

GOMOS Daily Report 04-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 12:02:46
Data source version	GOMOS/5.00
Start time of products	04APR2009 00:02:24
Stop time of products	04APR2009 05:20:17
Store outputs in DB	No
Nb of level 1b prods	49
Nb of prods with errors	0

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

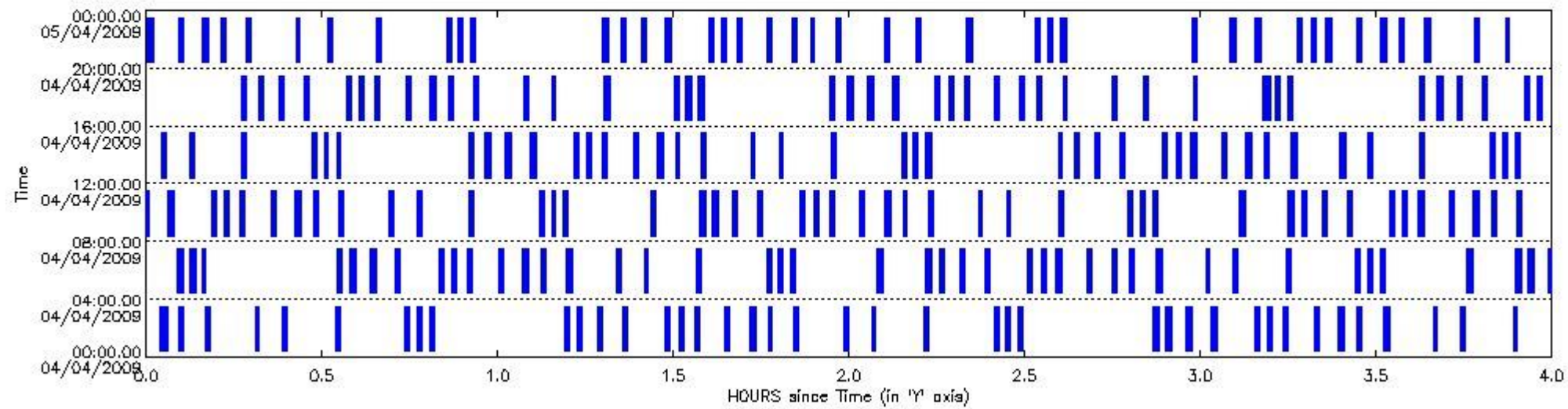
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

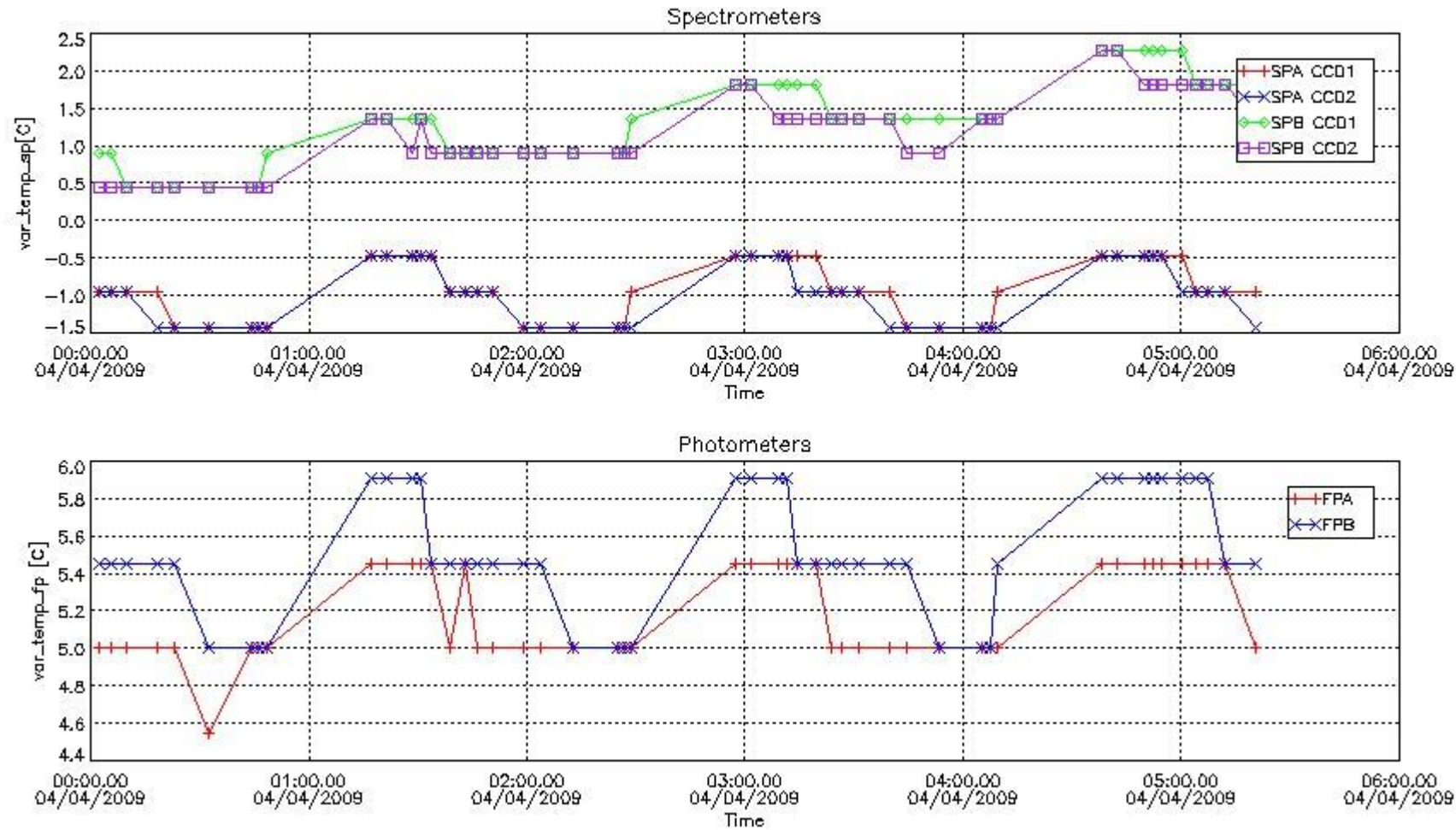
No missing products.

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_1PNPDE20090404_000224_000000672077_00460_37087_0964.N1	04-APR-2009 00:02:24	Bright	67.000	15	67Alp Vir	0.97600	28000.	134	37087	No
2	GOM_TRA_1PNPDE20090404_000535_000000432077_00460_37087_0965.N1	04-APR-2009 00:05:35	Bright	42.500	121	29Gam Vir	2.7400	7200.0	85	37087	No
3	GOM_TRA_1PNPDE20090404_001000_000000482077_00460_37087_0966.N1	04-APR-2009 00:10:00	Bright	47.500	138	47Eps Vir	2.8280	4700.0	95	37087	No
4	GOM_TRA_1PNPDE20090404_001830_000000432077_00460_37087_0967.N1	04-APR-2009 00:18:30	Bright	42.500	152	12Alp2CVn	2.8900	11000.	85	37087	No
5	GOM_TRA_1PNPDE20090404_002317_000000402077_00460_37087_0968.N1	04-APR-2009 00:23:17	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	37087	No
6	GOM_TRA_1PNPDE20090404_003215_000000462077_00460_37087_0969.N1	04-APR-2009 00:32:15	Bright	46.000	119	14Eta Dra	2.7270	4700.0	92	37087	No
7	GOM_TRA_1PNPDE20090404_004408_000000482077_00460_37087_0970.N1	04-APR-2009 00:44:08	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	37087	No
8	GOM_TRA_1PNPDE20090404_004609_000000472077_00460_37087_0971.N1	04-APR-2009 00:46:09	Bright	46.500	66	37Gam Cyg	2.2080	5900.0	93	37087	No
9	GOM_TRA_1PNPDE20090404_004815_000000542077_00460_37087_0972.N1	04-APR-2009 00:48:15	Bright	54.000	92	53Eps Cyg	2.5000	4500.0	108	37087	No
10	GOM_TRA_1PNPDE20090404_011659_000000552077_00461_37088_1096.N1	04-APR-2009 01:16:59	Dark	54.500	38	20Eps Sgr	1.8360	11000.	109	37088	No
11	GOM_TRA_1PNPDE20090404_012113_000000592077_00461_37088_1097.N1	04-APR-2009 01:21:13	Dark	58.500	25	35Lam Sco	1.6200	28000.	117	37088	No
12	GOM_TRA_1PNPDE20090404_012837_000000532077_00461_37088_1098.N1	04-APR-2009 01:28:37	Straylight	52.500	131	Gam Lup	2.8000	26000.	105	37088	No

13	GOM_TRA_1PNPDE20090404_013055_000000472077_00461_37088_1099.N1	04-APR-2009 01:30:55	Straylight	46.500	81	Eta Cen	2.3560	28000.	93	37088	No
14	GOM_TRA_1PNPDE20090404_013334_000000542077_00461_37088_1100.N1	04-APR-2009 01:33:34	Straylight	53.500	54	5The Cen	2.0550	4500.0	107	37088	No
15	GOM_TRA_1PNPDE20090404_013852_000000482077_00461_37088_1101.N1	04-APR-2009 01:38:52	Tw_i_and_stray	47.500	169	46Gam Hya	2.9910	4700.0	95	37088	No
16	GOM_TRA_1PNPDE20090404_014259_000000672077_00461_37088_1102.N1	04-APR-2009 01:42:59	Bright	67.000	15	67Alp Vir	0.97600	28000.	134	37088	No
17	GOM_TRA_1PNPDE20090404_014611_000000432077_00461_37088_1103.N1	04-APR-2009 01:46:11	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	37088	No
18	GOM_TRA_1PNPDE20090404_015035_000000472077_00461_37088_1104.N1	04-APR-2009 01:50:35	Bright	46.500	138	47Eps Vir	2.8280	4700.0	93	37088	No
19	GOM_TRA_1PNPDE20090404_015906_000000442077_00461_37088_1105.N1	04-APR-2009 01:59:06	Bright	43.500	152	12Alp2CVn	2.8900	11000.	87	37088	No
20	GOM_TRA_1PNPDE20090404_020353_000000382077_00461_37088_1106.N1	04-APR-2009 02:03:53	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	37088	No
21	GOM_TRA_1PNPDE20090404_021250_000000482077_00461_37088_1107.N1	04-APR-2009 02:12:50	Bright	47.500	119	14Eta Dra	2.7270	4700.0	95	37088	No
22	GOM_TRA_1PNPDE20090404_022444_000000472077_00461_37088_1223.N1	04-APR-2009 02:24:44	Bright	47.000	144	18Del Cyg	2.8600	11000.	94	37088	No
23	GOM_TRA_1PNPDE20090404_022644_000000452077_00461_37088_1224.N1	04-APR-2009 02:26:44	Bright	45.000	66	37Gam Cyg	2.2080	5900.0	90	37088	No
24	GOM_TRA_1PNPDE20090404_022851_000000462077_00461_37088_1225.N1	04-APR-2009 02:28:51	Bright	45.500	92	53Eps Cyg	2.5000	4500.0	91	37088	No
25	GOM_TRA_1PNPDE20090404_025737_000000552077_00462_37089_1228.N1	04-APR-2009 02:57:37	Dark	55.000	38	20Eps Sgr	1.8360	11000.	110	37089	No
26	GOM_TRA_1PNPDE20090404_030151_000000562077_00462_37089_1229.N1	04-APR-2009 03:01:51	Dark	56.000	25	35Lam Sco	1.6200	28000.	112	37089	No
27	GOM_TRA_1PNPDE20090404_030914_000000502077_00462_37089_1230.N1	04-APR-2009 03:09:14	Straylight	50.000	131	Gam Lup	2.8000	26000.	100	37089	No
28	GOM_TRA_1PNPDE20090404_031132_000000472077_00462_37089_1231.N1	04-APR-2009 03:11:32	Straylight	46.500	81	Eta Cen	2.3560	28000.	93	37089	No
29	GOM_TRA_1PNPDE20090404_031411_000000502077_00462_37089_1232.N1	04-APR-2009 03:14:11	Straylight	50.000	54	5The Cen	2.0550	4500.0	100	37089	No
30	GOM_TRA_1PNPDE20090404_031928_000000472077_00462_37089_1233.N1	04-APR-2009 03:19:28	Tw_i_and_stray	47.000	169	46Gam Hya	2.9910	4700.0	94	37089	No
31	GOM_TRA_1PNPDE20090404_032335_000000622077_00462_37089_1234.N1	04-APR-2009 03:23:35	Bright	61.500	15	67Alp Vir	0.97600	28000.	123	37089	No
32	GOM_TRA_1PNPDE20090404_032647_000000432077_00462_37089_1235.N1	04-APR-2009 03:26:47	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	37089	No
33	GOM_TRA_1PNPDE20090404_033111_000000662077_00462_37089_1236.N1	04-APR-2009 03:31:11	Bright	66.000	138	47Eps Vir	2.8280	4700.0	132	37089	No
34	GOM_TRA_1PNPDE20090404_033941_000000412077_00462_37089_1237.N1	04-APR-2009 03:39:41	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	37089	No
35	GOM_TRA_1PNPDE20090404_034428_000000402077_00462_37089_1238.N1	04-APR-2009 03:44:28	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	37089	No
36	GOM_TRA_1PNPDE20090404_035326_000000442077_00462_37089_1239.N1	04-APR-2009 03:53:26	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	37089	No
37	GOM_TRA_1PNPDE20090404_040520_000000522077_00462_37089_1419.N1	04-APR-2009 04:05:20	Bright	52.000	144	18Del Cyg	2.8600	11000.	104	37089	No
38	GOM_TRA_1PNPDE20090404_040720_000000652077_00462_37089_1420.N1	04-APR-2009 04:07:20	Bright	65.000	66	37Gam Cyg	2.2080	5900.0	130	37089	No
39	GOM_TRA_1PNPDE20090404_040927_000000442077_00462_37089_1421.N1	04-APR-2009 04:09:27	Bright	43.500	92	53Eps Cyg	2.5000	4500.0	87	37089	No
40	GOM_TRA_1PNPDE20090404_043814_000000572077_00463_37090_1424.N1	04-APR-2009 04:38:14	Dark	57.000	38	20Eps Sgr	1.8360	11000.	114	37090	No
41	GOM_TRA_1PNPDE20090404_044228_000000562077_00463_37090_1425.N1	04-APR-2009 04:42:28	Dark	56.000	25	35Lam Sco	1.6200	28000.	112	37090	No
42	GOM_TRA_1PNPDE20090404_044951_000000502077_00463_37090_1426.N1	04-APR-2009 04:49:51	Straylight	50.000	131	Gam Lup	2.8000	26000.	100	37090	No
43	GOM_TRA_1PNPDE20090404_045208_000000482077_00463_37090_1427.N1	04-APR-2009 04:52:08	Straylight	47.500	81	Eta Cen	2.3560	28000.	95	37090	No
44	GOM_TRA_1PNPDE20090404_045447_000000532077_00463_37090_1428.N1	04-APR-2009 04:54:47	Straylight	52.500	54	5The Cen	2.0550	4500.0	105	37090	No
45	GOM_TRA_1PNPDE20090404_050005_000000472077_00463_37090_1429.N1	04-APR-2009 05:00:05	Tw_i_and_stray	47.000	169	46Gam Hya	2.9910	4700.0	94	37090	No
46	GOM_TRA_1PNPDE20090404_050412_000000592077_00463_37090_1430.N1	04-APR-2009 05:04:12	Bright	59.000	15	67Alp Vir	0.97600	28000.	118	37090	No
47	GOM_TRA_1PNPDE20090404_050722_000000432077_00463_37090_1431.N1	04-APR-2009 05:07:22	Bright	42.500	121	29Gam Vir	2.7400	7200.0	85	37090	No
48	GOM_TRA_1PNPDE20090404_051146_000000662077_00463_37090_1432.N1	04-APR-2009 05:11:46	Bright	66.000	138	47Eps Vir	2.8280	4700.0	132	37090	No
49	GOM_TRA_1PNPDE20090404_052017_000000412077_00463_37090_1433.N1	04-APR-2009 05:20:17	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	37090	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).

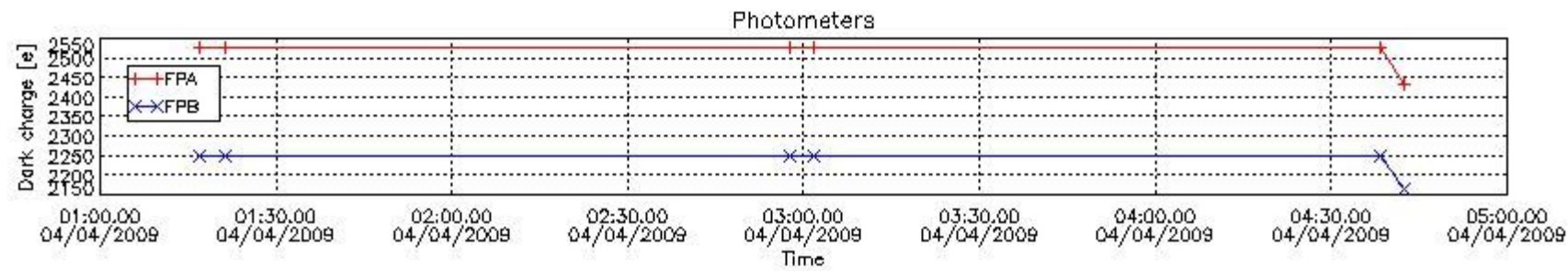
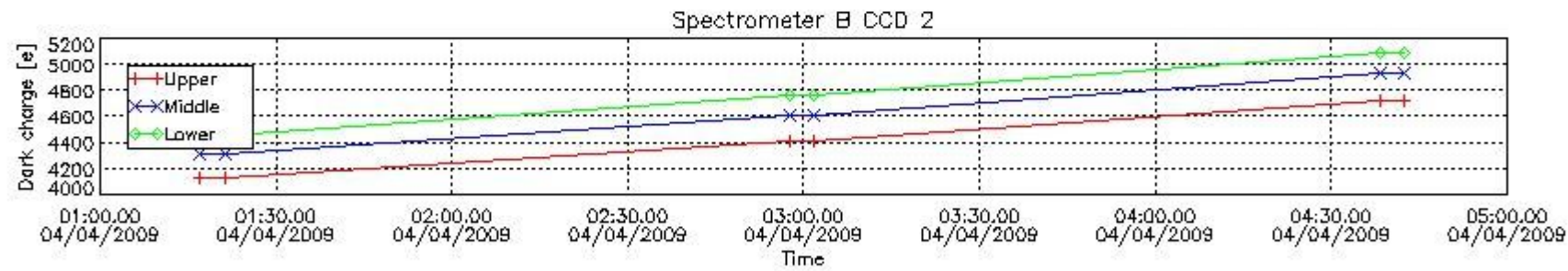
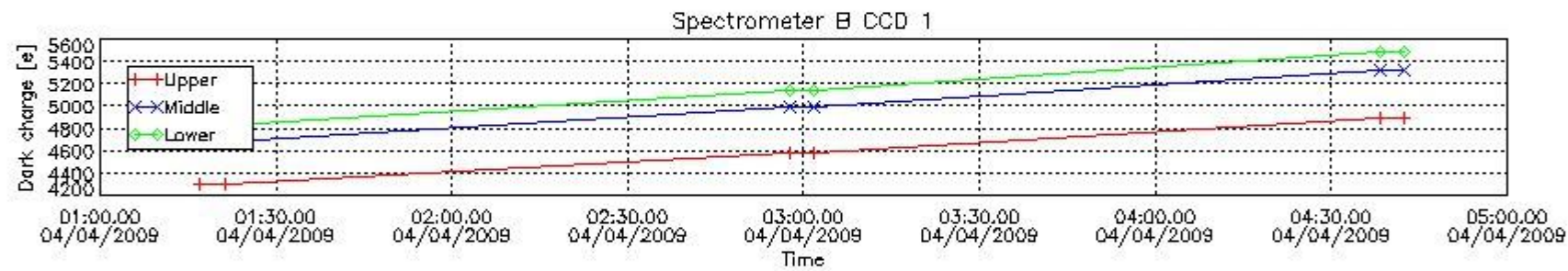
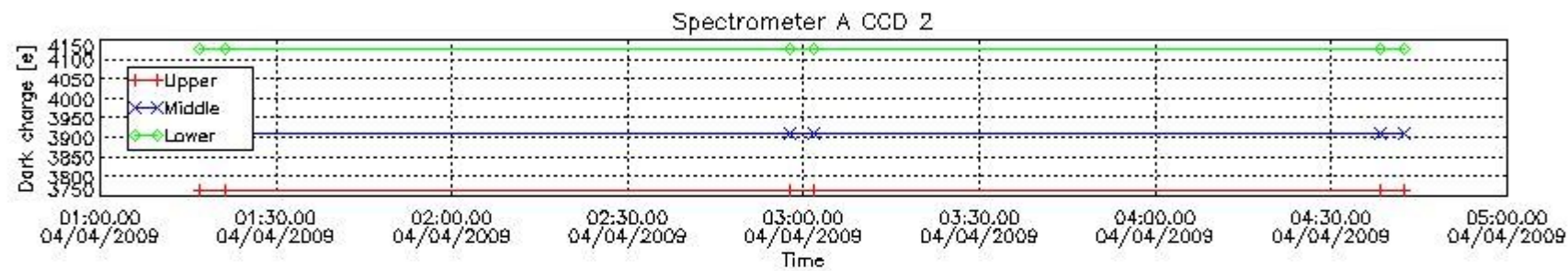
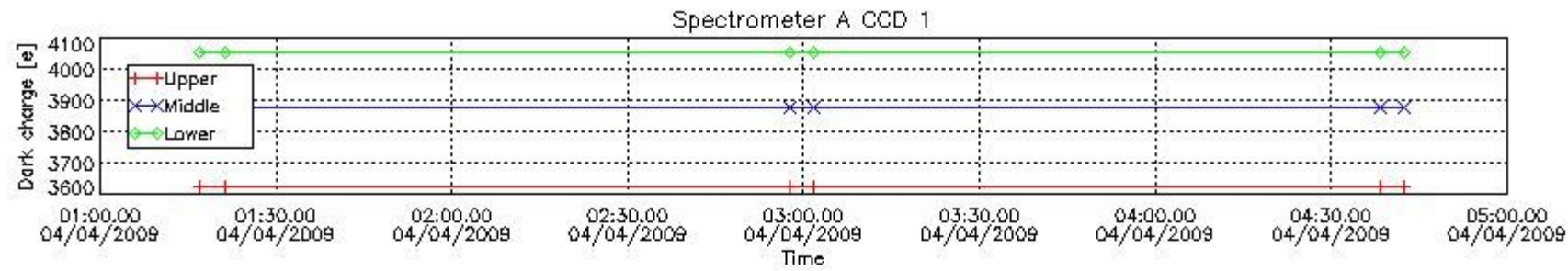
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090404_000224_000000672077_00460_37087_0964.N1	DC map used
GOM_TRA_1PNPDE20090404_000535_000000432077_00460_37087_0965.N1	DC map used
GOM_TRA_1PNPDE20090404_001000_000000482077_00460_37087_0966.N1	DC map used
GOM_TRA_1PNPDE20090404_001830_000000432077_00460_37087_0967.N1	DC map used
GOM_TRA_1PNPDE20090404_002317_000000402077_00460_37087_0968.N1	DC map used
GOM_TRA_1PNPDE20090404_003215_000000462077_00460_37087_0969.N1	DC map used
GOM_TRA_1PNPDE20090404_004408_000000482077_00460_37087_0970.N1	DC map used
GOM_TRA_1PNPDE20090404_004609_000000472077_00460_37087_0971.N1	DC map used
GOM_TRA_1PNPDE20090404_004815_000000542077_00460_37087_0972.N1	DC map used
GOM_TRA_1PNPDE20090404_011659_000000552077_00461_37088_1096.N1	DC map used
GOM_TRA_1PNPDE20090404_012113_000000592077_00461_37088_1097.N1	DC map used
GOM_TRA_1PNPDE20090404_012837_000000532077_00461_37088_1098.N1	DC map used
GOM_TRA_1PNPDE20090404_013055_000000472077_00461_37088_1099.N1	DC map used
GOM_TRA_1PNPDE20090404_013334_000000542077_00461_37088_1100.N1	DC map used

GOM_TRA_1PNPDE20090404_013852_000000482077_00461_37088_1101.N1	DC map used
GOM_TRA_1PNPDE20090404_014259_000000672077_00461_37088_1102.N1	DC map used
GOM_TRA_1PNPDE20090404_014611_000000432077_00461_37088_1103.N1	DC map used
GOM_TRA_1PNPDE20090404_015035_000000472077_00461_37088_1104.N1	DC map used
GOM_TRA_1PNPDE20090404_015906_000000442077_00461_37088_1105.N1	DC map used
GOM_TRA_1PNPDE20090404_020353_000000382077_00461_37088_1106.N1	DC map used
GOM_TRA_1PNPDE20090404_021250_000000482077_00461_37088_1107.N1	DC map used
GOM_TRA_1PNPDE20090404_022444_000000472077_00461_37088_1223.N1	DC map used
GOM_TRA_1PNPDE20090404_022644_000000452077_00461_37088_1224.N1	DC map used
GOM_TRA_1PNPDE20090404_022851_000000462077_00461_37088_1225.N1	DC map used
GOM_TRA_1PNPDE20090404_025737_000000552077_00462_37089_1228.N1	DC map used
GOM_TRA_1PNPDE20090404_030151_000000562077_00462_37089_1229.N1	DC map used
GOM_TRA_1PNPDE20090404_030914_000000502077_00462_37089_1230.N1	DC map used
GOM_TRA_1PNPDE20090404_031132_000000472077_00462_37089_1231.N1	DC map used
GOM_TRA_1PNPDE20090404_031411_000000502077_00462_37089_1232.N1	DC map used
GOM_TRA_1PNPDE20090404_031928_000000472077_00462_37089_1233.N1	DC map used
GOM_TRA_1PNPDE20090404_032335_000000622077_00462_37089_1234.N1	DC map used
GOM_TRA_1PNPDE20090404_032647_000000432077_00462_37089_1235.N1	DC map used
GOM_TRA_1PNPDE20090404_033111_000000662077_00462_37089_1236.N1	DC map used
GOM_TRA_1PNPDE20090404_033941_000000412077_00462_37089_1237.N1	DC map used
GOM_TRA_1PNPDE20090404_034428_000000402077_00462_37089_1238.N1	DC map used
GOM_TRA_1PNPDE20090404_035326_000000442077_00462_37089_1239.N1	DC map used
GOM_TRA_1PNPDE20090404_040520_000000522077_00462_37089_1419.N1	DC map used
GOM_TRA_1PNPDE20090404_040720_000000652077_00462_37089_1420.N1	DC map used
GOM_TRA_1PNPDE20090404_040927_000000442077_00462_37089_1421.N1	DC map used
GOM_TRA_1PNPDE20090404_043814_000000572077_00463_37090_1424.N1	DC map used
GOM_TRA_1PNPDE20090404_044228_000000562077_00463_37090_1425.N1	DC map used
GOM_TRA_1PNPDE20090404_044951_000000502077_00463_37090_1426.N1	DC map used
GOM_TRA_1PNPDE20090404_045208_000000482077_00463_37090_1427.N1	DC map used
GOM_TRA_1PNPDE20090404_045447_000000532077_00463_37090_1428.N1	DC map used
GOM_TRA_1PNPDE20090404_050005_000000472077_00463_37090_1429.N1	DC map used
GOM_TRA_1PNPDE20090404_050412_000000592077_00463_37090_1430.N1	DC map used
GOM_TRA_1PNPDE20090404_050722_000000432077_00463_37090_1431.N1	DC map used
GOM_TRA_1PNPDE20090404_051146_000000662077_00463_37090_1432.N1	DC map used
GOM_TRA_1PNPDE20090404_052017_000000412077_00463_37090_1433.N1	DC map used

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



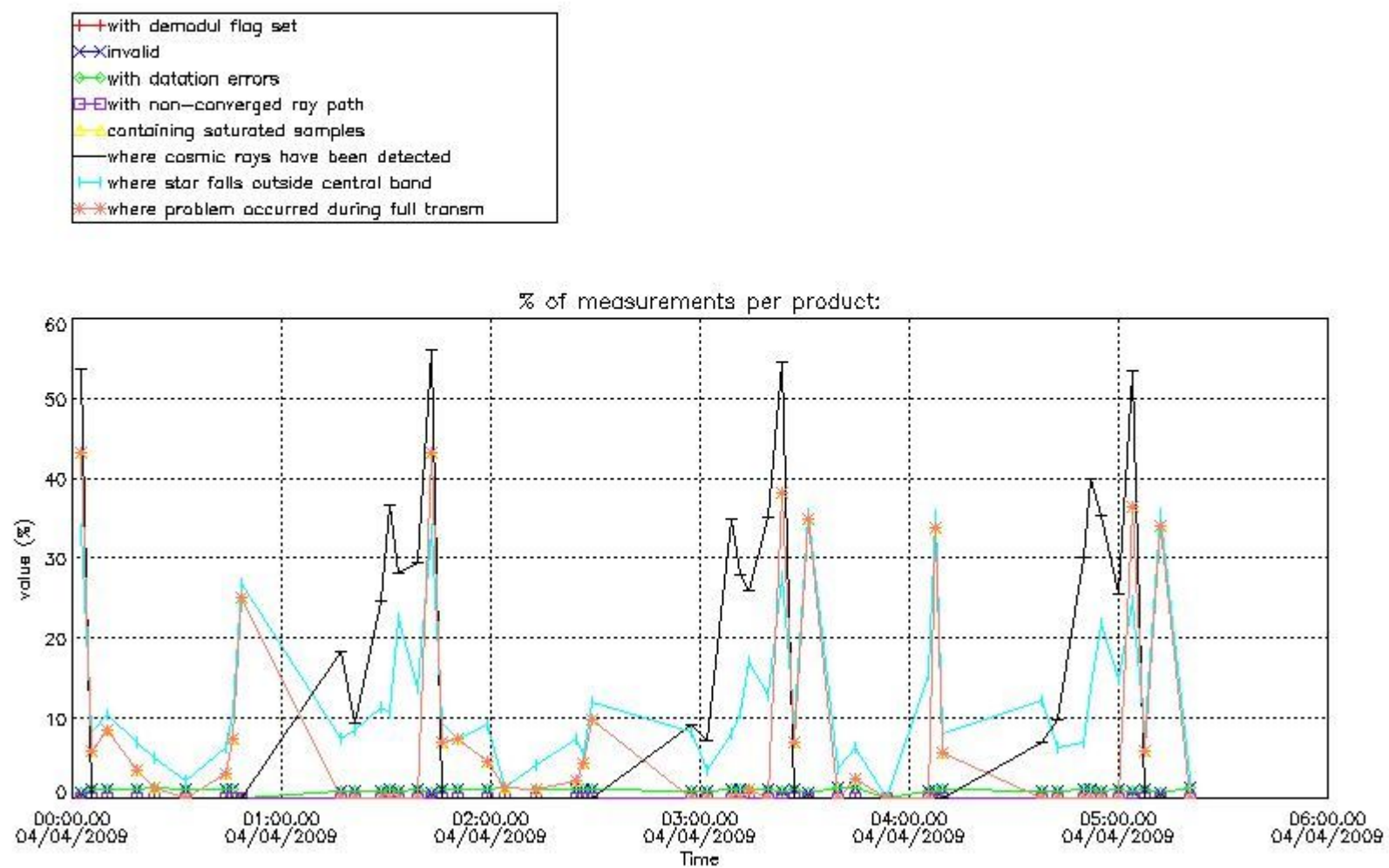
5. Demodulation flag and quality information monitoring

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.

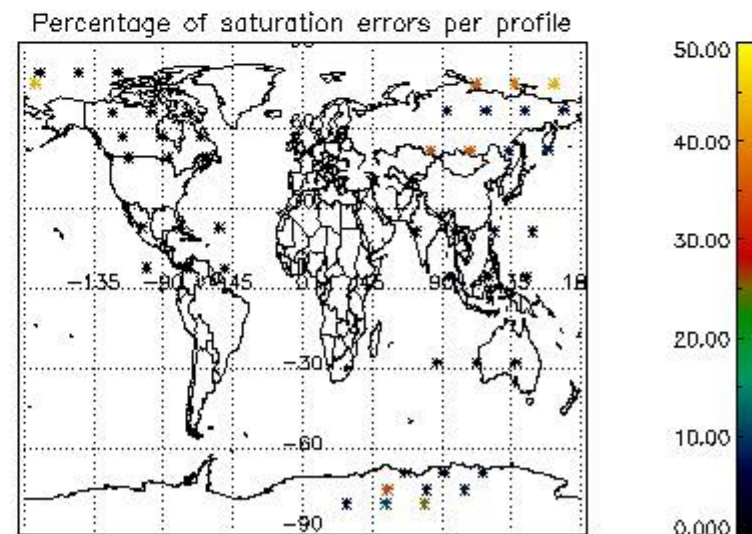
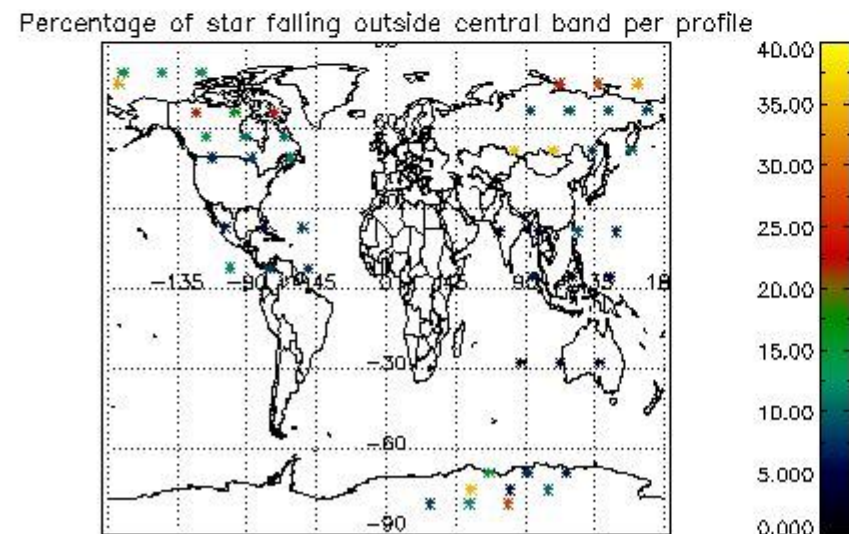
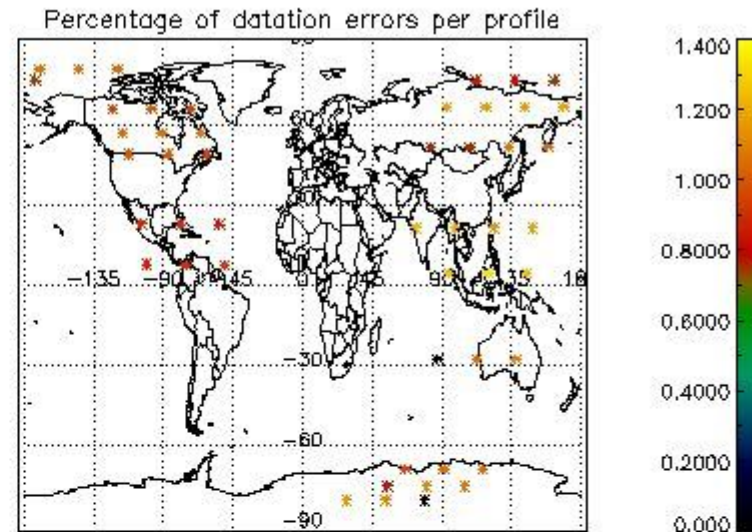
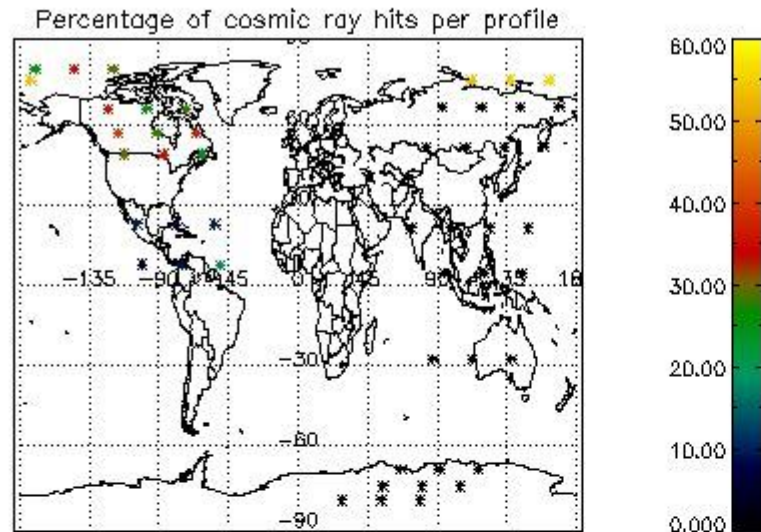
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.2857 %
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)



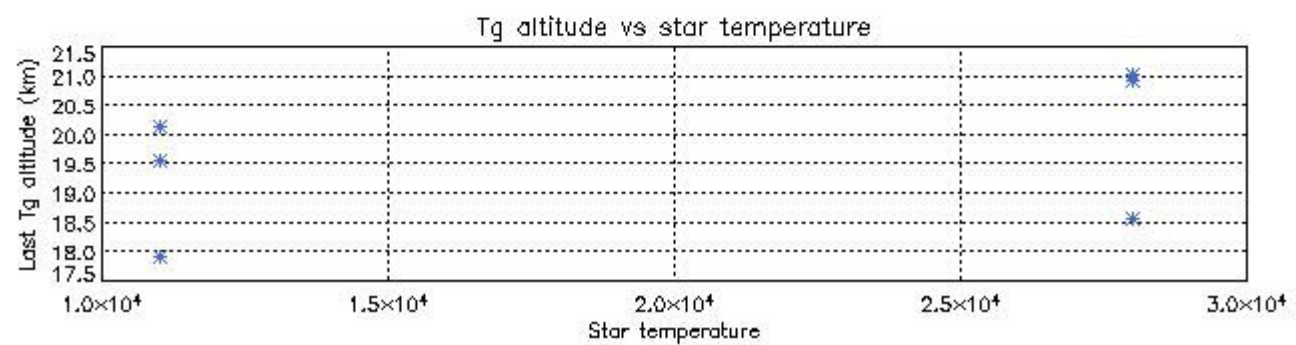
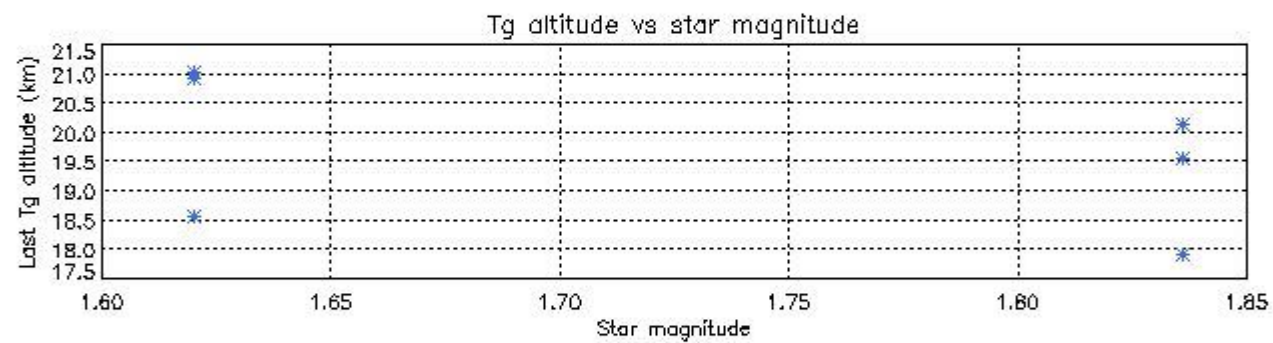
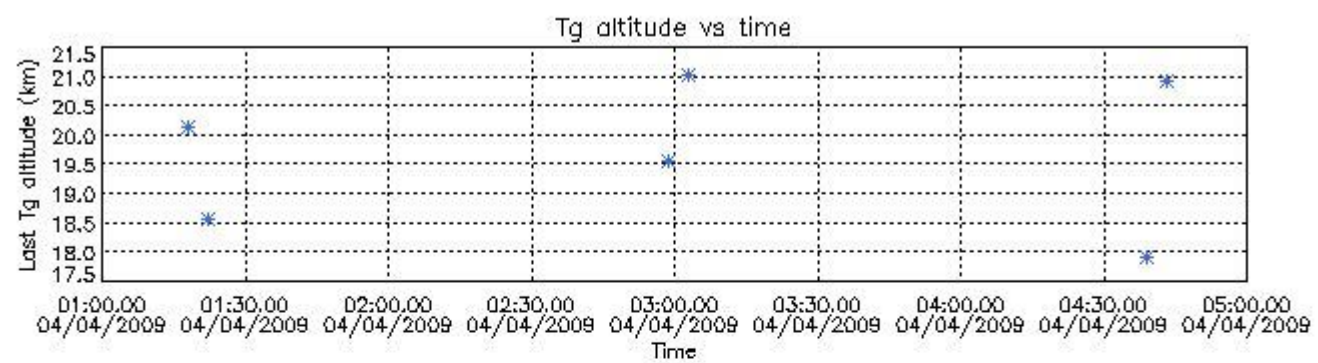
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	19.677	16.908	NaN
St. deviation:	1.2588	7.1516	NaN
Maximum:	21.010	29.483	NaN
Minimum:	17.895	3.7491	NaN
Number of data:	6.0000	31.000	NaN

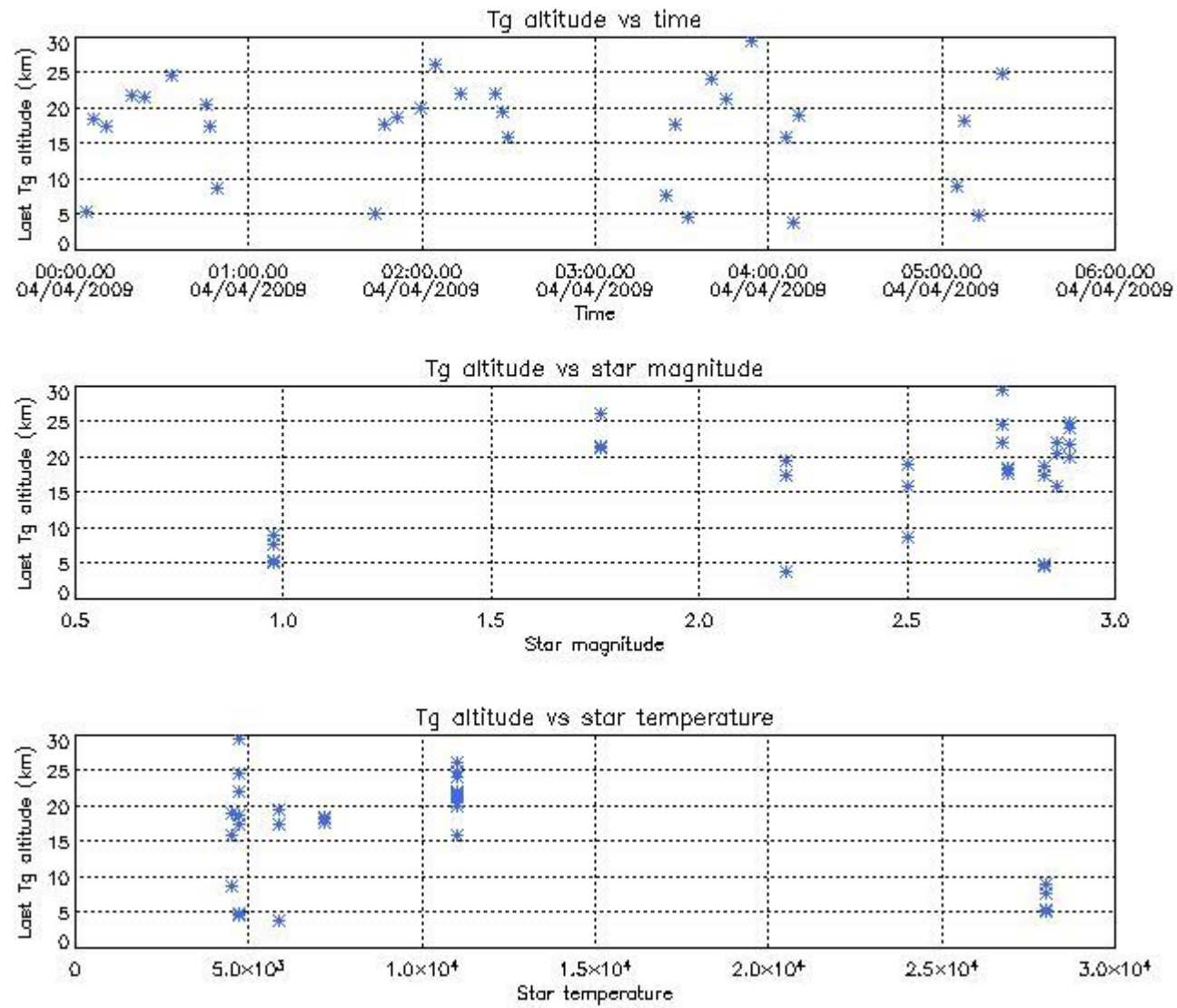
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

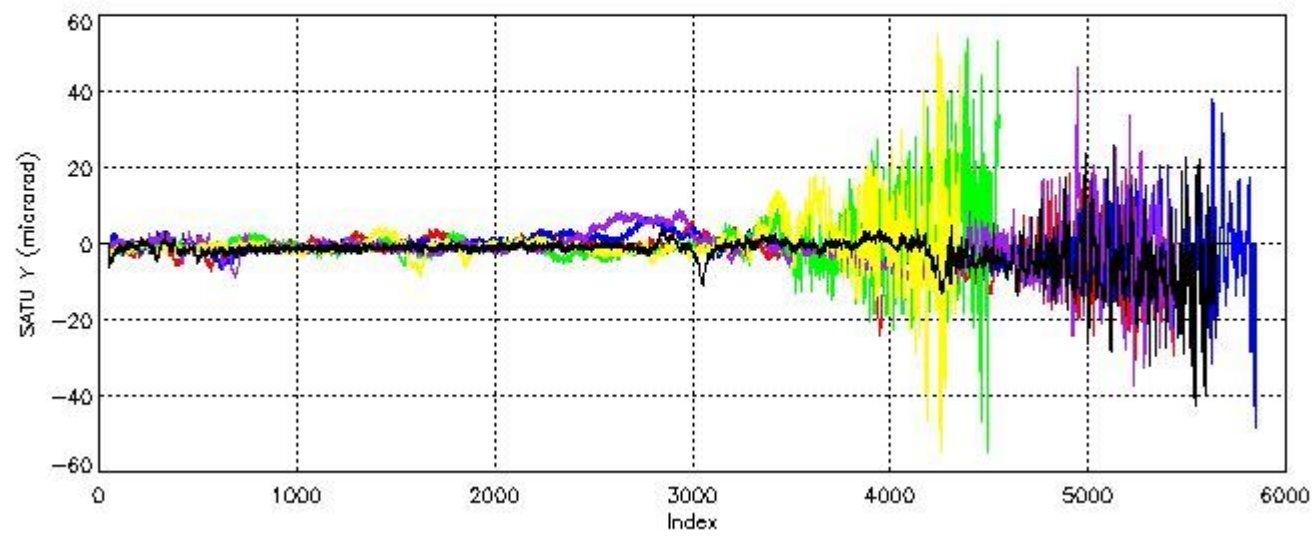
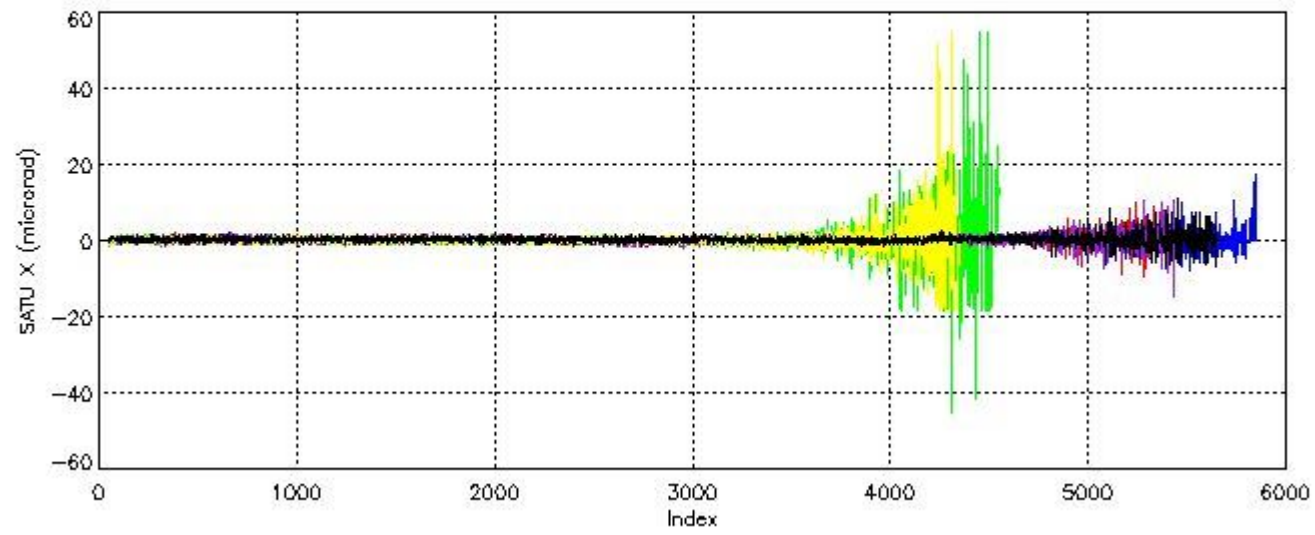


7. Star Acquisition and Tracking Unit (SATU)

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:	0.28288	-1.0497	0.30271	-1.1574
St. deviation:	0.48750	1.4671	0.83109	1.7622
Maximum:	2.2000	4.0000	5.7000	13.400
Minimum:	-1.5000	-9.2000	-5.7000	-10.500

Number of data:	8150.0	8150.0	31850.	31850.
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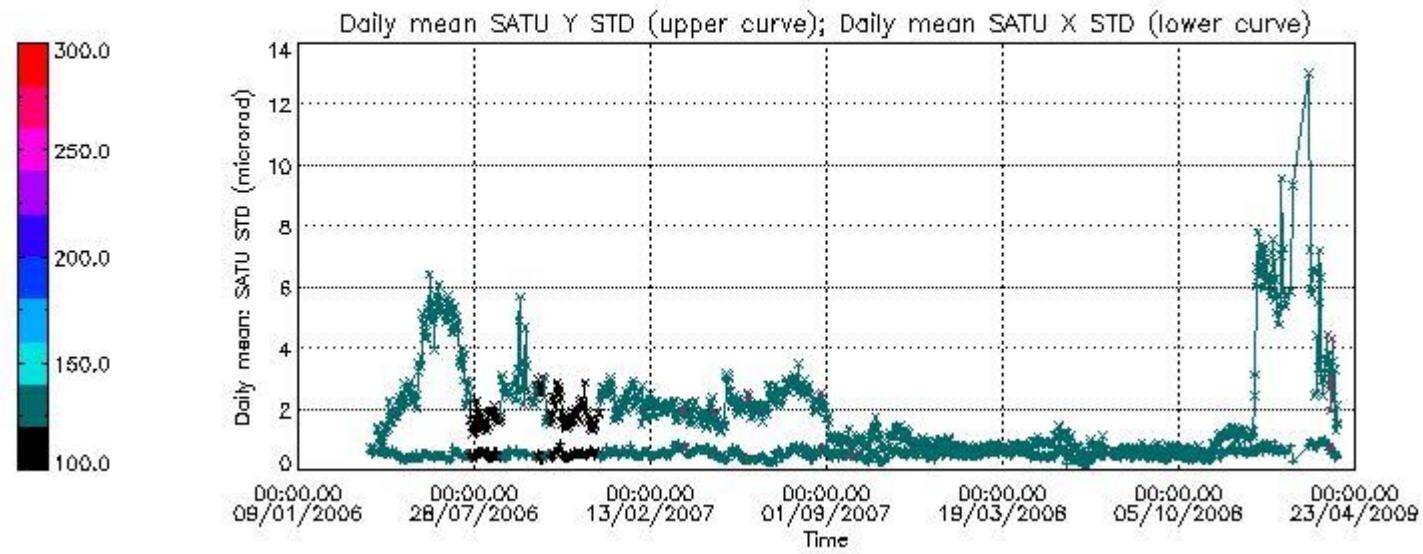
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

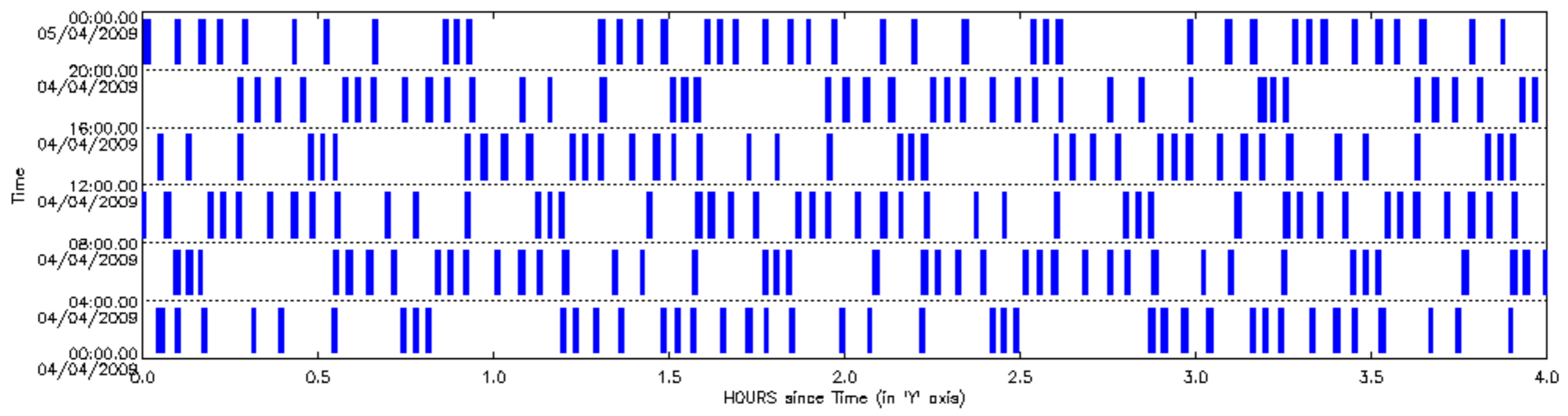
Lower curve: STD of SATU X axis

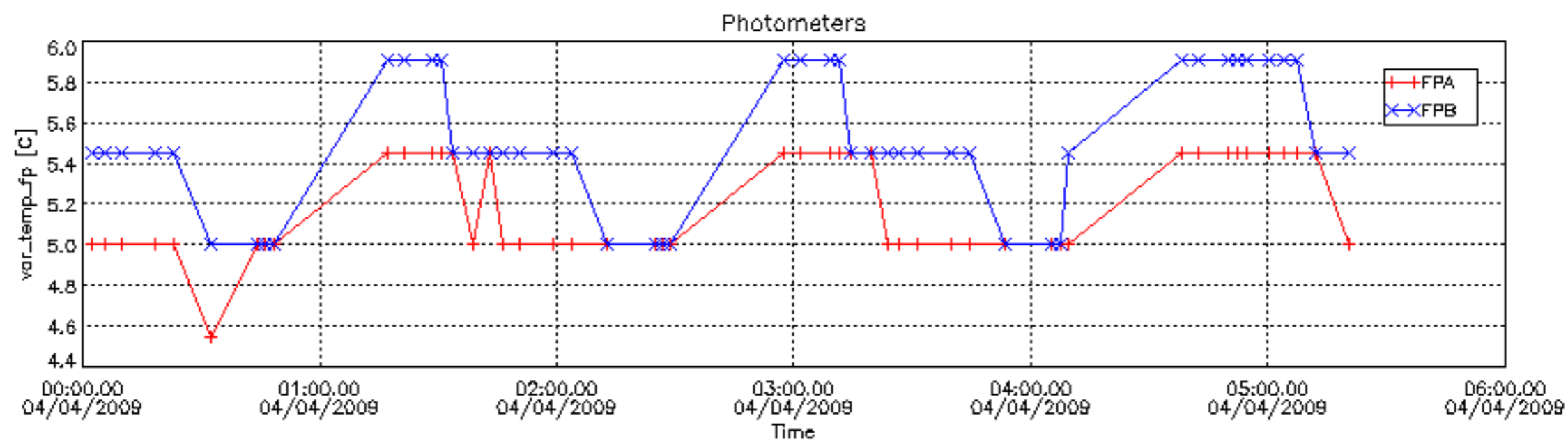
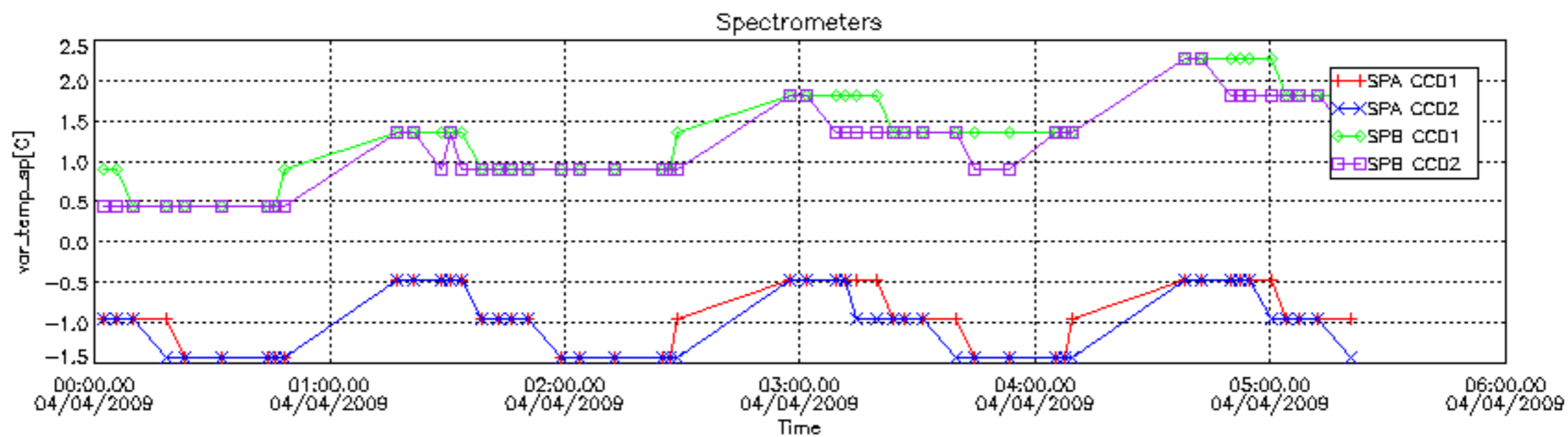


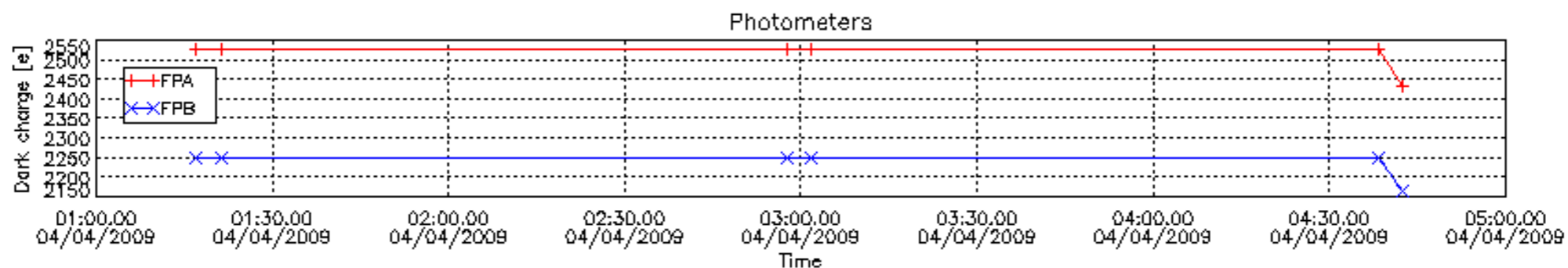
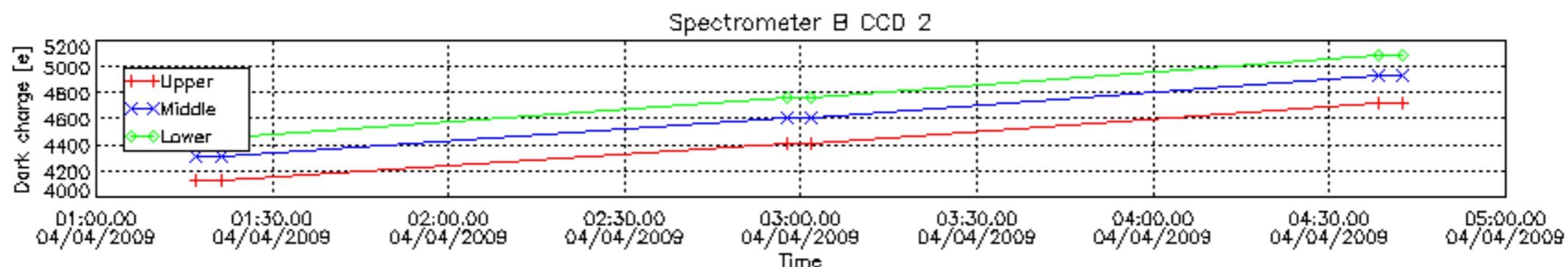
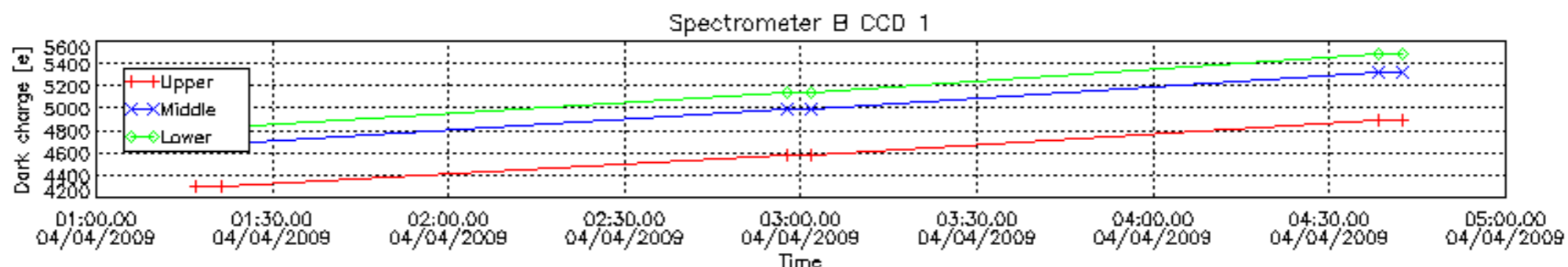
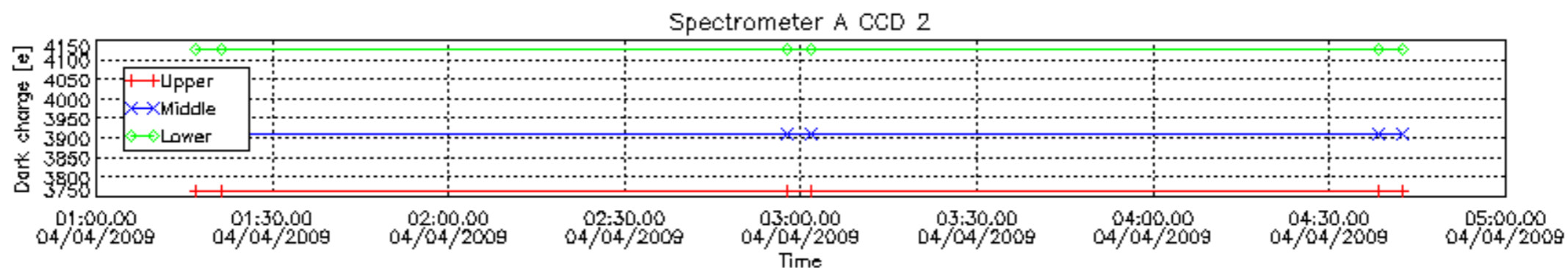
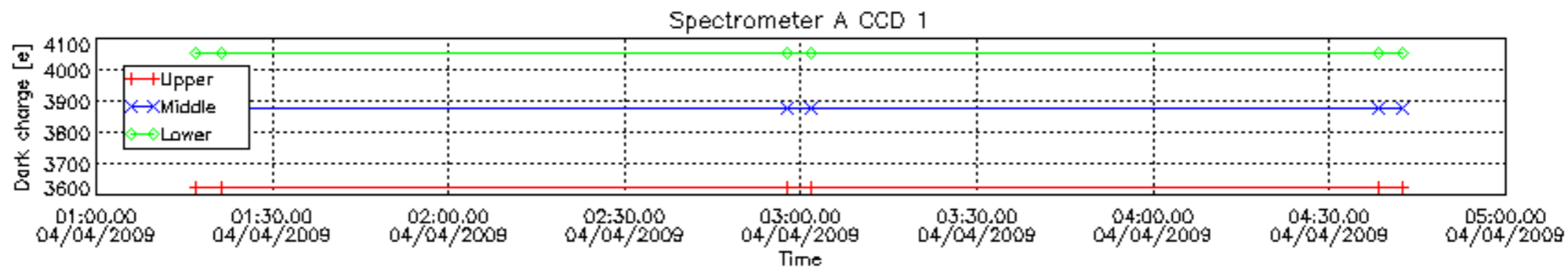
8. Auxiliary Data Files used for the production reported in section 2.4

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.

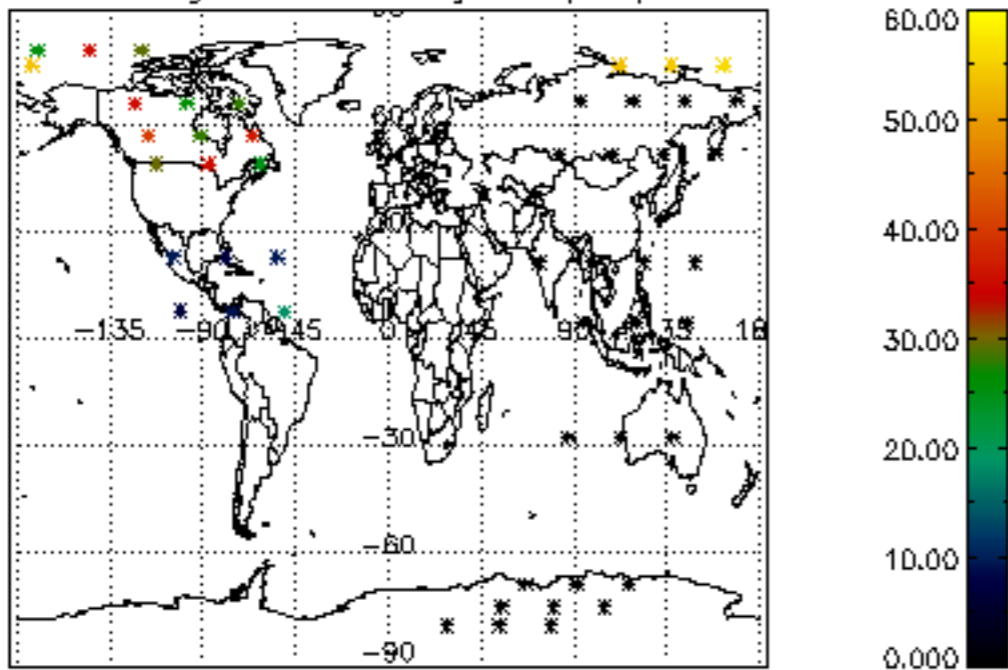
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090323_082818_20090321_000000_20100101_000000	1	04-APR-2009 00:02:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-APR-2009 00:02:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-APR-2009 00:02:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-APR-2009 00:02:24
ECMWF_FILE	AUX_ECF_AXNECM20090403_064111_20090403_210000_20090404_090000	1	04-APR-2009 00:02:24
ECMWF_FILE	AUX_ECF_AXNECM20090403_182111_20090404_030000_20090404_150000	37	04-APR-2009 04:05:20
OPTIONAL_ECMWF_FILE	MISSING	1	04-APR-2009 00:02:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090403_213512_000060572077_00458_37085_7682.N1	1	04-APR-2009 00:02:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090403_232127_000057382077_00459_37086_7683.N1	10	04-APR-2009 01:16:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090404_010225_000044632077_00460_37087_7684.N1	22	04-APR-2009 02:24:44
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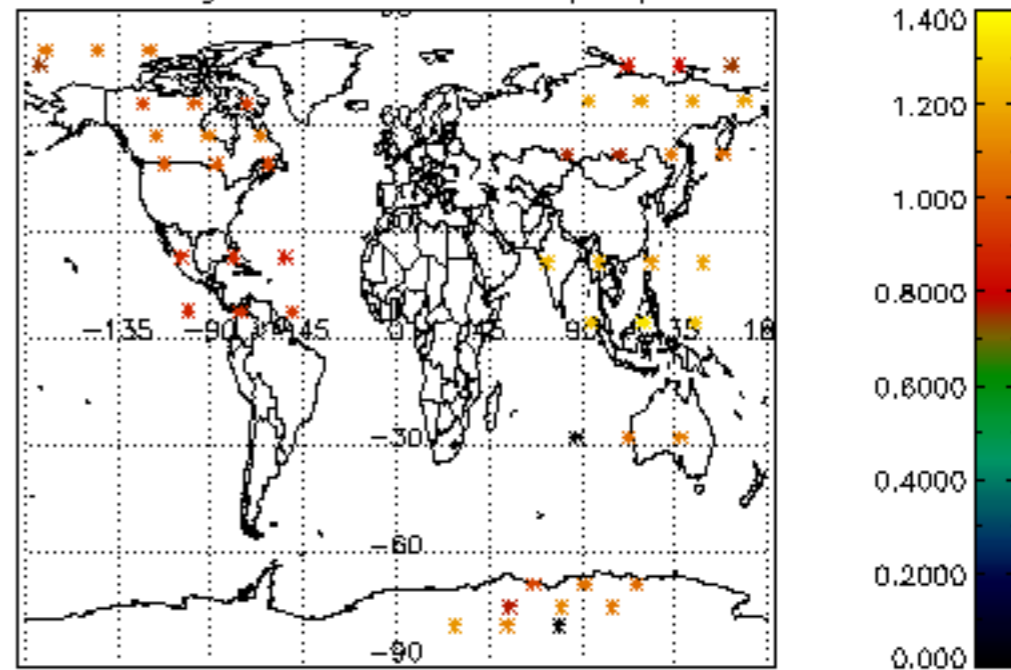




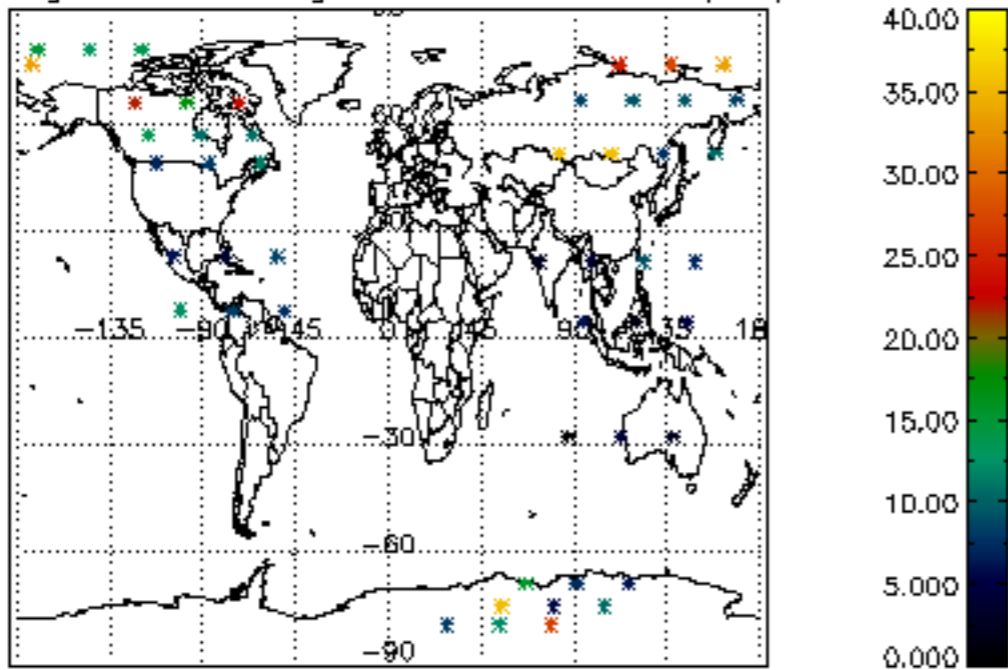
Percentage of cosmic ray hits per profile



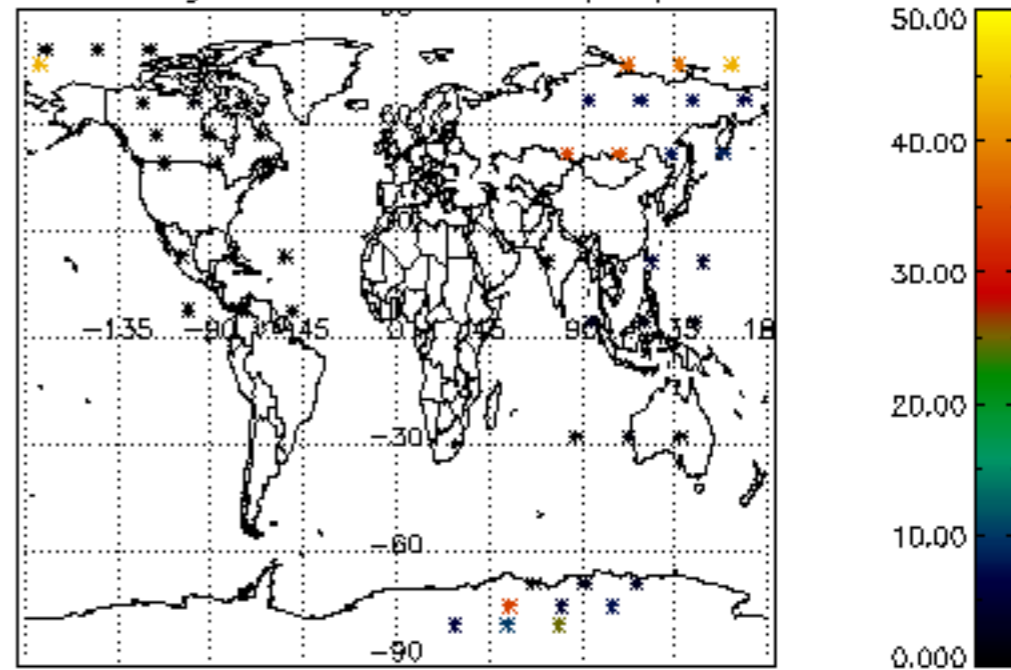
Percentage of datation errors per profile



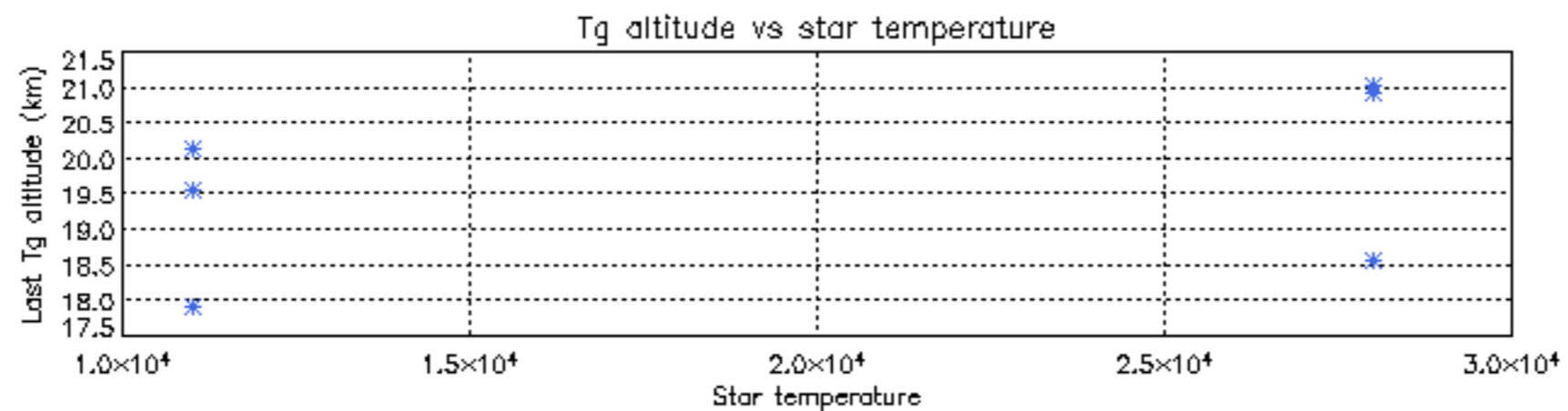
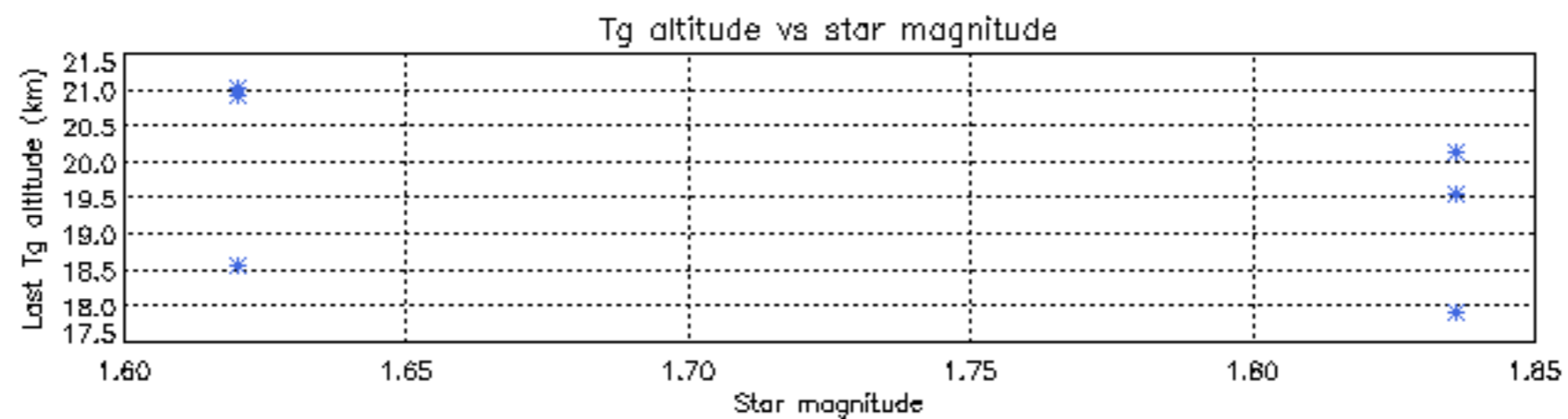
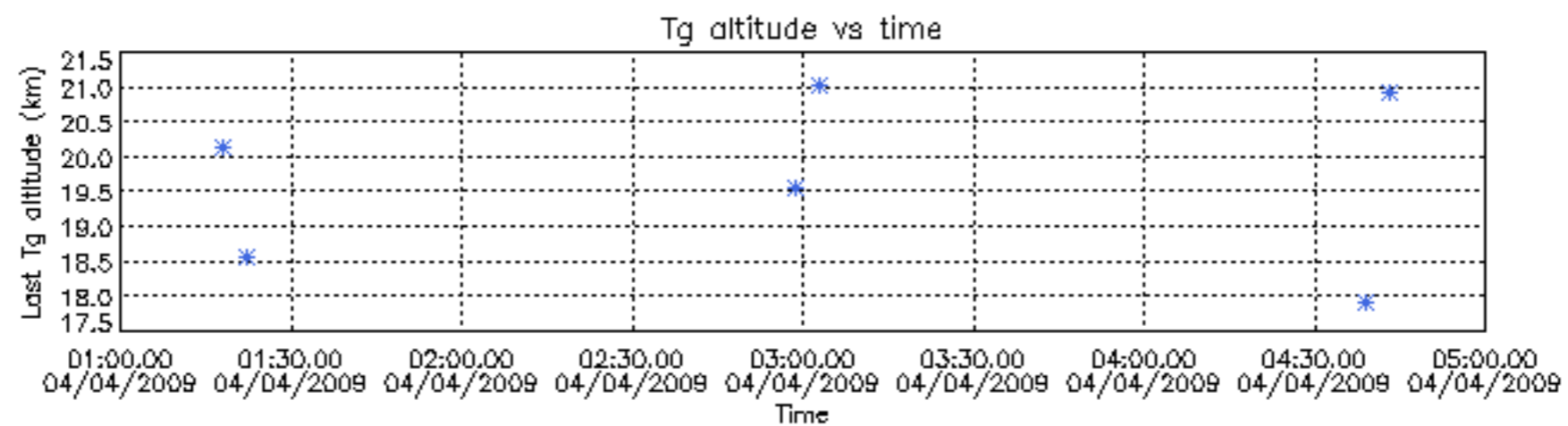
Percentage of star falling outside central band per profile



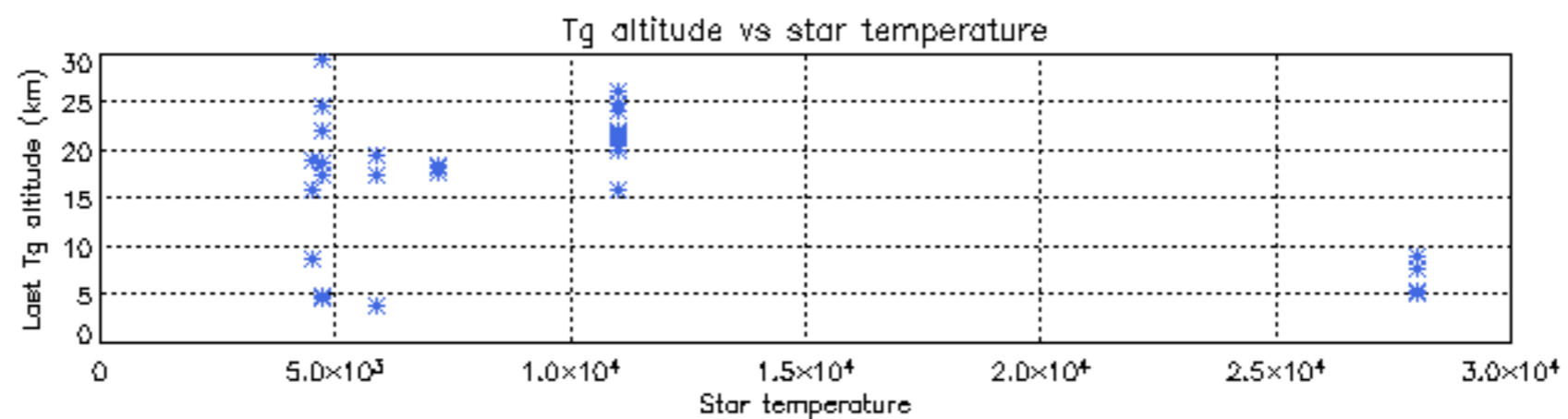
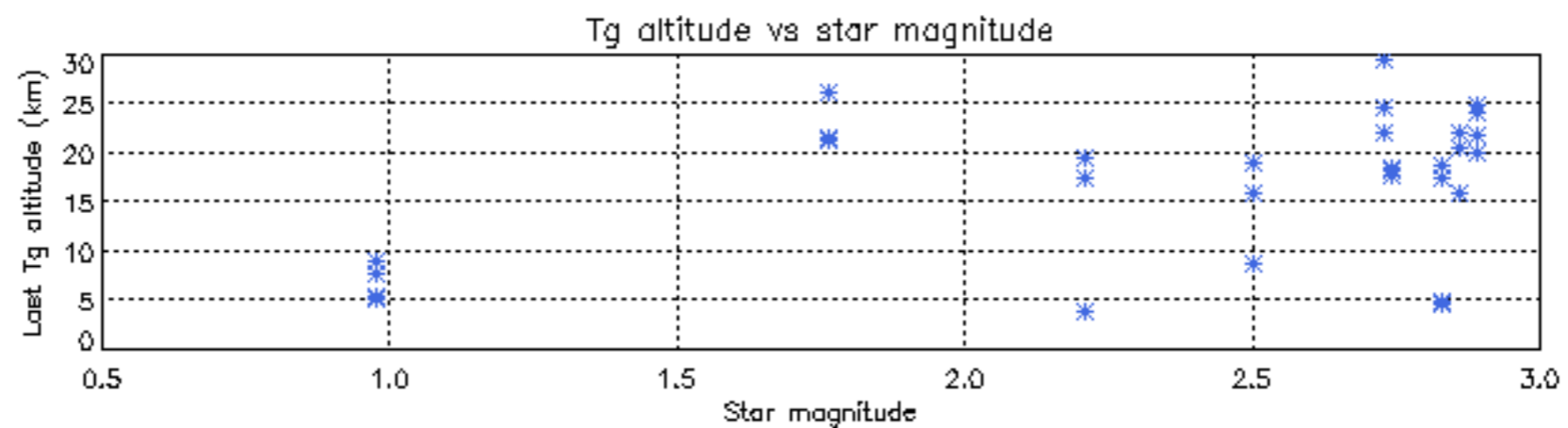
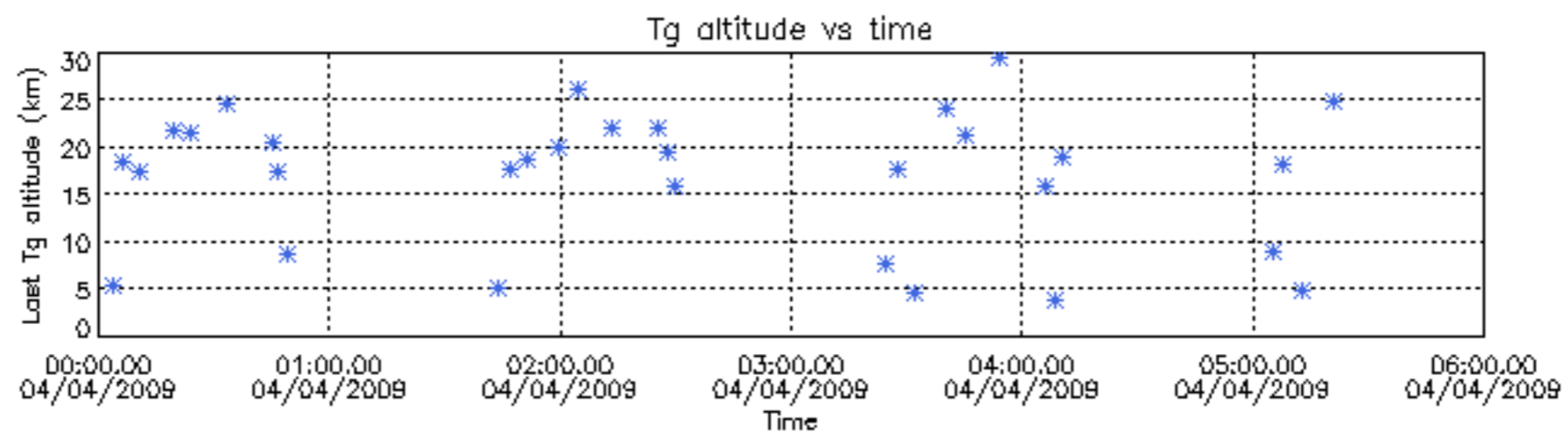
Percentage of saturation errors per profile

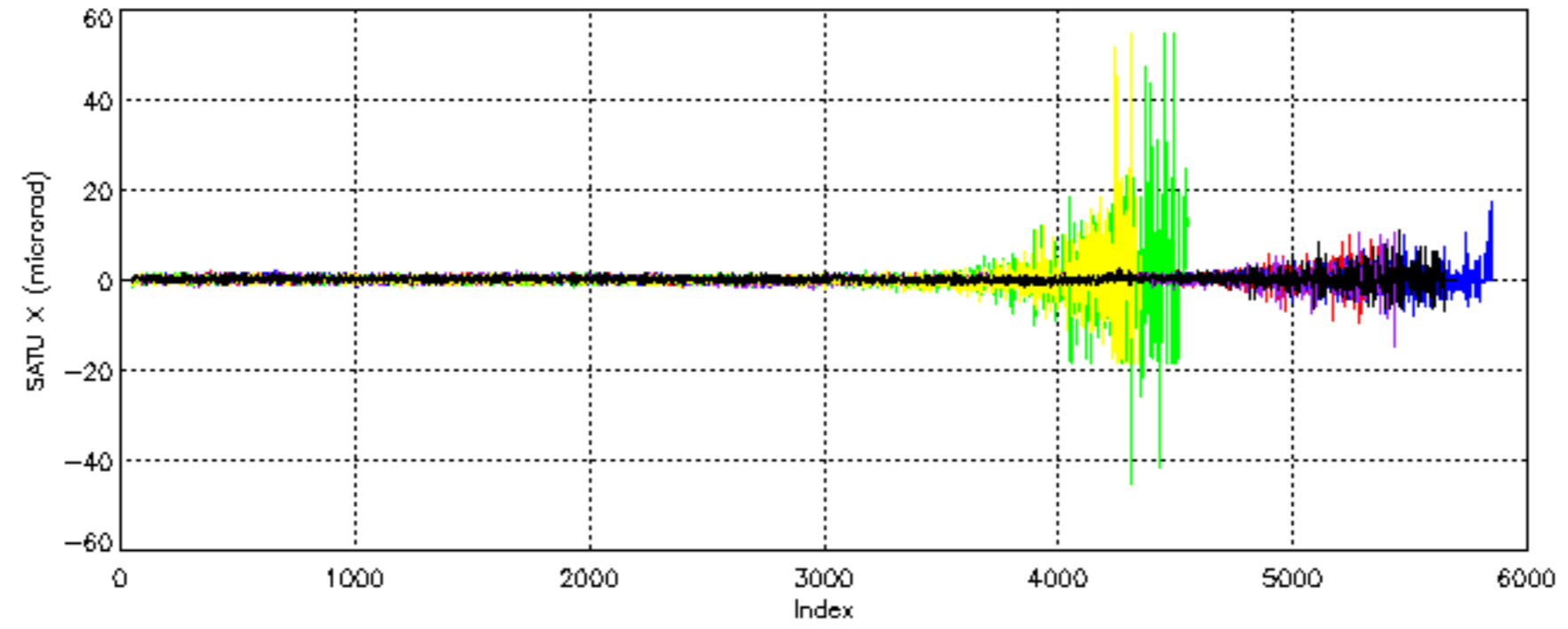


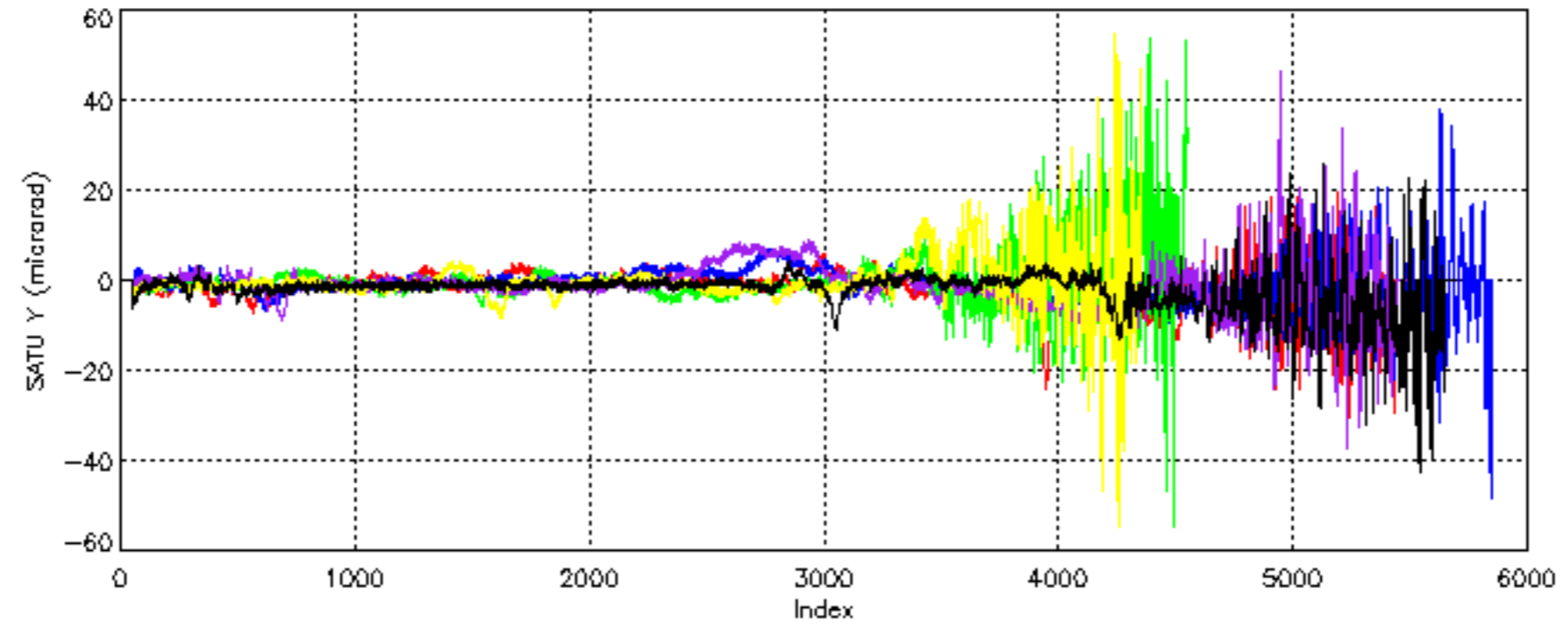
Tangent altitude at which the star is lost

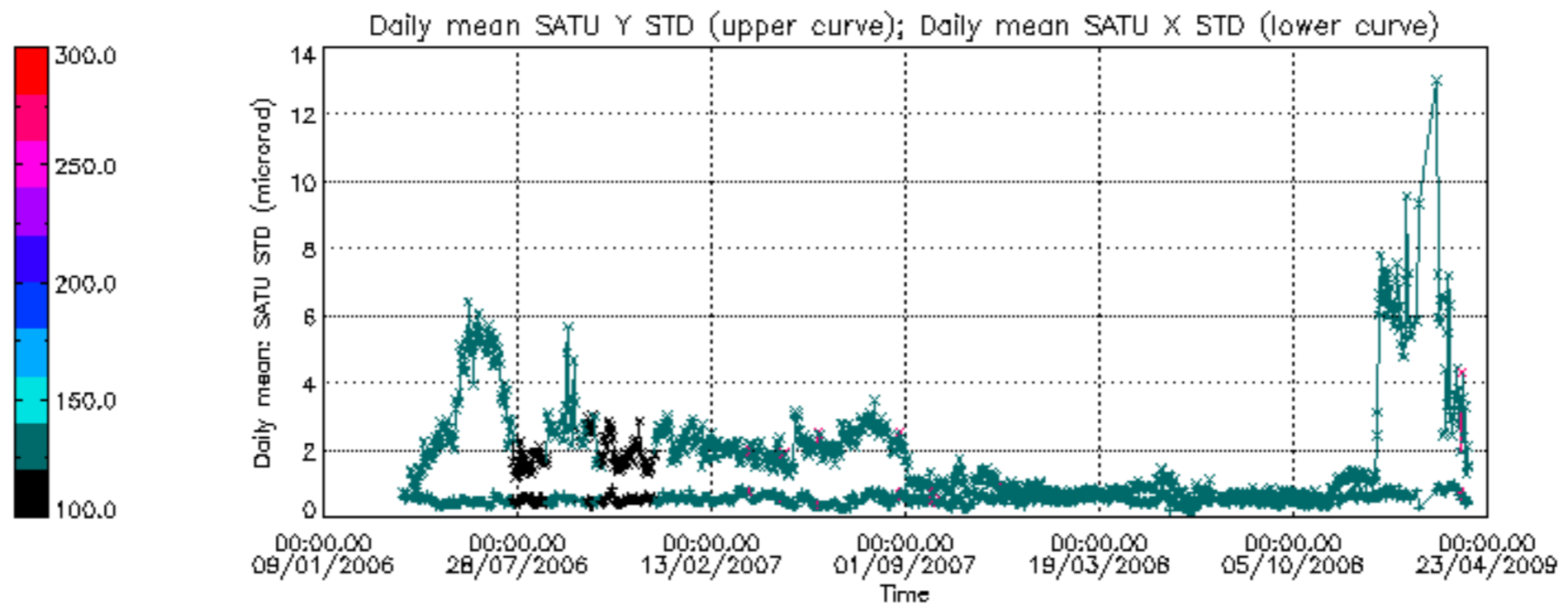


Tangent altitude at which the star is lost









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 4; 340.5; 01-APR-2009 23:02:35; Dark ; 58.5; 25; 35Lam Sco ; 1.62; 28000;occ; 117; 0;37058
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15; 4312.9; 02-APR-2009 01:49:23; Bright; 49.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 98; 0;37059
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7; 5223.8; 17-APR-2009 12:36:54; Dark ; 30.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 60; 0;37280
8; 5960.2; 17-APR-2009 12:49:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37280
9; 6445.4; 17-APR-2009 12:57:16; Dark ; 35.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 70; 0;37280
10; 6560.3; 17-APR-2009 12:59:11; Dark ; 35.0; 147; Alp Ara ; 2.88; 26000;occ; 70; 0;37280
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 9; 5961.5; 17-APR-2009 14:29:48; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37281
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 4; 3338.5; 17-APR-2009 15:26:41; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;37282
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 6; 4458.0; 17-APR-2009 15:45:20; Dark ; 30.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 61; 0;37282
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 8; 5225.1; 17-APR-2009 15:58:07; Dark ; 29.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 59; 0;37282
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 5; 4190.5; 17-APR-2009 17:21:29; Bright; 29.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 58; 0;37283
 6; 4458.0; 17-APR-2009 17:25:56; Dark ; 31.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 62; 0;37283
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 8; 5226.0; 17-APR-2009 17:38:44; Dark ; 29.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 59; 0;37283
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 4; 2755.4; 17-APR-2009 18:38:10; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;37284
 5; 3337.1; 17-APR-2009 18:47:51; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;37284
 6; 4190.3; 17-APR-2009 19:02:05; Bright; 28.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 57; 0;37284
 7; 4458.1; 17-APR-2009 19:06:32; Dark ; 30.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 61; 0;37284
 8; 4914.2; 17-APR-2009 19:14:09; Dark ; 27.0; 61; 8Eps Peg ; 2.10; 3900;occ; 54; 0;37284
 9; 5226.6; 17-APR-2009 19:19:21; Dark ; 29.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 59; 0;37284
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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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 6; 1571.7; 18-APR-2009 01:00:50; Dark ; 35.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 70; 0;37288
 7; 2288.8; 18-APR-2009 01:12:47; Bright; 33.0; 111; 8Eta Boo ; 2.68; 6000;occ; 66; 0;37288
 8; 2751.9; 18-APR-2009 01:20:30; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;37288
 9; 3333.9; 18-APR-2009 01:30:12; Bright; 32.0; 119; 14Eta Dra ; 2.73; 4700;occ; 64; 0;37288
 10; 4189.4; 18-APR-2009 01:44:27; Bright; 27.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 54; 0;37288

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7; 1572.2; 18-APR-2009 02:41:26; Dark ; 37.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 74; 0;37289
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6; 4187.3; 18-APR-2009 21:51:37; Bright; 25.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 50; 0;37300
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7; 533.7; 18-APR-2009 07:25:55; Dark ; 33.5; 147; Alp Ara ; 2.88; 26000;occ; 67; 0;37292
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3; 2258.4; 23-APR-2009 17:00:47; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;37369
4; 2522.4; 23-APR-2009 17:05:11; Bright; 52.0; 83; ; 2.38; 11000;occ; 104; 0;37369
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6; 3277.9; 23-APR-2009 17:17:47; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;37369
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9; 2464.9; 29-APR-2009 18:56:20; Bright; 53.5; 83; ; 2.38; 11000;occ; 107; 0;37456
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