

GOMOS Daily Report 29-JUL-2007

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	01AUG2007 09:42:01
Data source version	GOMOS/5.00
Start time of products	29-07-2007 (29JUL2007 00:00:00)
Stop time of products	30-07-2007 (30JUL2007 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)

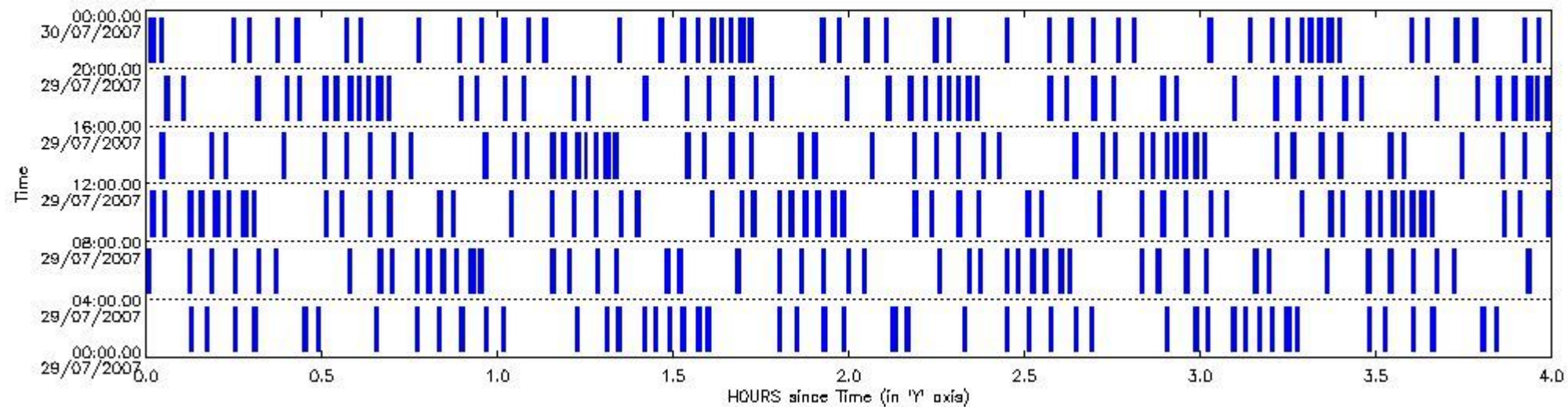
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

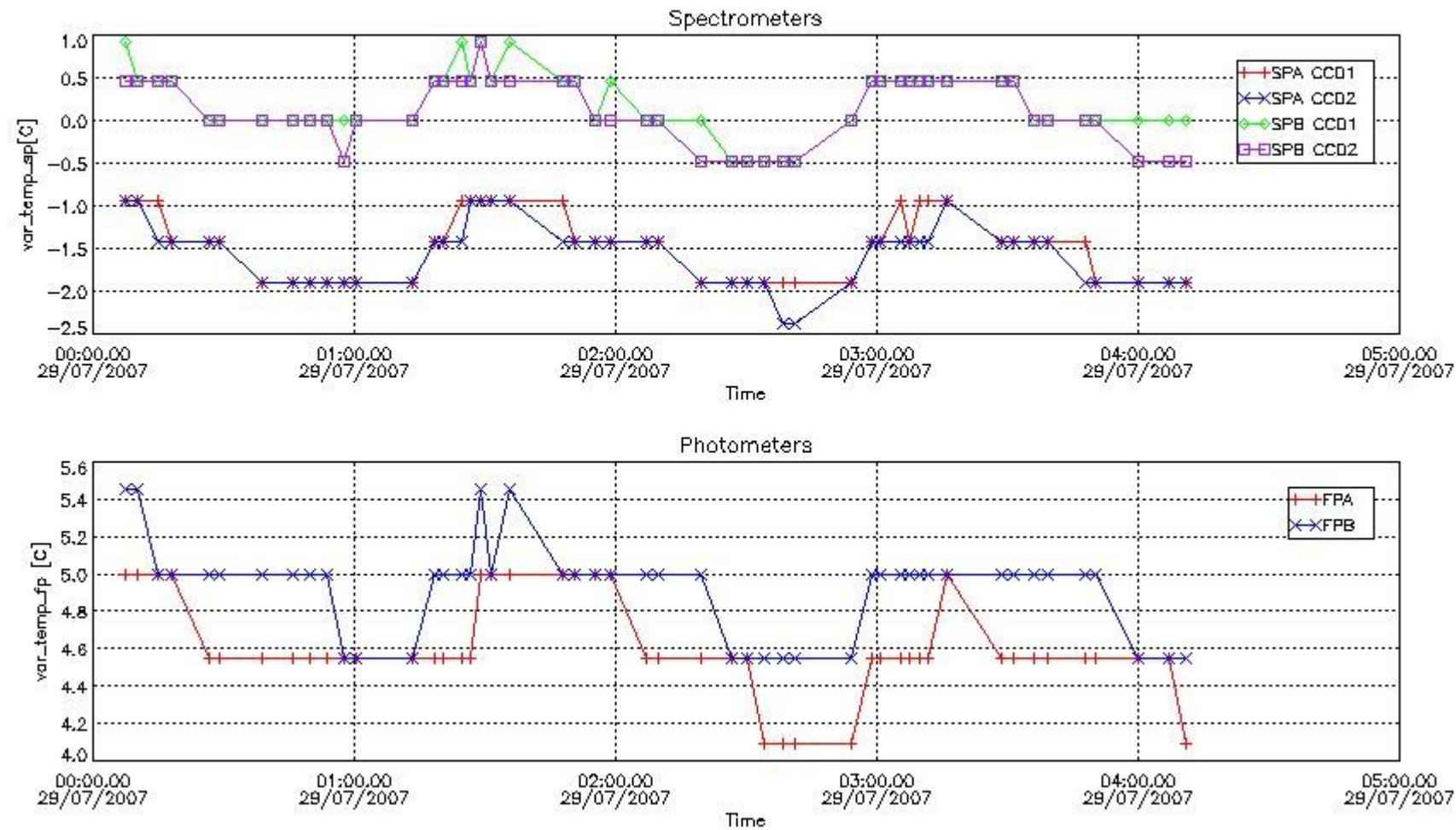
No missing products.

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_1PNPDE20070729_000715_000000392060_00174_28284_5234.N1	29-JUL-2007 00:07:15	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28284	No
2	GOM_TRA_1PNPDE20070729_001006_000000372060_00174_28284_5235.N1	29-JUL-2007 00:10:06	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28284	No
3	GOM_TRA_1PNPDE20070729_001449_000000422060_00174_28284_5236.N1	29-JUL-2007 00:14:49	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	28284	No
4	GOM_TRA_1PNPDE20070729_001811_000000392060_00174_28284_5237.N1	29-JUL-2007 00:18:11	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	28284	No
5	GOM_TRA_1PNPDE20070729_002637_000000462060_00174_28284_5238.N1	29-JUL-2007 00:26:37	Bright	45.500	103	38Zet Sgr	2.6000	9700.0	91	28284	No
6	GOM_TRA_1PNPDE20070729_002901_000000372060_00174_28284_5239.N1	29-JUL-2007 00:29:01	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28284	No
7	GOM_TRA_1PNPDE20070729_003856_000000362060_00174_28284_5240.N1	29-JUL-2007 00:38:56	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	28284	No
8	GOM_TRA_1PNPDE20070729_004600_000000382060_00174_28284_5241.N1	29-JUL-2007 00:46:00	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	28284	No
9	GOM_TRA_1PNPDE20070729_004943_000000362060_00174_28284_5242.N1	29-JUL-2007 00:49:43	Bright	36.000	69	33Gam Dra	2.2310	3800.0	72	28284	No
10	GOM_TRA_1PNPDE20070729_005334_000000362060_00174_28284_5243.N1	29-JUL-2007 00:53:34	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	28284	No
11	GOM_TRA_1PNPDE20070729_005746_000000342060_00174_28284_5244.N1	29-JUL-2007 00:57:46	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	28284	No
12	GOM_TRA_1PNPDE20070729_010034_000000342060_00174_28284_5245.N1	29-JUL-2007 01:00:34	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28284	No

13	GOM_TRA_1PNPDE20070729_011321_000000342060_00174_28284_5246.N1	29-JUL-2007 01:13:21	Bright	34.000	42	34Bet Aur	1.9000	10200.	68	28284	No
14	GOM_TRA_1PNPDE20070729_011819_000000422060_00174_28284_5247.N1	29-JUL-2007 01:18:19	Bright	42.000	28	12Bet Tau	1.6500	15200.	84	28284	No
15	GOM_TRA_1PNPDE20070729_012022_000000382060_00174_28284_5248.N1	29-JUL-2007 01:20:22	Twilight	38.000	176	23Zet Tau	3.0200	22000.	76	28284	No
16	GOM_TRA_1PNPDE20070729_012447_000000362060_00174_28284_5249.N1	29-JUL-2007 01:24:47	Dark	36.000	27	24Gam Ori	1.6360	26000.	72	28284	No
17	GOM_TRA_1PNPDE20070729_012642_000000352060_00174_28284_5250.N1	29-JUL-2007 01:26:42	Dark	35.000	30	46Eps Ori	1.6940	30000.	70	28284	No
18	GOM_TRA_1PNPDE20070729_012905_000000392060_00174_28284_5352.N1	29-JUL-2007 01:29:05	Dark	39.000	7	19Bet Ori	0.10000	14000.	78	28284	No
19	GOM_TRA_1PNPDE20070729_013119_000000402060_00174_28284_5353.N1	29-JUL-2007 01:31:19	Dark	40.000	101	11Alp Lep	2.5820	7000.0	80	28284	No
20	GOM_TRA_1PNPDE20070729_013535_000000402060_00174_28284_5354.N1	29-JUL-2007 01:35:35	Dark	39.500	108	Alp Col	2.6520	15200.	79	28284	No
21	GOM_TRA_1PNPDE20070729_014752_000000392060_00175_28285_5355.N1	29-JUL-2007 01:47:52	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28285	No
22	GOM_TRA_1PNPDE20070729_015042_000000372060_00175_28285_5356.N1	29-JUL-2007 01:50:42	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28285	No
23	GOM_TRA_1PNPDE20070729_015525_000000432060_00175_28285_5357.N1	29-JUL-2007 01:55:25	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28285	No
24	GOM_TRA_1PNPDE20070729_015847_000000412060_00175_28285_5358.N1	29-JUL-2007 01:58:47	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	28285	No
25	GOM_TRA_1PNPDE20070729_020713_000000522060_00175_28285_5359.N1	29-JUL-2007 02:07:13	Bright	52.000	103	38Zet Sgr	2.6000	9700.0	104	28285	No
26	GOM_TRA_1PNPDE20070729_020937_000000382060_00175_28285_5360.N1	29-JUL-2007 02:09:37	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28285	No
27	GOM_TRA_1PNPDE20070729_021932_000000352060_00175_28285_5361.N1	29-JUL-2007 02:19:32	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28285	No
28	GOM_TRA_1PNPDE20070729_022636_000000382060_00175_28285_5362.N1	29-JUL-2007 02:26:36	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	28285	No
29	GOM_TRA_1PNPDE20070729_023019_000000332060_00175_28285_5363.N1	29-JUL-2007 02:30:19	Bright	32.500	69	33Gam Dra	2.2310	3800.0	65	28285	No
30	GOM_TRA_1PNPDE20070729_023410_000000342060_00175_28285_5364.N1	29-JUL-2007 02:34:10	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	28285	No
31	GOM_TRA_1PNPDE20070729_023822_000000332060_00175_28285_5365.N1	29-JUL-2007 02:38:22	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	28285	No
32	GOM_TRA_1PNPDE20070729_024110_000000332060_00175_28285_5366.N1	29-JUL-2007 02:41:10	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28285	No
33	GOM_TRA_1PNPDE20070729_025357_000000342060_00175_28285_5582.N1	29-JUL-2007 02:53:57	Bright	34.000	42	34Bet Aur	1.9000	10200.	68	28285	No
34	GOM_TRA_1PNPDE20070729_025856_000000402060_00175_28285_5583.N1	29-JUL-2007 02:58:56	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	28285	No
35	GOM_TRA_1PNPDE20070729_030058_000000382060_00175_28285_5584.N1	29-JUL-2007 03:00:58	Twilight	37.500	176	23Zet Tau	3.0200	22000.	75	28285	No
36	GOM_TRA_1PNPDE20070729_030523_000000362060_00175_28285_5585.N1	29-JUL-2007 03:05:23	Dark	36.000	27	24Gam Ori	1.6360	26000.	72	28285	No
37	GOM_TRA_1PNPDE20070729_030718_000000372060_00175_28285_5586.N1	29-JUL-2007 03:07:18	Dark	36.500	30	46Eps Ori	1.6940	30000.	73	28285	No
38	GOM_TRA_1PNPDE20070729_030941_000000452060_00175_28285_5587.N1	29-JUL-2007 03:09:41	Dark	45.000	7	19Bet Ori	0.10000	14000.	90	28285	No
39	GOM_TRA_1PNPDE20070729_031156_000000412060_00175_28285_5588.N1	29-JUL-2007 03:11:56	Dark	40.500	101	11Alp Lep	2.5820	7000.0	81	28285	No
40	GOM_TRA_1PNPDE20070729_031611_000000382060_00175_28285_5589.N1	29-JUL-2007 03:16:11	Dark	37.500	108	Alp Col	2.6520	15200.	75	28285	No
41	GOM_TRA_1PNPDE20070729_032828_000000382060_00176_28286_5590.N1	29-JUL-2007 03:28:28	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	28286	No
42	GOM_TRA_1PNPDE20070729_033118_000000372060_00176_28286_5591.N1	29-JUL-2007 03:31:18	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28286	No
43	GOM_TRA_1PNPDE20070729_033602_000000412060_00176_28286_5592.N1	29-JUL-2007 03:36:02	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	28286	No
44	GOM_TRA_1PNPDE20070729_033923_000000392060_00176_28286_5593.N1	29-JUL-2007 03:39:23	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	28286	No
45	GOM_TRA_1PNPDE20070729_034750_000000472060_00176_28286_5594.N1	29-JUL-2007 03:47:50	Bright	47.000	103	38Zet Sgr	2.6000	9700.0	94	28286	No
46	GOM_TRA_1PNPDE20070729_035013_000000372060_00176_28286_5595.N1	29-JUL-2007 03:50:13	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	28286	No
47	GOM_TRA_1PNPDE20070729_040008_000000352060_00176_28286_5596.N1	29-JUL-2007 04:00:08	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	28286	No
48	GOM_TRA_1PNPDE20070729_040713_000000342060_00176_28286_5597.N1	29-JUL-2007 04:07:13	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	28286	No
49	GOM_TRA_1PNPDE20070729_041055_000000342060_00176_28286_5598.N1	29-JUL-2007 04:10:55	Bright	34.000	69	33Gam Dra	2.2310	3800.0	68	28286	No

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



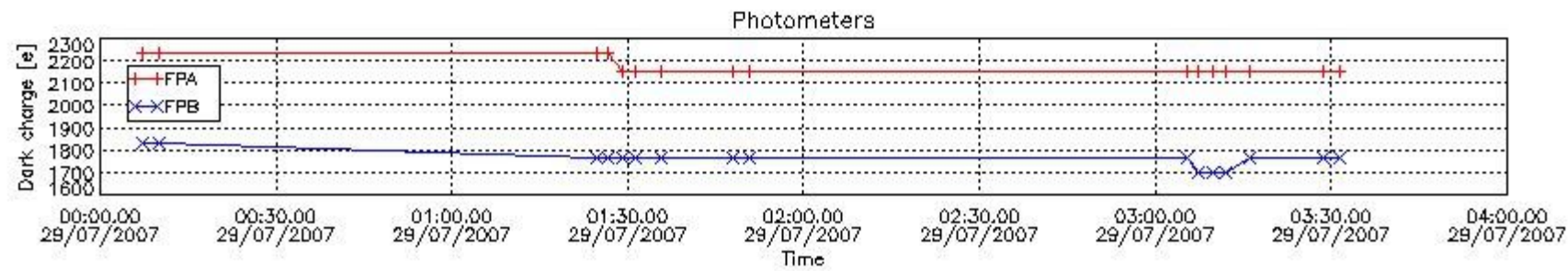
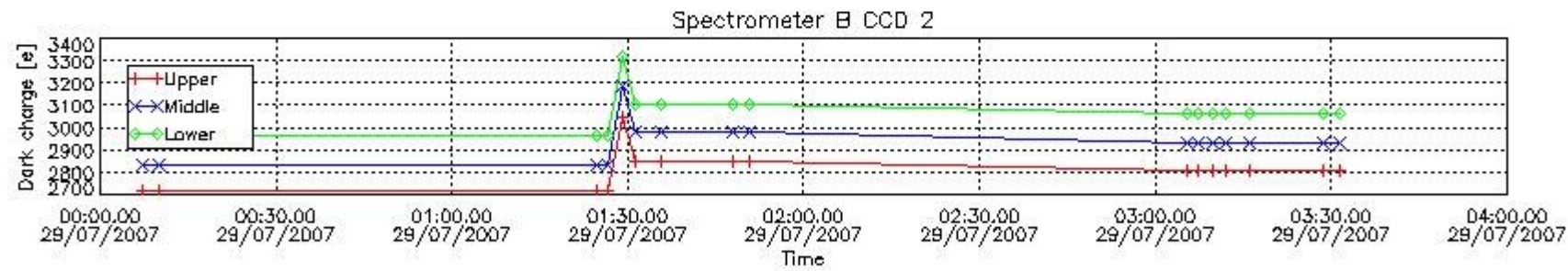
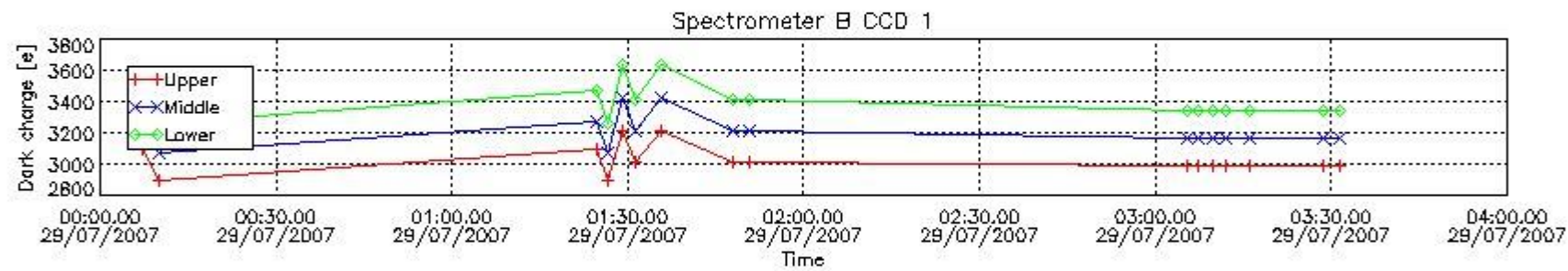
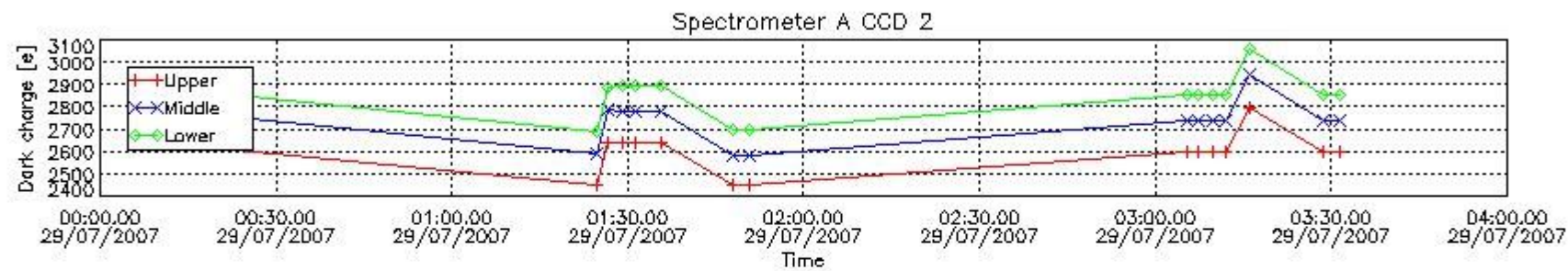
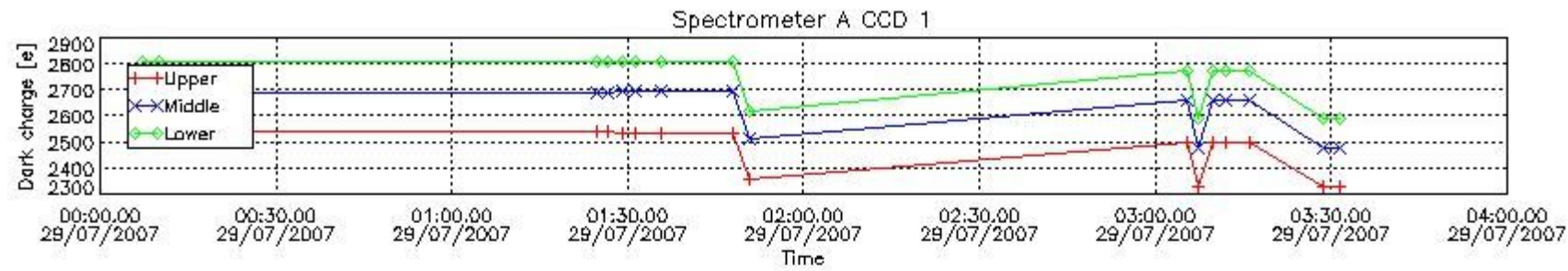
4. Overview of dark signal processing per product

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



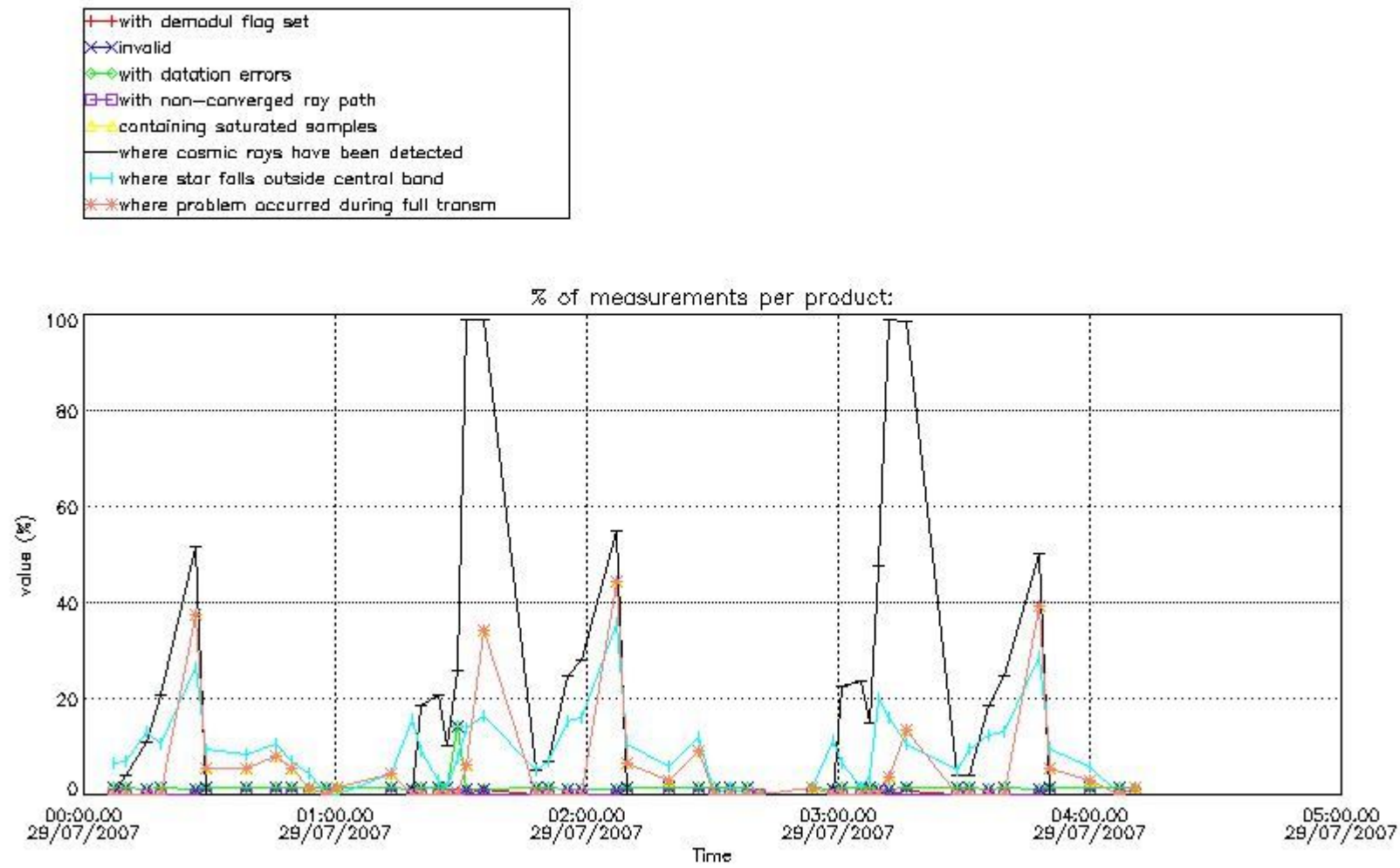
5. Demodulation flag and quality information monitoring

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.

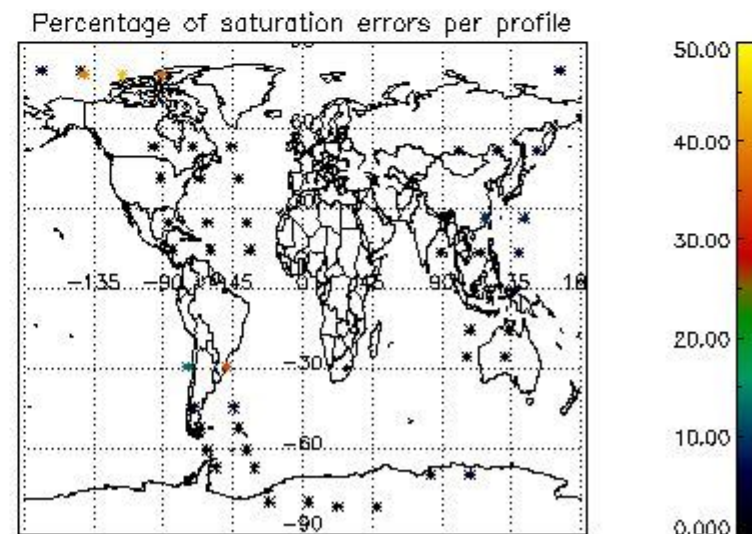
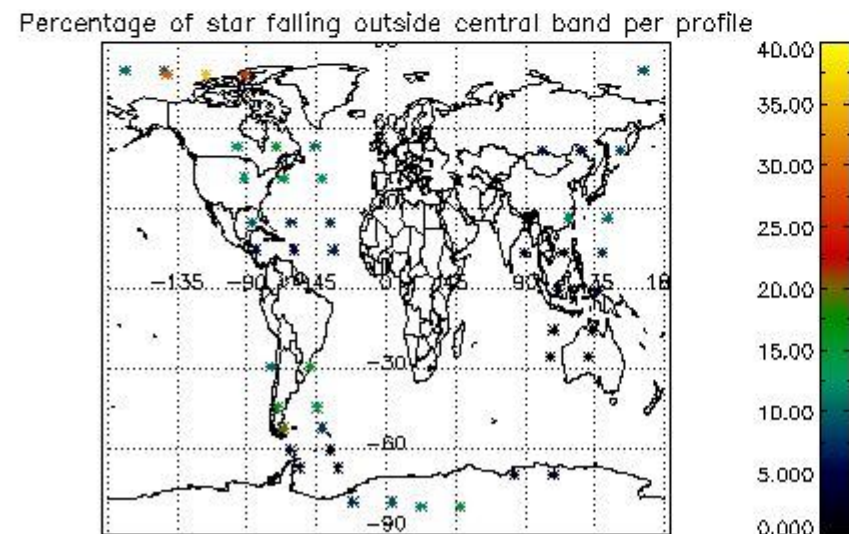
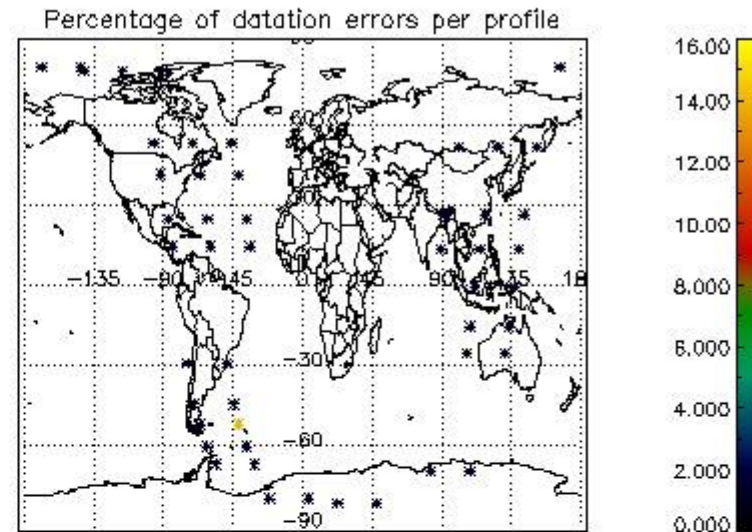
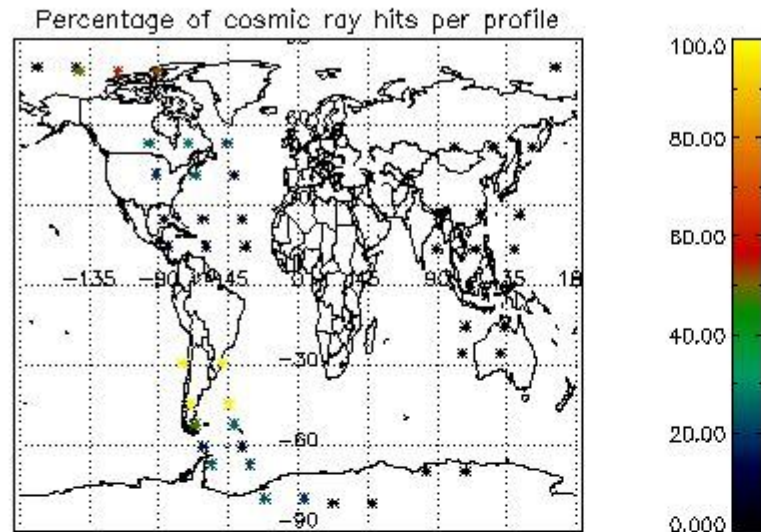
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.3673 %
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)



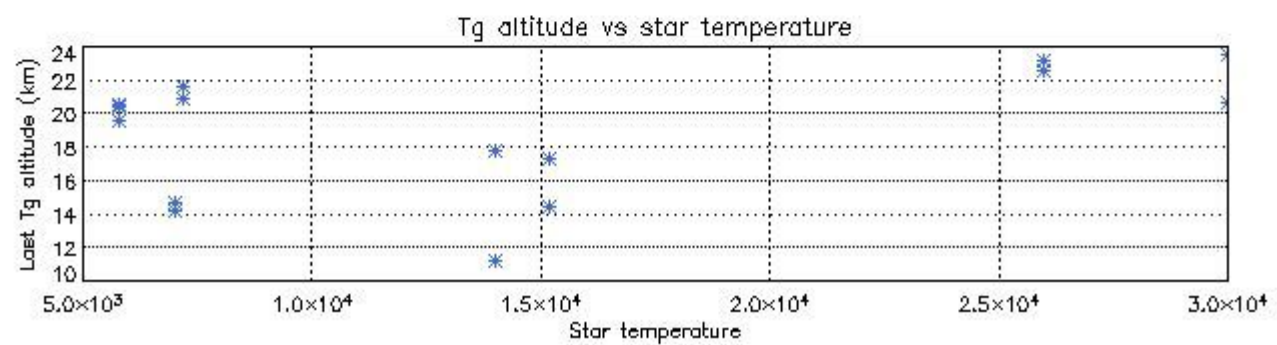
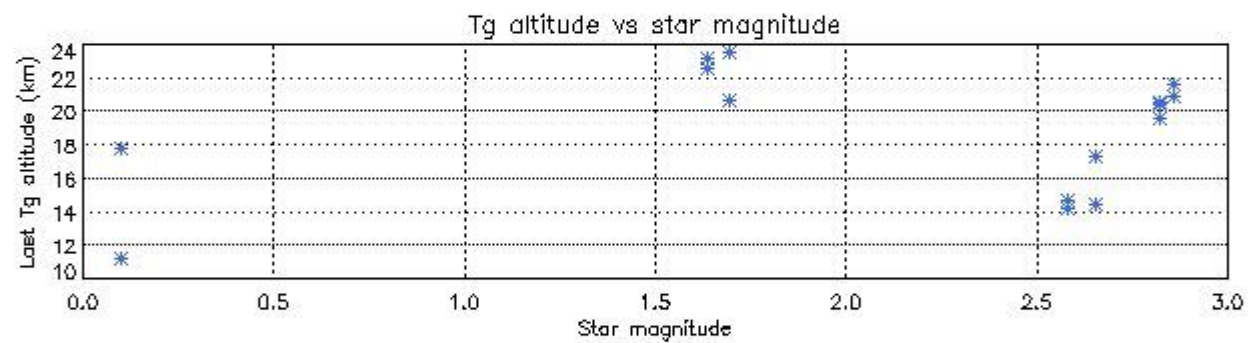
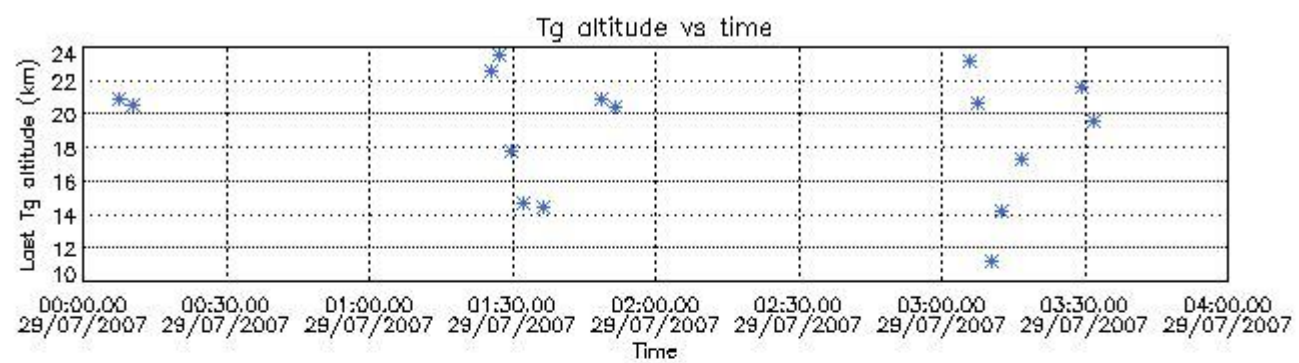
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.965	20.287	NaN
St. deviation:	3.6530	6.5216	NaN
Maximum:	23.542	28.003	NaN
Minimum:	11.175	3.8685	NaN
Number of data:	16.000	25.000	NaN

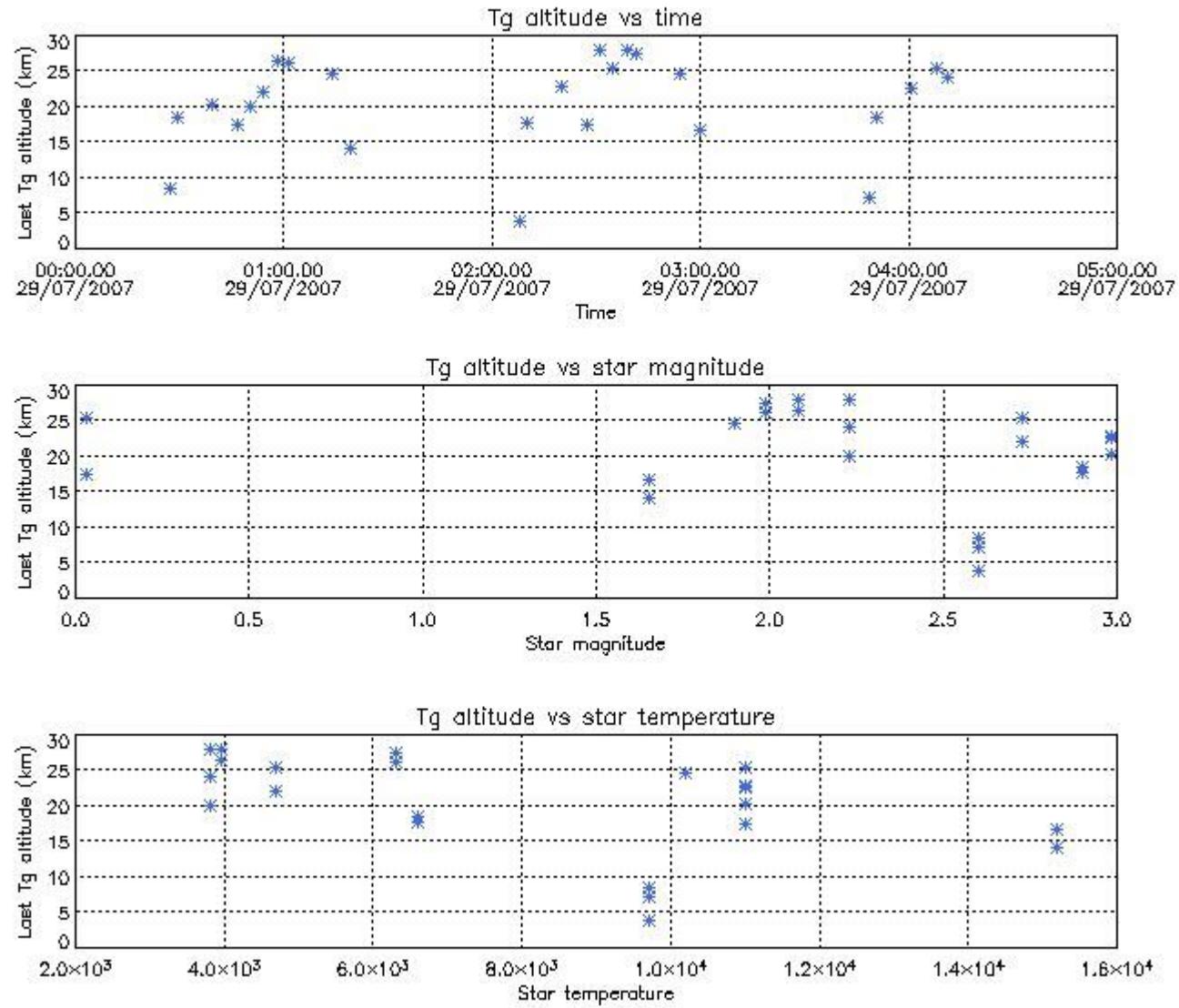
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

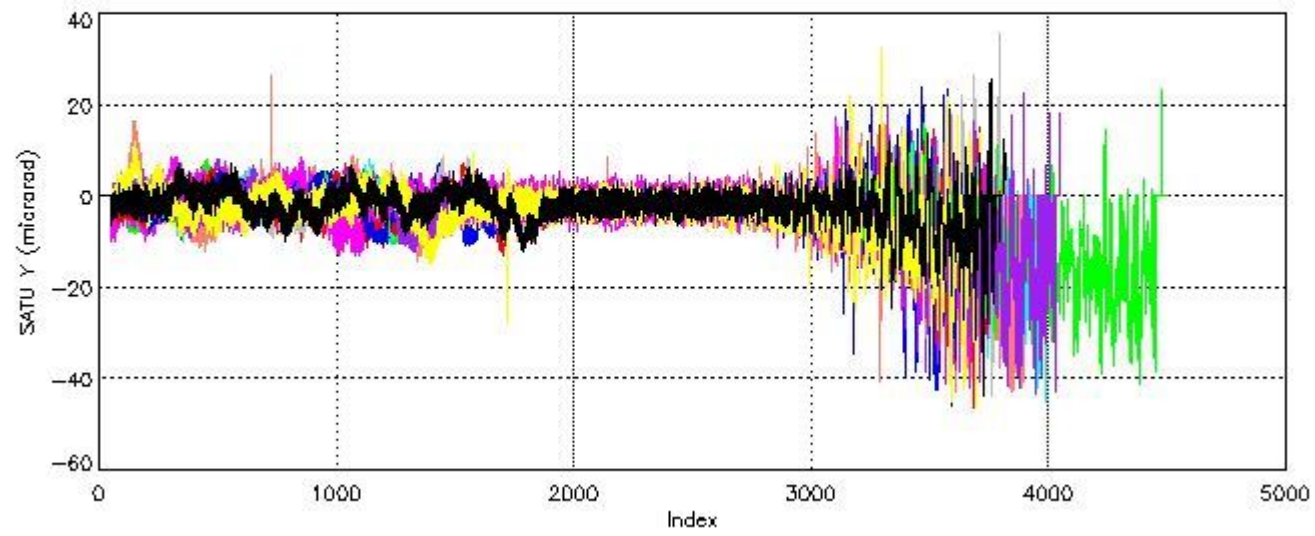
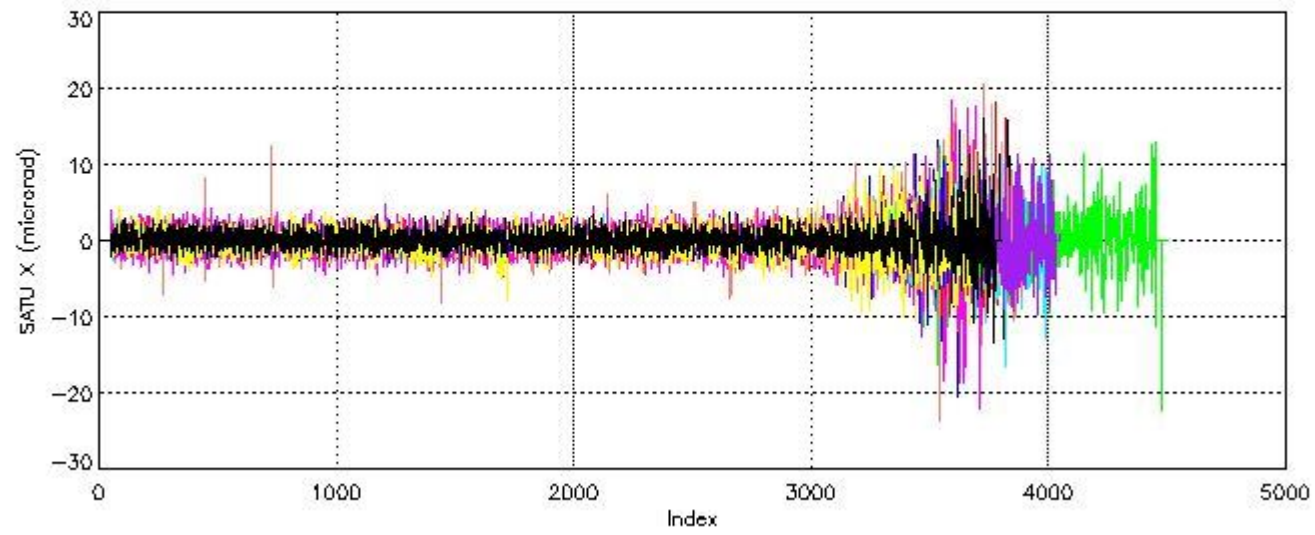


7. Star Acquisition and Tracking Unit (SATU)

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:	0.0071695	-1.3076	0.066145	-0.95395
St. deviation:	0.76994	2.7914	0.74169	2.8970
Maximum:	12.300	26.300	5.4000	9.8000
Minimum:	-7.0000	-12.400	-7.3000	-14.300

Number of data:	14150.	14150.	20450.	20450.
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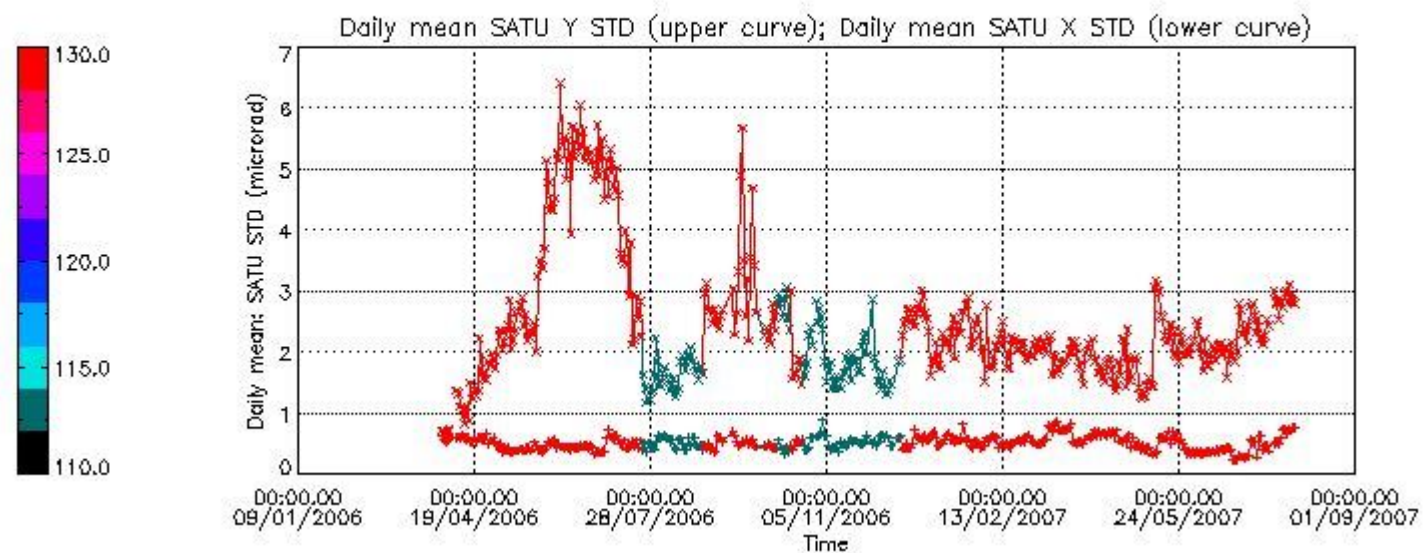
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

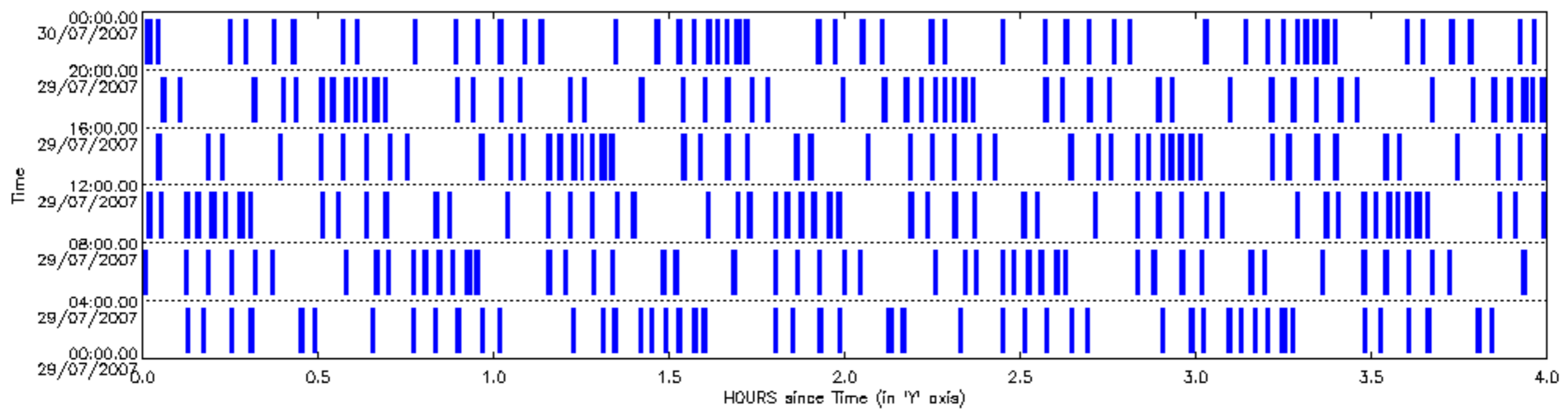
Lower curve: STD of SATU X axis

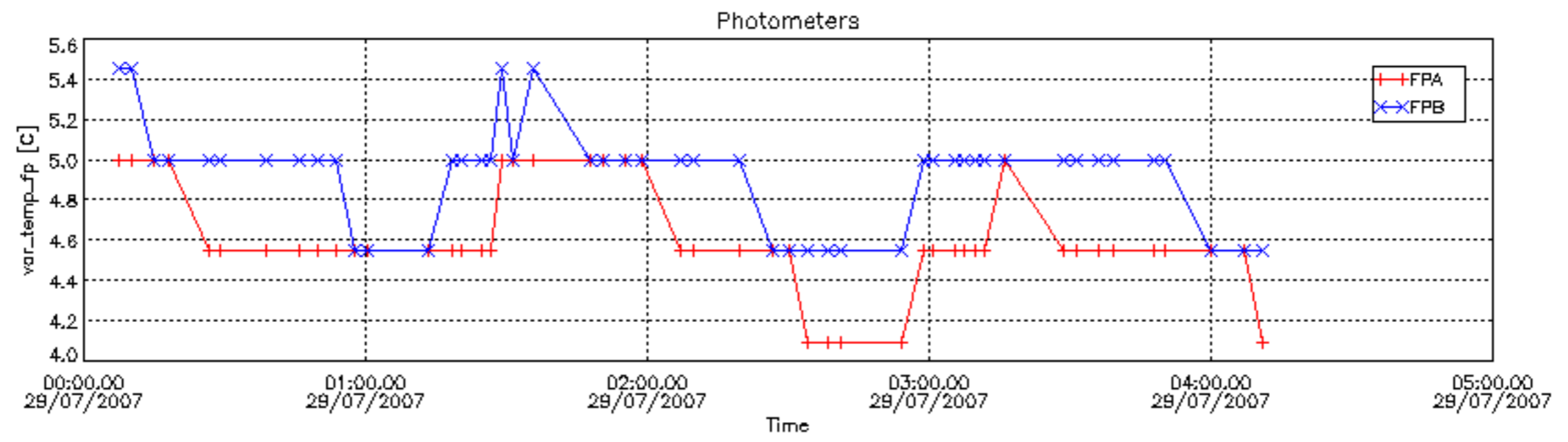
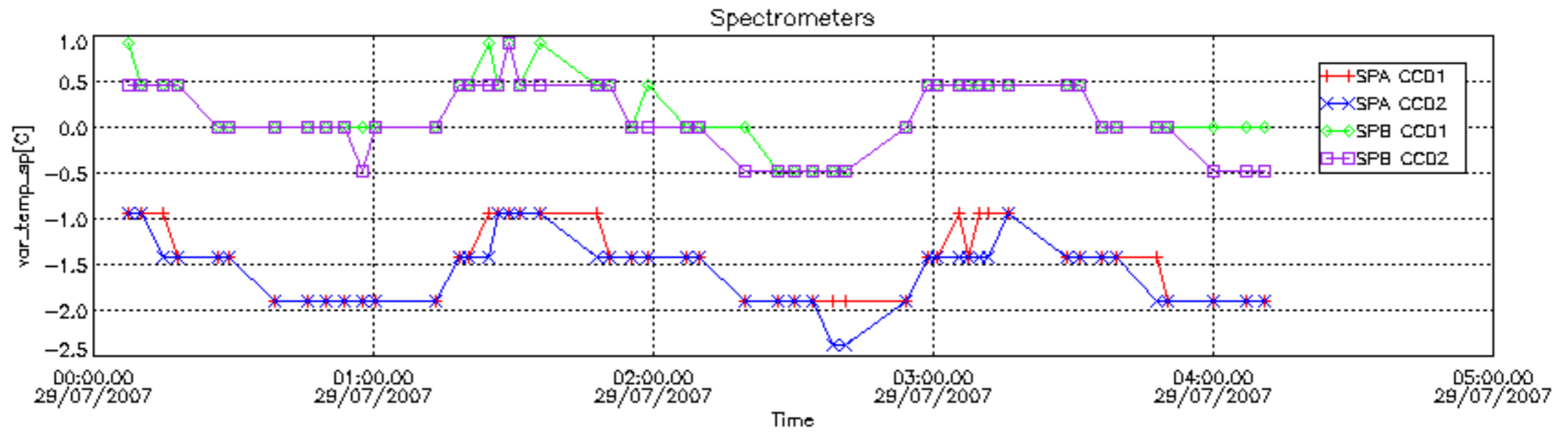


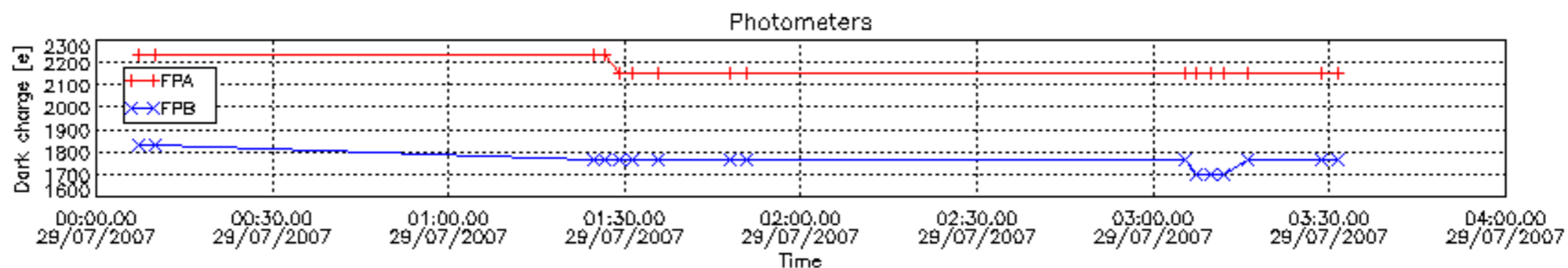
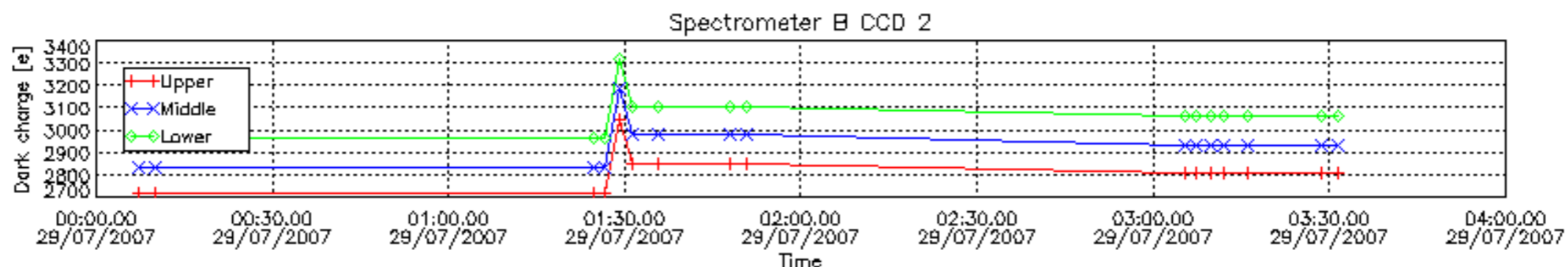
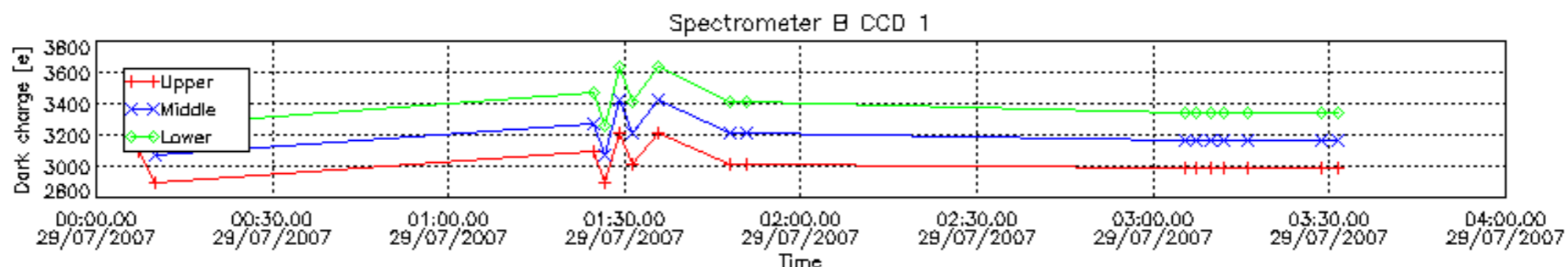
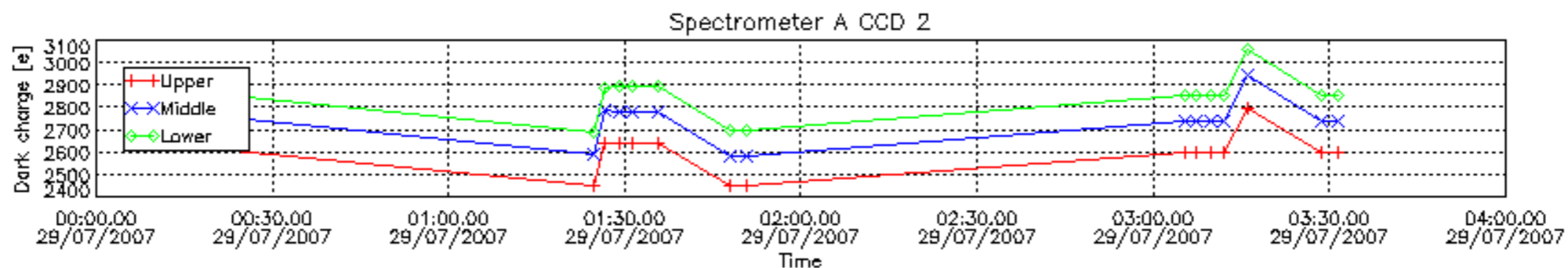
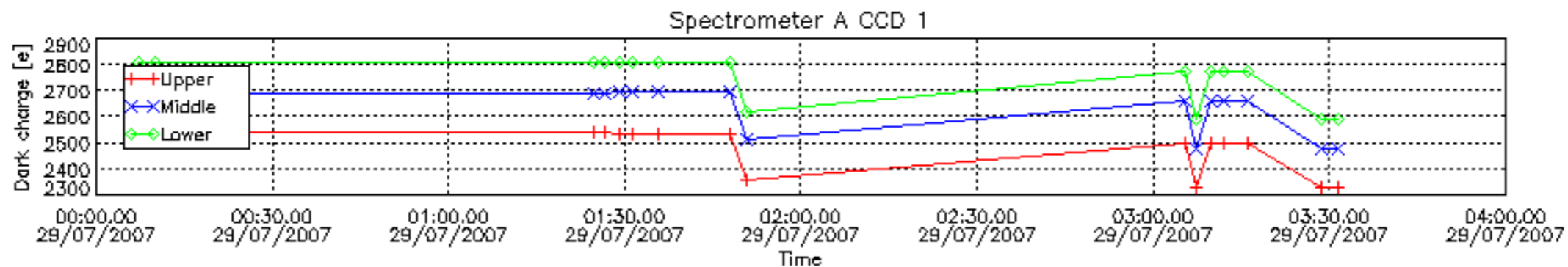
8. Auxiliary Data Files used for the production reported in section 2.4

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.

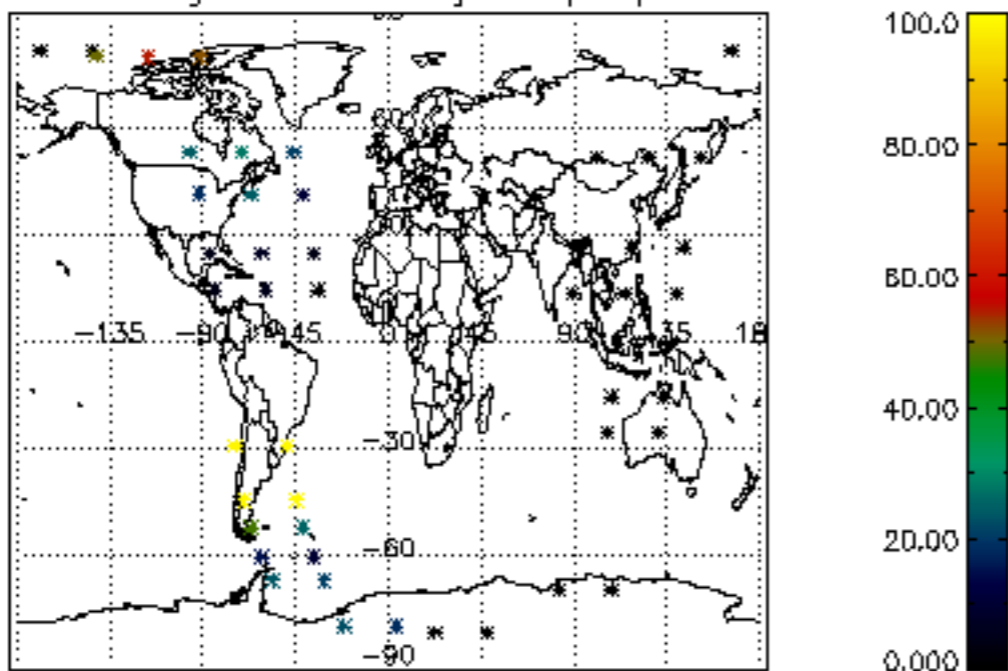
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-JUL-2007 00:07:15
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070726_133456_20070725_000000_20100101_000000	1	29-JUL-2007 00:07:15
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-JUL-2007 00:07:15
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-JUL-2007 00:07:15
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-JUL-2007 00:07:15
ECMWF_FILE	AUX_ECF_AXNECM20070728_212119_20070728_210000_20070729_090000	1	29-JUL-2007 00:07:15
OPTIONAL_ECMWF_FILE	MISSING	1	29-JUL-2007 00:07:15
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20070728_235118_20070728_190125_20070807_202739	1	29-JUL-2007 00:07:15



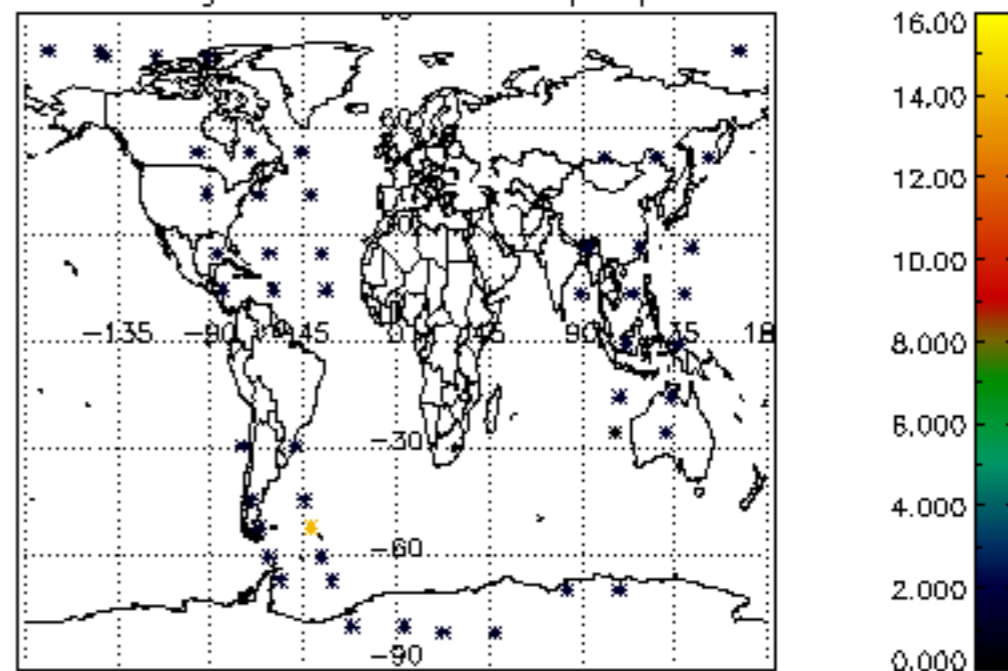




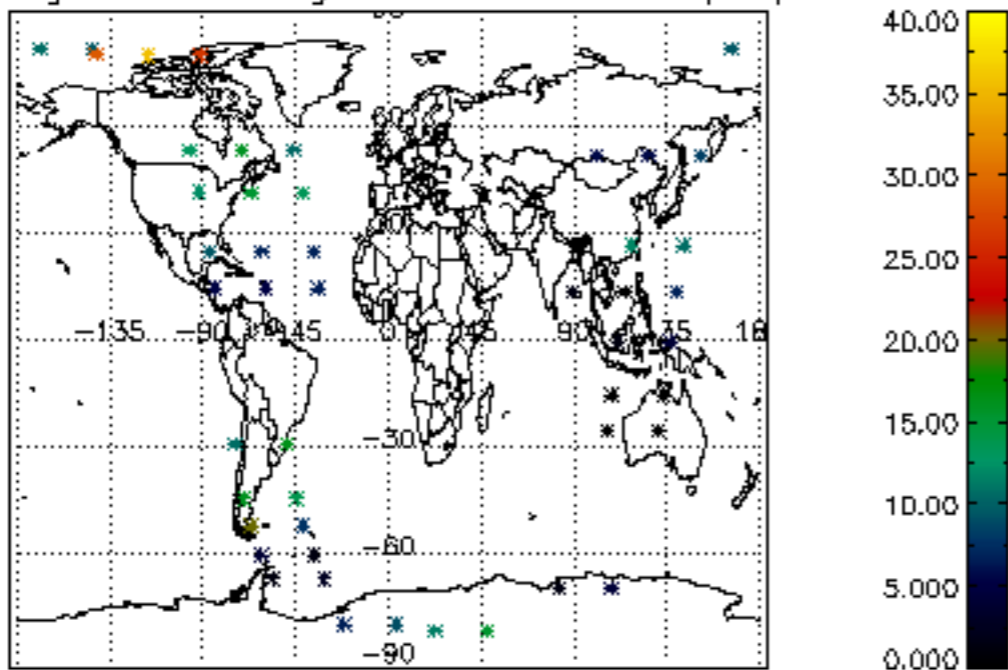
Percentage of cosmic ray hits per profile



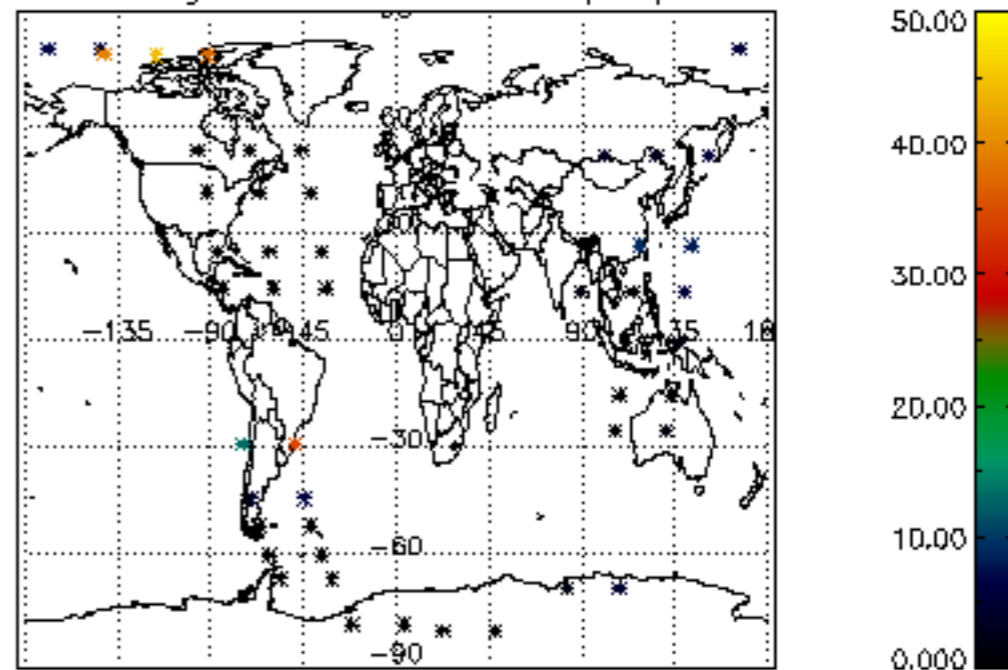
Percentage of datation errors per profile



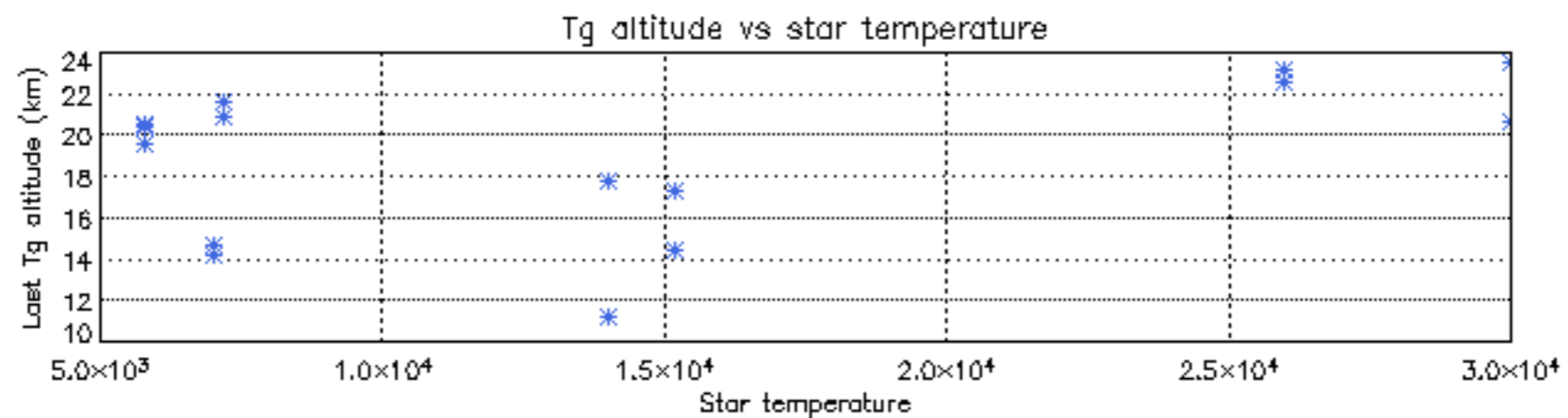
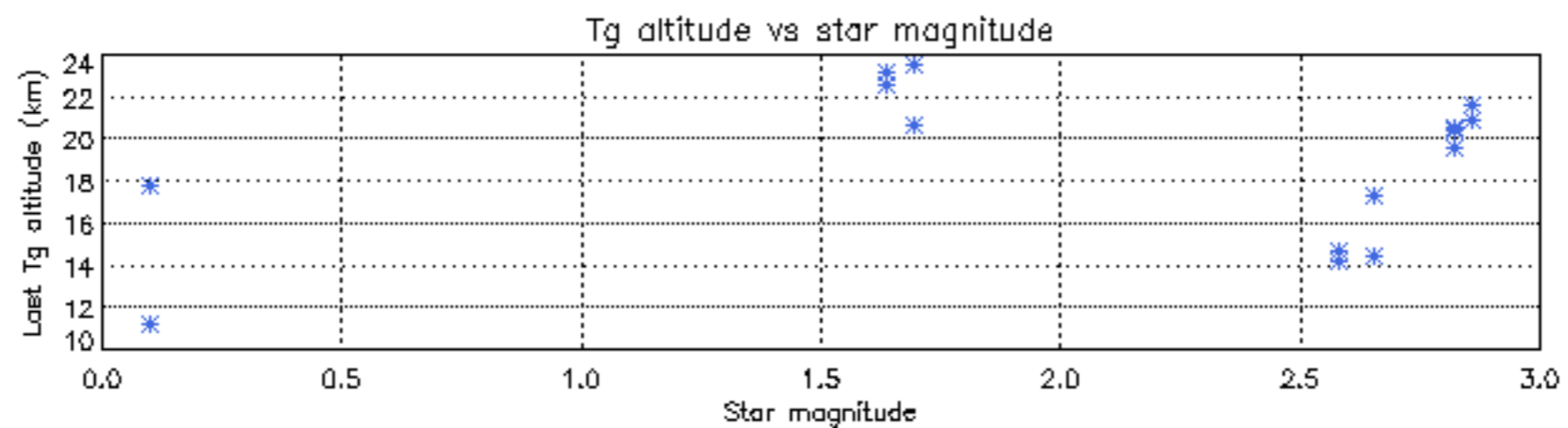
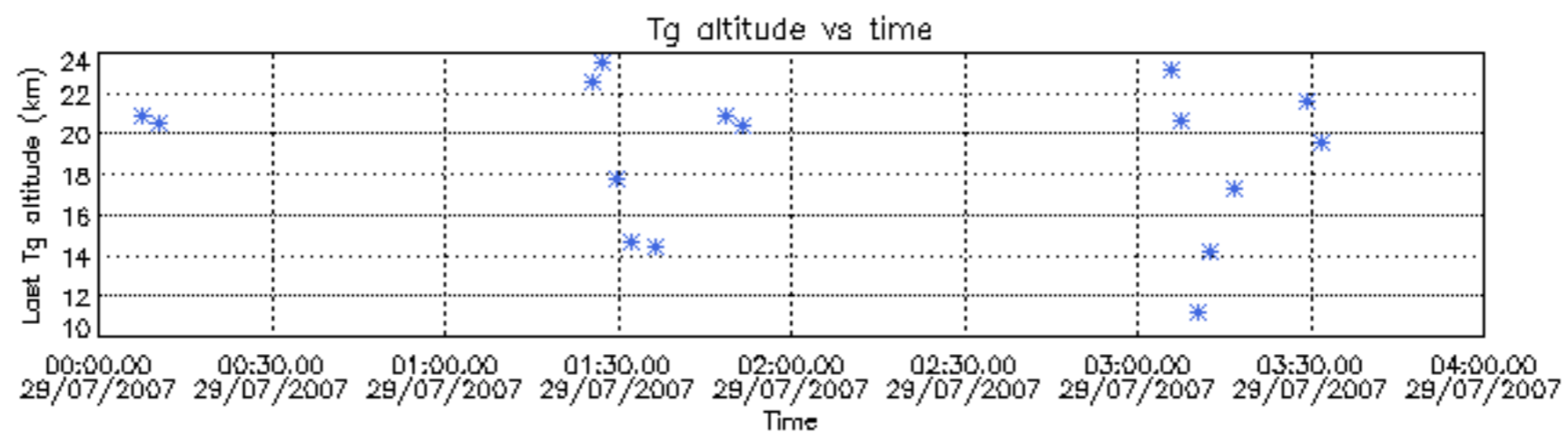
Percentage of star falling outside central band per profile



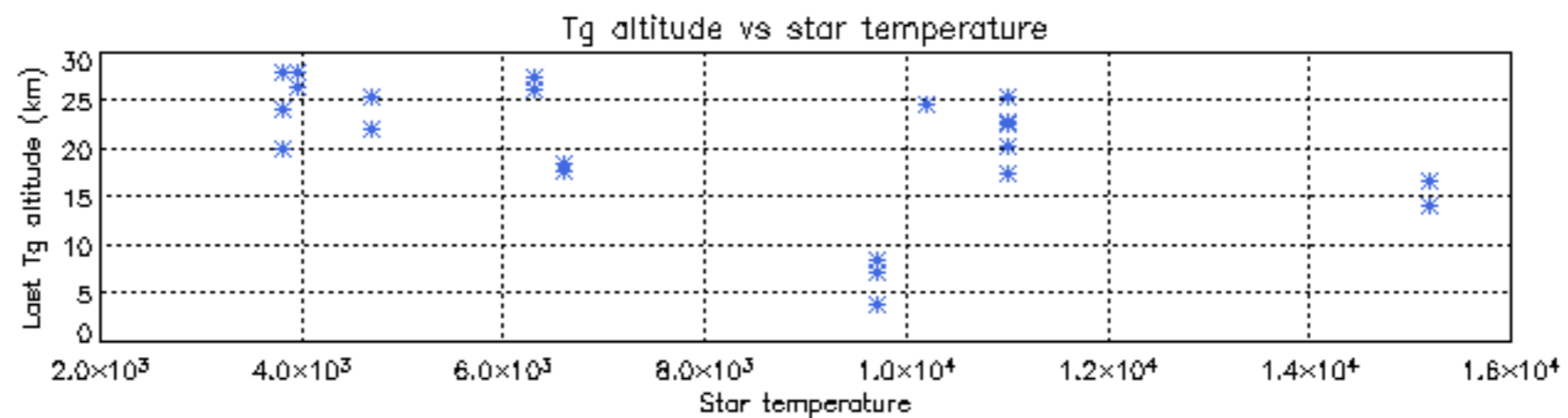
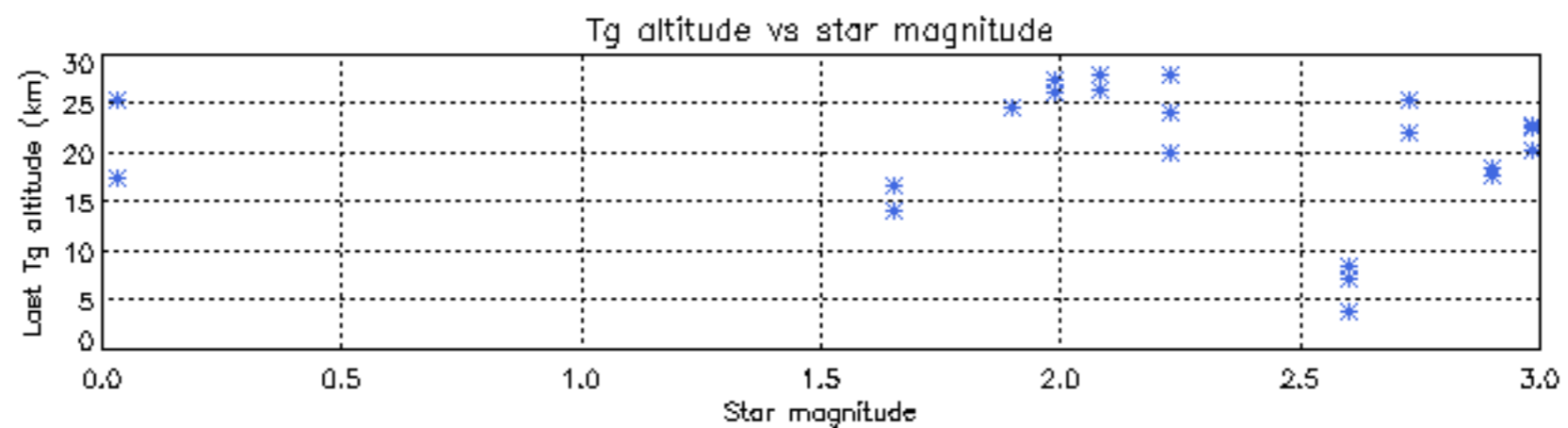
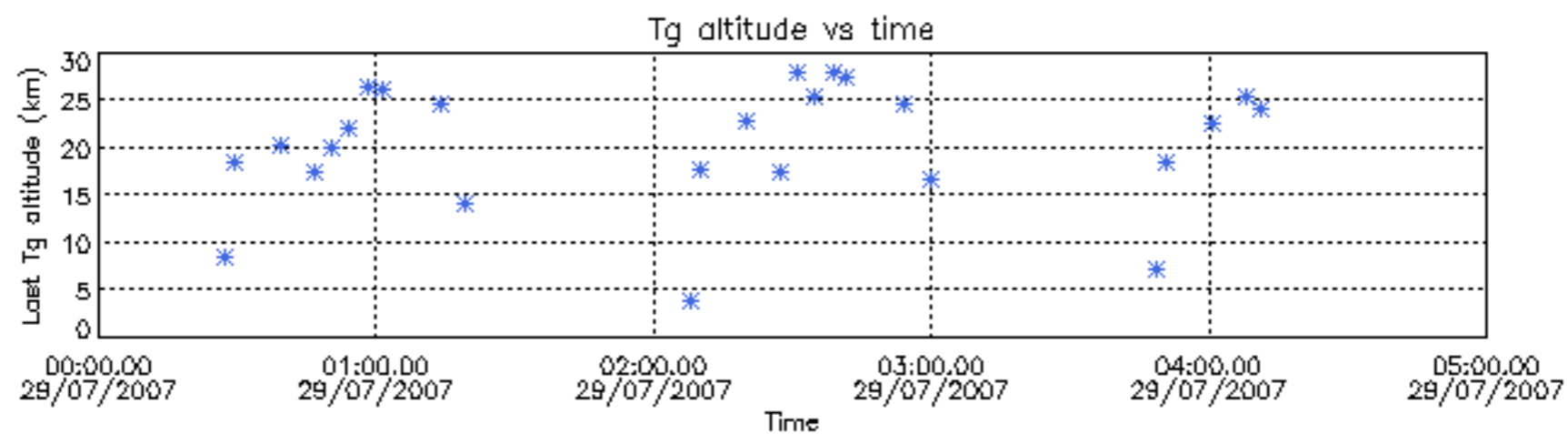
Percentage of saturation errors per profile

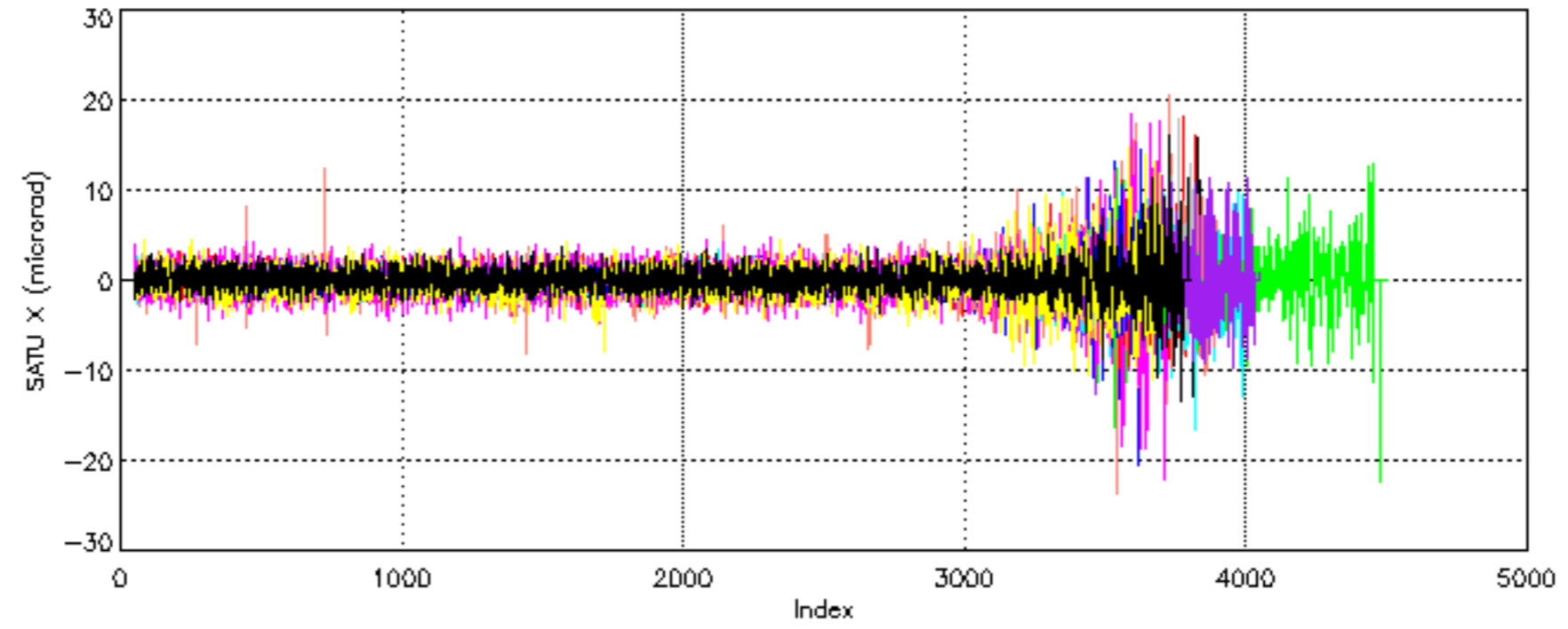


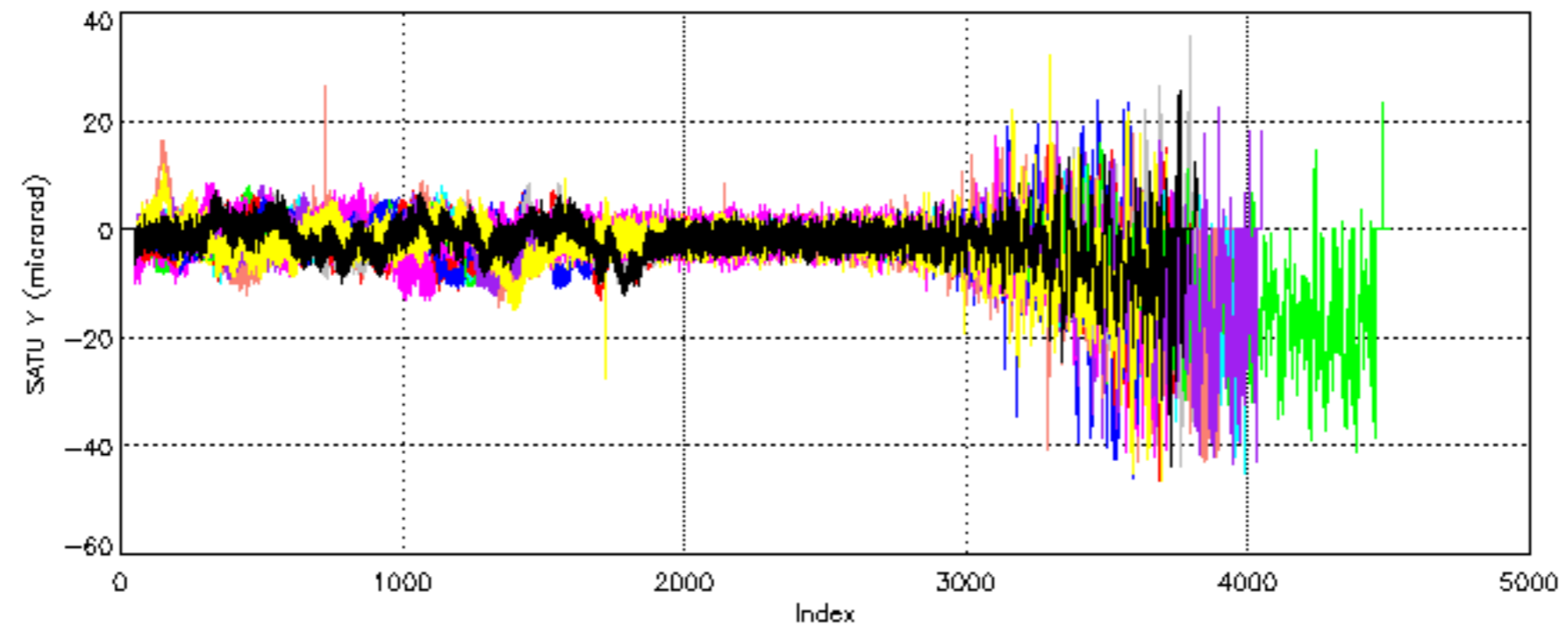
Tangent altitude at which the star is lost

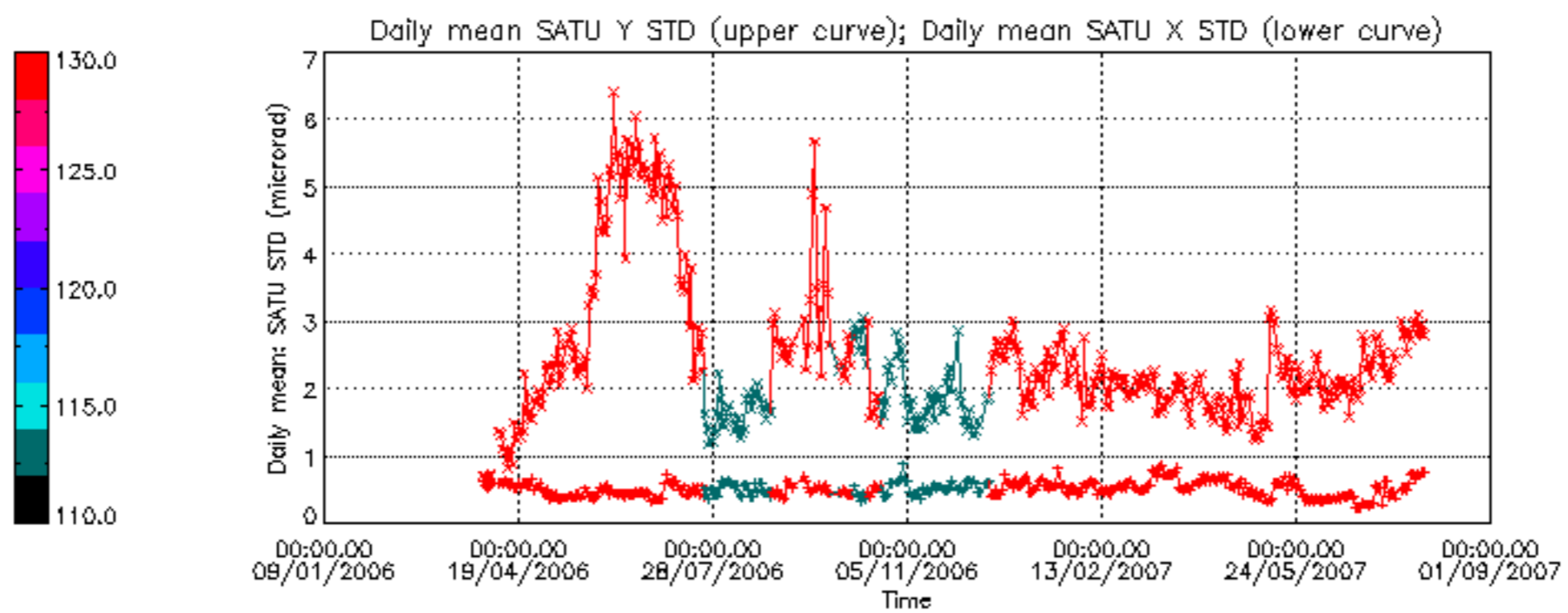


Tangent altitude at which the star is lost









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 3; 33.5; 01-JUL-2007 01:24:15; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;27884
 4; 480.3; 01-JUL-2007 01:31:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;27884
 5; 742.9; 01-JUL-2007 01:36:04; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27884
 6; 1062.1; 01-JUL-2007 01:41:23; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27884
 7; 1170.1; 01-JUL-2007 01:43:11; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;27884
 8; 1269.9; 01-JUL-2007 01:44:51; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;27884
 9; 1354.5; 01-JUL-2007 01:46:16; Dark ; 44.5; 116; 19Del Sgr ; 2.70; 4100;occ; 89; 0;27884
 10; 1642.0; 01-JUL-2007 01:51:03; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;27884
 11; 1982.2; 01-JUL-2007 01:56:43; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;27884
 12; 2122.3; 01-JUL-2007 01:59:04; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;27884
 13; 2283.2; 01-JUL-2007 02:01:44; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;27884
 14; 2447.8; 01-JUL-2007 02:04:29; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;27884
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 16; 2952.4; 01-JUL-2007 02:12:54; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27884
 17; 3190.9; 01-JUL-2007 02:16:52; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27884
 18; 3445.4; 01-JUL-2007 02:21:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27884

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 6; 481.1; 01-JUL-2007 03:12:18; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27885
 7; 743.5; 01-JUL-2007 03:16:41; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27885
 8; 1062.3; 01-JUL-2007 03:21:59; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27885
 9; 1170.4; 01-JUL-2007 03:23:47; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;27885
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 16; 2448.0; 01-JUL-2007 03:45:05; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;27885
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 7; 743.9; 01-JUL-2007 04:57:17; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27886
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 9; 1170.6; 01-JUL-2007 05:04:24; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27886
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 11; 1355.1; 01-JUL-2007 05:07:28; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;27886
 12; 1642.5; 01-JUL-2007 05:12:16; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27886
 13; 1982.2; 01-JUL-2007 05:17:55; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27886
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 17; 2809.8; 01-JUL-2007 05:31:43; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;27886
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 19; 3191.3; 01-JUL-2007 05:38:04; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27886
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 6; 482.3; 01-JUL-2007 06:33:31; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;27887

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9; 1170.8; 01-JUL-2007 06:45:00; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27887
10; 1270.7; 01-JUL-2007 06:46:40; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;27887
11; 1355.3; 01-JUL-2007 06:48:04; Dark ; 48.5; 116; 19Del Sgr ; 2.70; 4100;occ; 97; 0;27887
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13; 1982.3; 01-JUL-2007 06:58:31; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27887
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15; 2283.7; 01-JUL-2007 07:03:33; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;27887
16; 2448.2; 01-JUL-2007 07:06:17; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;27887
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19; 3191.4; 01-JUL-2007 07:18:40; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27887
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5; 1643.8; 01-JUL-2007 20:17:40; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27895
6; 1982.2; 01-JUL-2007 20:23:19; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27895
7; 2121.8; 01-JUL-2007 20:25:38; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;27895
8; 2284.8; 01-JUL-2007 20:28:21; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;27895
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4; 487.6; 01-JUL-2007 21:39:00; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;27896
5; 748.9; 01-JUL-2007 21:43:21; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27896
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8; 1272.5; 01-JUL-2007 21:52:05; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;27896
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16; 2952.8; 01-JUL-2007 22:20:05; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;27896
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4; 749.3; 01-JUL-2007 23:23:58; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27897
5; 1064.5; 01-JUL-2007 23:29:13; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;27897
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13;	4305.2;	06-JUL-2007	20:04:33;	Bright;	;	34.5;	149;	45Eps Per	;	2.89;	30000;occ;	69;	0;	27966
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8;	532.0;	07-JUL-2007	03:24:39;	Dark	;	43.5;	148;	Alp Tuc	;	2.88;	4100;occ;	87;	0;	27971
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