

GOMOS Daily Report 26-JUL-2008

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	04AUG2008 10:49:22
Data source version	GOMOS/5.00
Start time of products	26-07-2008 (26JUL2008 00:00:00)
Stop time of products	27-07-2008 (27JUL2008 00:00:00)
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)

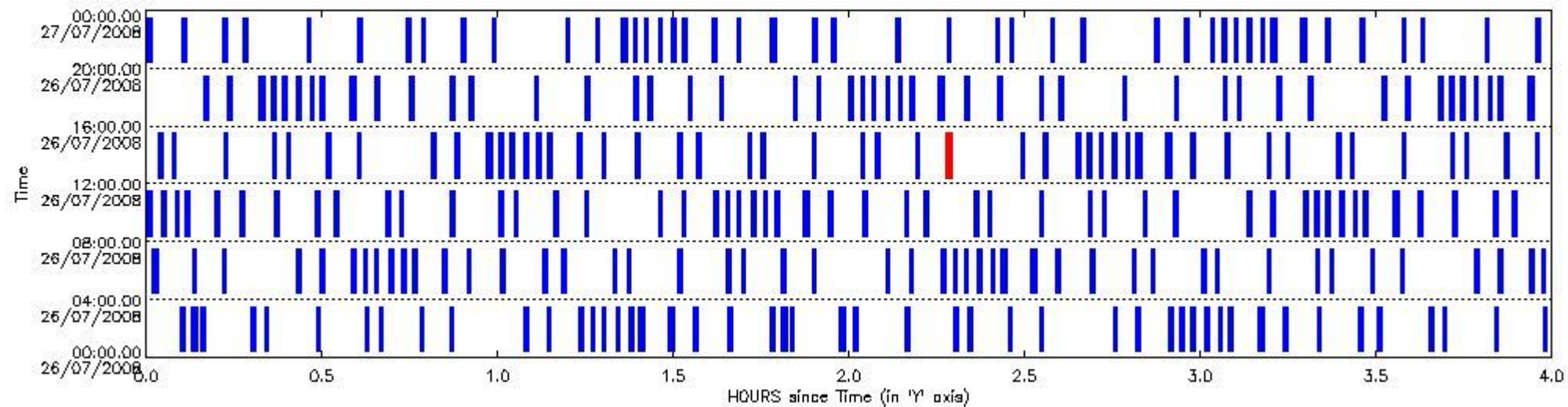
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

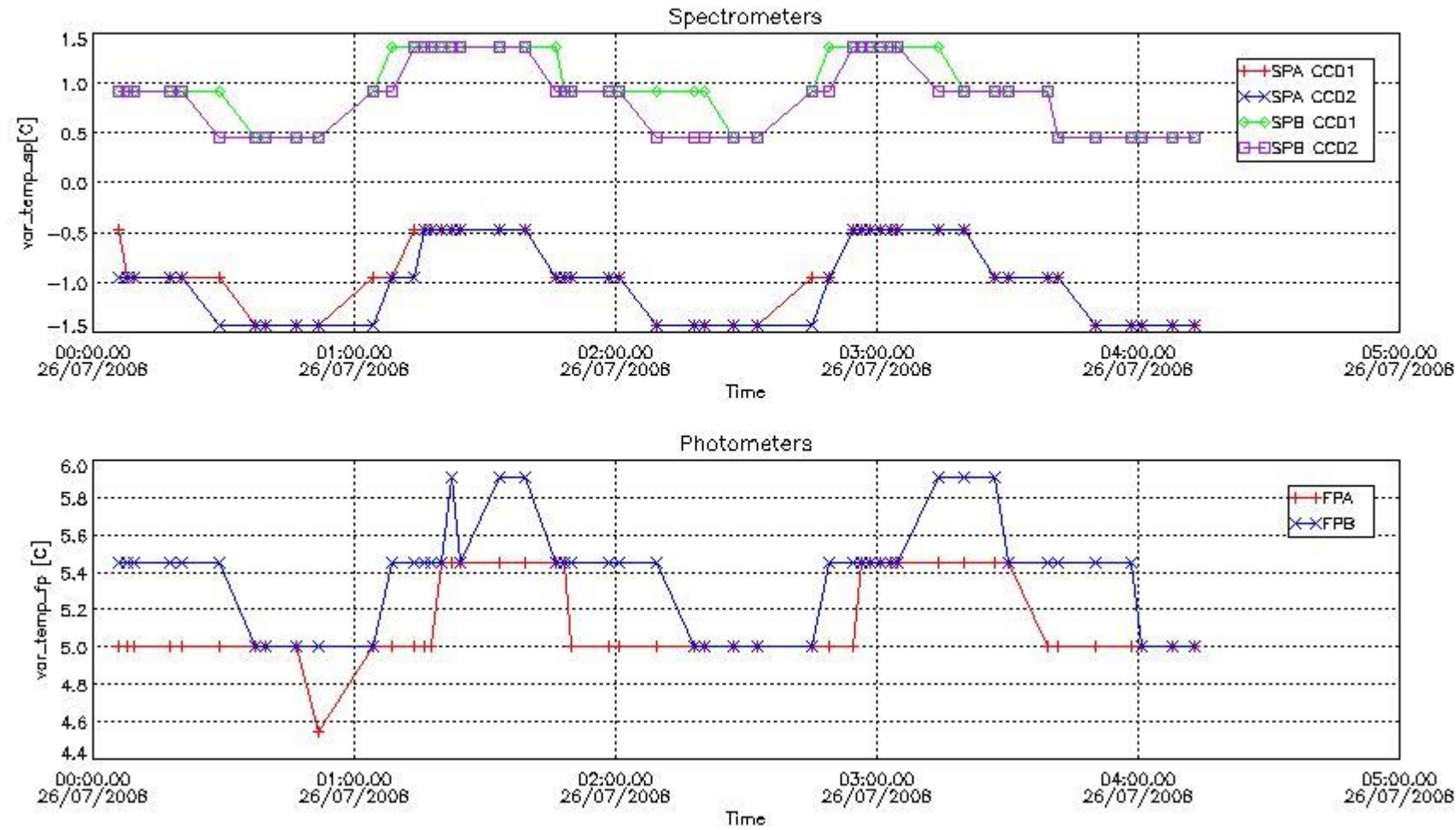
UTC start time	Star name	Star ID	Orbit
26-JUL-2008 14:16:36	1AlpUMi	49	33488

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_1PNPDE20080726_000551_000000392070_00360_33480_0586.N1	26-JUL-2008 00:05:51	Straylight	39.000	148	Alp Tuc	2.8780	4100.0	78	33480	No
2	GOM_TRA_1PNPDE20080726_000744_000000622070_00360_33480_0587.N1	26-JUL-2008 00:07:44	Straylight	61.500	63	Bet Gru	2.1500	2800.0	123	33480	No
3	GOM_TRA_1PNPDE20080726_000918_000000392070_00360_33480_0588.N1	26-JUL-2008 00:09:18	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	33480	No
4	GOM_TRA_1PNPDE20080726_001749_000000522070_00360_33480_0589.N1	26-JUL-2008 00:17:49	Bright	52.000	103	38Zet Sgr	2.6000	9700.0	104	33480	No
5	GOM_TRA_1PNPDE20080726_002013_000000382070_00360_33480_0590.N1	26-JUL-2008 00:20:13	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	33480	No
6	GOM_TRA_1PNPDE20080726_002858_000000402070_00360_33480_0591.N1	26-JUL-2008 00:28:58	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	33480	No
7	GOM_TRA_1PNPDE20080726_003718_000000392070_00360_33480_0592.N1	26-JUL-2008 00:37:18	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	33480	No
8	GOM_TRA_1PNPDE20080726_003946_000000372070_00360_33480_0593.N1	26-JUL-2008 00:39:46	Bright	36.500	144	18Del Cyg	2.8600	11000.	73	33480	No
9	GOM_TRA_1PNPDE20080726_004639_000000362070_00360_33480_0594.N1	26-JUL-2008 00:46:39	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	33480	No
10	GOM_TRA_1PNPDE20080726_005152_000000352070_00360_33480_0595.N1	26-JUL-2008 00:51:52	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	33480	No

11	GOM_TRA_1PNPDE20080726_010428_000000402070_00360_33480_0596.N1	26-JUL-2008 01:04:28	Bright	40.000	6	13Alp Aur	0.080000	3400.0	80	33480	No
12	GOM_TRA_1PNPDE20080726_010826_000000432070_00360_33480_0597.N1	26-JUL-2008 01:08:26	Bright	42.500	114	31ot Aur	2.6930	4600.0	85	33480	No
13	GOM_TRA_1PNPDE20080726_011350_000000422070_00360_33480_0598.N1	26-JUL-2008 01:13:50	Dark	41.500	13	87Alp Tau	0.86700	3800.0	83	33480	No
14	GOM_TRA_1PNPDE20080726_011554_000000372070_00360_33480_0599.N1	26-JUL-2008 01:15:54	Dark	37.000	27	24Gam Ori	1.6360	26000.	74	33480	No
15	GOM_TRA_1PNPDE20080726_011750_000000402070_00360_33480_0600.N1	26-JUL-2008 01:17:50	Dark	40.000	30	46Eps Ori	1.6940	30000.	80	33480	No
16	GOM_TRA_1PNPDE20080726_012010_000000412070_00360_33480_0601.N1	26-JUL-2008 01:20:10	Dark	40.500	7	19Bet Ori	0.10000	14000.	81	33480	No
17	GOM_TRA_1PNPDE20080726_012227_000000392070_00360_33480_0734.N1	26-JUL-2008 01:22:27	Dark	38.500	101	11Alp Lep	2.5820	7000.0	77	33480	No
18	GOM_TRA_1PNPDE20080726_012408_000000512070_00360_33480_0735.N1	26-JUL-2008 01:24:08	Dark	51.000	165	34Gam Eri	2.9500	3200.0	102	33480	No
19	GOM_TRA_1PNPDE20080726_013327_000000452070_00360_33480_0736.N1	26-JUL-2008 01:33:27	Dark	45.000	157	The1Eri	2.9060	9300.0	90	33480	No
20	GOM_TRA_1PNPDE20080726_013917_000000442070_00361_33481_0737.N1	26-JUL-2008 01:39:17	Dark	43.500	9	Alp Eri	0.45300	24000.	87	33481	No
21	GOM_TRA_1PNPDE20080726_014627_000000502070_00361_33481_0738.N1	26-JUL-2008 01:46:27	Straylight	50.000	148	Alp Tuc	2.8780	4100.0	100	33481	No
22	GOM_TRA_1PNPDE20080726_014821_000000622070_00361_33481_0739.N1	26-JUL-2008 01:48:21	Straylight	61.500	63	Bet Gru	2.1500	2800.0	123	33481	No
23	GOM_TRA_1PNPDE20080726_014954_000000402070_00361_33481_0740.N1	26-JUL-2008 01:49:54	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	33481	No
24	GOM_TRA_1PNPDE20080726_015825_000000522070_00361_33481_0741.N1	26-JUL-2008 01:58:25	Bright	52.000	103	38Zet Sgr	2.6000	9700.0	104	33481	No
25	GOM_TRA_1PNPDE20080726_020049_000000372070_00361_33481_0742.N1	26-JUL-2008 02:00:49	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	33481	No
26	GOM_TRA_1PNPDE20080726_020934_000000412070_00361_33481_0743.N1	26-JUL-2008 02:09:34	Bright	41.000	11	53Alp Aql	0.76500	8000.0	82	33481	No
27	GOM_TRA_1PNPDE20080726_021754_000000392070_00361_33481_0744.N1	26-JUL-2008 02:17:54	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	33481	No
28	GOM_TRA_1PNPDE20080726_022022_000000372070_00361_33481_0745.N1	26-JUL-2008 02:20:22	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	33481	No
29	GOM_TRA_1PNPDE20080726_022714_000000362070_00361_33481_0746.N1	26-JUL-2008 02:27:14	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	33481	No
30	GOM_TRA_1PNPDE20080726_023228_000000322070_00361_33481_0747.N1	26-JUL-2008 02:32:28	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	33481	No
31	GOM_TRA_1PNPDE20080726_024504_000000412070_00361_33481_0895.N1	26-JUL-2008 02:45:04	Bright	41.000	6	13Alp Aur	0.080000	3400.0	82	33481	No
32	GOM_TRA_1PNPDE20080726_024901_000000412070_00361_33481_0896.N1	26-JUL-2008 02:49:01	Bright	40.500	114	31ot Aur	2.6930	4600.0	81	33481	No
33	GOM_TRA_1PNPDE20080726_025427_000000552070_00361_33481_0897.N1	26-JUL-2008 02:54:27	Dark	54.500	13	87Alp Tau	0.86700	3800.0	109	33481	No
34	GOM_TRA_1PNPDE20080726_025631_000000392070_00361_33481_0898.N1	26-JUL-2008 02:56:31	Dark	39.000	27	24Gam Ori	1.6360	26000.	78	33481	No
35	GOM_TRA_1PNPDE20080726_025826_000000382070_00361_33481_0899.N1	26-JUL-2008 02:58:26	Dark	37.500	30	46Eps Ori	1.6940	30000.	75	33481	No
36	GOM_TRA_1PNPDE20080726_030047_000000402070_00361_33481_0900.N1	26-JUL-2008 03:00:47	Dark	40.000	7	19Bet Ori	0.10000	14000.	80	33481	No
37	GOM_TRA_1PNPDE20080726_030303_000000412070_00361_33481_0901.N1	26-JUL-2008 03:03:03	Dark	40.500	101	11Alp Lep	2.5820	7000.0	81	33481	No
38	GOM_TRA_1PNPDE20080726_030444_000000482070_00361_33481_0902.N1	26-JUL-2008 03:04:44	Dark	47.500	165	34Gam Eri	2.9500	3200.0	95	33481	No
39	GOM_TRA_1PNPDE20080726_031404_000000432070_00361_33481_0903.N1	26-JUL-2008 03:14:04	Dark	43.000	157	The1Eri	2.9060	9300.0	86	33481	No
40	GOM_TRA_1PNPDE20080726_031954_000000432070_00362_33482_0904.N1	26-JUL-2008 03:19:54	Dark	42.500	9	Alp Eri	0.45300	24000.	85	33482	No
41	GOM_TRA_1PNPDE20080726_032704_000000452070_00362_33482_0905.N1	26-JUL-2008 03:27:04	Straylight	44.500	148	Alp Tuc	2.8780	4100.0	89	33482	No
42	GOM_TRA_1PNPDE20080726_033017_000000492070_00362_33482_0906.N1	26-JUL-2008 03:30:17	Straylight	48.500	31	Alp Gru	1.7340	15200.	97	33482	No
43	GOM_TRA_1PNPDE20080726_033901_000000432070_00362_33482_0907.N1	26-JUL-2008 03:39:01	Bright	43.000	103	38Zet Sgr	2.6000	9700.0	86	33482	No
44	GOM_TRA_1PNPDE20080726_034125_000000382070_00362_33482_0908.N1	26-JUL-2008 03:41:25	Bright	38.000	155	41Pi Sgr	2.9000	6600.0	76	33482	No
45	GOM_TRA_1PNPDE20080726_035010_000000402070_00362_33482_0909.N1	26-JUL-2008 03:50:10	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	33482	No
46	GOM_TRA_1PNPDE20080726_035830_000000352070_00362_33482_0910.N1	26-JUL-2008 03:58:30	Bright	35.000	5	3Alp Lyr	0.033000	11000.	70	33482	No
47	GOM_TRA_1PNPDE20080726_040058_000000572070_00362_33482_0911.N1	26-JUL-2008 04:00:58	Bright	57.000	144	18Del Cyg	2.8600	11000.	114	33482	No
48	GOM_TRA_1PNPDE20080726_040750_000000382070_00362_33482_0912.N1	26-JUL-2008 04:07:50	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	33482	No
49	GOM_TRA_1PNPDE20080726_041304_000000362070_00362_33482_0913.N1	26-JUL-2008 04:13:04	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	33482	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).

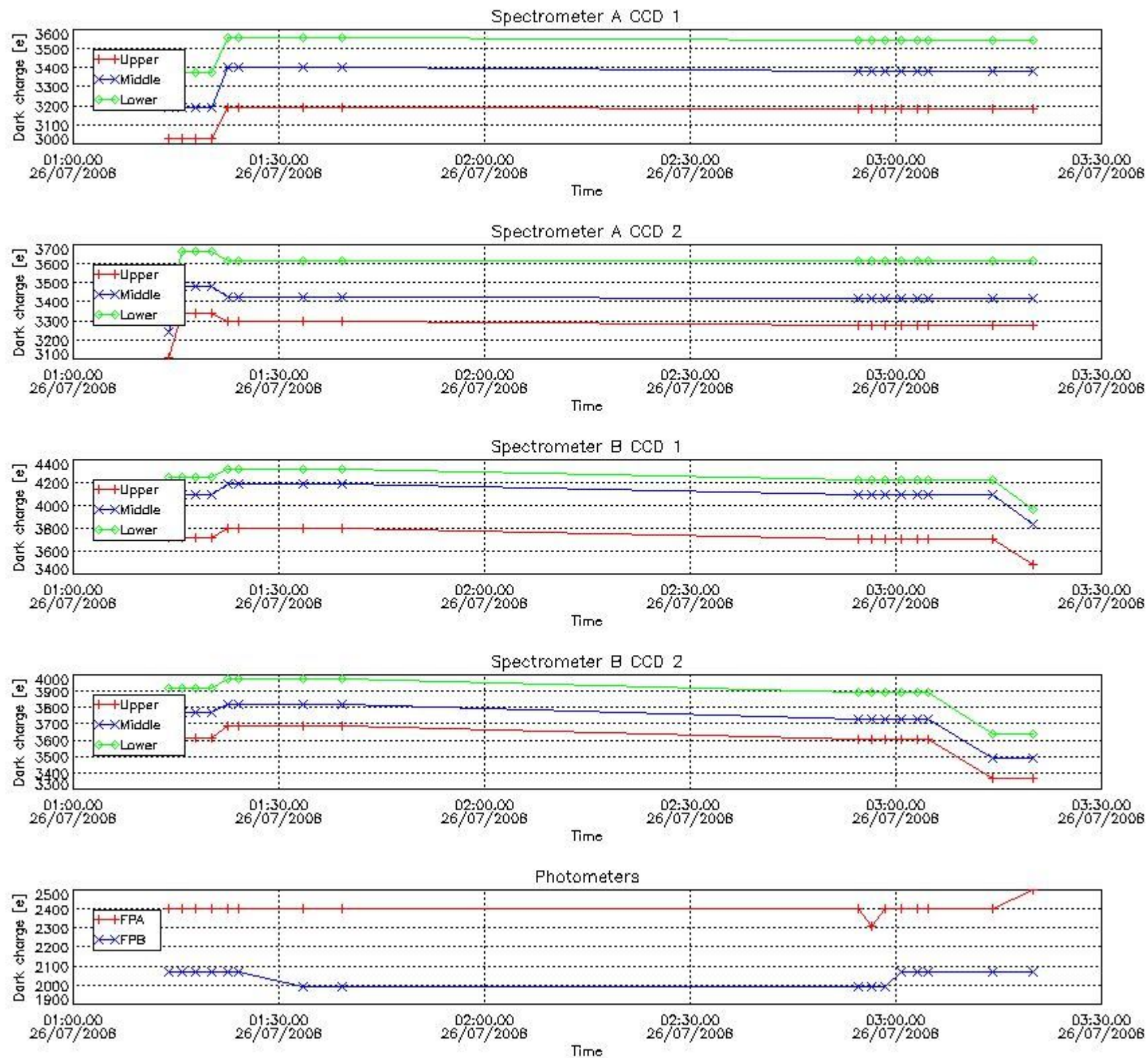
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20080726_000551_000000392070_00360_33480_0586.N1	DC map used
GOM_TRA_1PNPDE20080726_000744_000000622070_00360_33480_0587.N1	DC map used
GOM_TRA_1PNPDE20080726_000918_000000392070_00360_33480_0588.N1	DC map used
GOM_TRA_1PNPDE20080726_001749_000000522070_00360_33480_0589.N1	DC map used
GOM_TRA_1PNPDE20080726_002013_000000382070_00360_33480_0590.N1	DC map used
GOM_TRA_1PNPDE20080726_002858_000000402070_00360_33480_0591.N1	DC map used
GOM_TRA_1PNPDE20080726_003718_000000392070_00360_33480_0592.N1	DC map used
GOM_TRA_1PNPDE20080726_003946_000000372070_00360_33480_0593.N1	DC map used
GOM_TRA_1PNPDE20080726_004639_000000362070_00360_33480_0594.N1	DC map used
GOM_TRA_1PNPDE20080726_005152_000000352070_00360_33480_0595.N1	DC map used
GOM_TRA_1PNPDE20080726_010428_000000402070_00360_33480_0596.N1	DC map used
GOM_TRA_1PNPDE20080726_010826_000000432070_00360_33480_0597.N1	DC map used
GOM_TRA_1PNPDE20080726_011350_000000422070_00360_33480_0598.N1	DC map used
GOM_TRA_1PNPDE20080726_011554_000000372070_00360_33480_0599.N1	DC map used

GOM_TRA_1PNPDE20080726_011750_000000402070_00360_33480_0600.N1	DC map used
GOM_TRA_1PNPDE20080726_012010_000000412070_00360_33480_0601.N1	DC map used

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



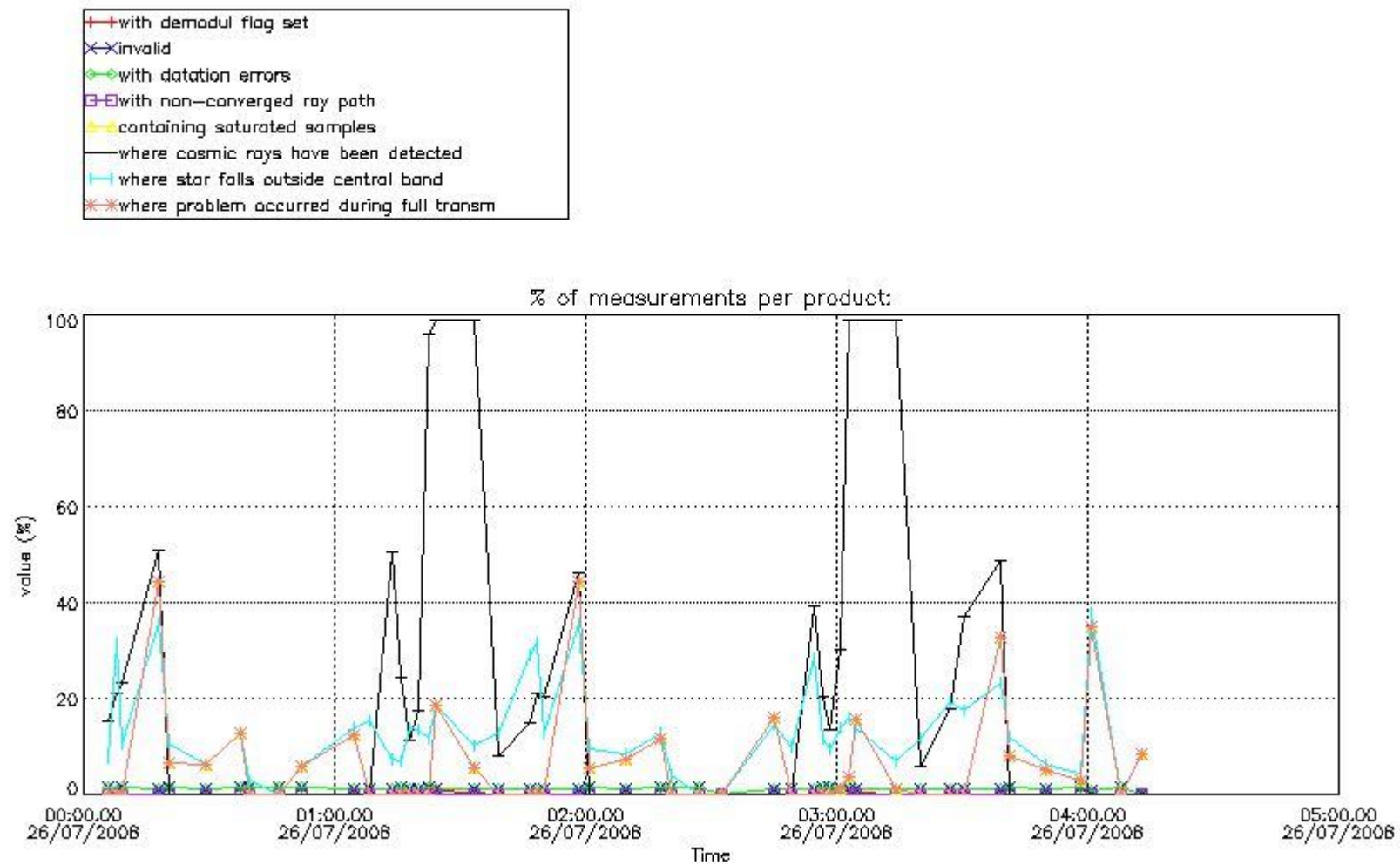
5. Demodulation flag and quality information monitoring

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.

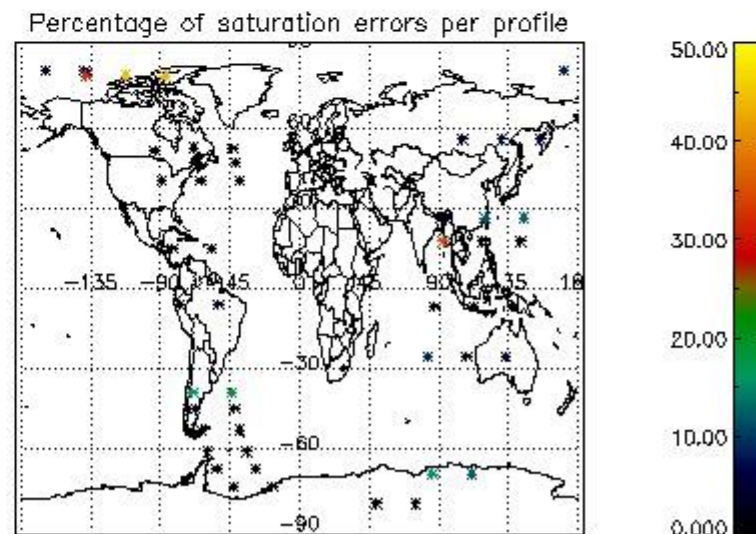
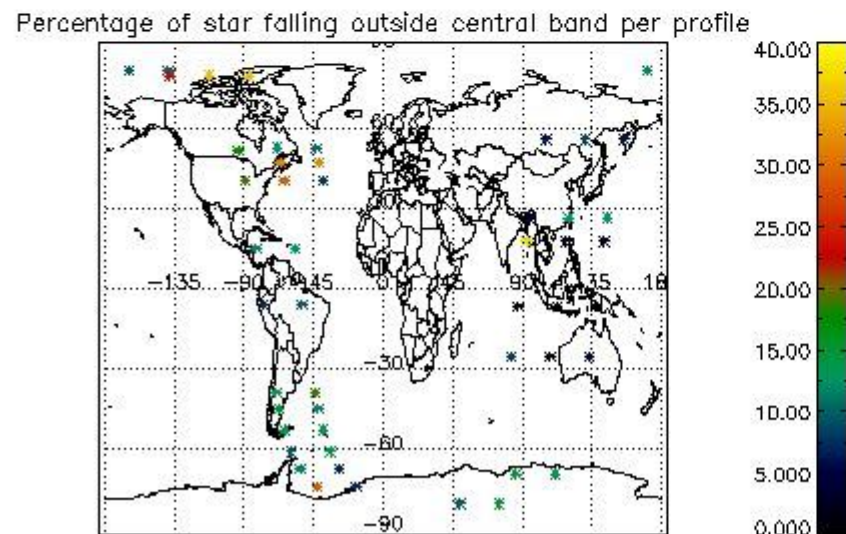
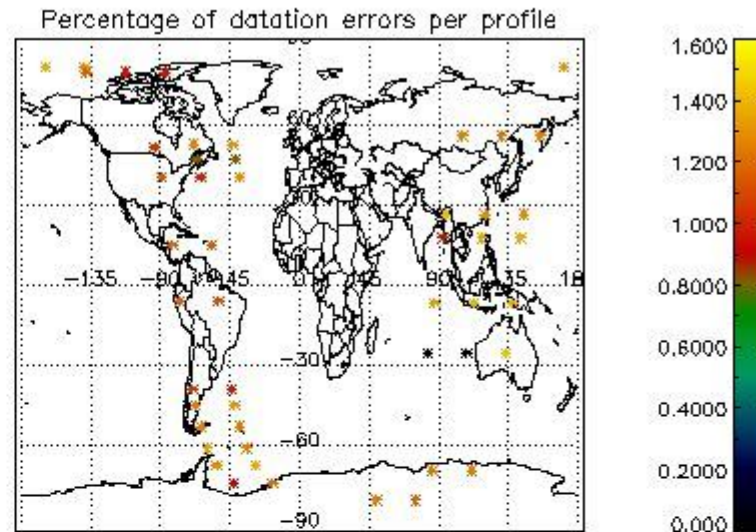
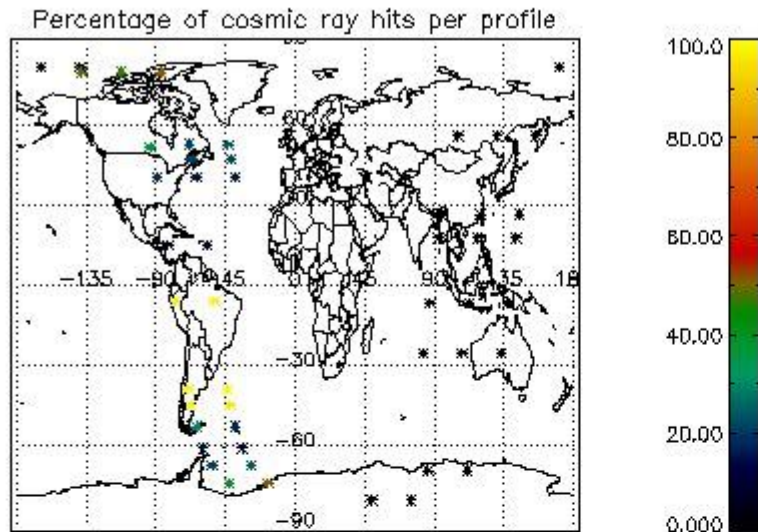
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	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)



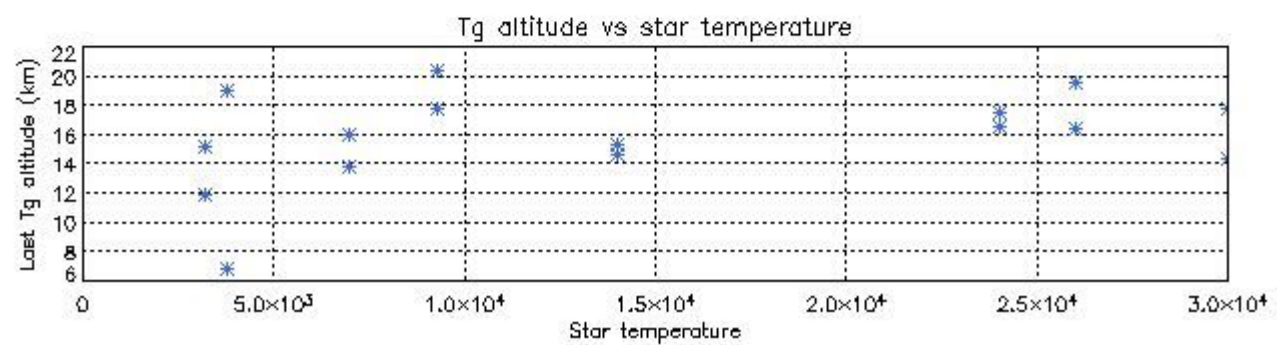
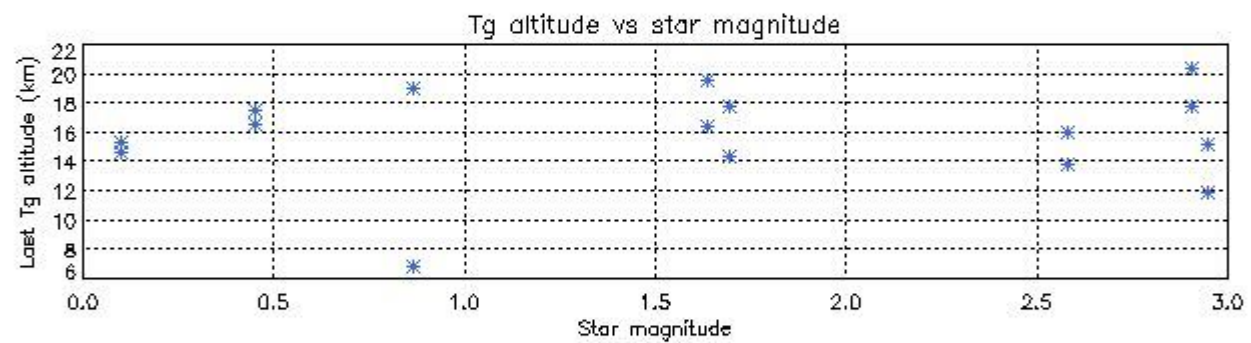
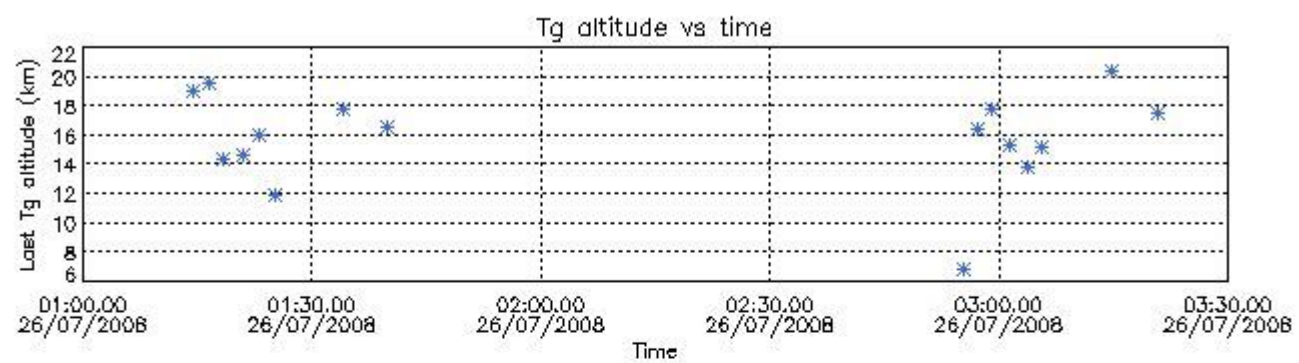
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.788	18.677	NaN
St. deviation:	3.2670	8.0027	NaN
Maximum:	20.313	32.767	NaN
Minimum:	6.7742	2.3513	NaN
Number of data:	16.000	25.000	NaN

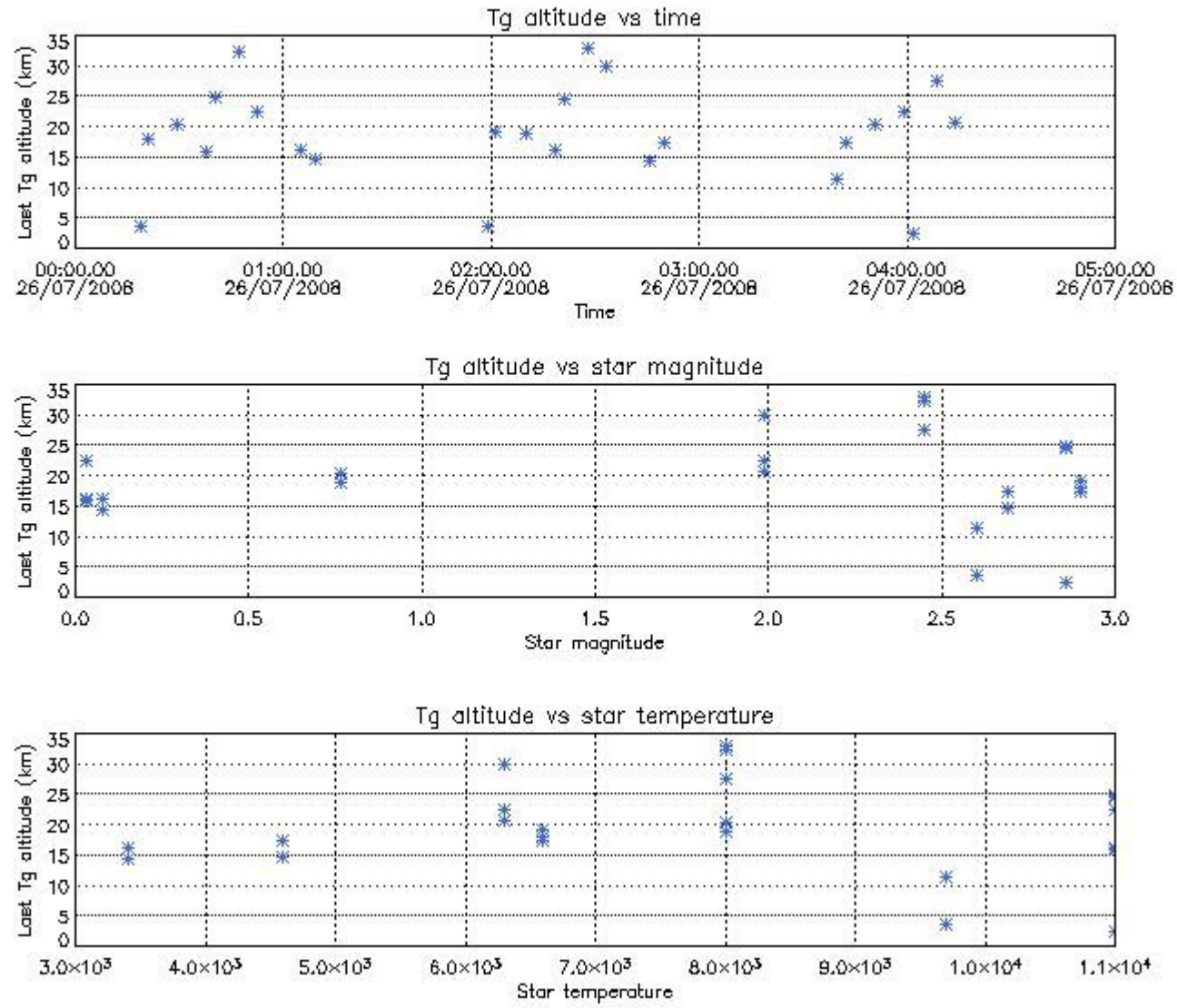
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

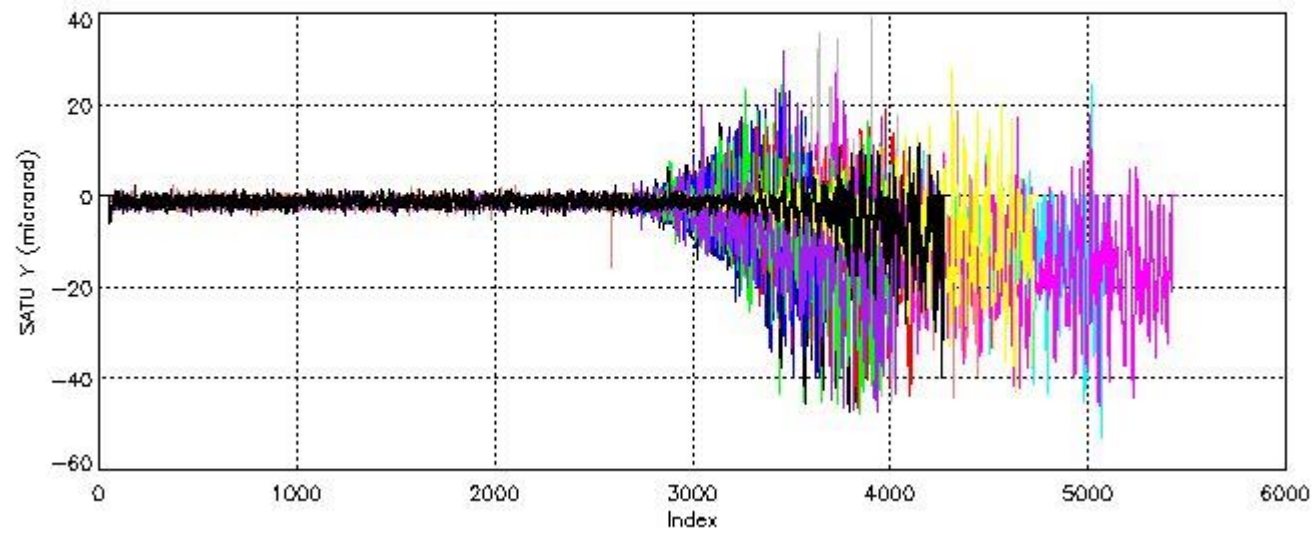
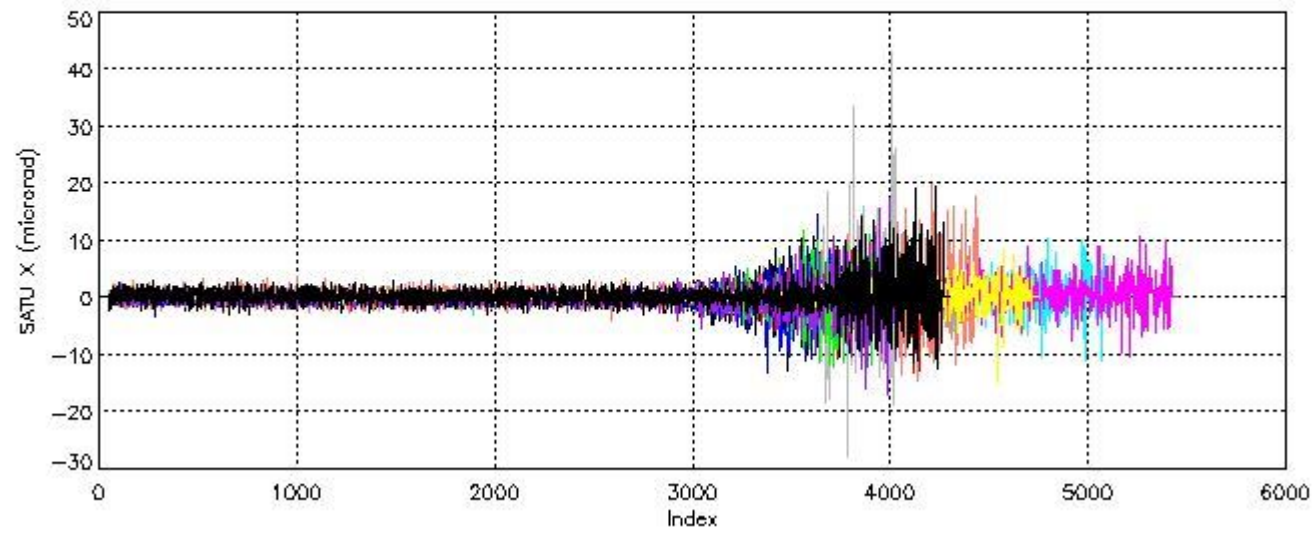


7. Star Acquisition and Tracking Unit (SATU)

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:	0.078472	-1.2955	0.17075	-1.3002
St. deviation:	0.43353	0.57670	0.67859	0.77515
Maximum:	3.7000	2.4000	6.1000	3.9000
Minimum:	-3.4000	-6.0000	-4.8000	-6.2000

Number of data:	14850.	14850.	21400.	21400.
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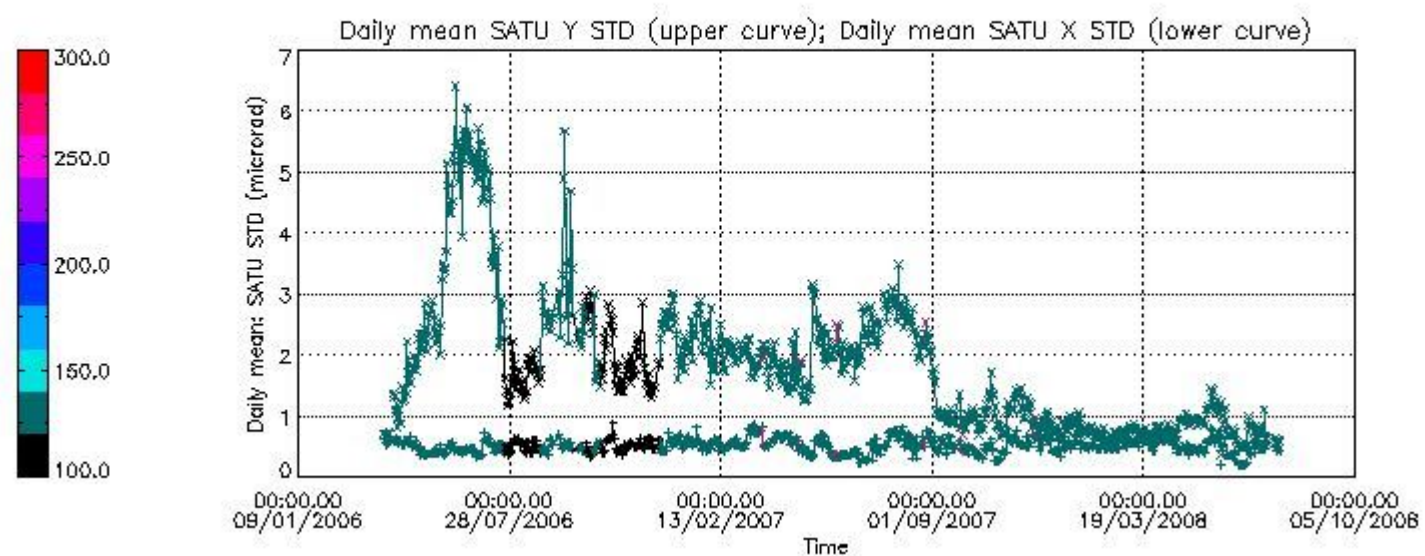
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

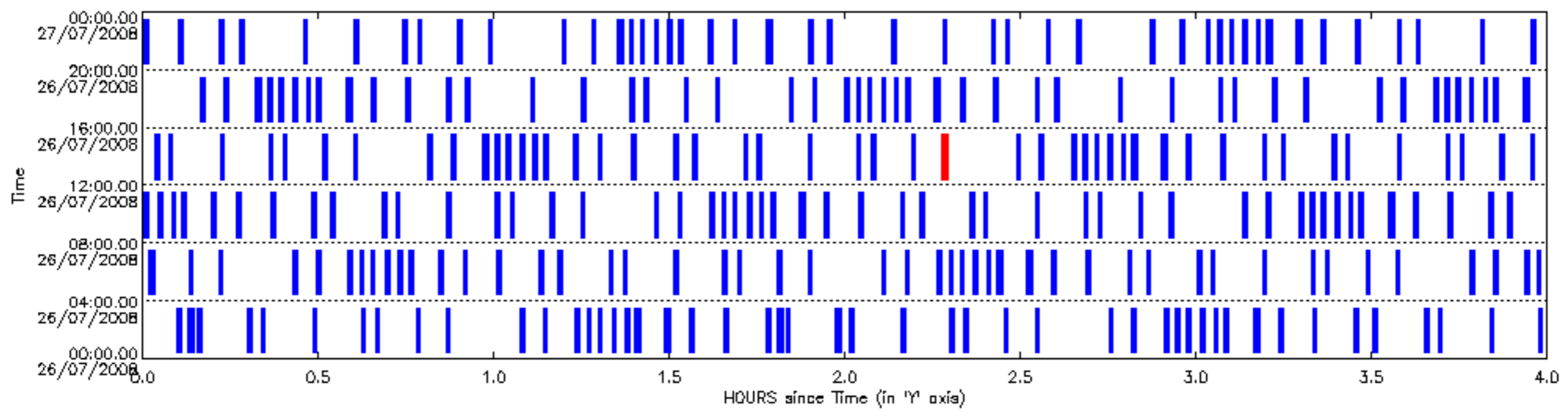
Lower curve: STD of SATU X axis

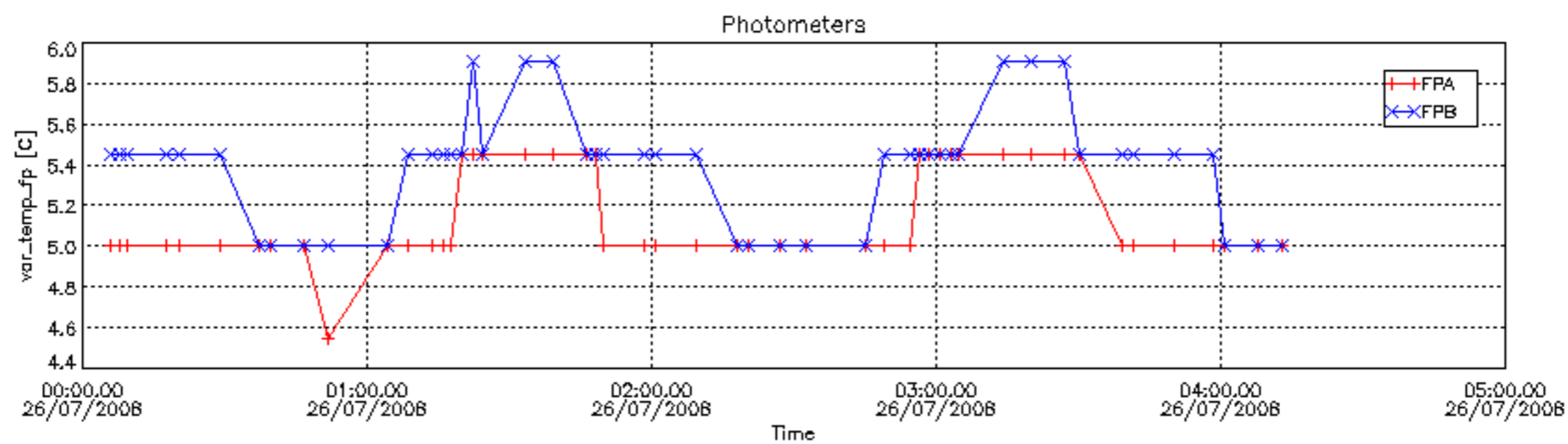
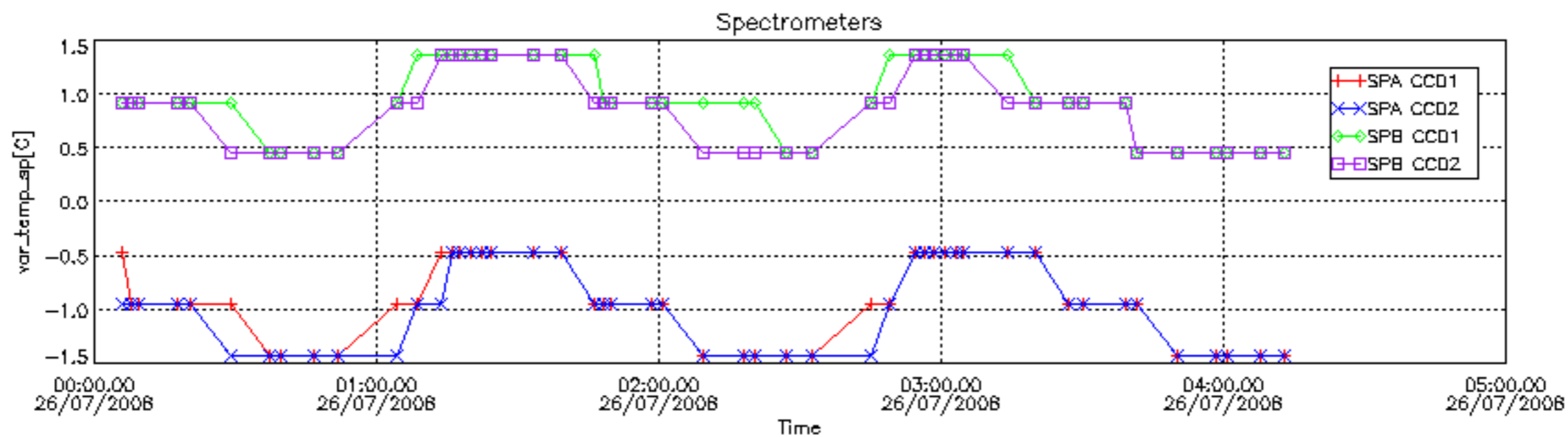


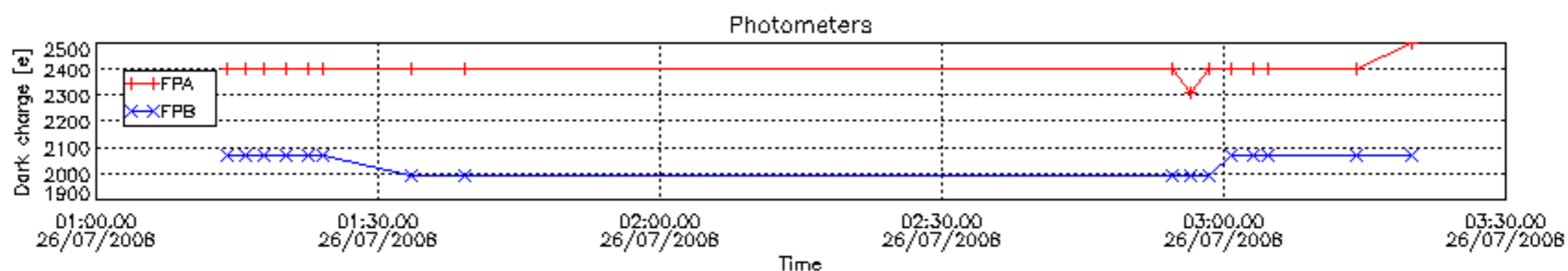
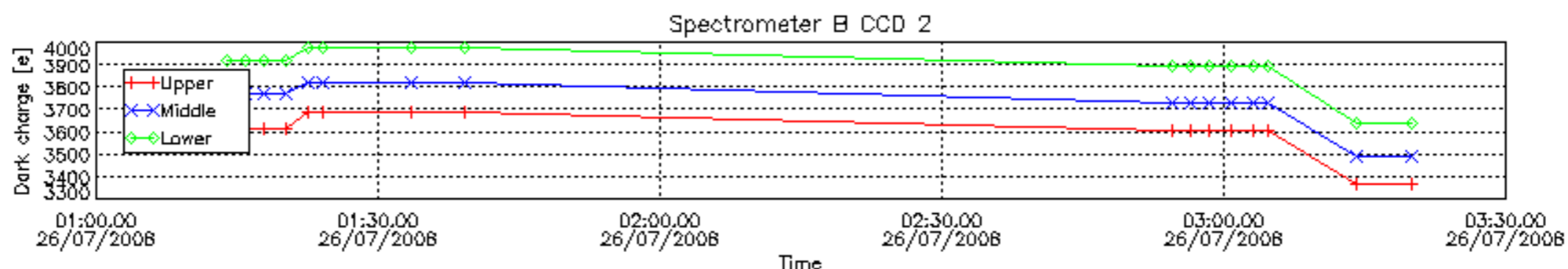
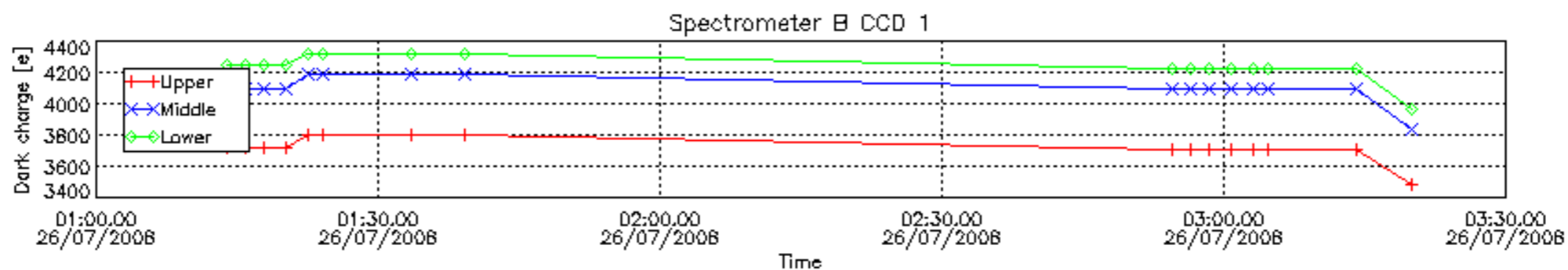
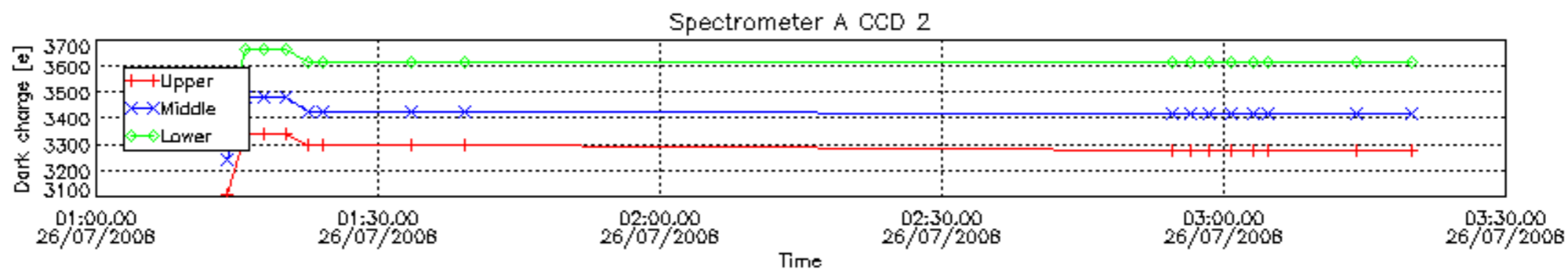
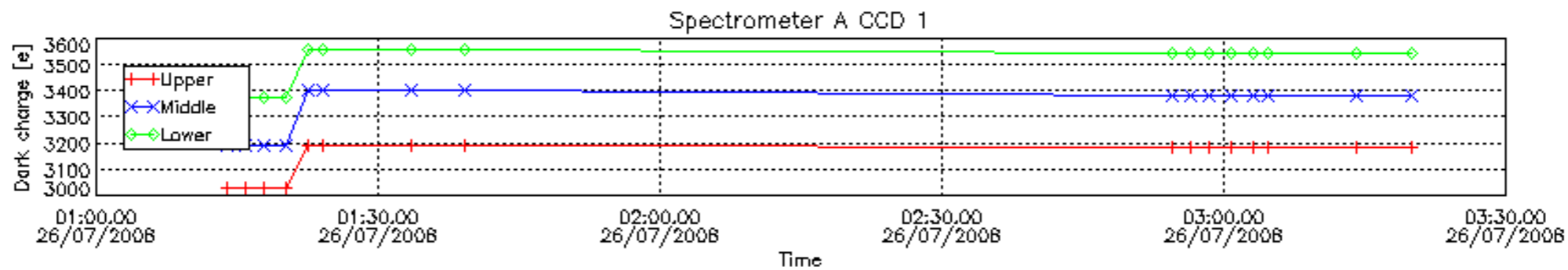
8. Auxiliary Data Files used for the production reported in section 2.4

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.

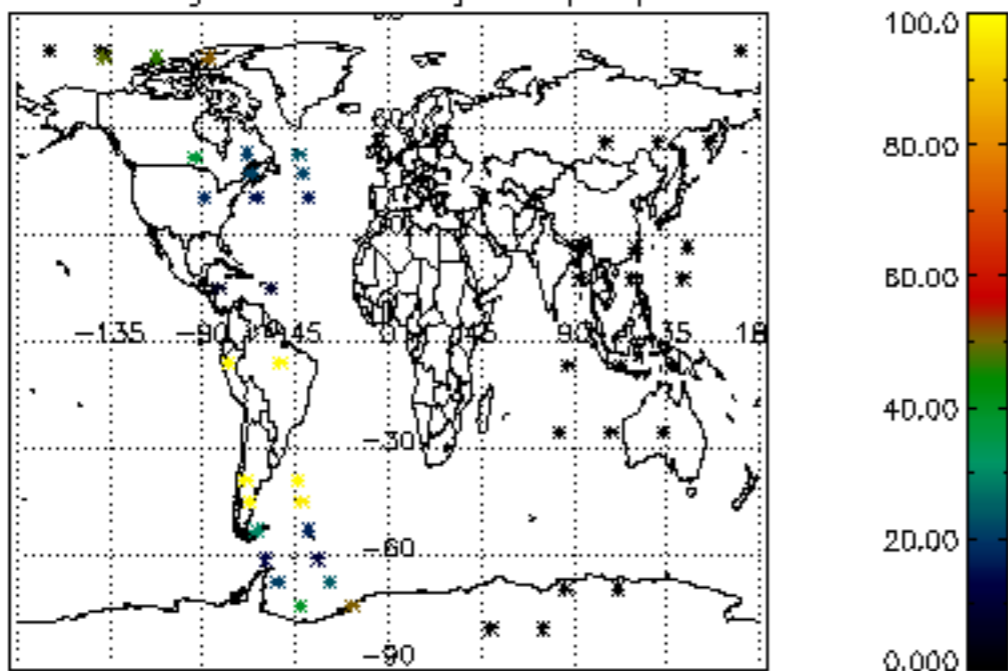
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	26-JUL-2008 00:05:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080711_132227_20080708_000000_20100101_000000	1	26-JUL-2008 00:05:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	26-JUL-2008 00:05:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-JUL-2008 00:05:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	26-JUL-2008 00:05:51
ECMWF_FILE	AUX_ECF_AXNECM20080725_072114_20080725_210000_20080726_090000	1	26-JUL-2008 00:05:51
OPTIONAL_ECMWF_FILE	MISSING	1	26-JUL-2008 00:05:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080725_215600_000057382070_00358_33478_6023.N1	1	26-JUL-2008 00:05:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080725_233657_000057382070_00359_33479_6024.N1	17	26-JUL-2008 01:22:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080726_011754_000044632070_00360_33480_6025.N1	31	26-JUL-2008 02:45:04



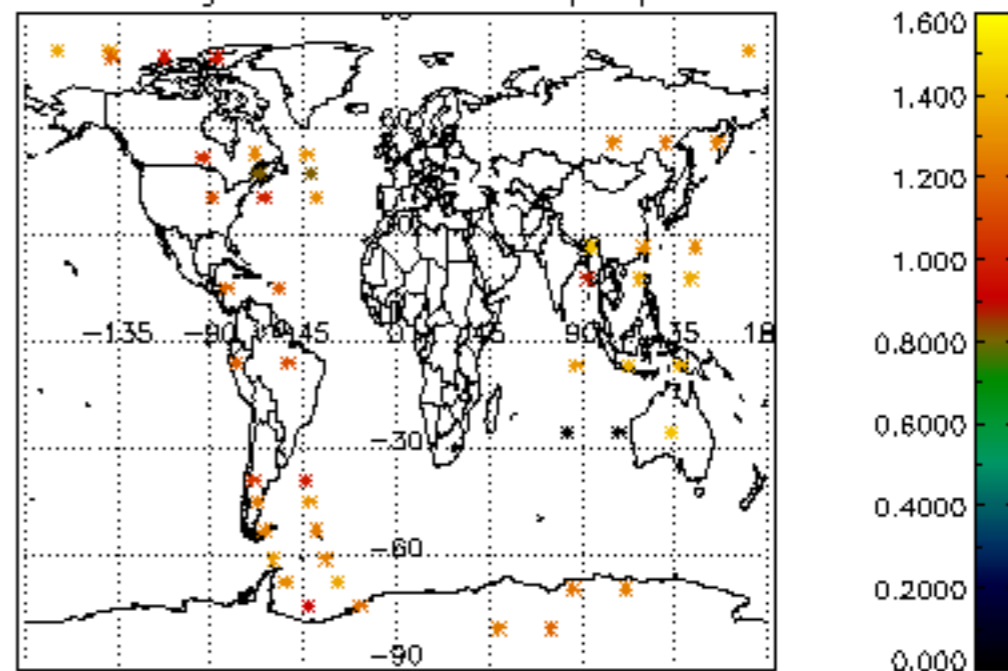




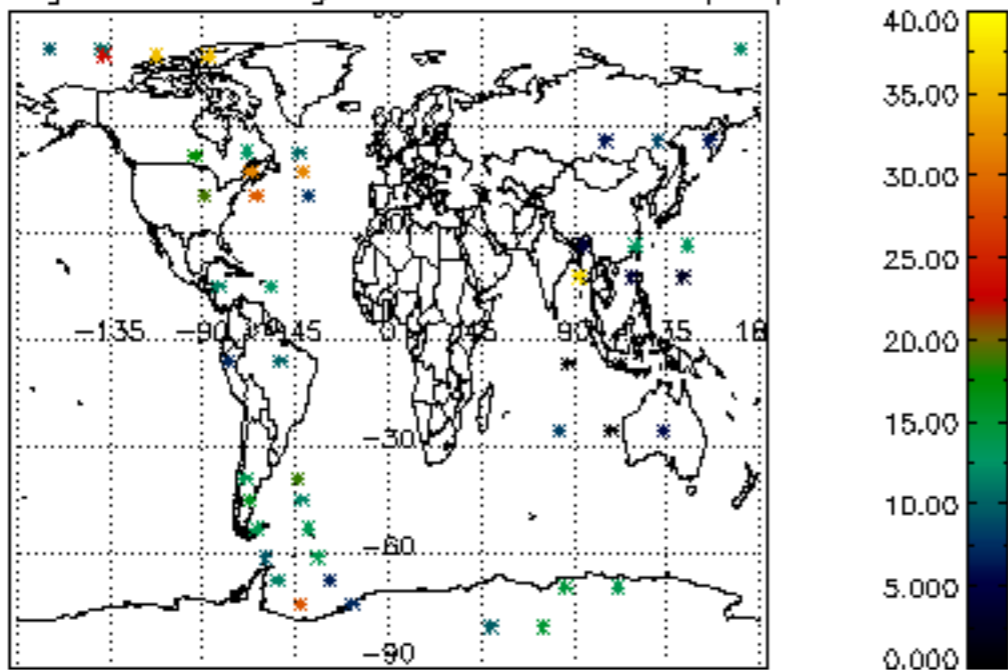
Percentage of cosmic ray hits per profile



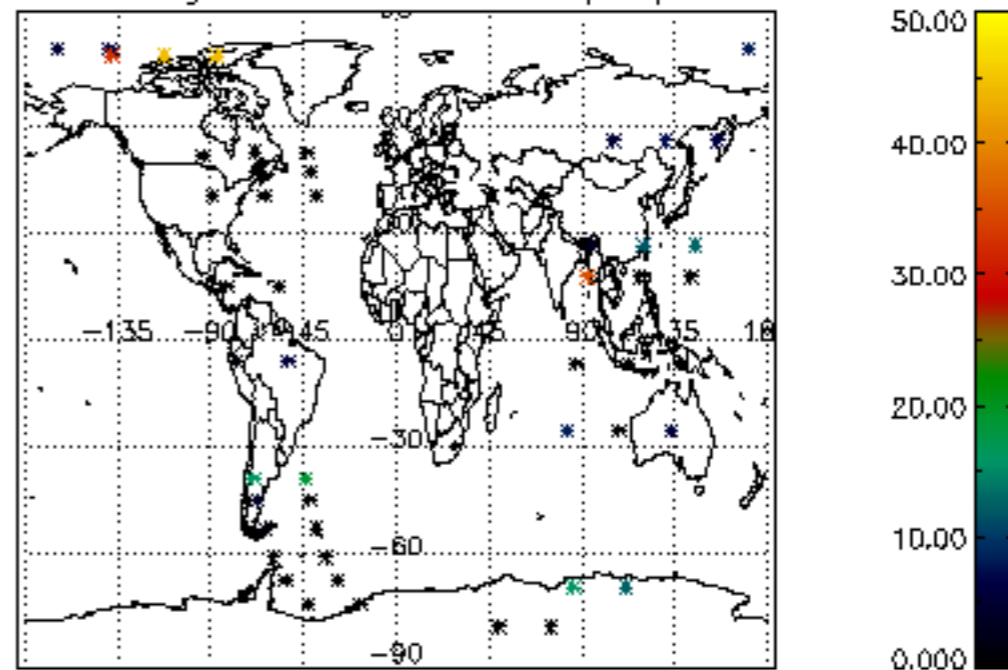
Percentage of datation errors per profile



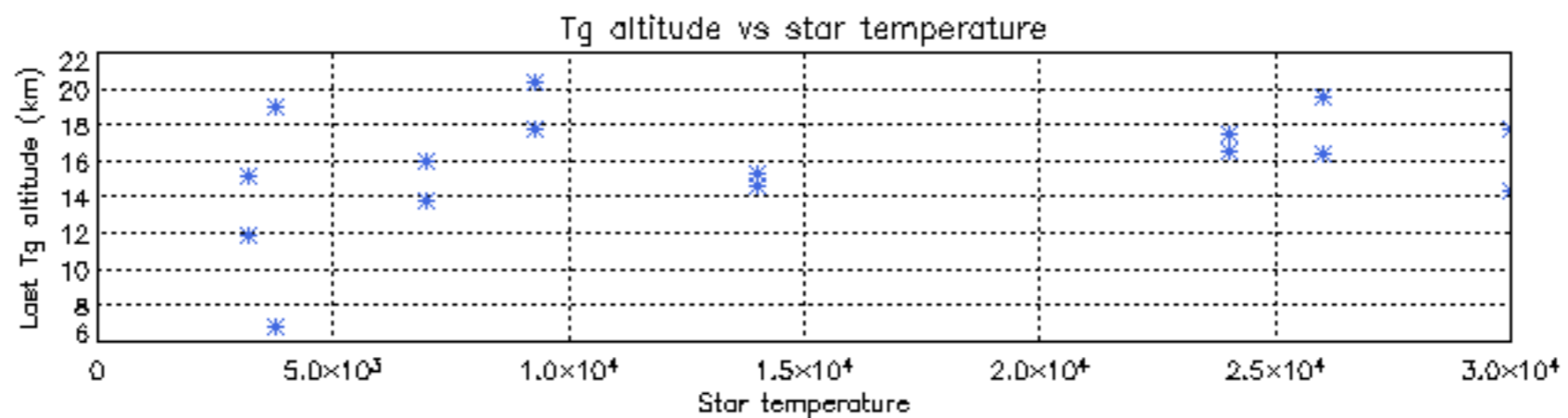
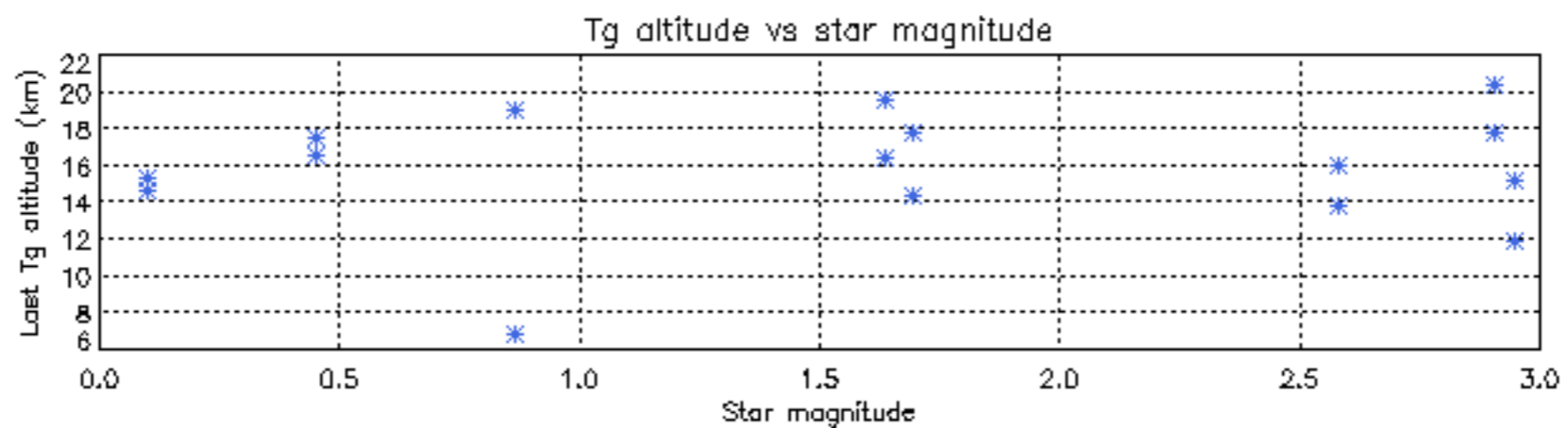
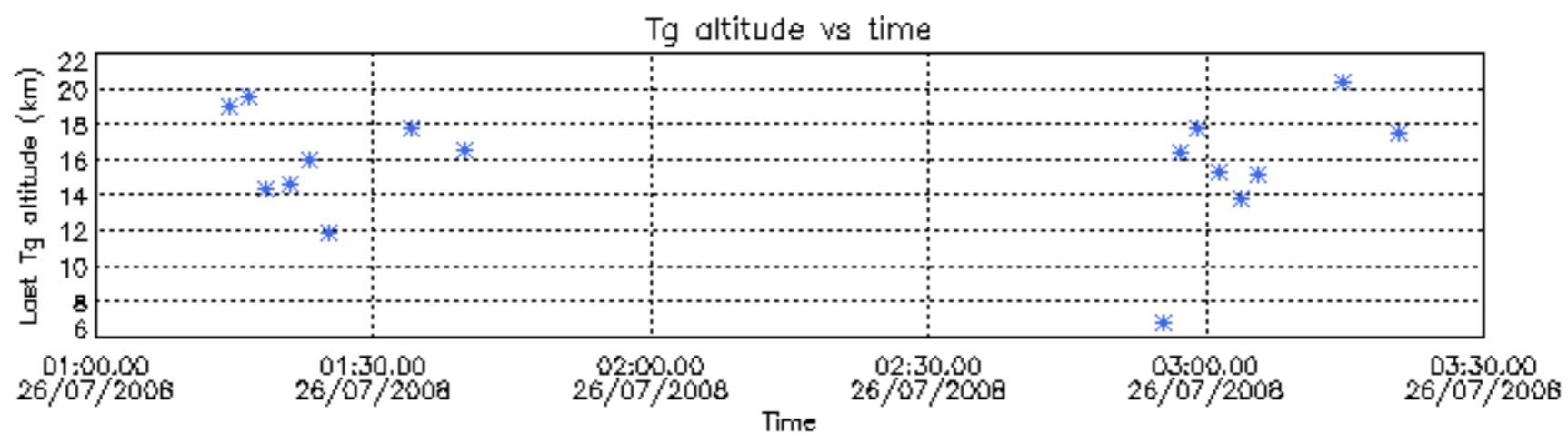
Percentage of star falling outside central band per profile



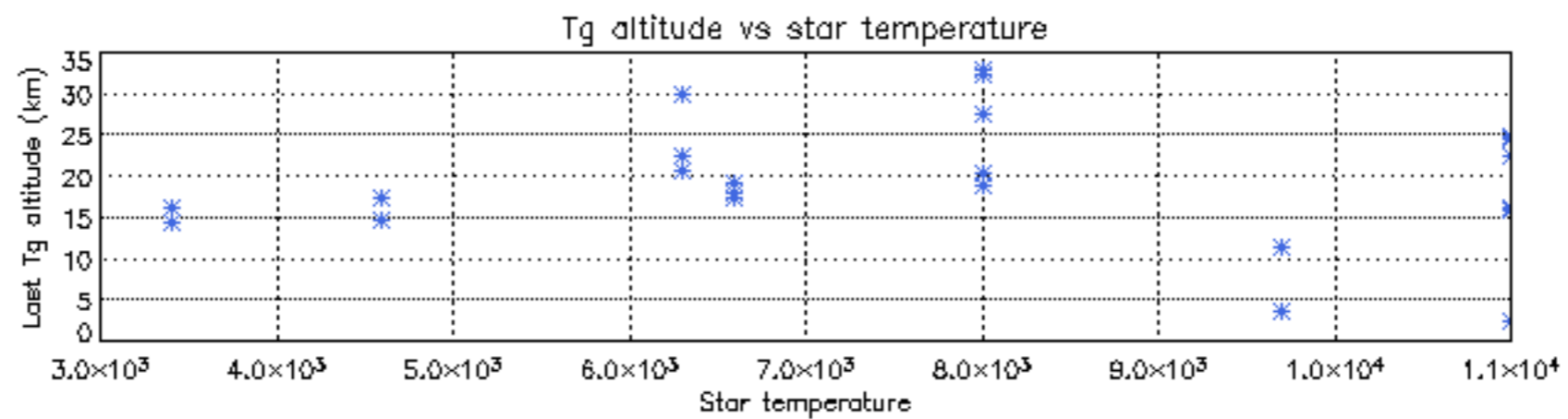
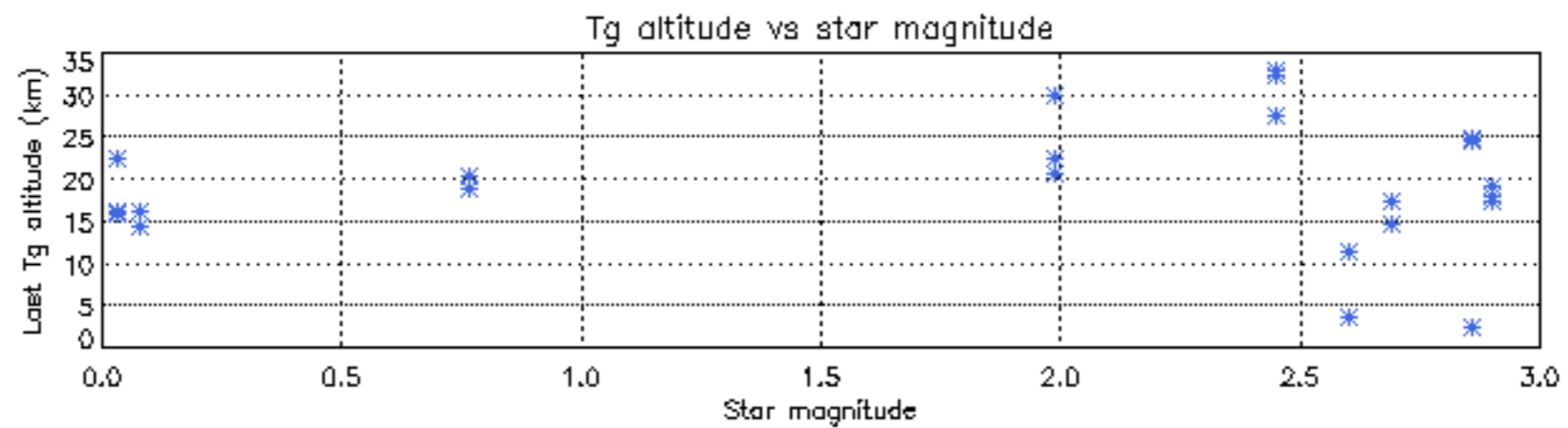
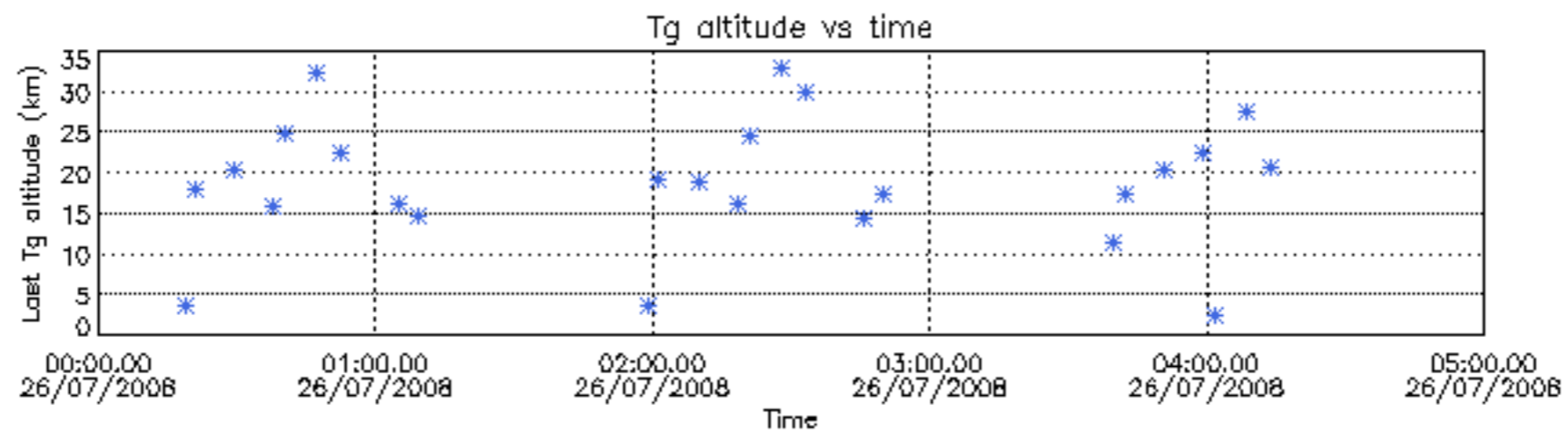
Percentage of saturation errors per profile

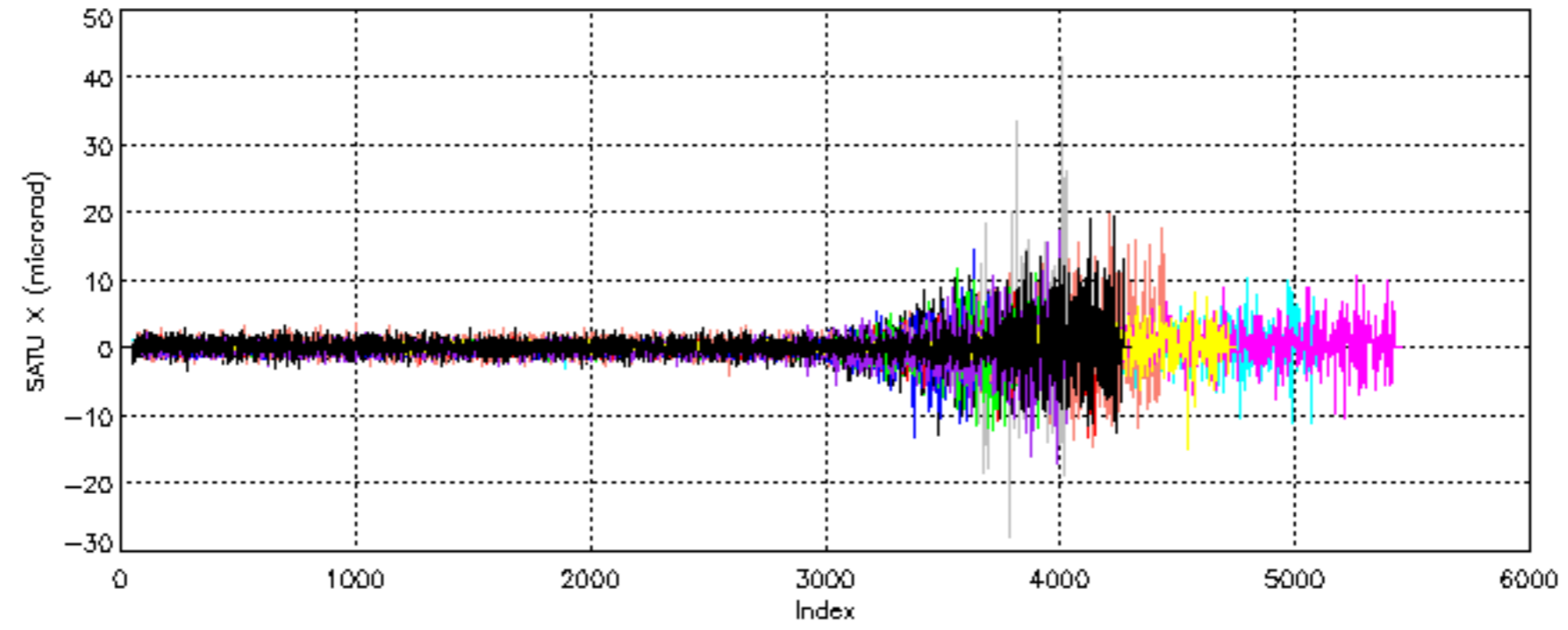


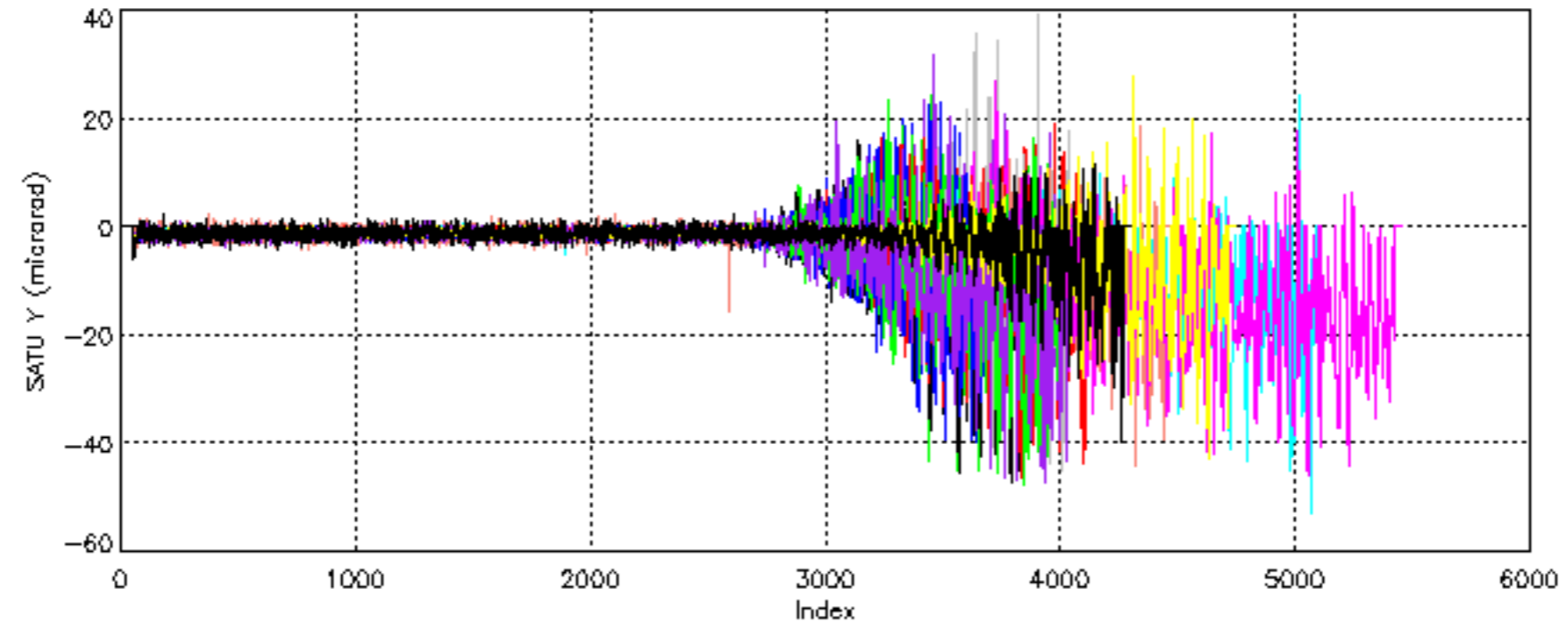
Tangent altitude at which the star is lost

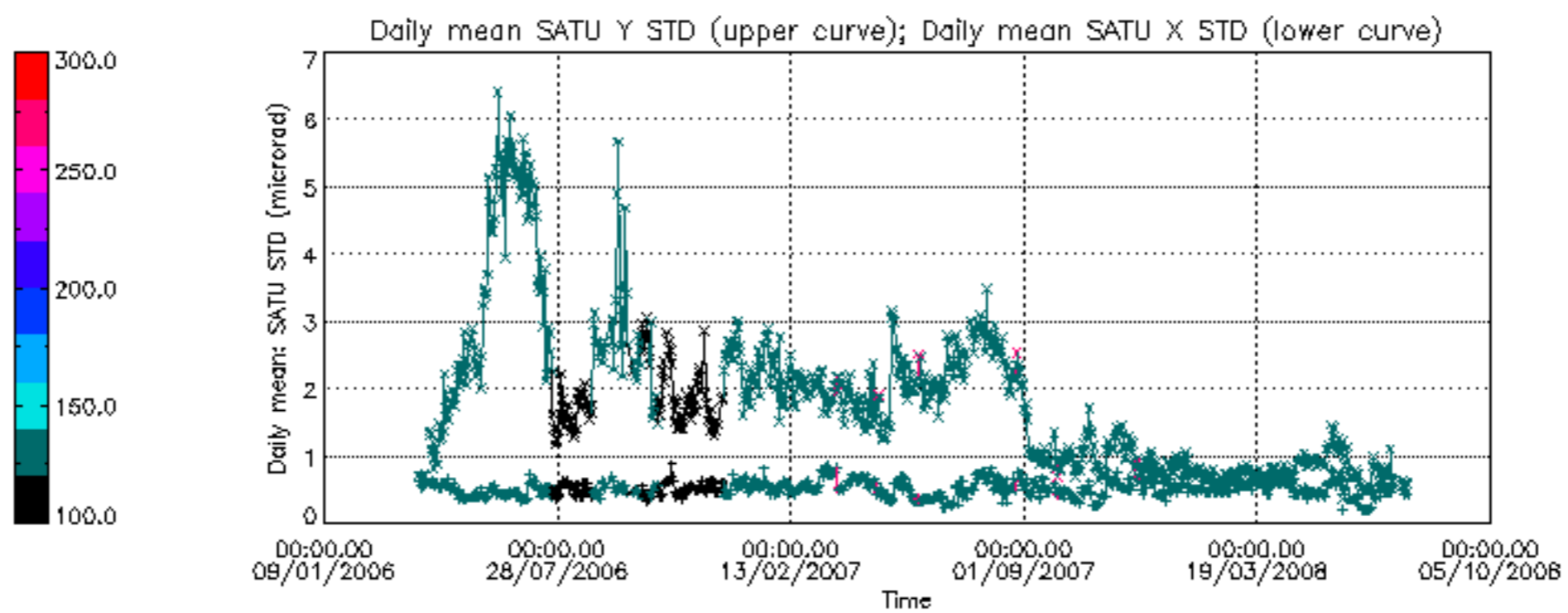


Tangent altitude at which the star is lost









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 3; 1274.5; 01-JUL-2008 20:08:33; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33134
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 6; 1751.3; 01-JUL-2008 20:16:29; Bright; 25.0; 98; 13Zet Oph ; 2.57; 30000;occ; 50; 0;33134
 7; 1982.1; 01-JUL-2008 20:20:20; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;33134
 8; 2121.6; 01-JUL-2008 20:22:40; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33134
 9; 2286.4; 01-JUL-2008 20:25:24; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33134
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 11; 2806.8; 01-JUL-2008 20:34:05; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33134
 12; 2953.3; 01-JUL-2008 20:36:31; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33134
 13; 3194.0; 01-JUL-2008 20:40:32; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;33134
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 16; 4166.6; 01-JUL-2008 20:56:45; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;33134
 17; 4295.5; 01-JUL-2008 20:58:54; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;33134
 18; 4582.1; 01-JUL-2008 21:03:40; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33134
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 5; 320.1; 01-JUL-2008 21:33:14; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33135
 6; 494.1; 01-JUL-2008 21:36:08; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33135
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 5; 494.6; 01-JUL-2008 23:16:44; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33136
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22; 4295.6; 02-JUL-2008 00:20:05; Bright; 45.0; 79; 26Bet Per ; 2.31; 13100;occ; 90; 0;33136
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 5; 1174.1; 01-JUL-2008 10:03:17; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33128
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 5; 2286.2; 01-JUL-2008 10:21:49; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;33128
 6; 2449.8; 01-JUL-2008 10:24:32; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33128
 7; 2808.4; 01-JUL-2008 10:30:31; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33128
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 10; 1652.8; 05-JUL-2008 01:22:24; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;33180
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5; 4196.3; 23-JUL-2008 09:21:41; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;33442
6; 4430.8; 23-JUL-2008 09:25:36; Bright; 38.5; 114; 3Iot Aur ; 2.69; 4600;occ; 77; 0;33442
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12; 2660.5; 30-JUL-2008 01:53:34; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33538
13; 3101.8; 30-JUL-2008 02:00:55; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;33538
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5; 913.8; 31-JUL-2008 00:52:50; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;33552

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19; 4906.4; 31-JUL-2008 01:59:23; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;33552
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6; 714.3; 31-JUL-2008 02:30:07; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;33553
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13; 2654.3; 31-JUL-2008 03:02:27; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33553
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19; 2654.0; 31-JUL-2008 04:43:02; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33554
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12; 301.9; 31-JUL-2008 05:44:26; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;33555
13; 715.2; 31-JUL-2008 05:51:20; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33555

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19; 2653.6; 31-JUL-2008 06:23:38; Bright; 39.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 79; 0;33555
20; 3094.4; 31-JUL-2008 06:30:59; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;33555
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