

GOMOS Daily Report 23-DEC-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	25DEC2007 05:49:50
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (23DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (24DEC2007 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)

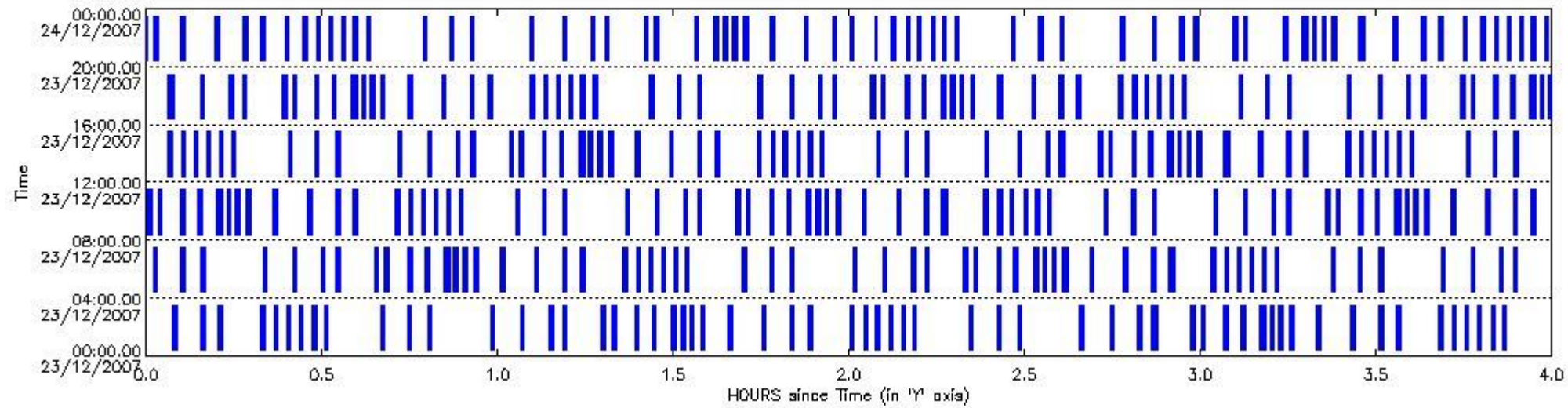
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

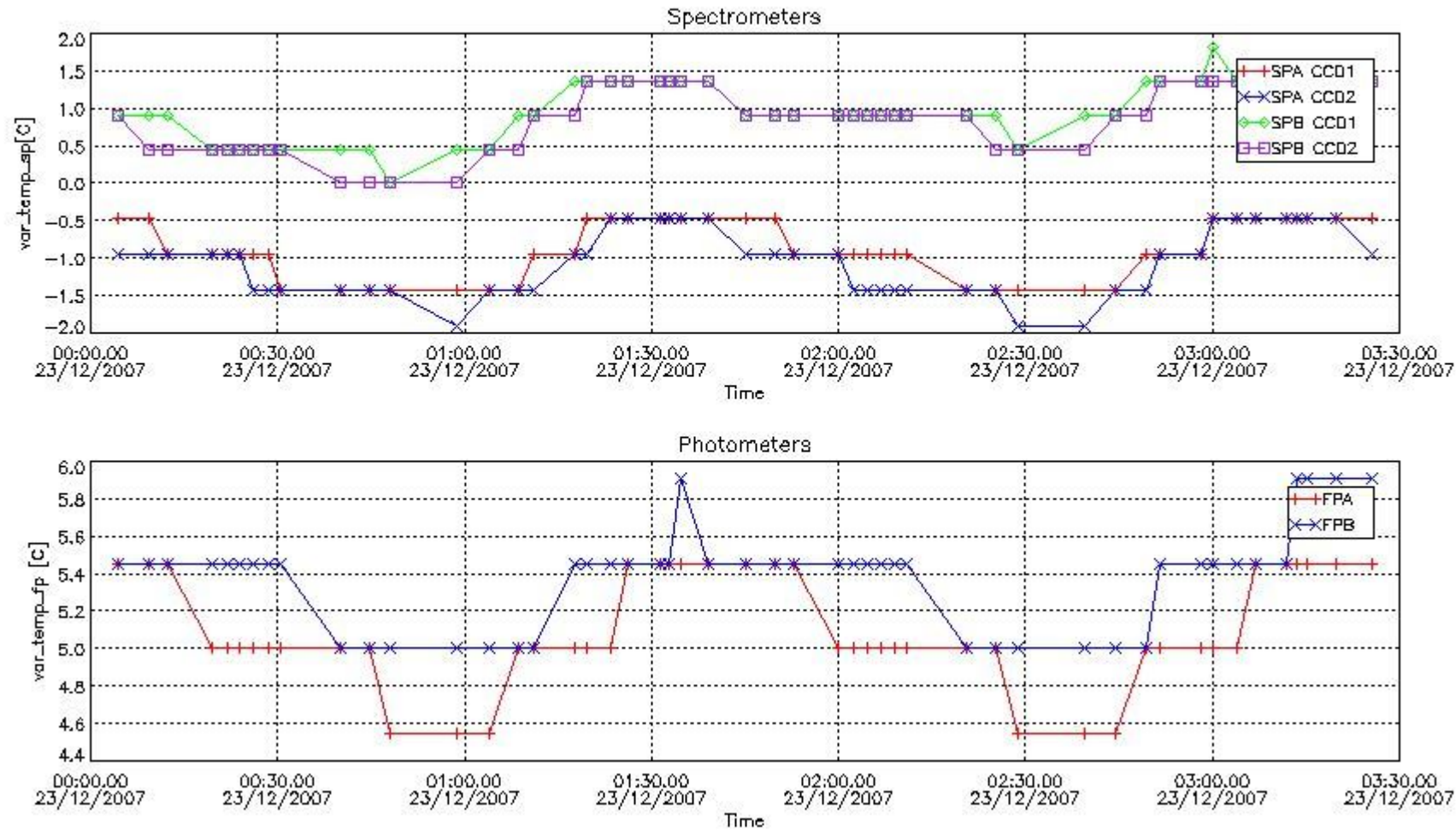
No missing products.

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_1PNPDE20071223_000429_000000412064_00274_30388_7919.N1	23-DEC-2007 00:04:29	Straylight	40.500	108	Alp Col	2.6520	15200.	81	30388	No
2	GOM_TRA_1PNPDE20071223_000917_000000412064_00274_30388_7920.N1	23-DEC-2007 00:09:17	Straylight	41.000	101	11Alp Lep	2.5820	7000.0	82	30388	No
3	GOM_TRA_1PNPDE20071223_001214_000000472064_00274_30388_7921.N1	23-DEC-2007 00:12:14	Straylight	47.000	7	19Bet Ori	0.10000	14000.	94	30388	No
4	GOM_TRA_1PNPDE20071223_001927_000000462064_00274_30388_7922.N1	23-DEC-2007 00:19:27	Twilight_stray	46.000	13	87Alp Tau	0.86700	3800.0	92	30388	No
5	GOM_TRA_1PNPDE20071223_002152_000000352064_00274_30388_7923.N1	23-DEC-2007 00:21:52	Bright	35.000	146	25Eta Tau	2.8730	15200.	70	30388	No
6	GOM_TRA_1PNPDE20071223_002356_000000352064_00274_30388_7924.N1	23-DEC-2007 00:23:56	Bright	35.000	150	44Zet Per	2.8900	28000.	70	30388	No
7	GOM_TRA_1PNPDE20071223_002610_000000342064_00274_30388_7925.N1	23-DEC-2007 00:26:10	Bright	34.000	149	45Eps Per	2.8880	30000.	68	30388	No
8	GOM_TRA_1PNPDE20071223_002825_000000342064_00274_30388_7926.N1	23-DEC-2007 00:28:25	Bright	33.500	175	39Del Per	3.0100	19400.	67	30388	No
9	GOM_TRA_1PNPDE20071223_003020_000000342064_00274_30388_7927.N1	23-DEC-2007 00:30:20	Bright	33.500	160	23Gam Per	2.9300	4700.0	67	30388	No
10	GOM_TRA_1PNPDE20071223_004001_000000332064_00274_30388_7928.N1	23-DEC-2007 00:40:01	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	30388	No
11	GOM_TRA_1PNPDE20071223_004440_000000362064_00274_30388_7929.N1	23-DEC-2007 00:44:40	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	30388	No
12	GOM_TRA_1PNPDE20071223_004810_000000362064_00274_30388_7930.N1	23-DEC-2007 00:48:10	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	30388	No

13	GOM_TRA_1PNPDE20071223_005846_000000392064_00274_30388_7931.N1	23-DEC-2007 00:58:46	Bright	39.000	83		2.3780	11000.	78	30388	No
14	GOM_TRA_1PNPDE20071223_010354_000000332064_00274_30388_7932.N1	23-DEC-2007 01:03:54	Bright	33.000	102	24Alp Ser	2.6000	4250.0	66	30388	No
15	GOM_TRA_1PNPDE20071223_010842_000000522064_00274_30388_7933.N1	23-DEC-2007 01:08:42	Bright	52.000	104	27Bet Lib	2.6140	13100.	104	30388	No
16	GOM_TRA_1PNPDE20071223_011105_000000372064_00274_30388_8059.N1	23-DEC-2007 01:11:05	Bright	37.000	122	9Alp2Lib	2.7470	9700.0	74	30388	No
17	GOM_TRA_1PNPDE20071223_011740_000000492064_00274_30388_8060.N1	23-DEC-2007 01:17:40	Dark	48.500	54	5The Cen	2.0550	4500.0	97	30388	No
18	GOM_TRA_1PNPDE20071223_011930_000000382064_00274_30388_8061.N1	23-DEC-2007 01:19:30	Dark	38.000	78	Alp Lup	2.3040	28000.	76	30388	No
19	GOM_TRA_1PNPDE20071223_012325_000000432064_00274_30388_8062.N1	23-DEC-2007 01:23:25	Dark	42.500	10	Bet Cen	0.61000	28000.	85	30388	No
20	GOM_TRA_1PNPDE20071223_012618_000000432064_00275_30389_8063.N1	23-DEC-2007 01:26:18	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	30389	No
21	GOM_TRA_1PNPDE20071223_013117_000000382064_00275_30389_8064.N1	23-DEC-2007 01:31:17	Dark	38.000	159	Ups Car	2.9200	7200.0	76	30389	No
22	GOM_TRA_1PNPDE20071223_013248_000000422064_00275_30389_8065.N1	23-DEC-2007 01:32:48	Dark	41.500	71	lot Car	2.2460	7700.0	83	30389	No
23	GOM_TRA_1PNPDE20071223_013436_000000412064_00275_30389_8066.N1	23-DEC-2007 01:34:36	Dark	40.500	41	Eps Car	1.8600	4100.0	81	30389	No
24	GOM_TRA_1PNPDE20071223_013913_000000462064_00275_30389_8067.N1	23-DEC-2007 01:39:13	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	30389	No
25	GOM_TRA_1PNPDE20071223_014505_000000402064_00275_30389_8068.N1	23-DEC-2007 01:45:05	Straylight	39.500	108	Alp Col	2.6520	15200.	79	30389	No
26	GOM_TRA_1PNPDE20071223_014953_000000432064_00275_30389_8069.N1	23-DEC-2007 01:49:53	Straylight	42.500	101	11Alp Lep	2.5820	7000.0	85	30389	No
27	GOM_TRA_1PNPDE20071223_015250_000000492064_00275_30389_8070.N1	23-DEC-2007 01:52:50	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	30389	No
28	GOM_TRA_1PNPDE20071223_020003_000000462064_00275_30389_8071.N1	23-DEC-2007 02:00:03	Twilight_and_stray	45.500	13	87Alp Tau	0.86700	3800.0	91	30389	No
29	GOM_TRA_1PNPDE20071223_020228_000000362064_00275_30389_8072.N1	23-DEC-2007 02:02:28	Bright	35.500	146	25Eta Tau	2.8730	15200.	71	30389	No
30	GOM_TRA_1PNPDE20071223_020432_000000362064_00275_30389_8073.N1	23-DEC-2007 02:04:32	Bright	36.000	150	44Zet Per	2.8900	28000.	72	30389	No
31	GOM_TRA_1PNPDE20071223_020646_000000332064_00275_30389_8074.N1	23-DEC-2007 02:06:46	Bright	33.000	149	45Eps Per	2.8880	30000.	66	30389	No
32	GOM_TRA_1PNPDE20071223_020900_000000342064_00275_30389_8075.N1	23-DEC-2007 02:09:00	Bright	34.000	175	39Del Per	3.0100	19400.	68	30389	No
33	GOM_TRA_1PNPDE20071223_021056_000000352064_00275_30389_8076.N1	23-DEC-2007 02:10:56	Bright	34.500	160	23Gam Per	2.9300	4700.0	69	30389	No
34	GOM_TRA_1PNPDE20071223_022037_000000352064_00275_30389_8077.N1	23-DEC-2007 02:20:37	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	30389	No
35	GOM_TRA_1PNPDE20071223_022516_000000372064_00275_30389_8243.N1	23-DEC-2007 02:25:16	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30389	No
36	GOM_TRA_1PNPDE20071223_022846_000000362064_00275_30389_8244.N1	23-DEC-2007 02:28:46	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	30389	No
37	GOM_TRA_1PNPDE20071223_023922_000000392064_00275_30389_8245.N1	23-DEC-2007 02:39:22	Bright	39.000	83		2.3780	11000.	78	30389	No
38	GOM_TRA_1PNPDE20071223_024430_000000332064_00275_30389_8246.N1	23-DEC-2007 02:44:30	Bright	33.000	102	24Alp Ser	2.6000	4250.0	66	30389	No
39	GOM_TRA_1PNPDE20071223_024918_000000362064_00275_30389_8247.N1	23-DEC-2007 02:49:18	Bright	35.500	104	27Bet Lib	2.6140	13100.	71	30389	No
40	GOM_TRA_1PNPDE20071223_025141_000000542064_00275_30389_8248.N1	23-DEC-2007 02:51:41	Bright	54.000	122	9Alp2Lib	2.7470	9700.0	108	30389	No
41	GOM_TRA_1PNPDE20071223_025816_000000472064_00275_30389_8249.N1	23-DEC-2007 02:58:16	Dark	46.500	54	5The Cen	2.0550	4500.0	93	30389	No
42	GOM_TRA_1PNPDE20071223_030006_000000412064_00275_30389_8250.N1	23-DEC-2007 03:00:06	Dark	40.500	78	Alp Lup	2.3040	28000.	81	30389	No
43	GOM_TRA_1PNPDE20071223_030402_000000482064_00275_30389_8251.N1	23-DEC-2007 03:04:02	Dark	47.500	10	Bet Cen	0.61000	28000.	95	30389	No
44	GOM_TRA_1PNPDE20071223_030654_000000422064_00276_30390_8252.N1	23-DEC-2007 03:06:54	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	30390	No
45	GOM_TRA_1PNPDE20071223_031154_000000392064_00276_30390_8253.N1	23-DEC-2007 03:11:54	Dark	39.000	159	Ups Car	2.9200	7200.0	78	30390	No
46	GOM_TRA_1PNPDE20071223_031325_000000402064_00276_30390_8254.N1	23-DEC-2007 03:13:25	Dark	40.000	71	lot Car	2.2460	7700.0	80	30390	No
47	GOM_TRA_1PNPDE20071223_031512_000000542064_00276_30390_8255.N1	23-DEC-2007 03:15:12	Dark	54.000	41	Eps Car	1.8600	4100.0	108	30390	No
48	GOM_TRA_1PNPDE20071223_031949_000000432064_00276_30390_8256.N1	23-DEC-2007 03:19:49	Dark	43.000	2	Alp Car	-0.73600	7000.0	86	30390	No
49	GOM_TRA_1PNPDE20071223_032541_000000402064_00276_30390_8257.N1	23-DEC-2007 03:25:41	Straylight	39.500	108	Alp Col	2.6520	15200.	79	30390	No

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



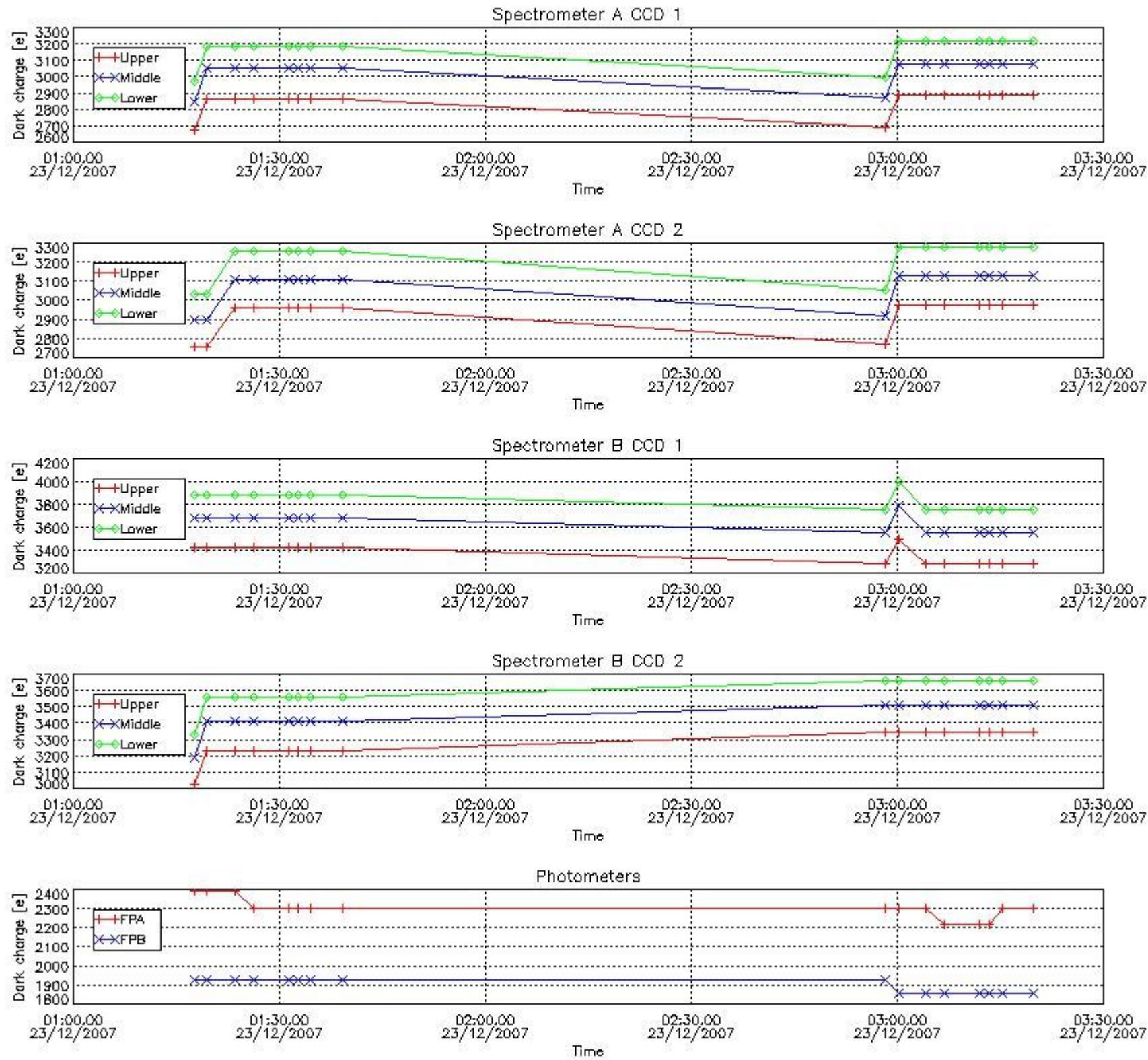
4. Overview of dark signal processing per product

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



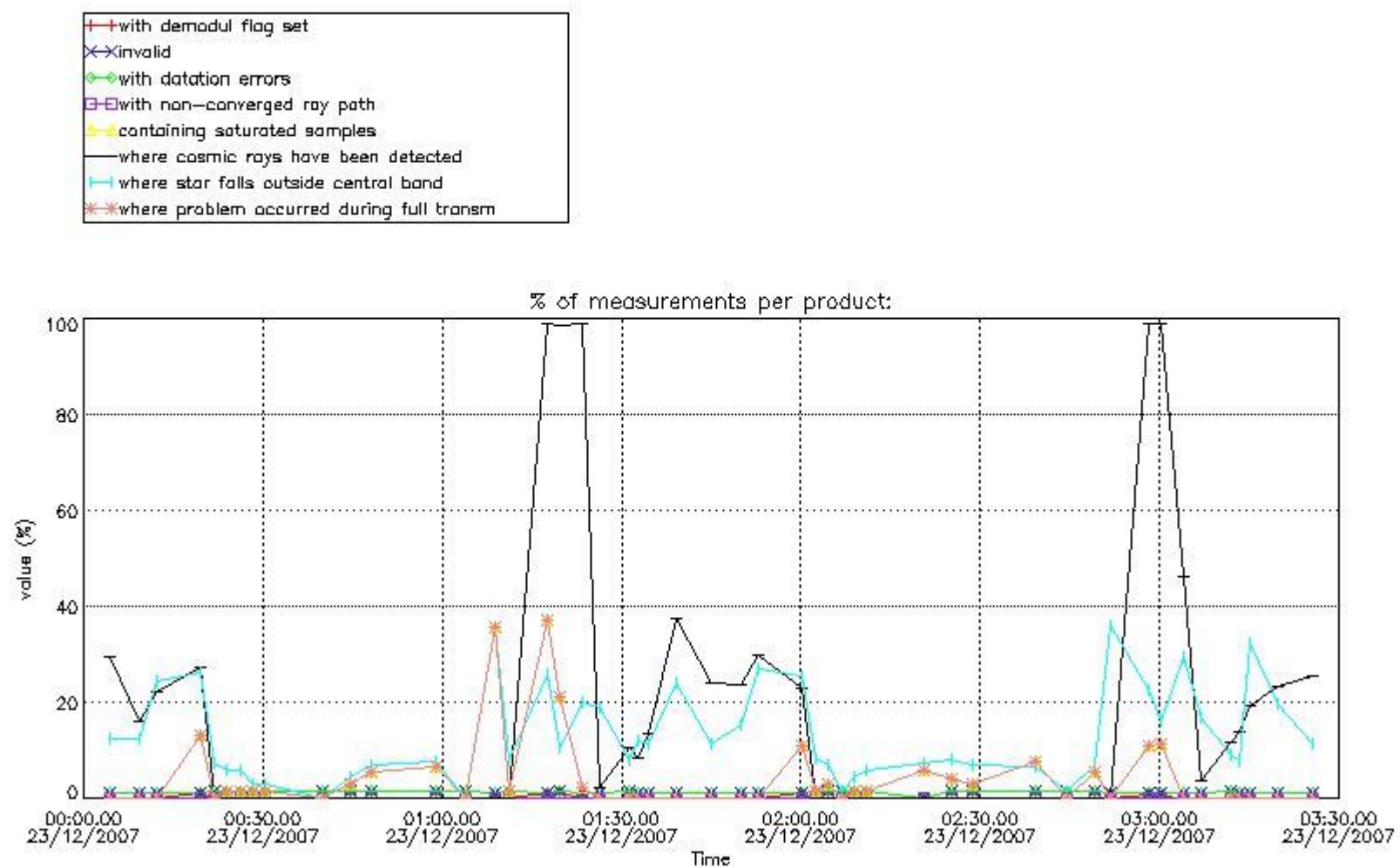
5. Demodulation flag and quality information monitoring

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.

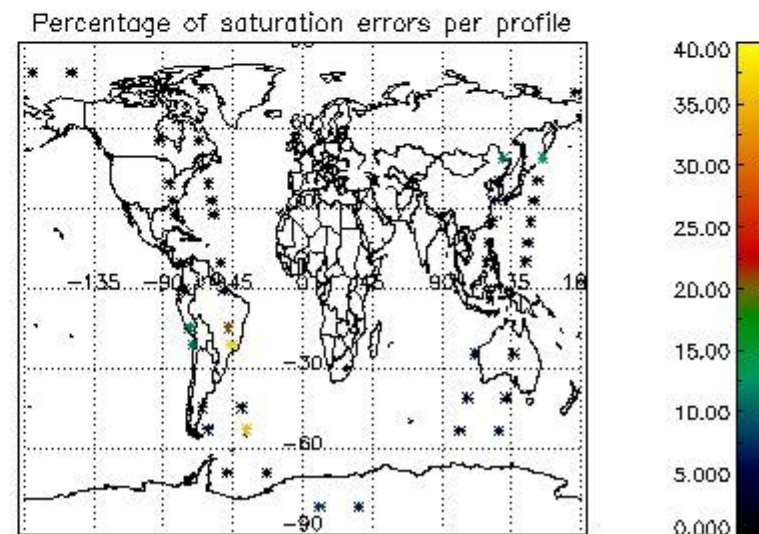
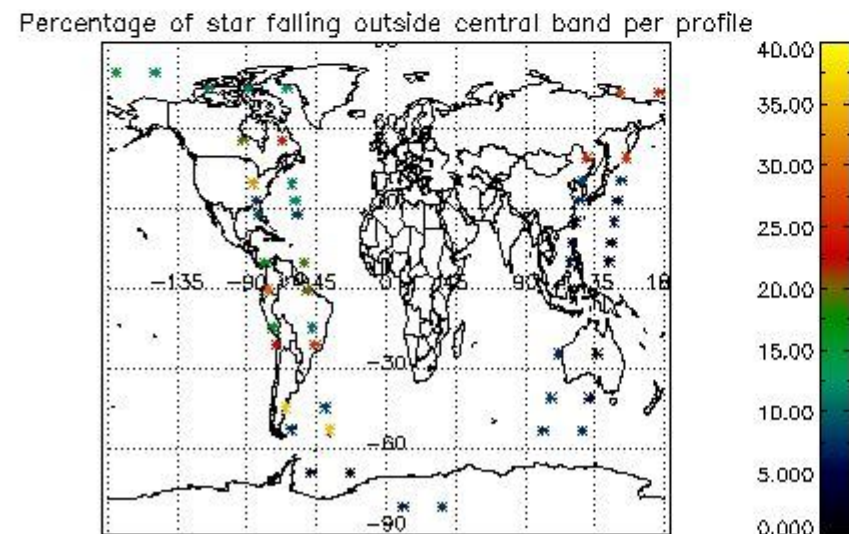
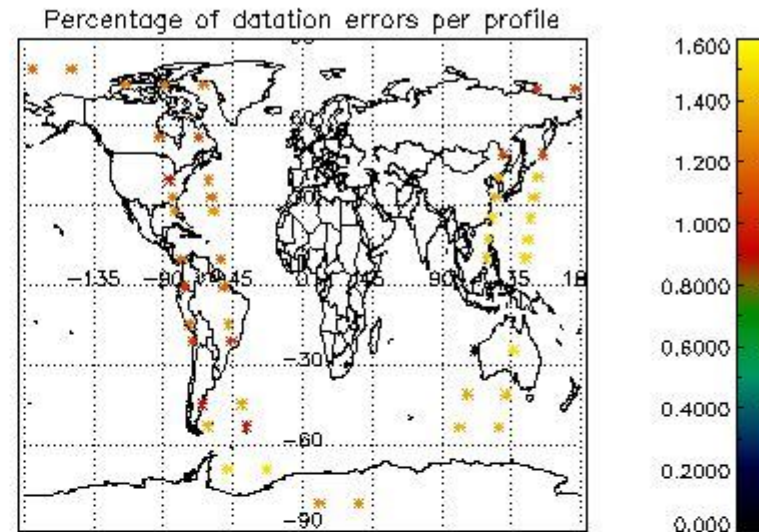
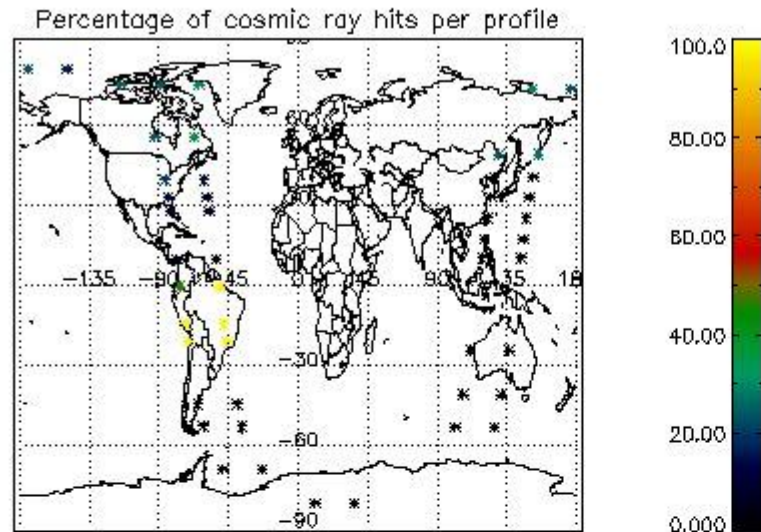
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.5714 %
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)



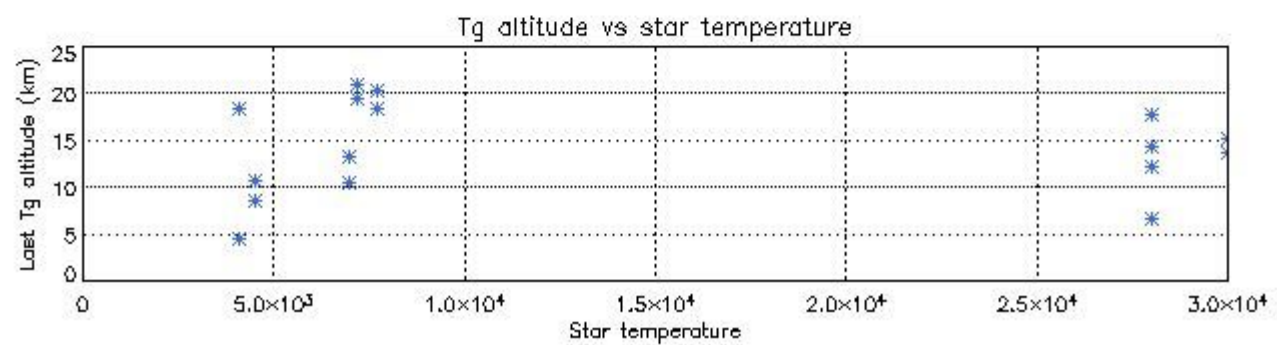
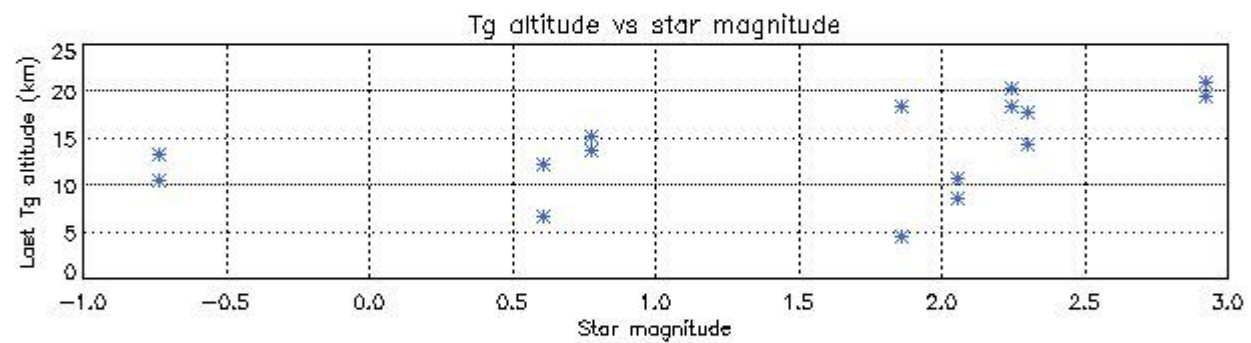
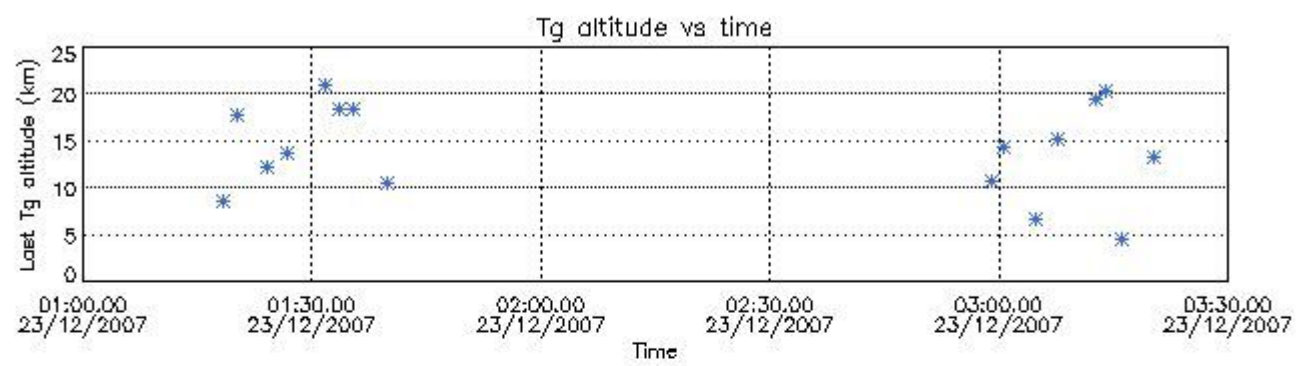
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.019	20.923	NaN
St. deviation:	4.9972	5.6973	NaN
Maximum:	20.978	26.964	NaN
Minimum:	4.4502	3.4930	NaN
Number of data:	16.000	24.000	NaN

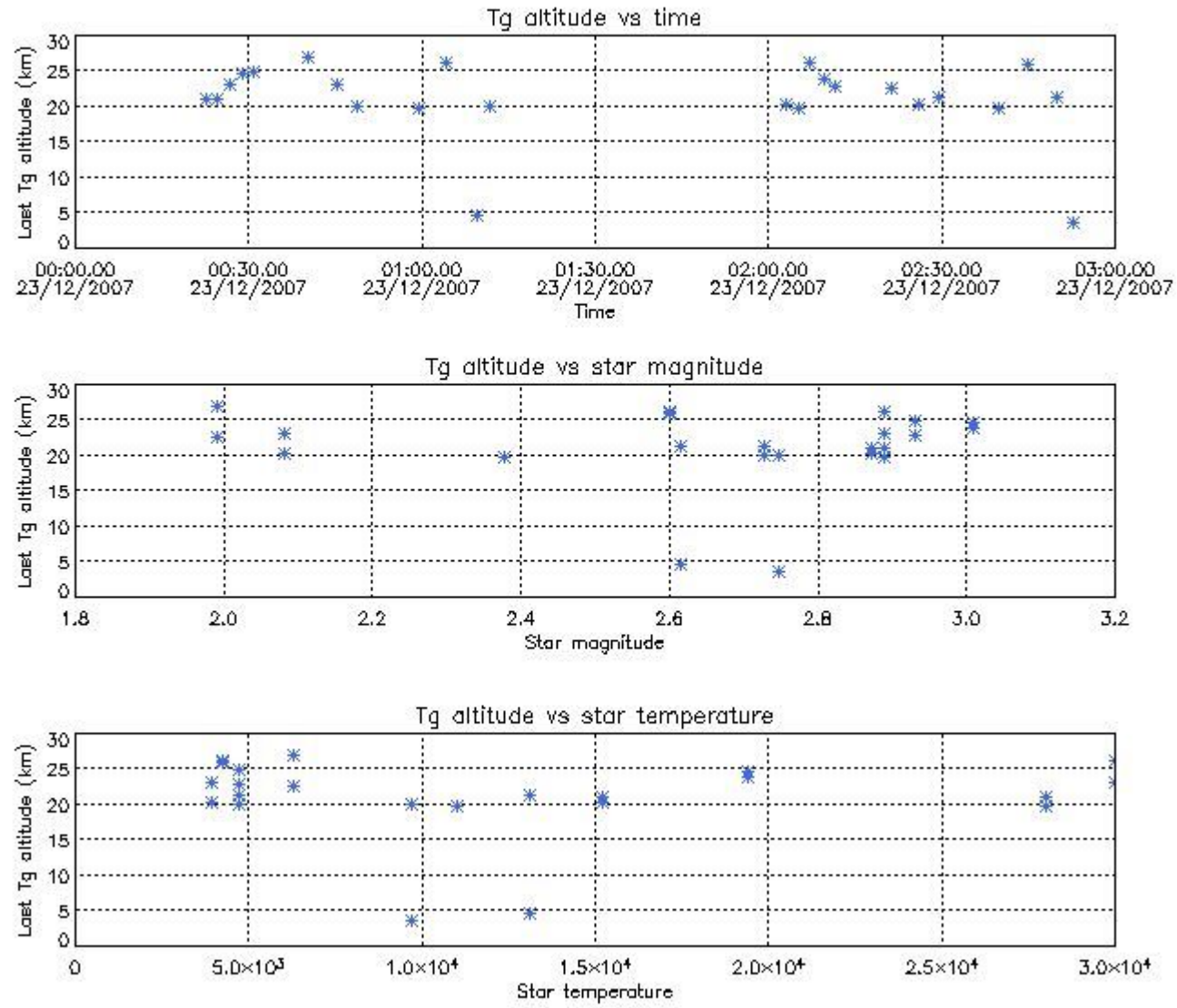
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

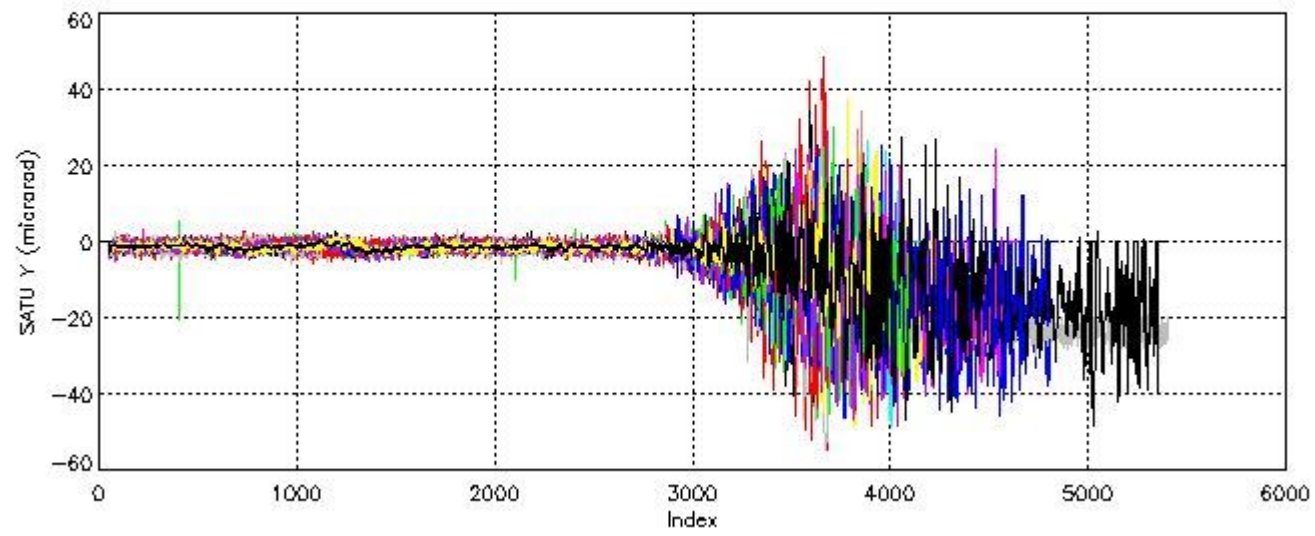
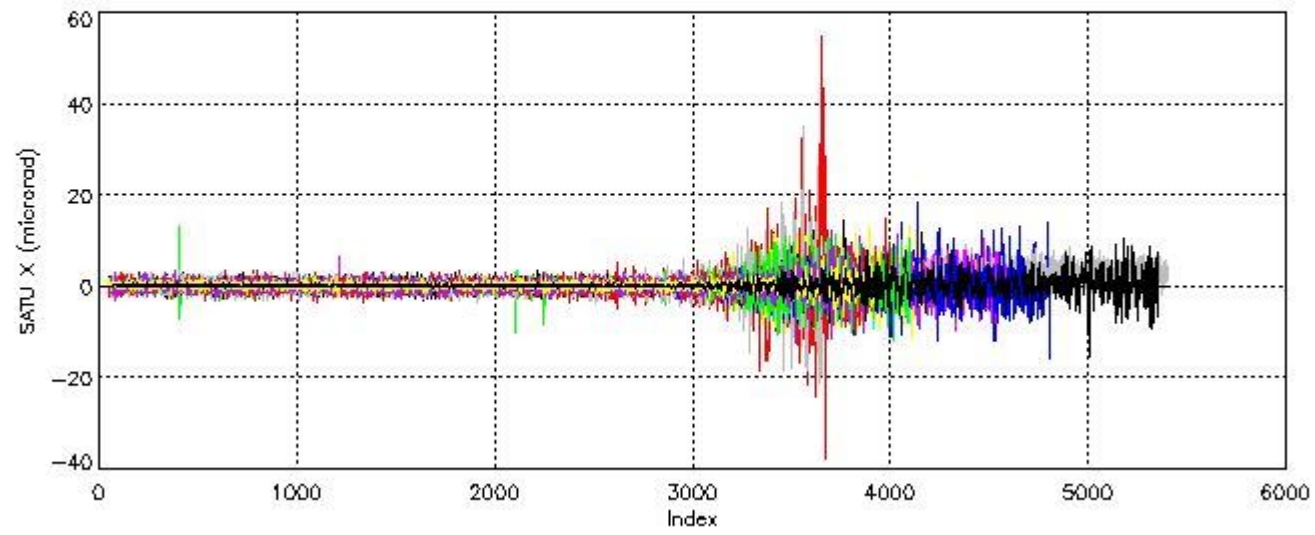


7. Star Acquisition and Tracking Unit (SATU)

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:	0.066990	-1.3553	0.0039335	-1.3479
St. deviation:	0.44237	0.76707	0.99432	1.2986
Maximum:	12.900	5.3000	6.0000	5.1000
Minimum:	-7.0000	-20.500	-5.9000	-8.6000

Number of data:	14450.	14450.	19700.	19700.
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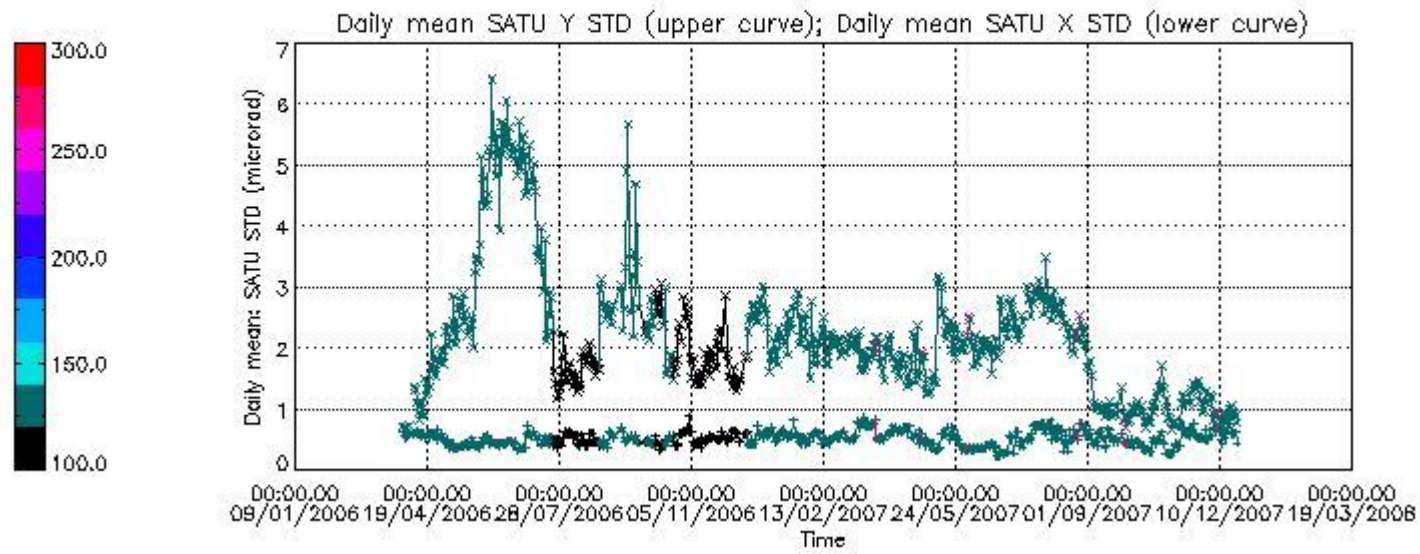
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

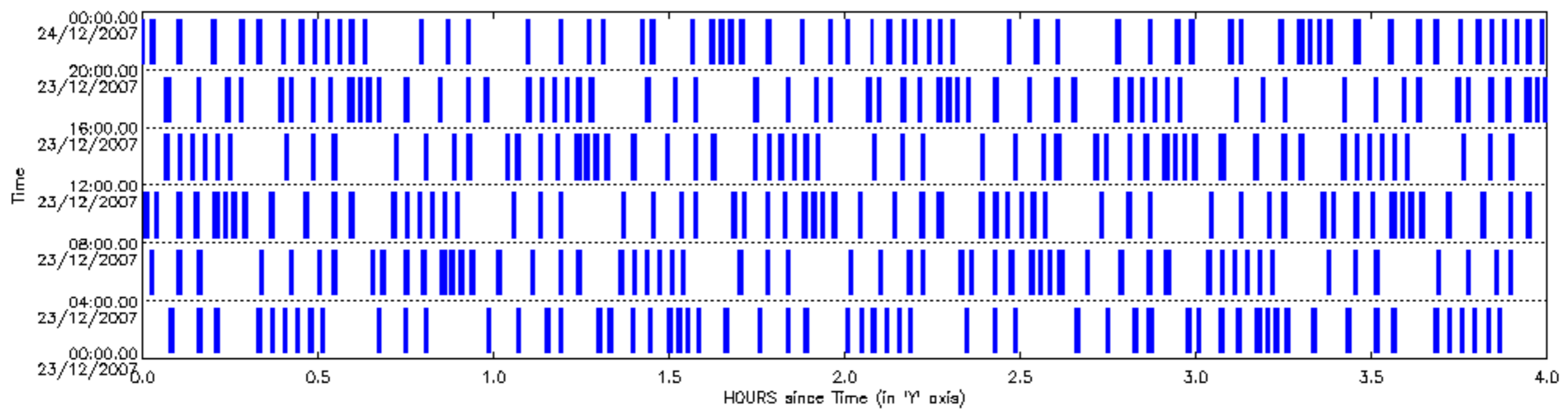
Lower curve: STD of SATU X axis

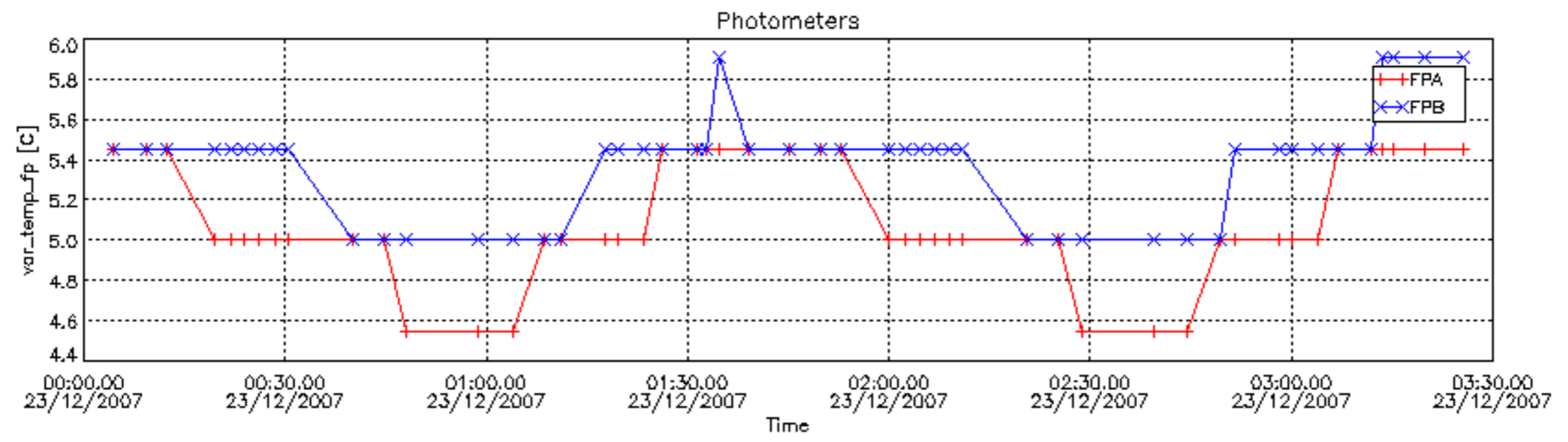
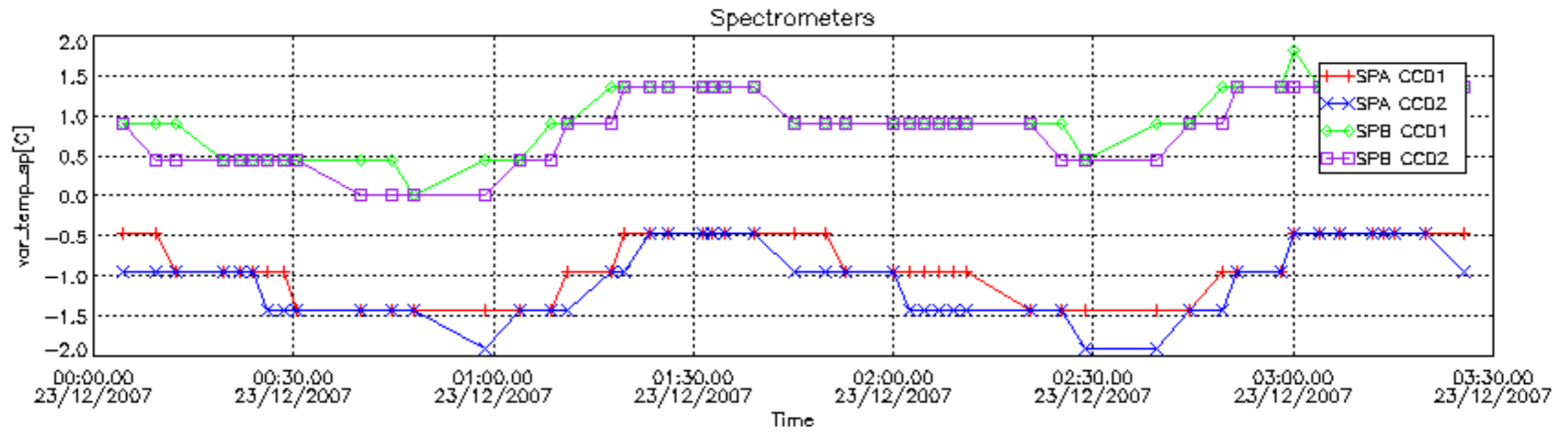


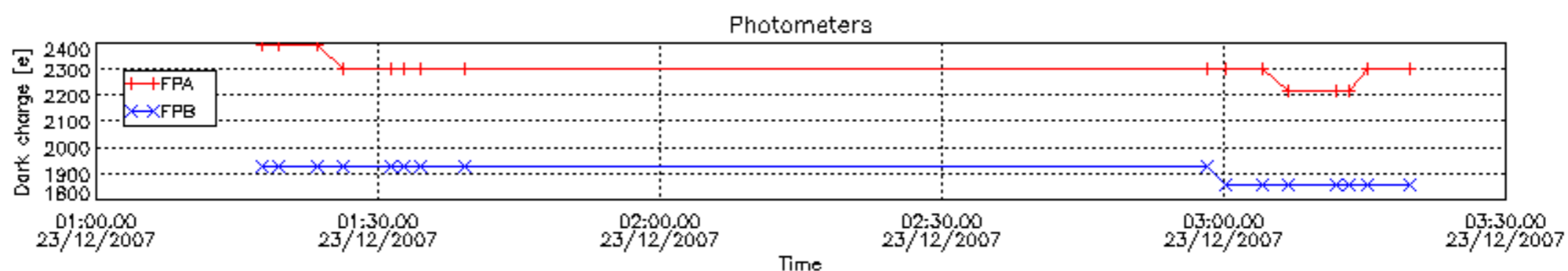
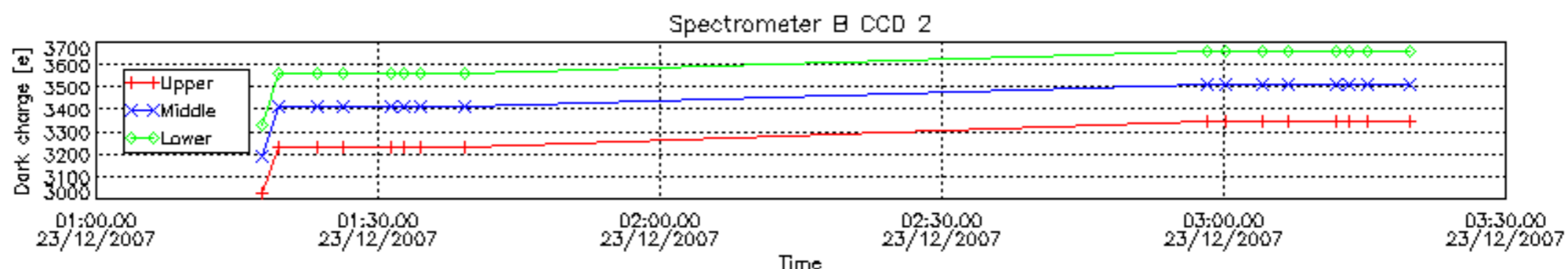
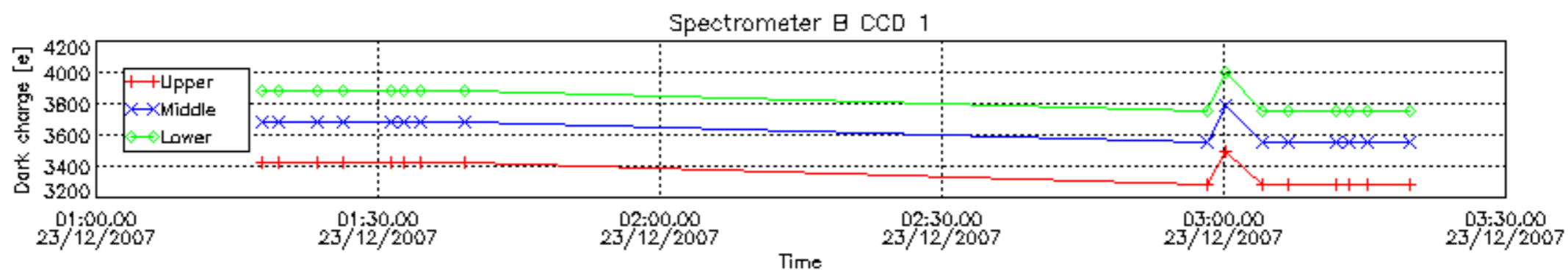
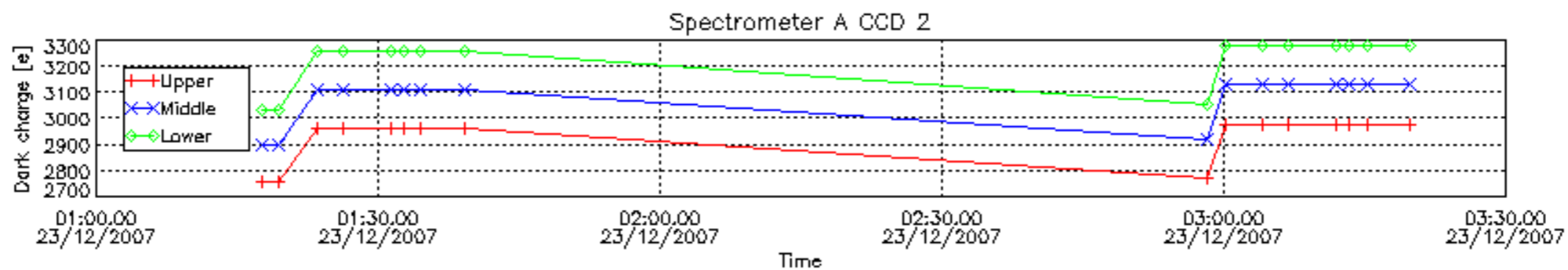
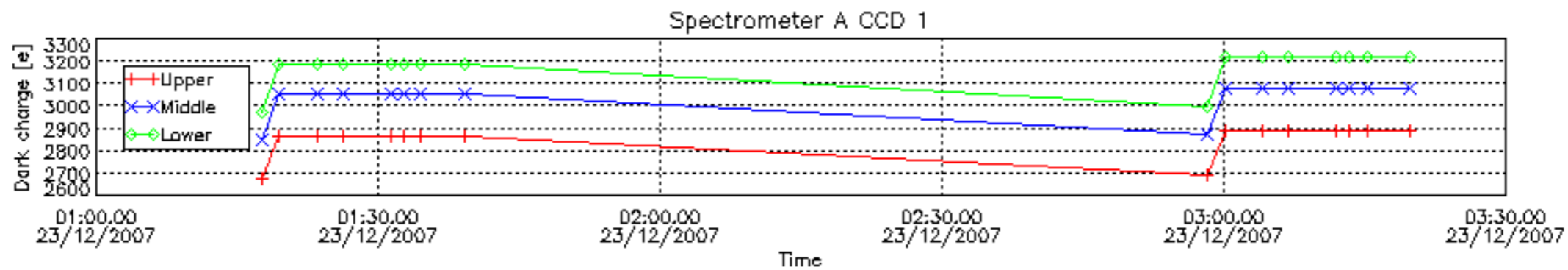
8. Auxiliary Data Files used for the production reported in section 2.4

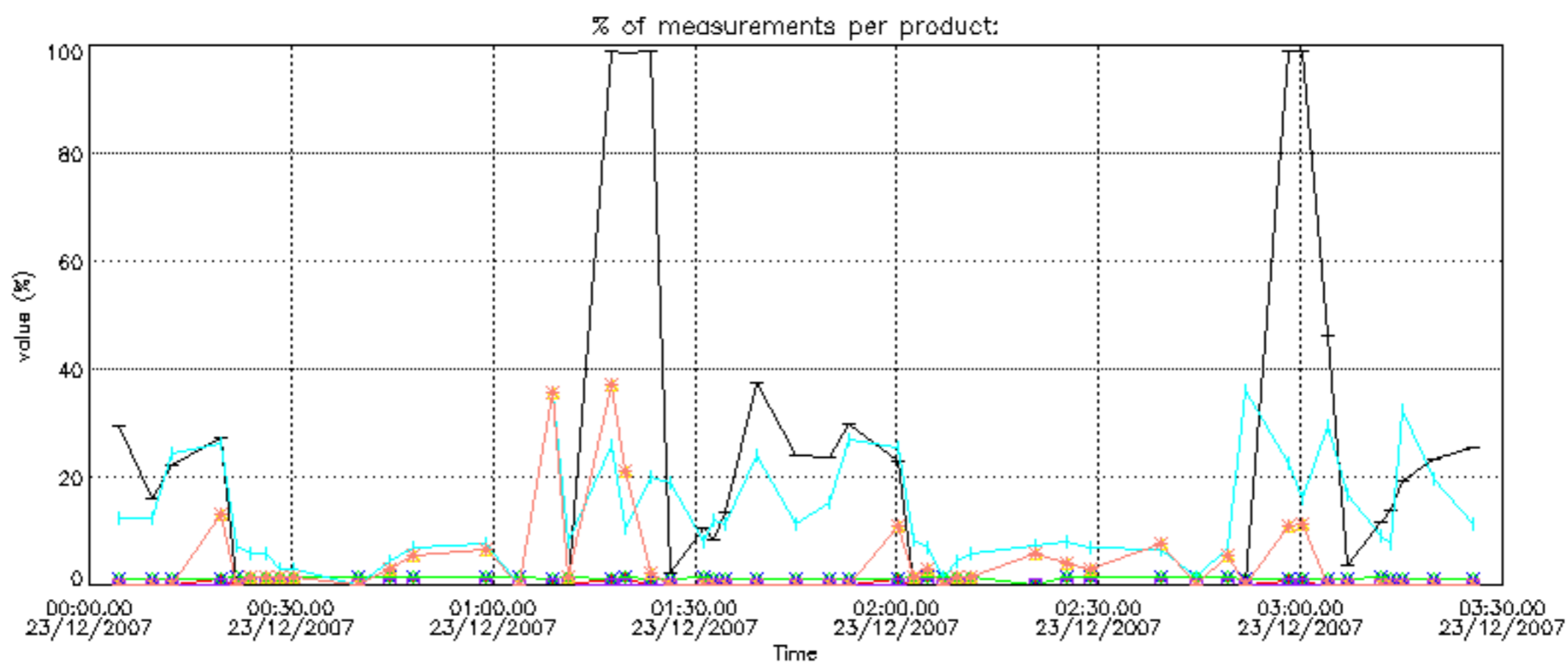
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	23-DEC-2007 00:04:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071220_110231_20071218_000000_20100101_000000	1	23-DEC-2007 00:04:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	23-DEC-2007 00:04:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-DEC-2007 00:04:29
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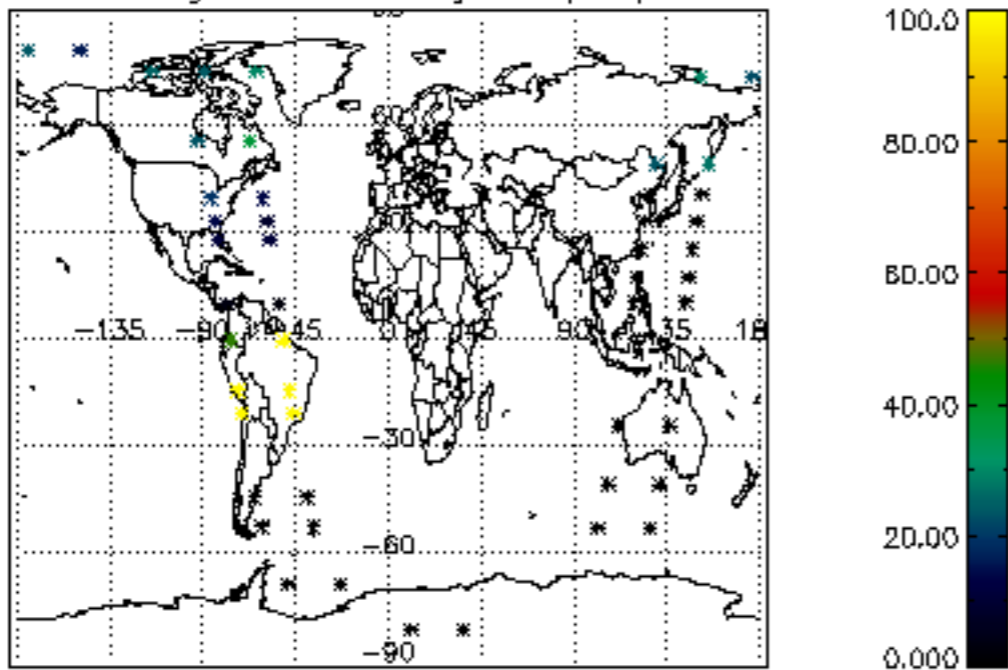




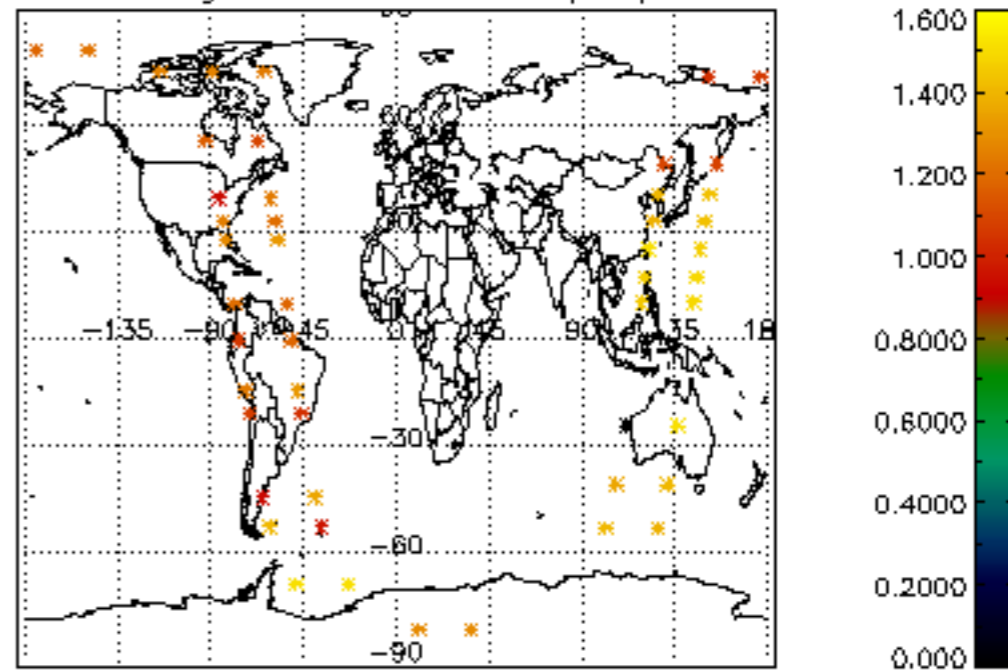




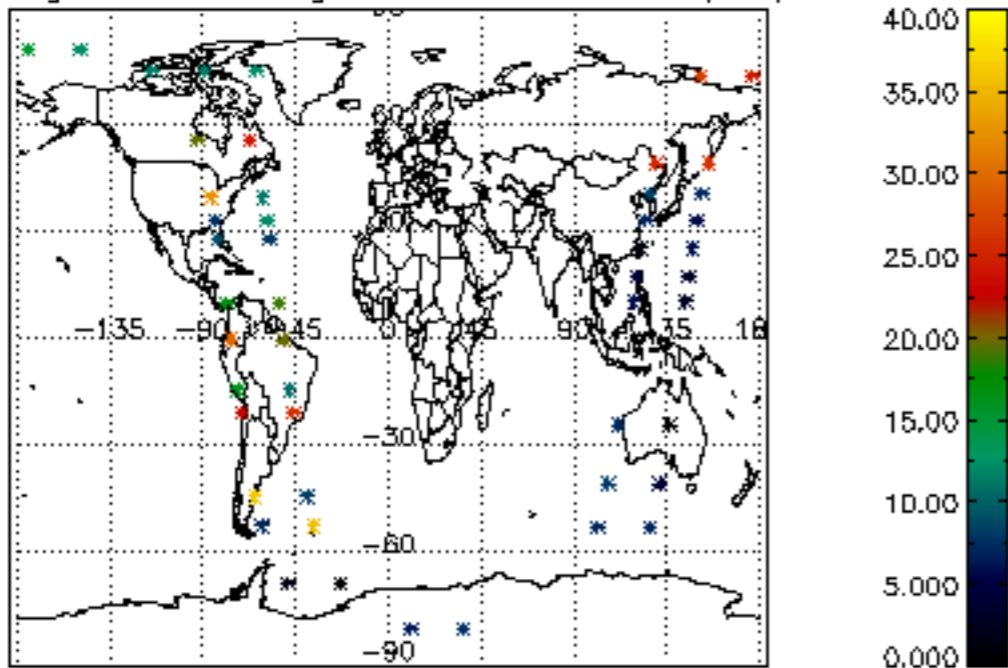
Percentage of cosmic ray hits per profile



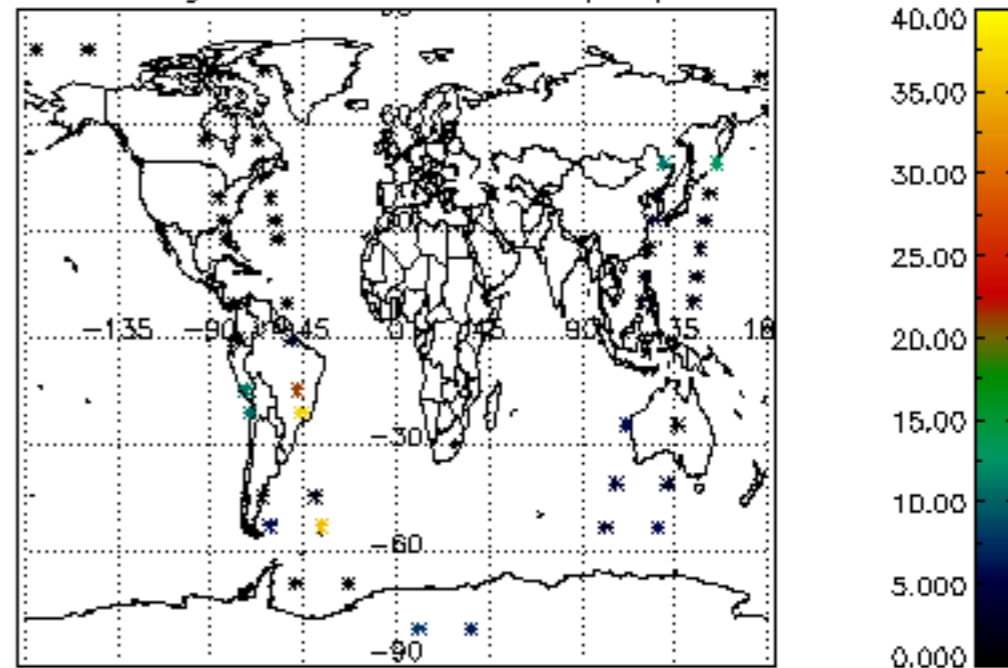
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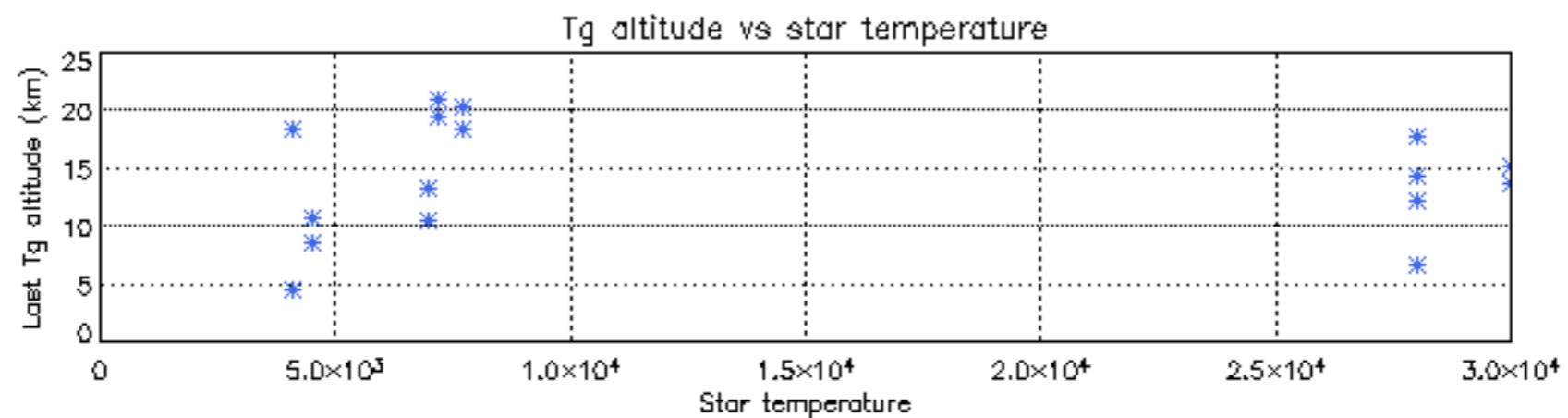
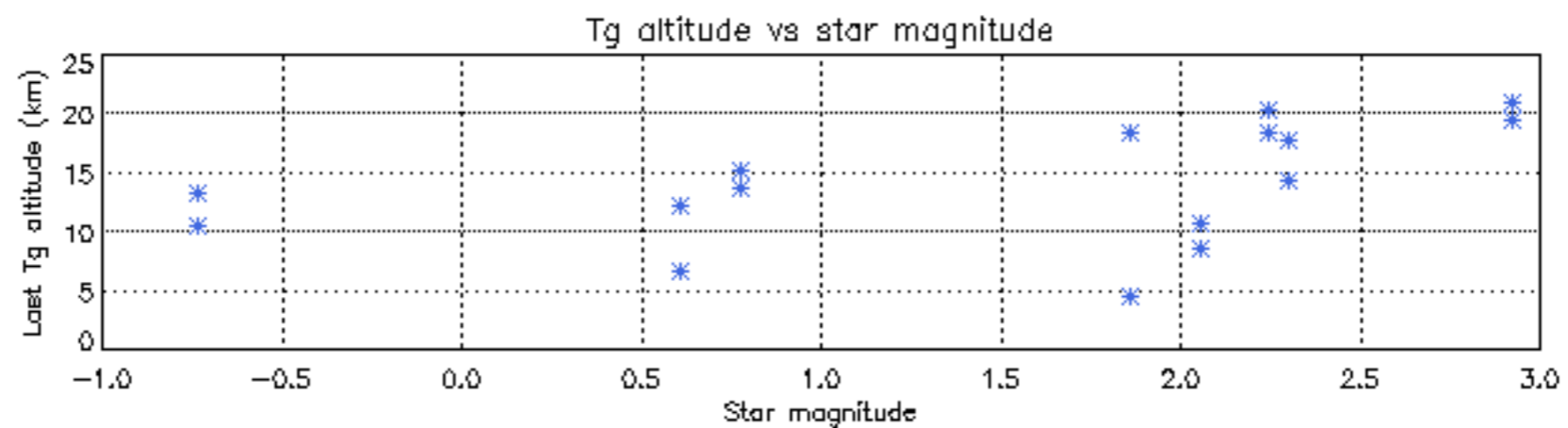
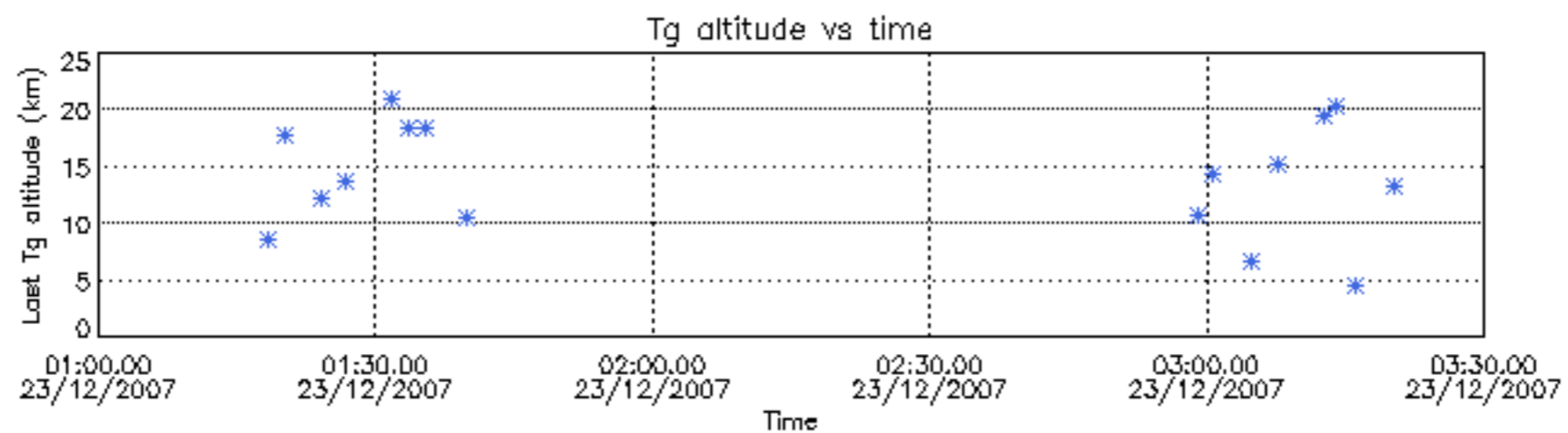
Percentage of star falling outside central band per profile



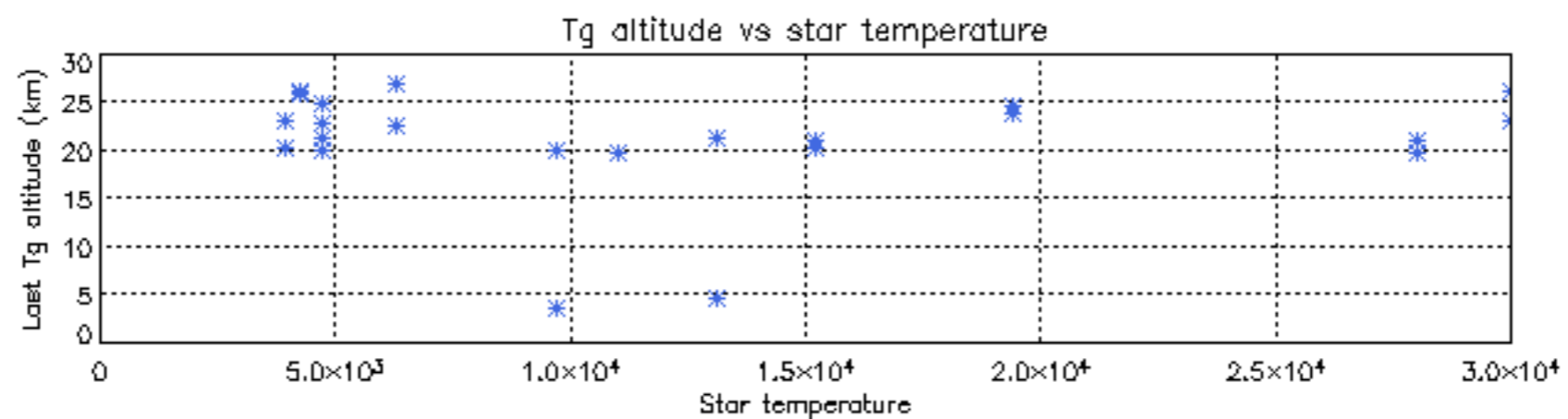
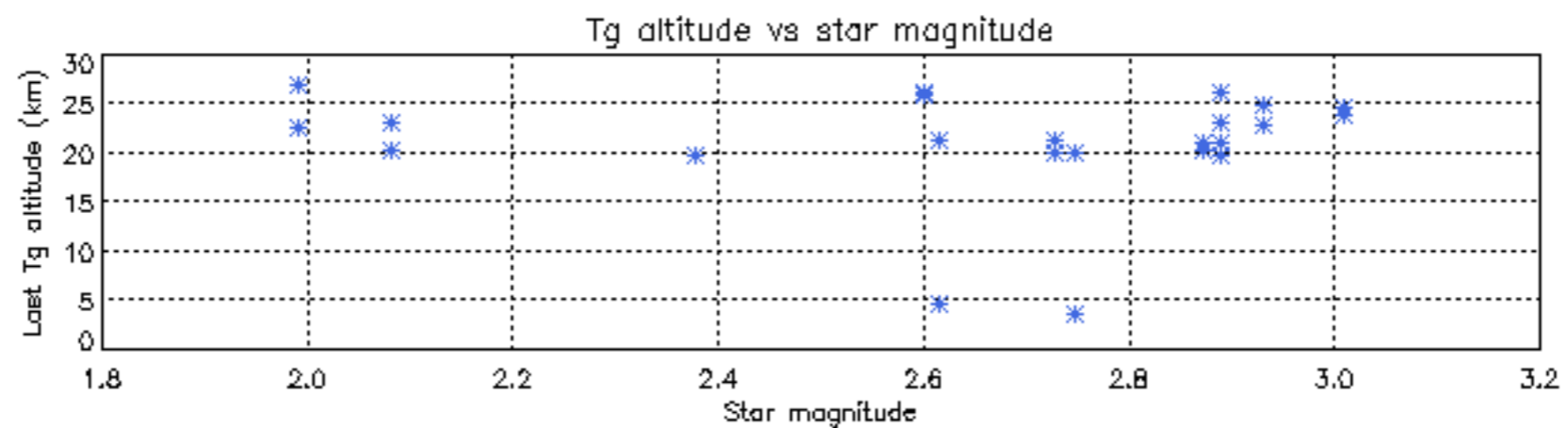
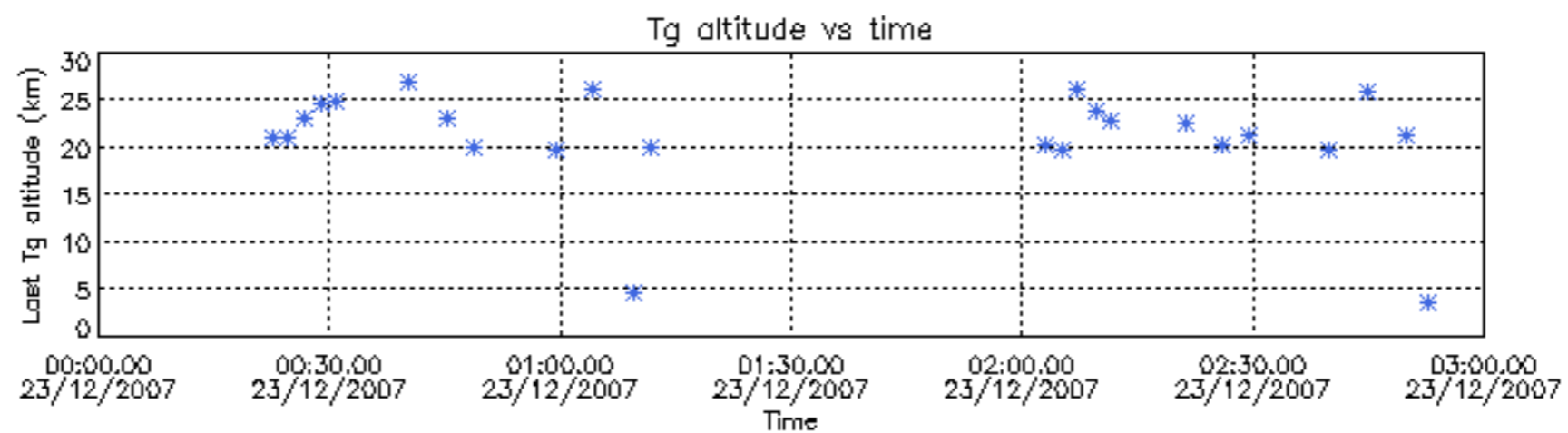
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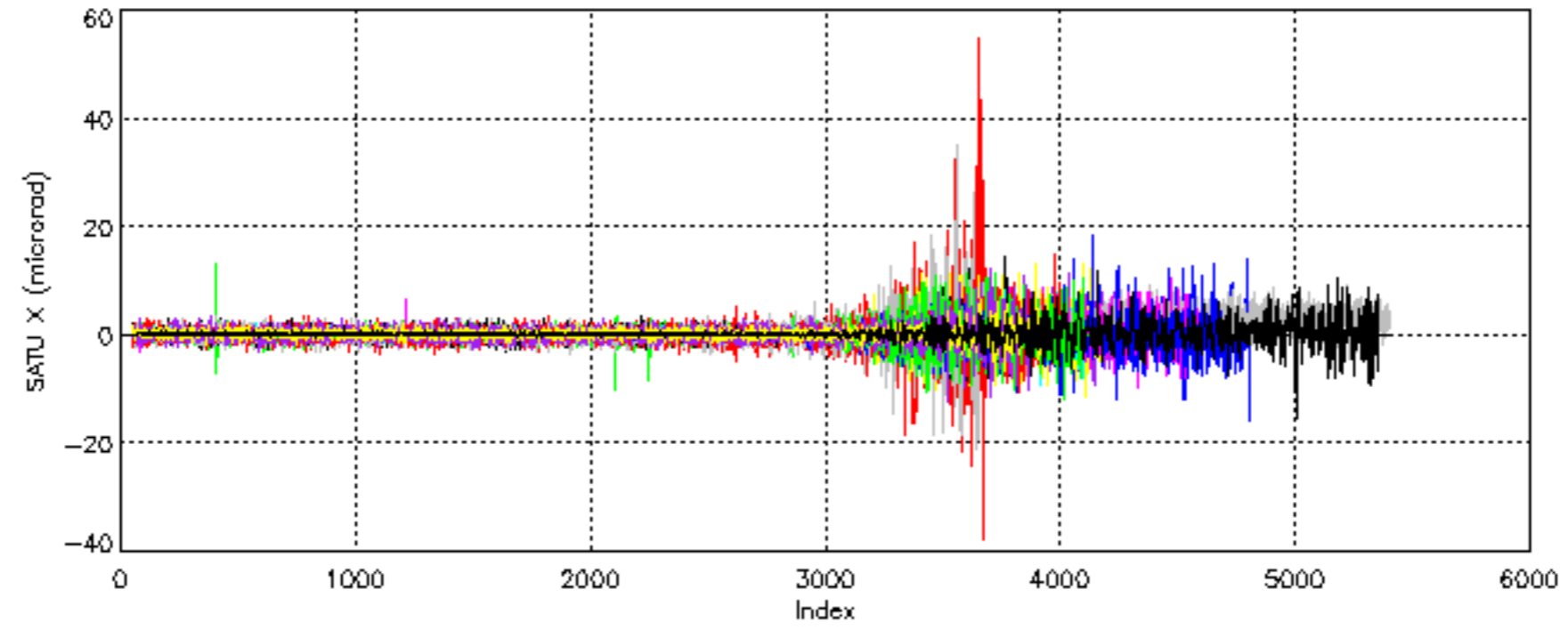


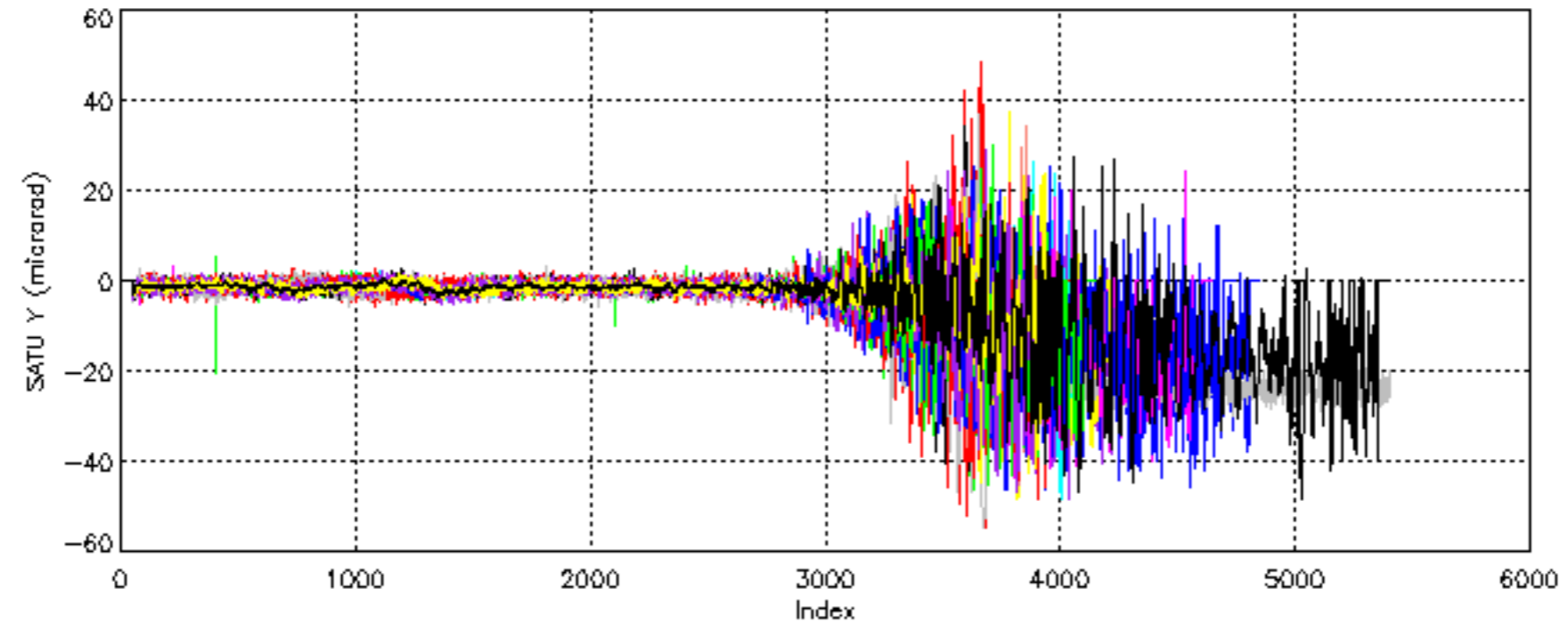
Tangent altitude at which the star is lost

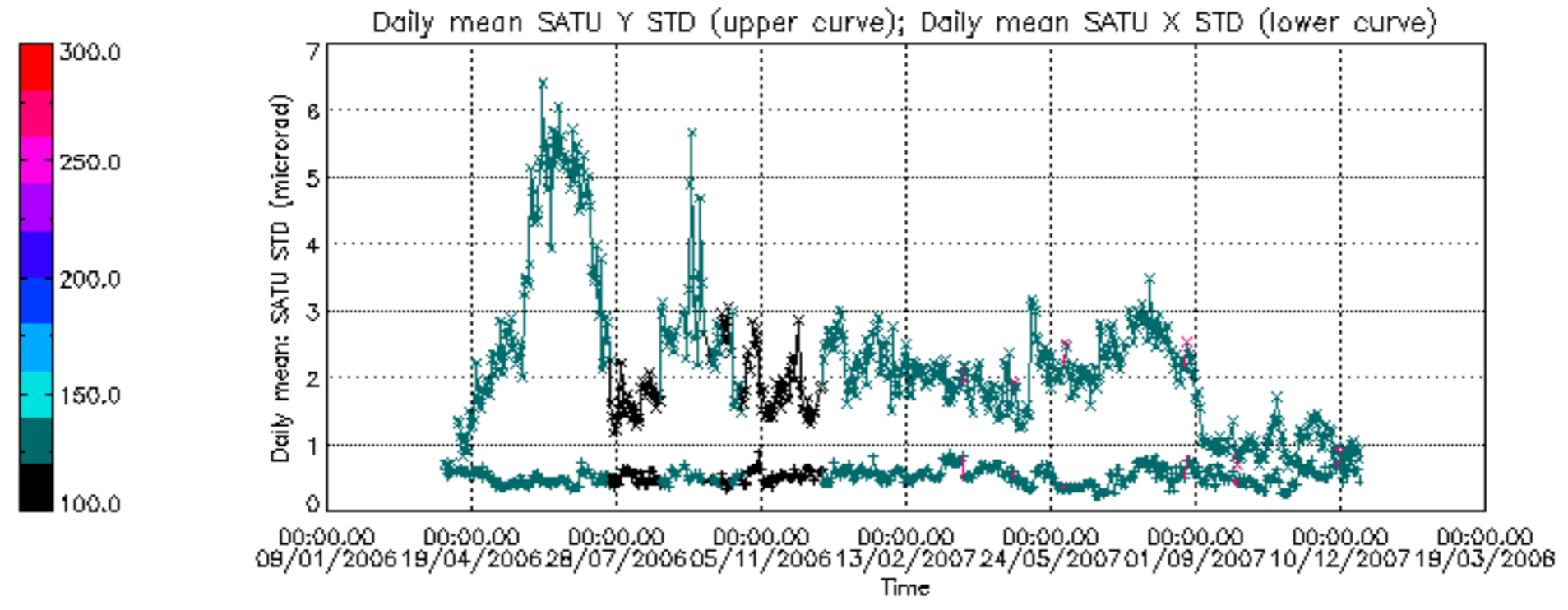


Tangent altitude at which the star is lost










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8; 2701.4; 27-DEC-2007 15:07:31; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30454

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 13; 4533.7; 27-DEC-2007 15:38:03; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;30454
 14; 4871.4; 27-DEC-2007 15:43:41; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30454
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 25; 6730.0; 27-DEC-2007 16:14:40; Dark ; 40.5; 41; Eps Car ; 1.86; 4100;occ; 81; 0;30454
 26; 6995.5; 27-DEC-2007 16:19:05; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;30454

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 23; 6415.6; 27-DEC-2007 17:50:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30455
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 25; 6629.0; 27-DEC-2007 17:53:35; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30455
 26; 6730.4; 27-DEC-2007 17:55:16; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30455
 27; 6995.8; 27-DEC-2007 17:59:41; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;30455

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 23; 6015.8; 27-DEC-2007 19:23:57; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30456
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 29; 6996.0; 27-DEC-2007 19:40:18; Dark ; 5.0; 2; Alp Car ; -0.74; 7000;occ; 10; 0;30456

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 15; 2012.9; 27-DEC-2007 23:19:02; Dark ; 40.5; 27; 24Gam Ori ; 1.64; 26000;occ; 81; 0;30459
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 22; 3696.7; 27-DEC-2007 23:47:06; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30459
 23; 3917.8; 27-DEC-2007 23:50:47; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30459
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 27; 5167.6; 28-DEC-2007 00:11:37; Bright; 53.5; 104; 27Bet Lib ; 2.61; 13100;occ; 107; 0;30459

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8; 381.1; 28-DEC-2007 02:13:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30461
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