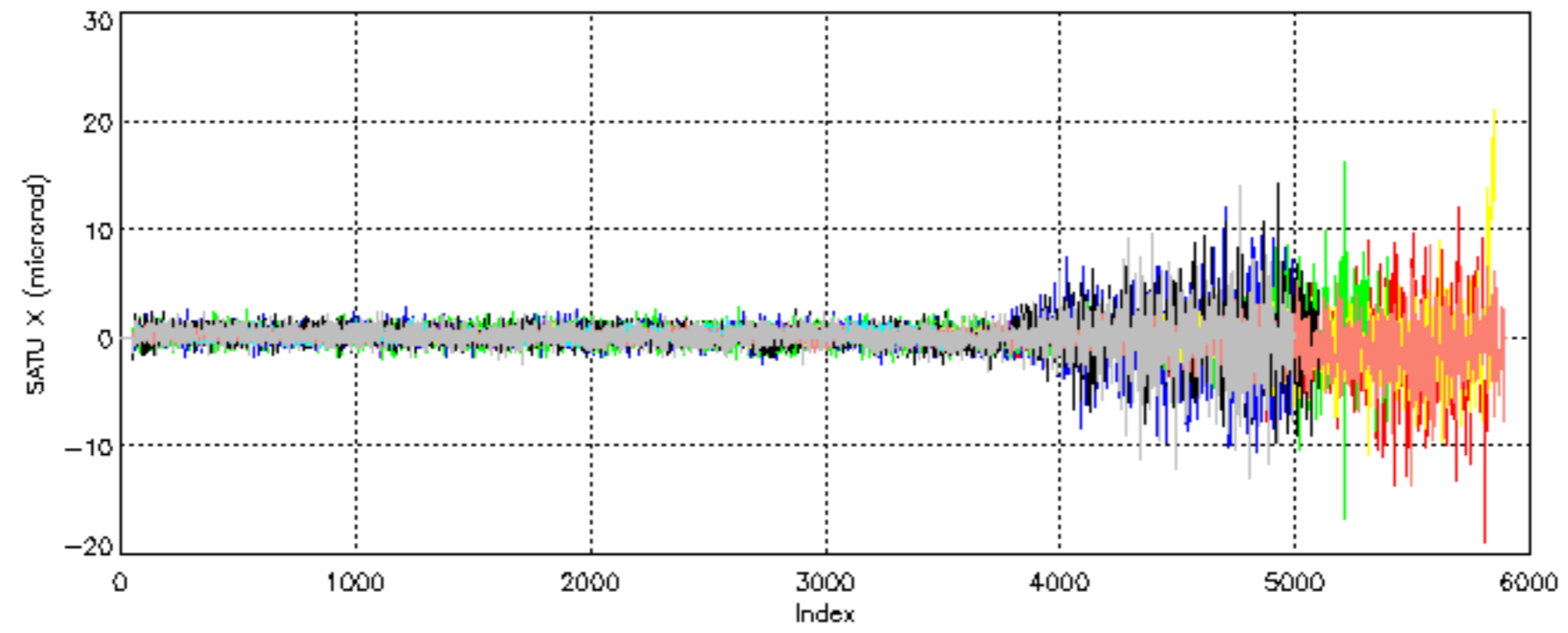


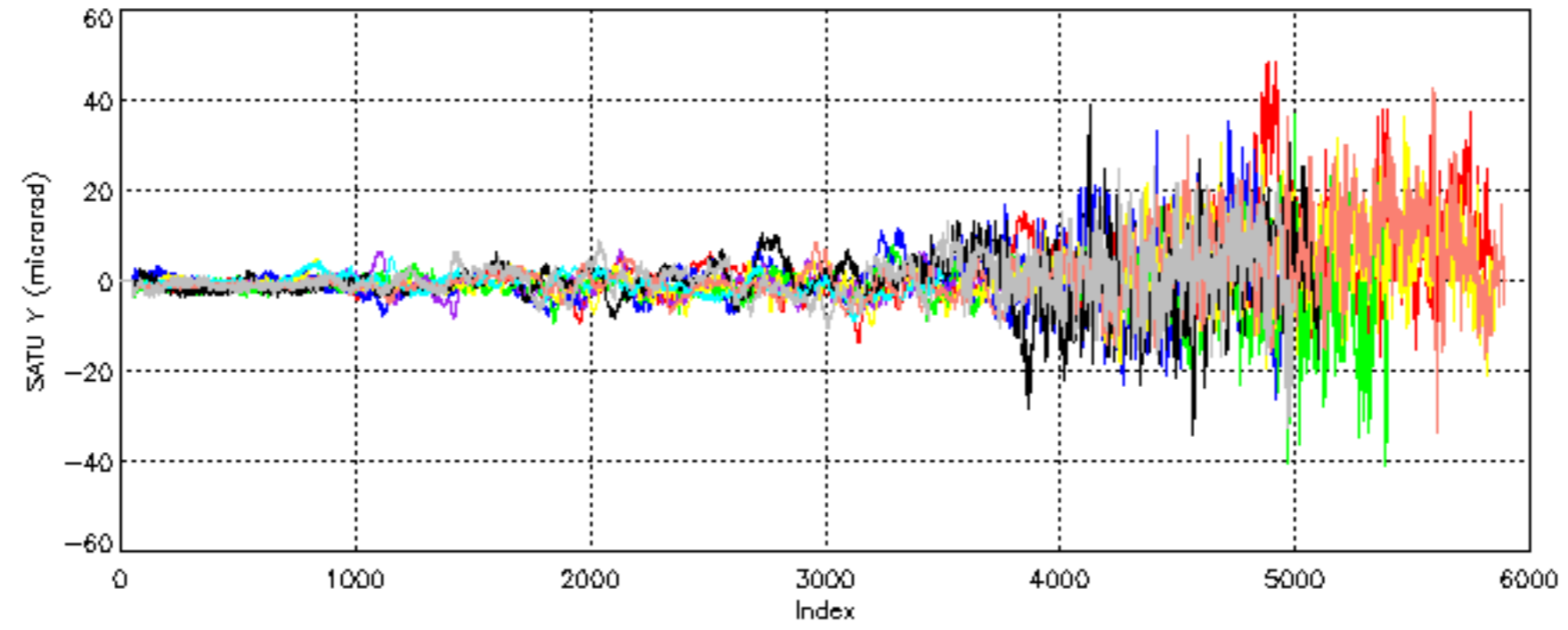
Tangent altitude at which the star is lost

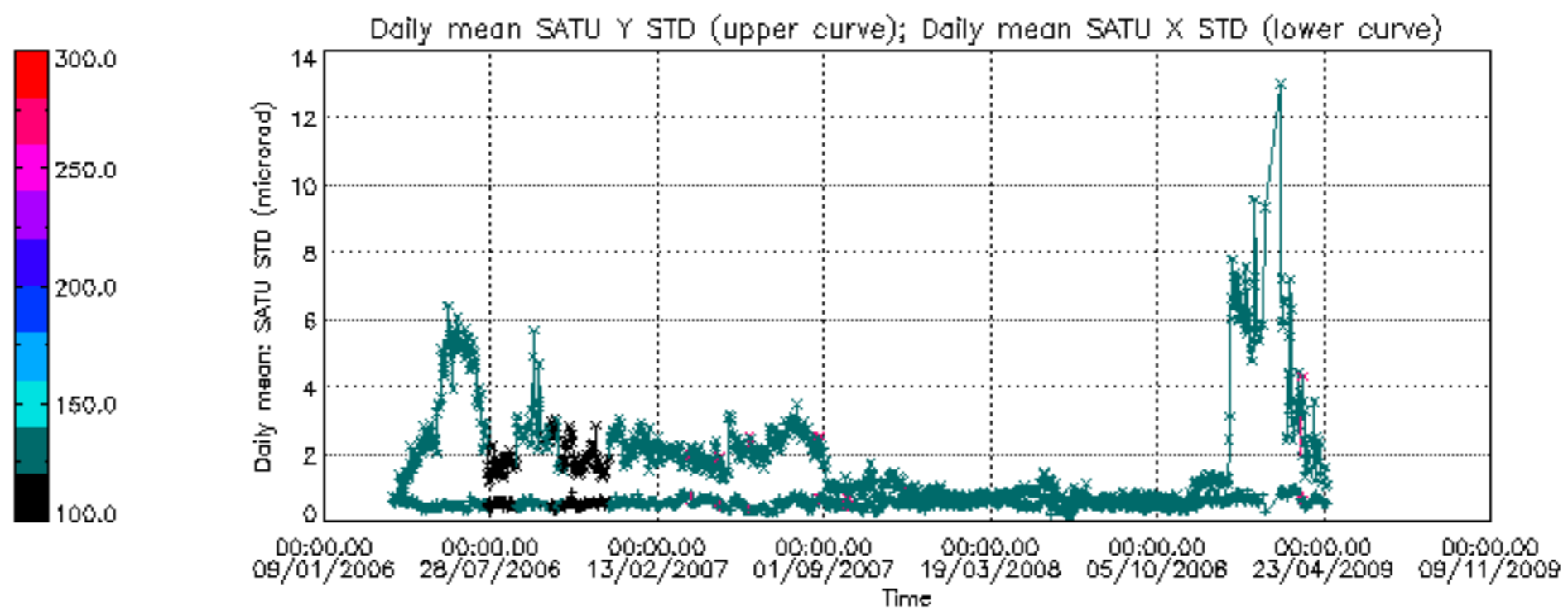


Tangent altitude at which the star is lost









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3; 2459.2; 30-APR-2009 11:42:14; Bright; 46.5; 83; ; 2.38; 11000;occ; 93; 0;37466
4; 2639.3; 30-APR-2009 11:45:14; Bright; 41.0; 180; 27Gam Boo ; 3.04; 8000;occ; 82; 0;37466
5; 3214.5; 30-APR-2009 11:54:49; Bright; 47.5; 119; 14Eta Dra ; 2.73; 4700;occ; 95; 0;37466
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7; 4507.6; 30-APR-2009 12:16:22; Bright; 42.0; 164; 44Eta Peg ; 2.95; 5400;occ; 84; 0;37466
8; 5027.3; 30-APR-2009 12:25:02; Dark ; 67.5; 61; 8Eps Peg ; 2.10; 3900;occ; 135; 0;37466
9; 5173.3; 30-APR-2009 12:27:28; Dark ; 54.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 109; 0;37466
10; 5394.1; 30-APR-2009 12:31:09; Dark ; 64.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 128; 0;37466

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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
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12; 5552.2; 30-APR-2009 14:14:23; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37467
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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
 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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