

GOMOS Daily Report 20-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	24DEC2007 06:22:49
Data source version	GOMOS/5.00
Start time of products	QDS_TODAY(/START)-4D (20DEC2007 00:00:00)
Stop time of products	QDS_TODAY(/STOP)-4D (21DEC2007 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)

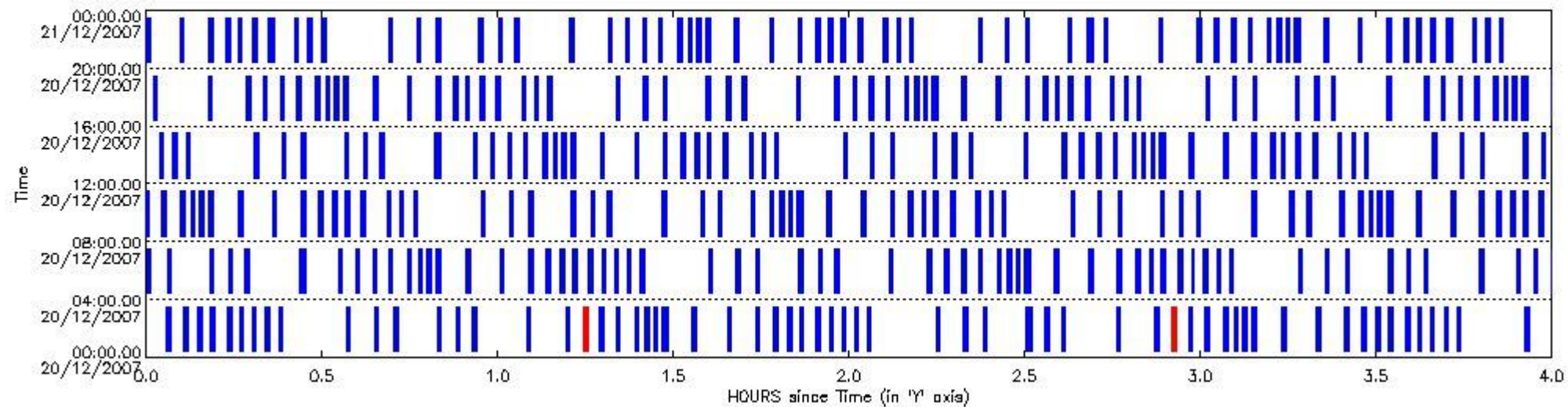
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

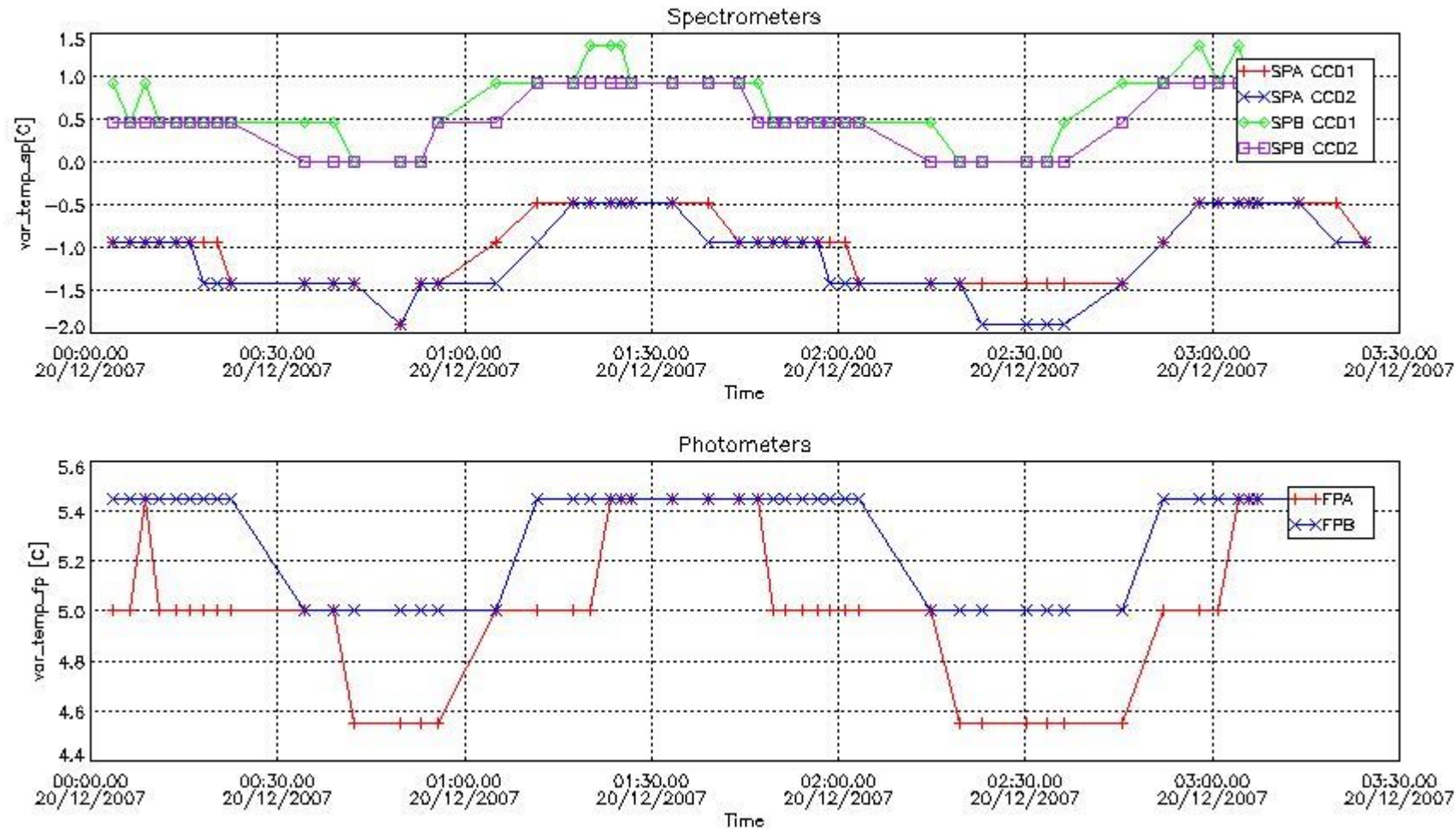
UTC start time	Star name	Star ID	Orbit
20-DEC-2007 01:14:30	ZetCen	95	30345
20-DEC-2007 02:55:07	ZetCen	95	30346

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_1PNPDE20071220_000326_000000422064_00231_30345_3158.N1	20-DEC-2007 00:03:26	Straylight	41.500	101	11Alp Lep	2.5820	7000.0	83	30345	No
2	GOM_TRA_1PNPDE20071220_000626_000000472064_00231_30345_3159.N1	20-DEC-2007 00:06:26	Straylight	46.500	7	19Bet Ori	0.10000	14000.	93	30345	No
3	GOM_TRA_1PNPDE20071220_000851_000000372064_00231_30345_3160.N1	20-DEC-2007 00:08:51	Straylight	37.000	72	34Del Ori	2.2500	30000.	74	30345	No
4	GOM_TRA_1PNPDE20071220_001053_000000472064_00231_30345_3161.N1	20-DEC-2007 00:10:53	Twilight_stray	46.500	27	24Gam Ori	1.6360	26000.	93	30345	No
5	GOM_TRA_1PNPDE20071220_001342_000000522064_00231_30345_3162.N1	20-DEC-2007 00:13:42	Twilight_stray	52.000	13	87Alp Tau	0.86700	3800.0	104	30345	No
6	GOM_TRA_1PNPDE20071220_001600_000000372064_00231_30345_3163.N1	20-DEC-2007 00:16:00	Bright	36.500	146	25Eta Tau	2.8730	15200.	73	30345	No
7	GOM_TRA_1PNPDE20071220_001807_000000372064_00231_30345_3164.N1	20-DEC-2007 00:18:07	Bright	36.500	150	44Zet Per	2.8900	28000.	73	30345	No
8	GOM_TRA_1PNPDE20071220_002022_000000352064_00231_30345_3165.N1	20-DEC-2007 00:20:22	Bright	34.500	149	45Eps Per	2.8880	30000.	69	30345	No
9	GOM_TRA_1PNPDE20071220_002236_000000342064_00231_30345_3166.N1	20-DEC-2007 00:22:36	Bright	33.500	175	39Del Per	3.0100	19400.	67	30345	No

10	GOM_TRA_1PNPDE20071220_003416_000000332064_00231_30345_3167.N1	20-DEC-2007 00:34:16	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	30345	No
11	GOM_TRA_1PNPDE20071220_003857_000000372064_00231_30345_3168.N1	20-DEC-2007 00:38:57	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	30345	No
12	GOM_TRA_1PNPDE20071220_004220_000000362064_00231_30345_3169.N1	20-DEC-2007 00:42:20	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	30345	No
13	GOM_TRA_1PNPDE20071220_004936_000000372064_00231_30345_3170.N1	20-DEC-2007 00:49:36	Bright	36.500	180	27Gam Boo	3.0400	8000.0	73	30345	No
14	GOM_TRA_1PNPDE20071220_005253_000000362064_00231_30345_3171.N1	20-DEC-2007 00:52:53	Bright	35.500	83		2.3780	11000.	71	30345	No
15	GOM_TRA_1PNPDE20071220_005541_000000382064_00231_30345_3172.N1	20-DEC-2007 00:55:41	Bright	38.000	3	16Alp Boo	-0.050000	4250.0	76	30345	No
16	GOM_TRA_1PNPDE20071220_010503_000000362064_00231_30345_3357.N1	20-DEC-2007 01:05:03	Bright	36.000	122	9Alp2Lib	2.7470	9700.0	72	30345	No
17	GOM_TRA_1PNPDE20071220_011133_000000462064_00231_30345_3358.N1	20-DEC-2007 01:11:33	Dark	45.500	54	5The Cen	2.0550	4500.0	91	30345	No
18	GOM_TRA_1PNPDE20071220_011723_000000412064_00231_30345_3359.N1	20-DEC-2007 01:17:23	Dark	41.000	64	Gam Cen	2.2000	10600.	82	30345	No
19	GOM_TRA_1PNPDE20071220_012013_000000412064_00232_30346_3360.N1	20-DEC-2007 01:20:13	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	30346	No
20	GOM_TRA_1PNPDE20071220_012327_000000382064_00232_30346_3361.N1	20-DEC-2007 01:23:27	Dark	37.500	124	The Car	2.7640	30000.	75	30346	No
21	GOM_TRA_1PNPDE20071220_012511_000000392064_00232_30346_3362.N1	20-DEC-2007 01:25:11	Dark	38.500	159	Ups Car	2.9200	7200.0	77	30346	No
22	GOM_TRA_1PNPDE20071220_012637_000000412064_00232_30346_3363.N1	20-DEC-2007 01:26:37	Dark	41.000	71	lot Car	2.2460	7700.0	82	30346	No
23	GOM_TRA_1PNPDE20071220_013313_000000472064_00232_30346_3364.N1	20-DEC-2007 01:33:13	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	30346	No
24	GOM_TRA_1PNPDE20071220_013909_000000402064_00232_30346_3365.N1	20-DEC-2007 01:39:09	Straylight	39.500	108	Alp Col	2.6520	15200.	79	30346	No
25	GOM_TRA_1PNPDE20071220_014402_000000432064_00232_30346_3366.N1	20-DEC-2007 01:44:02	Straylight	43.000	101	11Alp Lep	2.5820	7000.0	86	30346	No
26	GOM_TRA_1PNPDE20071220_014702_000000492064_00232_30346_3367.N1	20-DEC-2007 01:47:02	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	30346	No
27	GOM_TRA_1PNPDE20071220_014927_000000442064_00232_30346_3368.N1	20-DEC-2007 01:49:27	Straylight	44.000	72	34Del Ori	2.2500	30000.	88	30346	No
28	GOM_TRA_1PNPDE20071220_015129_000000452064_00232_30346_3369.N1	20-DEC-2007 01:51:29	Tw_i_and_stray	44.500	27	24Gam Ori	1.6360	26000.	89	30346	No
29	GOM_TRA_1PNPDE20071220_015418_000000522064_00232_30346_3370.N1	20-DEC-2007 01:54:18	Tw_i_and_stray	52.000	13	87Alp Tau	0.86700	3800.0	104	30346	No
30	GOM_TRA_1PNPDE20071220_015636_000000352064_00232_30346_3371.N1	20-DEC-2007 01:56:36	Bright	34.500	146	25Eta Tau	2.8730	15200.	69	30346	No
31	GOM_TRA_1PNPDE20071220_015843_000000362064_00232_30346_3372.N1	20-DEC-2007 01:58:43	Bright	35.500	150	44Zet Per	2.8900	28000.	71	30346	No
32	GOM_TRA_1PNPDE20071220_020058_000000342064_00232_30346_3373.N1	20-DEC-2007 02:00:58	Bright	33.500	149	45Eps Per	2.8880	30000.	67	30346	No
33	GOM_TRA_1PNPDE20071220_020311_000000342064_00232_30346_3374.N1	20-DEC-2007 02:03:11	Bright	34.000	175	39Del Per	3.0100	19400.	68	30346	No
34	GOM_TRA_1PNPDE20071220_021451_000000332064_00232_30346_3375.N1	20-DEC-2007 02:14:51	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	30346	No
35	GOM_TRA_1PNPDE20071220_021932_000000372064_00232_30346_3376.N1	20-DEC-2007 02:19:32	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30346	No
36	GOM_TRA_1PNPDE20071220_022256_000000372064_00232_30346_3512.N1	20-DEC-2007 02:22:56	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	30346	No
37	GOM_TRA_1PNPDE20071220_023012_000000562064_00232_30346_3513.N1	20-DEC-2007 02:30:12	Bright	56.000	180	27Gam Boo	3.0400	8000.0	112	30346	No
38	GOM_TRA_1PNPDE20071220_023329_000000372064_00232_30346_3514.N1	20-DEC-2007 02:33:29	Bright	36.500	83		2.3780	11000.	73	30346	No
39	GOM_TRA_1PNPDE20071220_023617_000000392064_00232_30346_3515.N1	20-DEC-2007 02:36:17	Bright	39.000	3	16Alp Boo	-0.050000	4250.0	78	30346	No
40	GOM_TRA_1PNPDE20071220_024539_000000382064_00232_30346_3516.N1	20-DEC-2007 02:45:39	Bright	37.500	122	9Alp2Lib	2.7470	9700.0	75	30346	No
41	GOM_TRA_1PNPDE20071220_025209_000000432064_00232_30346_3517.N1	20-DEC-2007 02:52:09	Dark	43.000	54	5The Cen	2.0550	4500.0	86	30346	No
42	GOM_TRA_1PNPDE20071220_025800_000000412064_00232_30346_3518.N1	20-DEC-2007 02:58:00	Dark	41.000	64	Gam Cen	2.2000	10600.	82	30346	No
43	GOM_TRA_1PNPDE20071220_030049_000000402064_00233_30347_3519.N1	20-DEC-2007 03:00:49	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	30347	No
44	GOM_TRA_1PNPDE20071220_030403_000000382064_00233_30347_3520.N1	20-DEC-2007 03:04:03	Dark	37.500	124	The Car	2.7640	30000.	75	30347	No
45	GOM_TRA_1PNPDE20071220_030547_000000392064_00233_30347_3521.N1	20-DEC-2007 03:05:47	Dark	39.000	159	Ups Car	2.9200	7200.0	78	30347	No
46	GOM_TRA_1PNPDE20071220_030714_000000412064_00233_30347_3522.N1	20-DEC-2007 03:07:14	Dark	40.500	71	lot Car	2.2460	7700.0	81	30347	No
47	GOM_TRA_1PNPDE20071220_031349_000000522064_00233_30347_3523.N1	20-DEC-2007 03:13:49	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	30347	No
48	GOM_TRA_1PNPDE20071220_031945_000000412064_00233_30347_3524.N1	20-DEC-2007 03:19:45	Straylight	40.500	108	Alp Col	2.6520	15200.	81	30347	No
49	GOM_TRA_1PNPDE20071220_032438_000000442064_00233_30347_3525.N1	20-DEC-2007 03:24:38	Straylight	44.000	101	11Alp Lep	2.5820	7000.0	88	30347	No

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



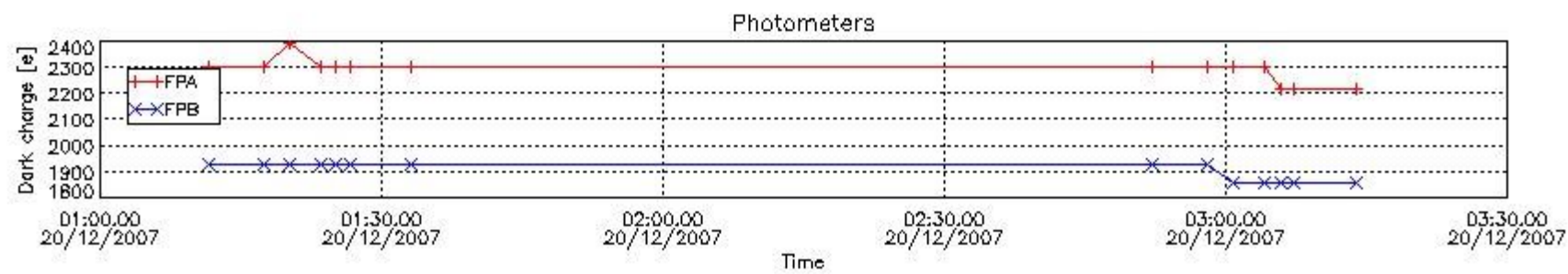
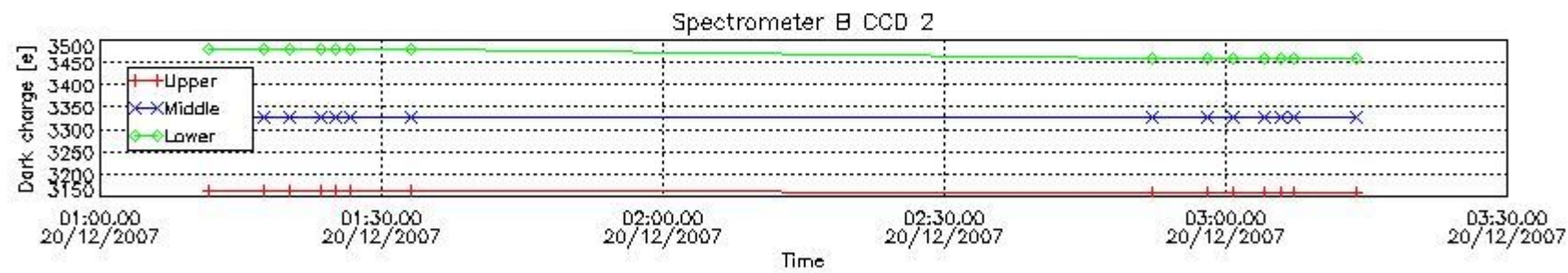
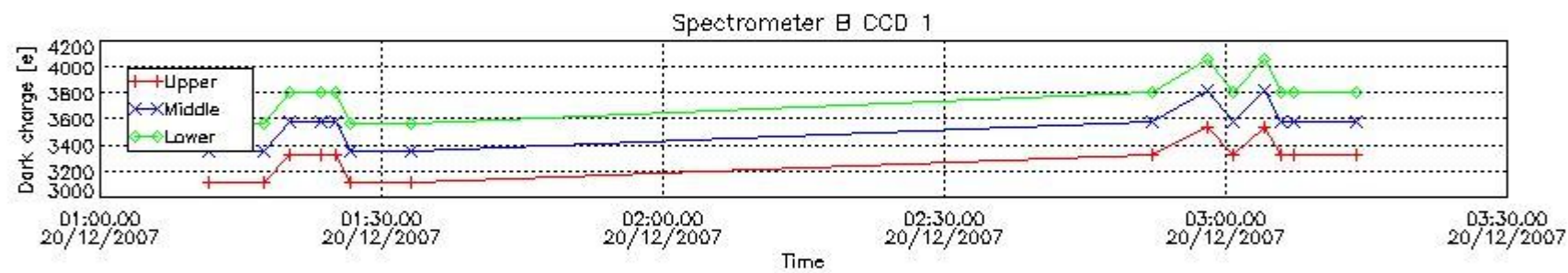
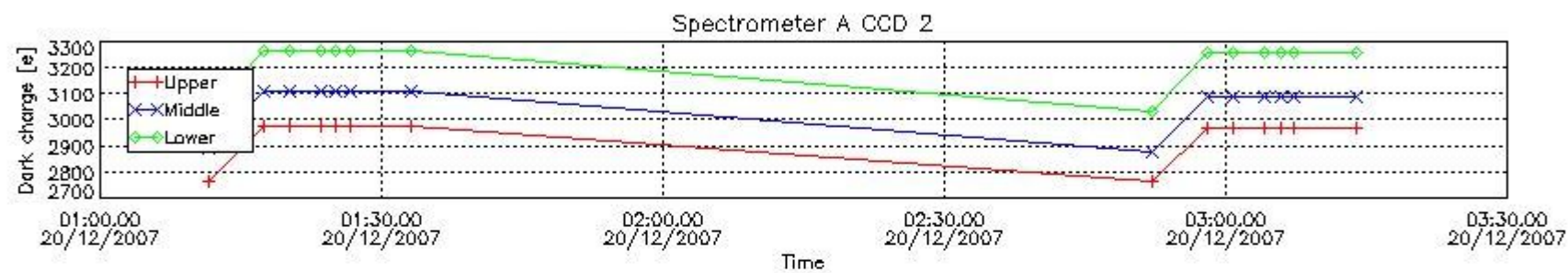
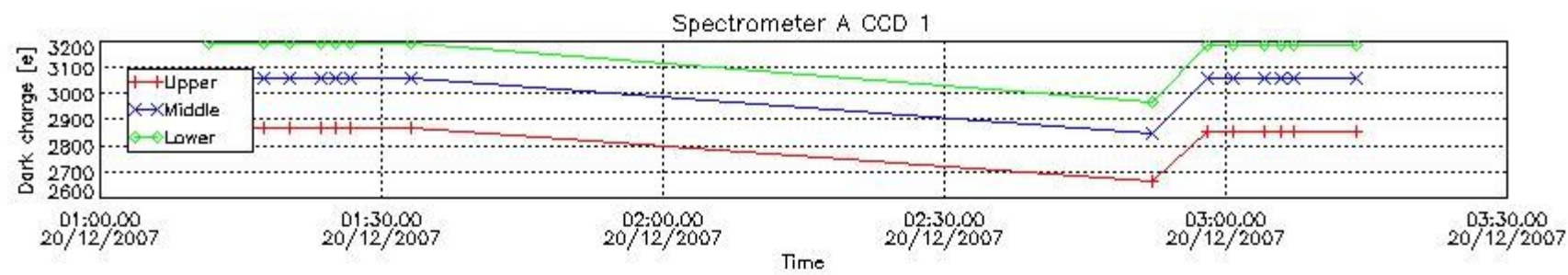
4. Overview of dark signal processing per product

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



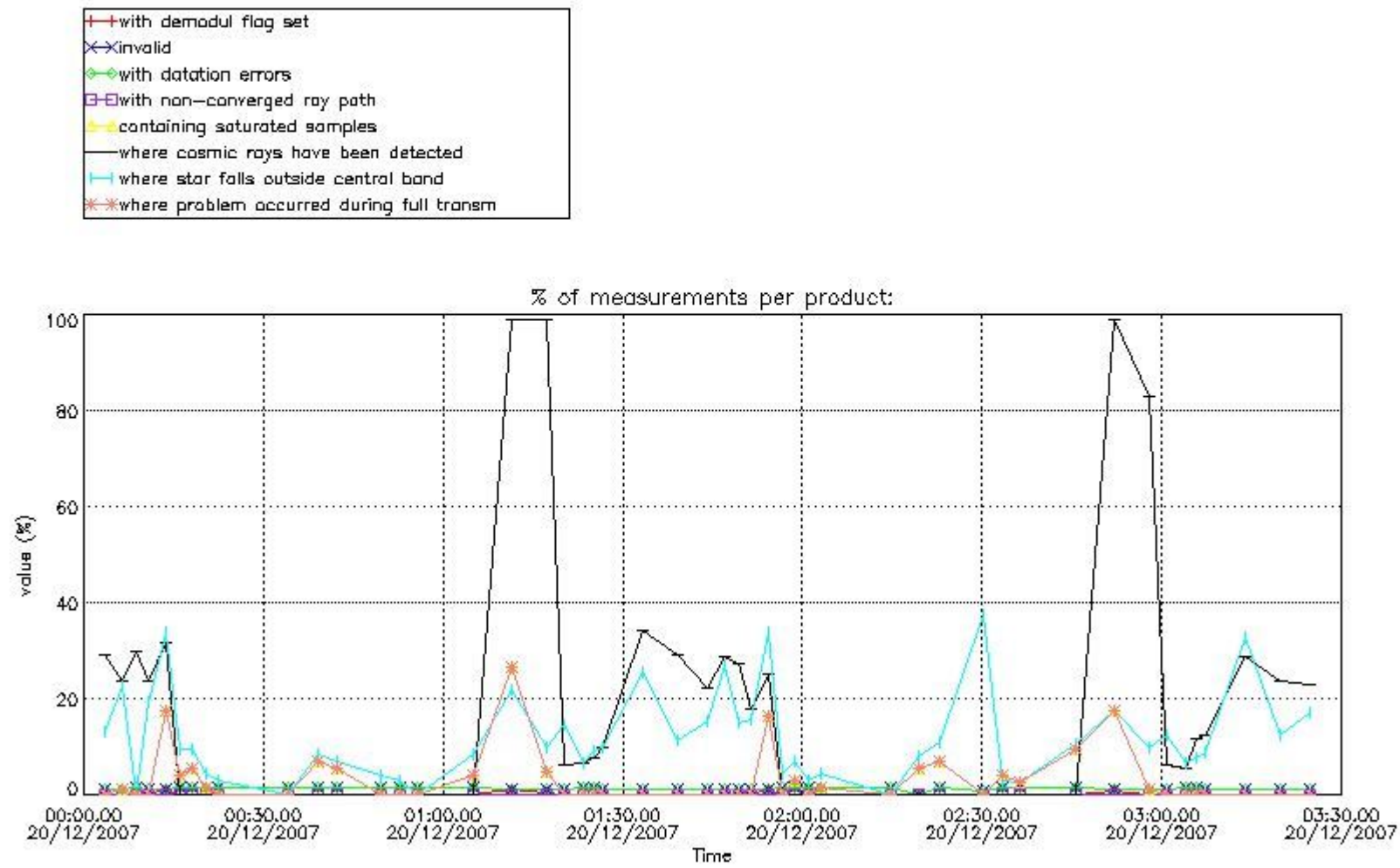
5. Demodulation flag and quality information monitoring

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.

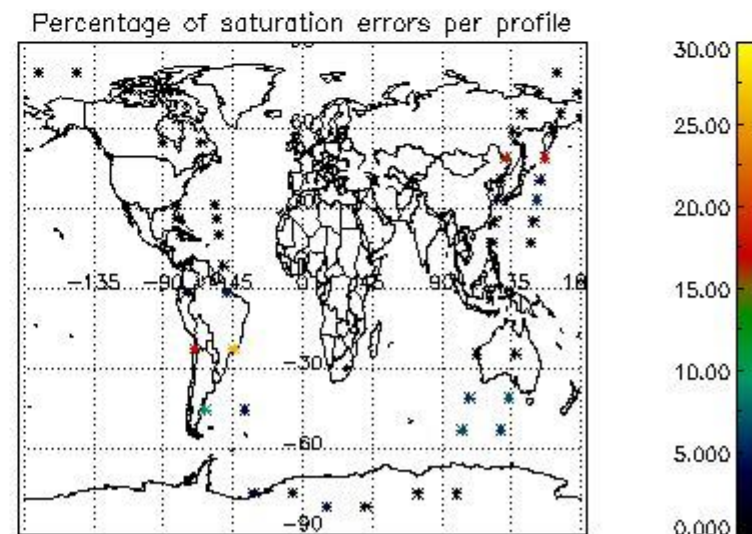
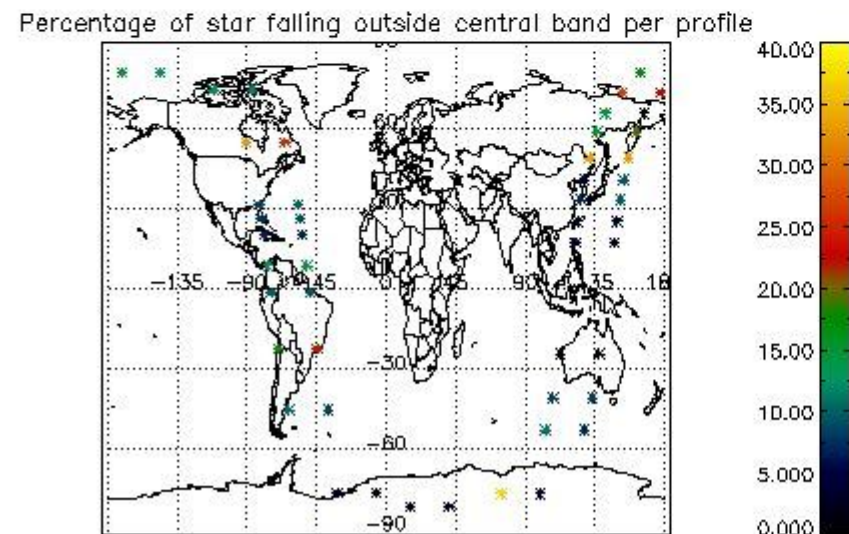
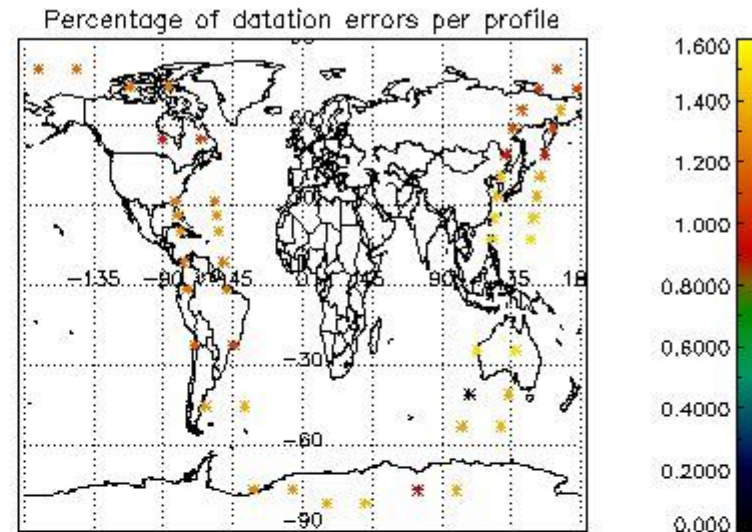
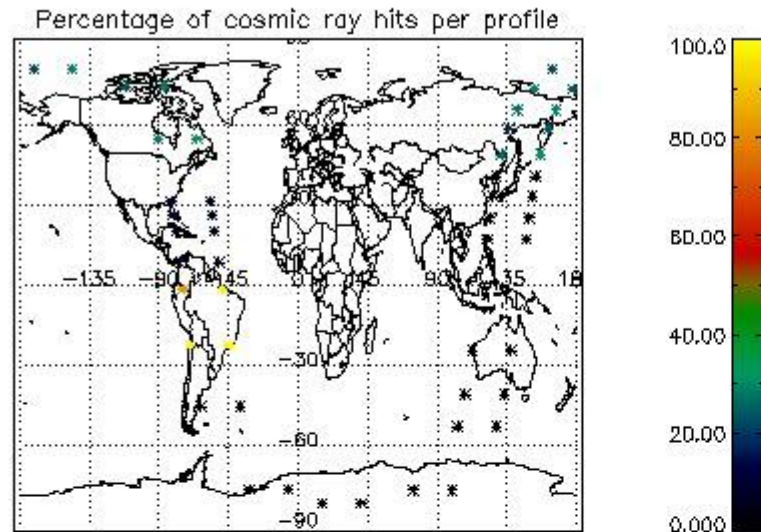
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	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)



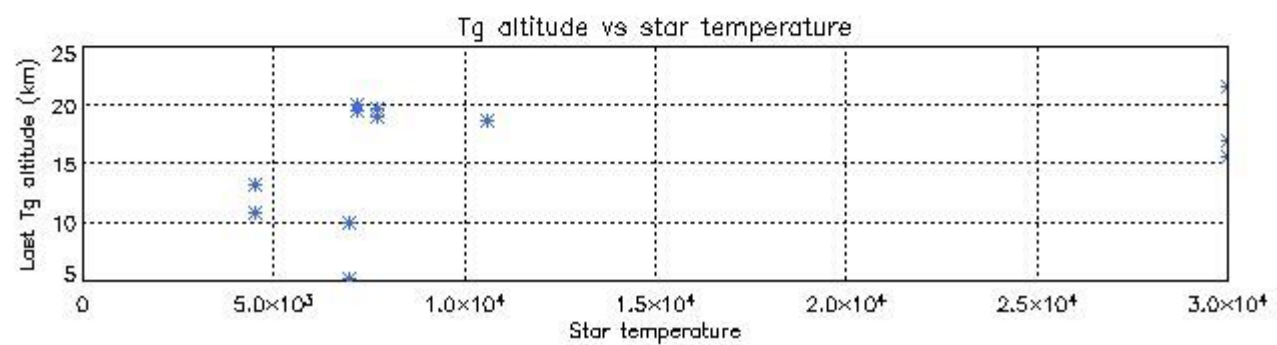
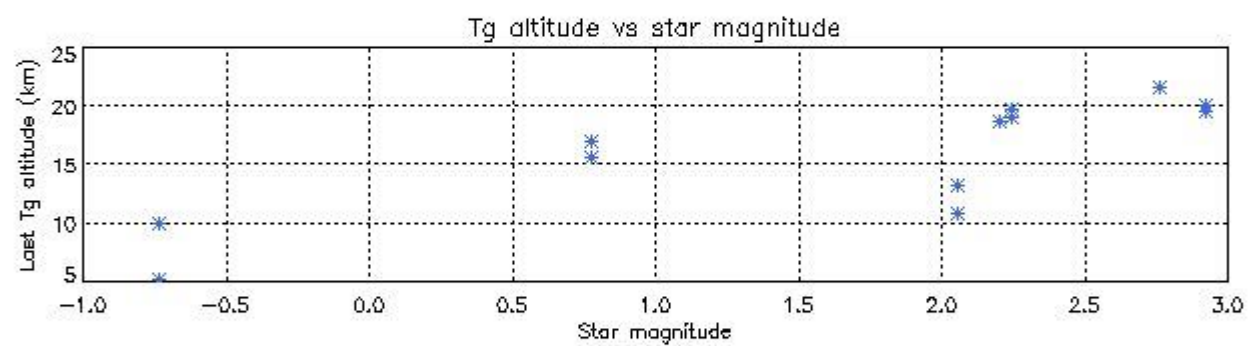
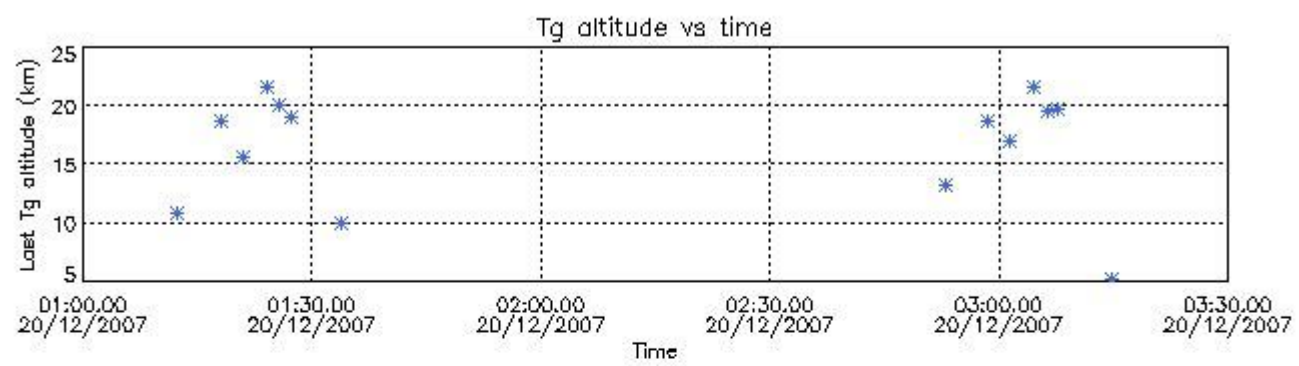
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.462	21.398	NaN
St. deviation:	4.9312	4.7847	NaN
Maximum:	21.525	27.091	NaN
Minimum:	5.1096	3.6698	NaN
Number of data:	14.000	22.000	NaN

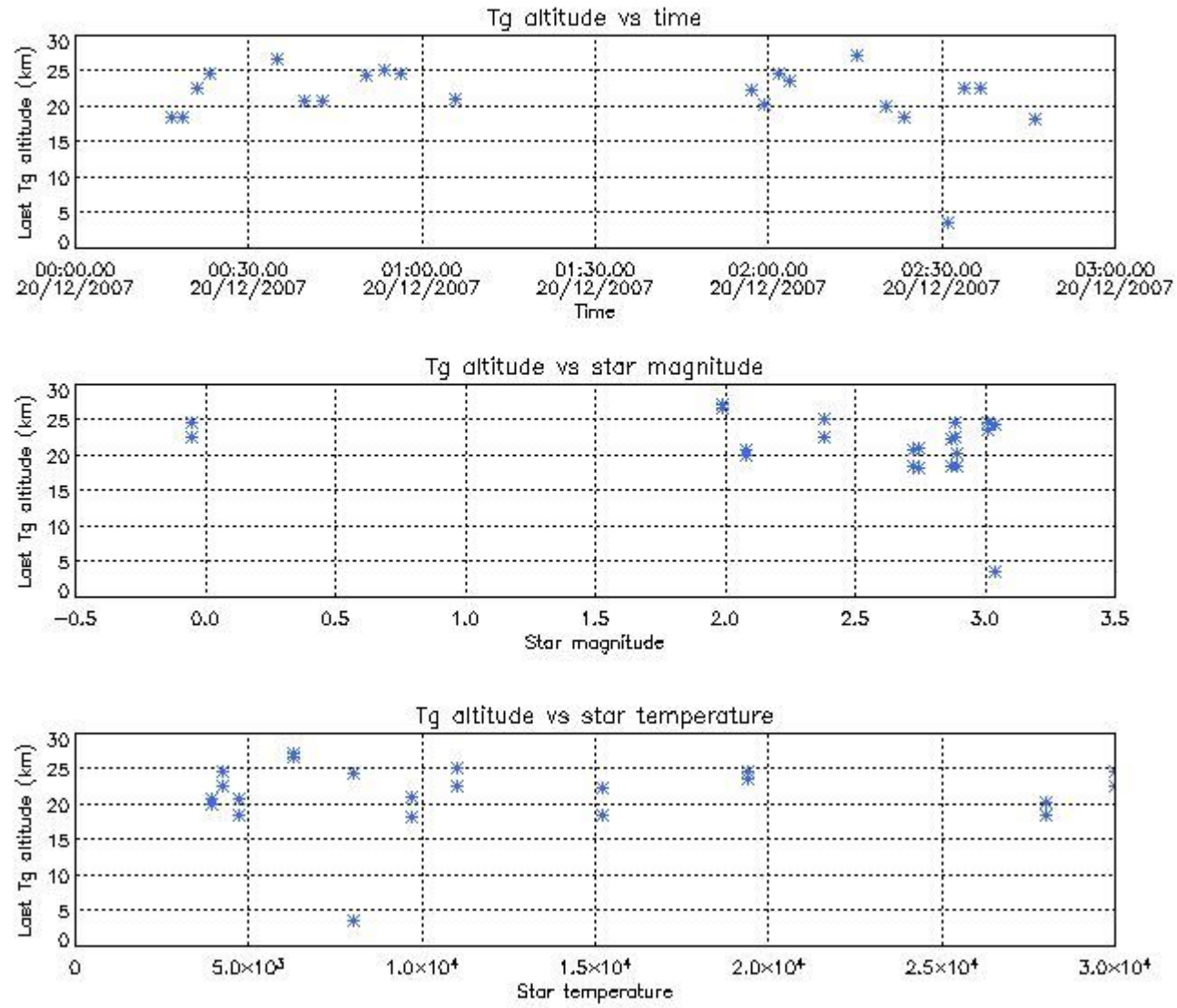
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

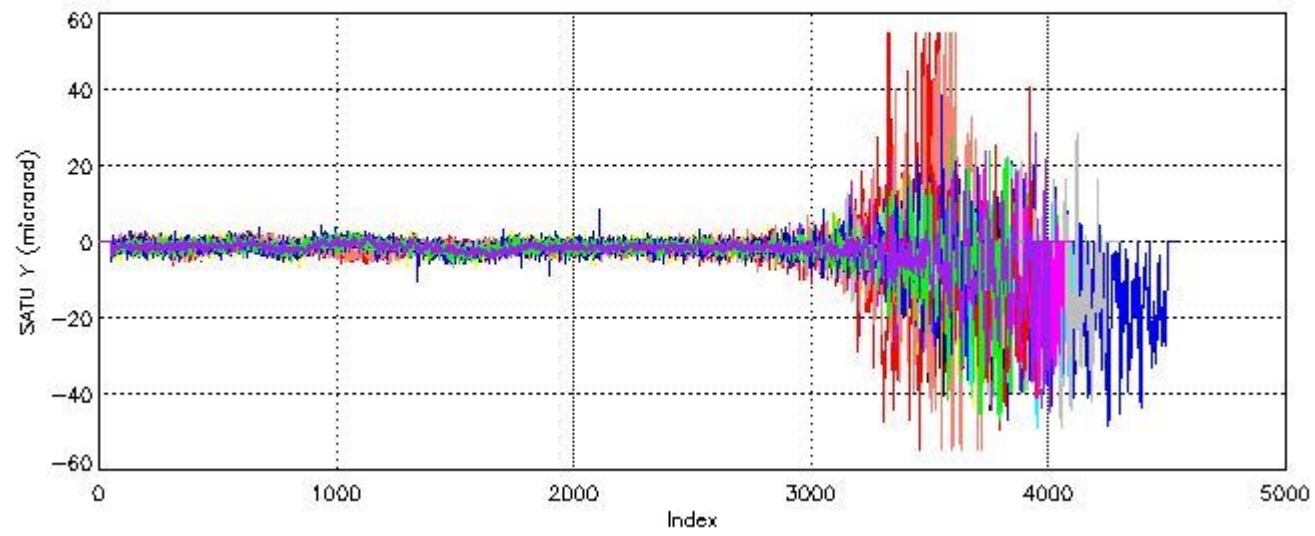
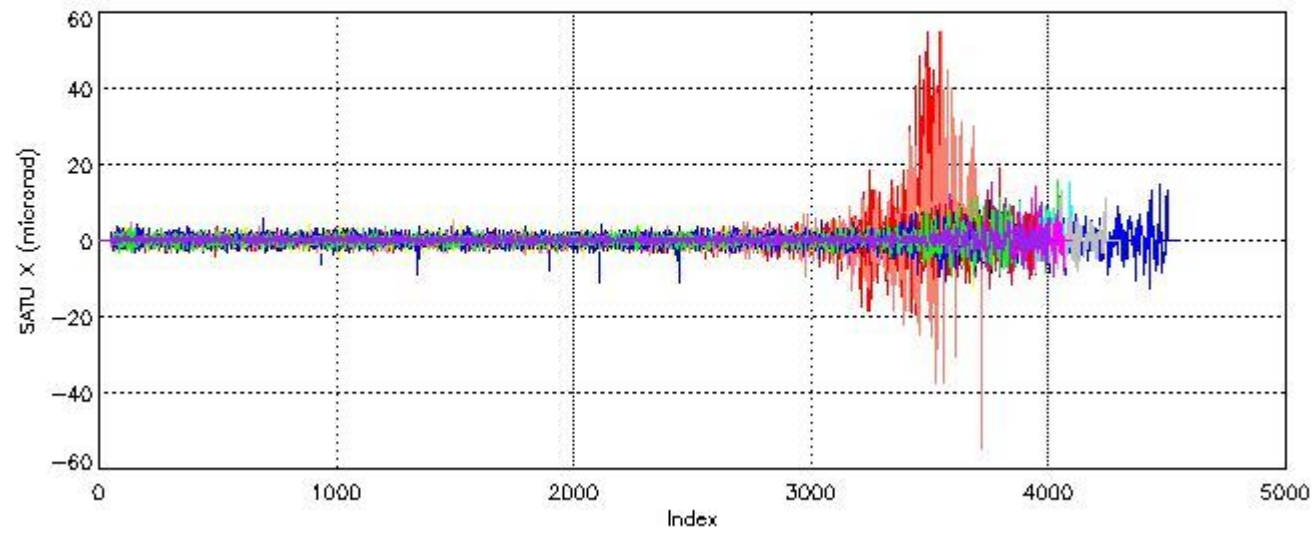


7. Star Acquisition and Tracking Unit (SATU)

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:	0.13467	-1.1813	0.082494	-1.1044
St. deviation:	0.57522	0.92797	0.96654	1.3950
Maximum:	5.9000	3.6000	6.8000	5.5000
Minimum:	-3.7000	-6.7000	-5.4000	-8.1000

Number of data:	12800.	12800.	18200.	18200.
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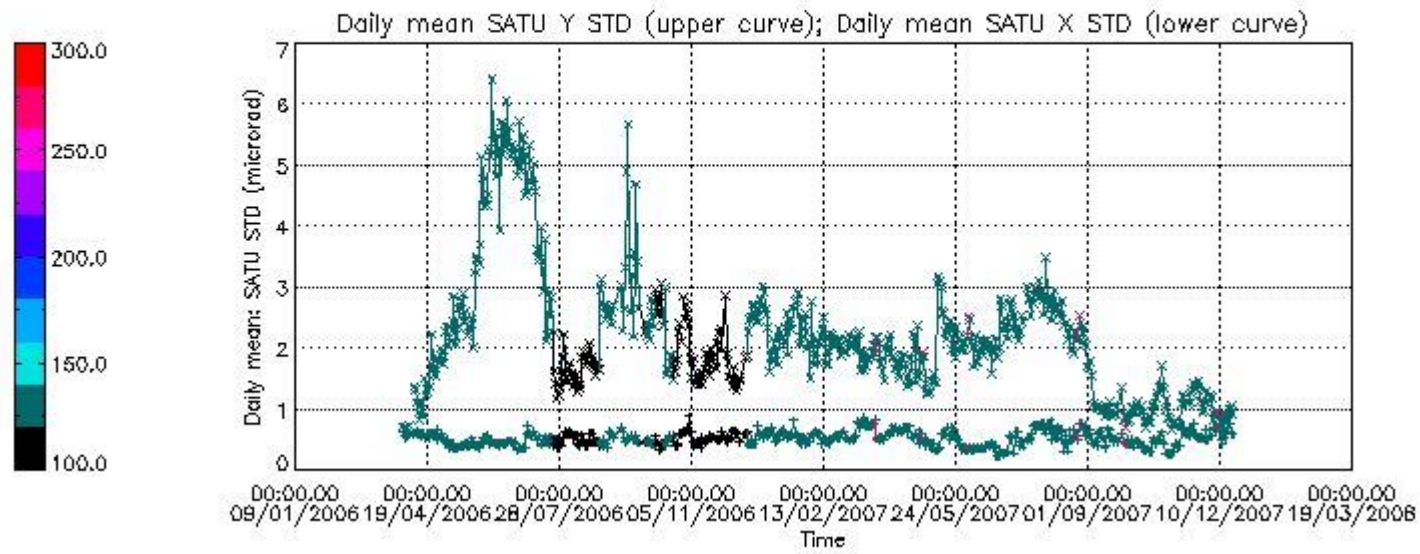
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

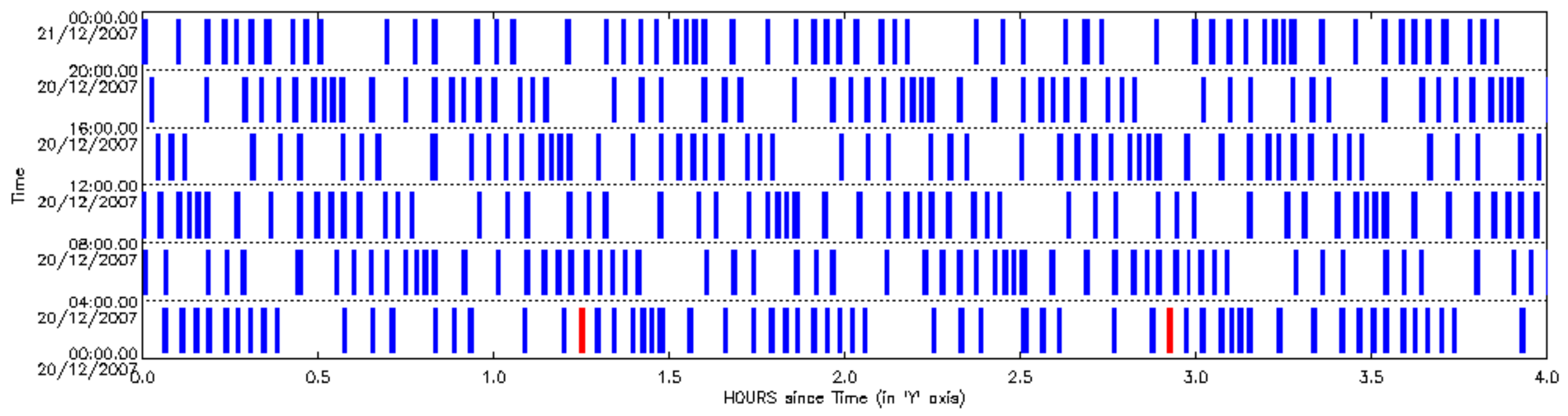
Lower curve: STD of SATU X axis

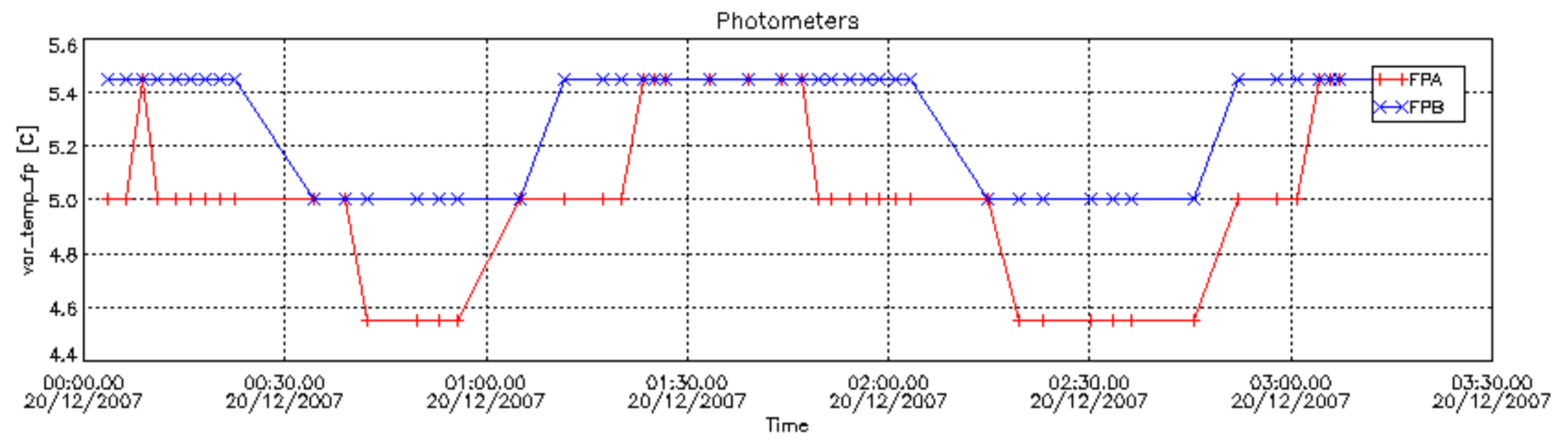
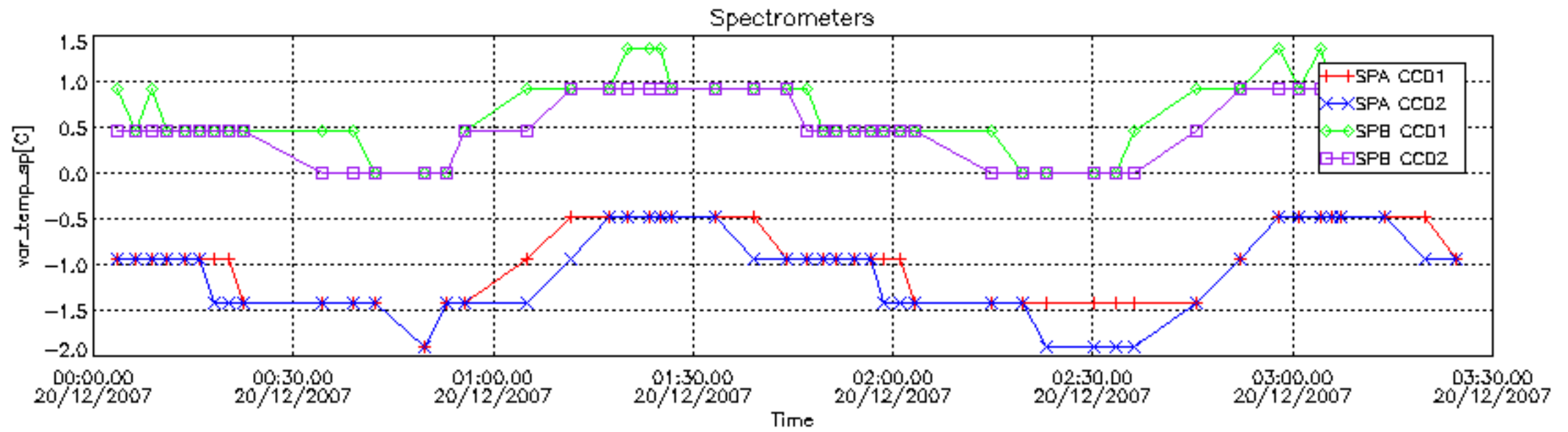


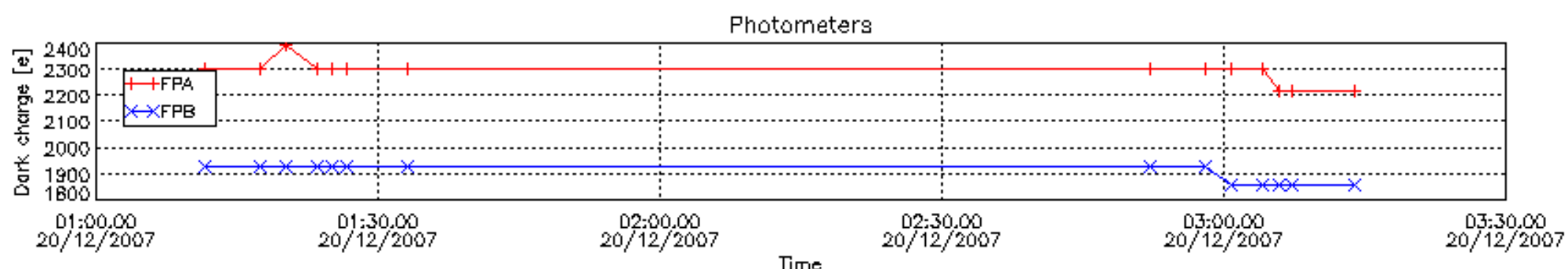
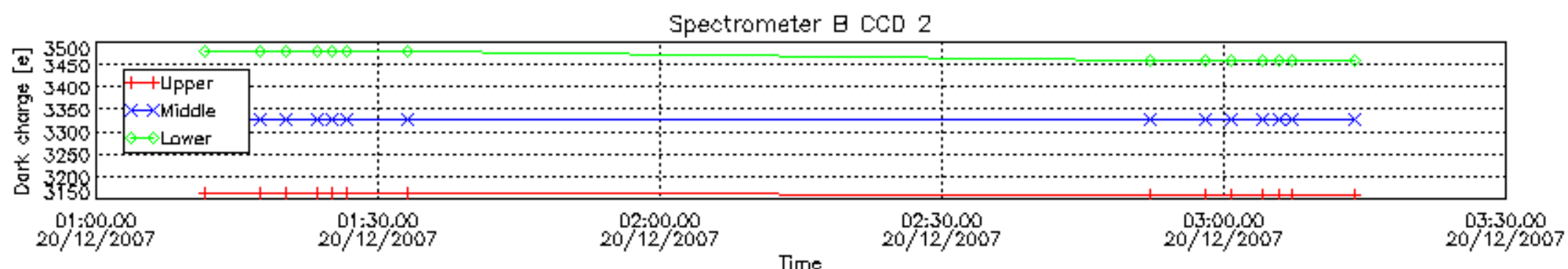
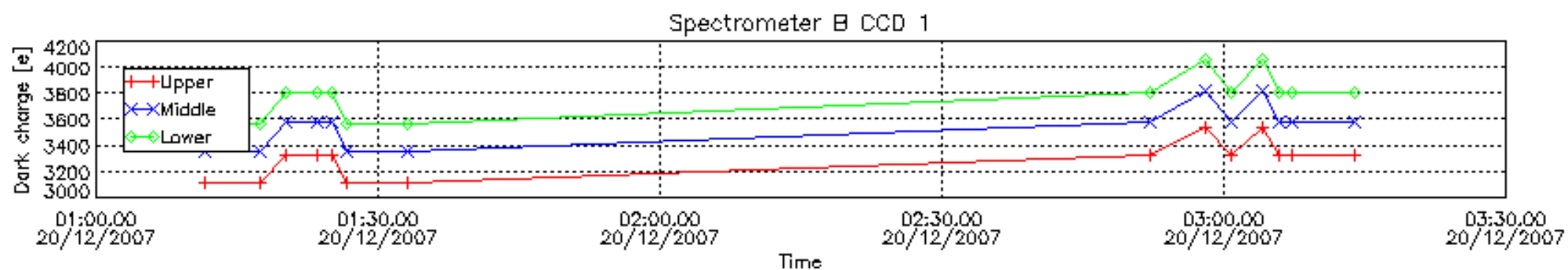
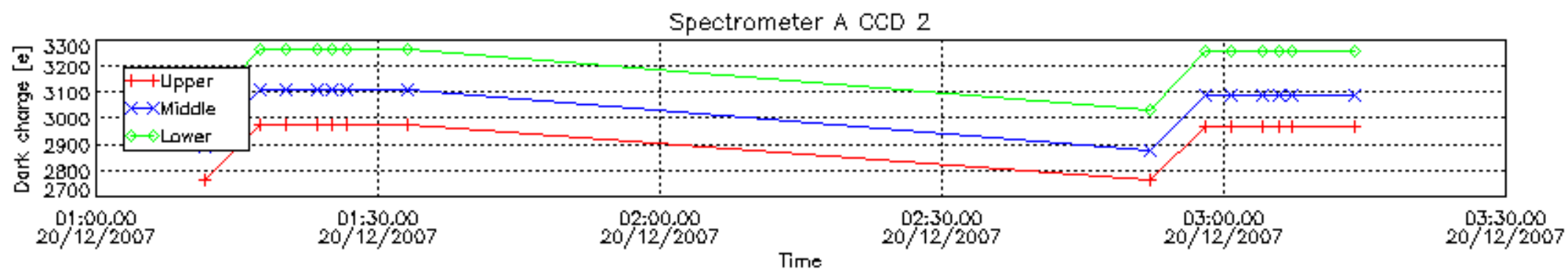
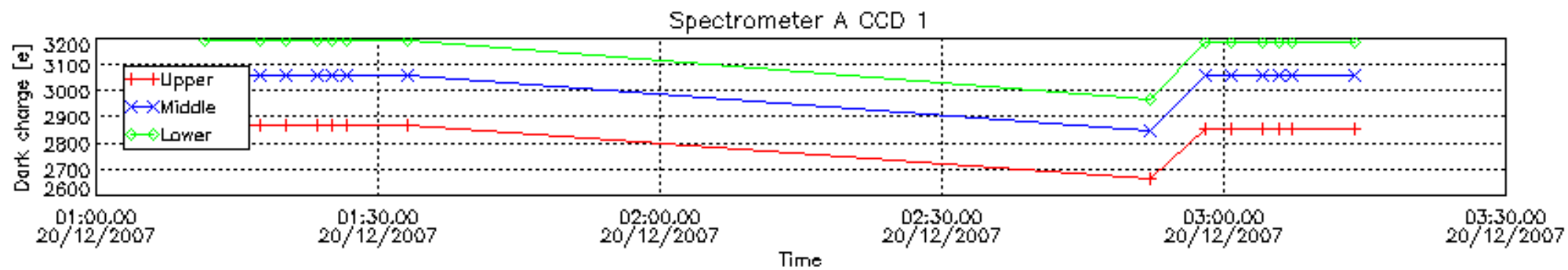
8. Auxiliary Data Files used for the production reported in section 2.4

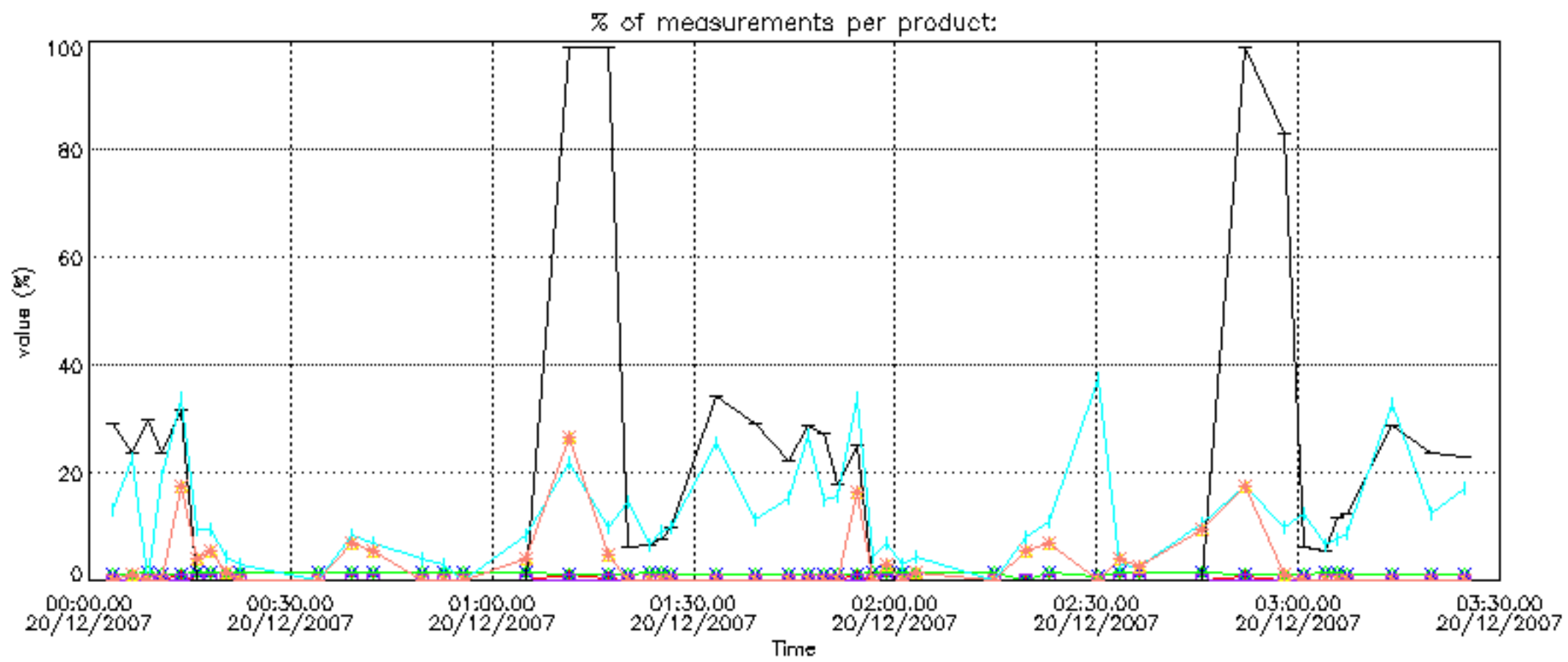
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	20-DEC-2007 00:03:26
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071220_110231_20071218_000000_20100101_000000	1	20-DEC-2007 00:03:26
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	20-DEC-2007 00:03:26
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-DEC-2007 00:03:26
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	20-DEC-2007 00:03:26
ECMWF_FILE	AUX_ECF_AXNECM20071221_153320_20071219_210000_20071220_090000	1	20-DEC-2007 00:03:26
OPTIONAL_ECMWF_FILE	MISSING	1	20-DEC-2007 00:03:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071219_214224_000057382064_00229_30343_4782.N1	1	20-DEC-2007 00:03:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071219_232321_000057382064_00230_30344_4783.N1	16	20-DEC-2007 01:05:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071220_010418_000041442064_00231_30345_4784.N1	36	20-DEC-2007 02:22:56

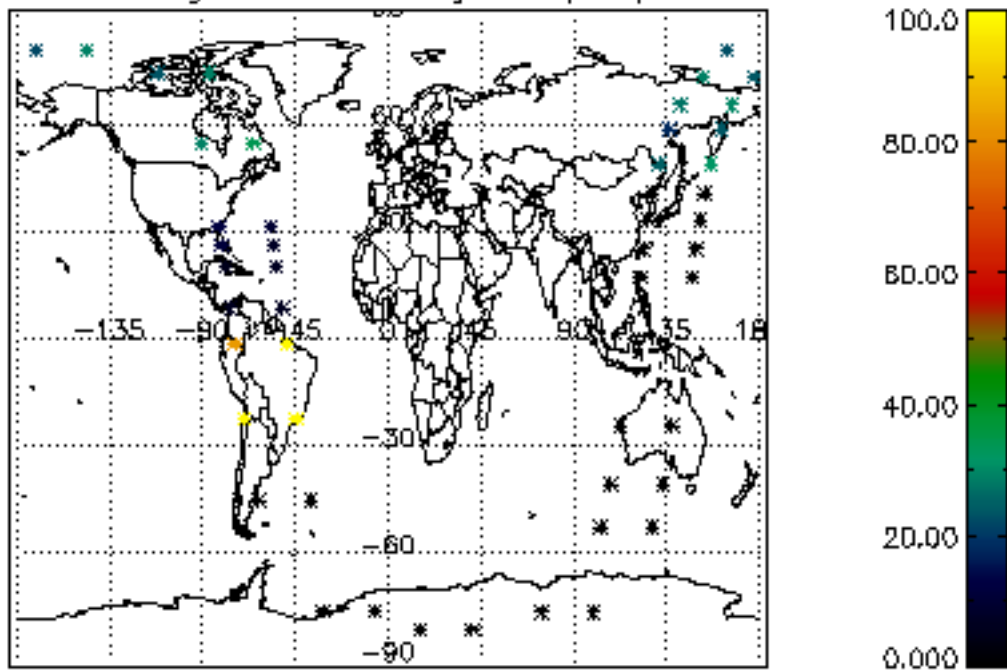




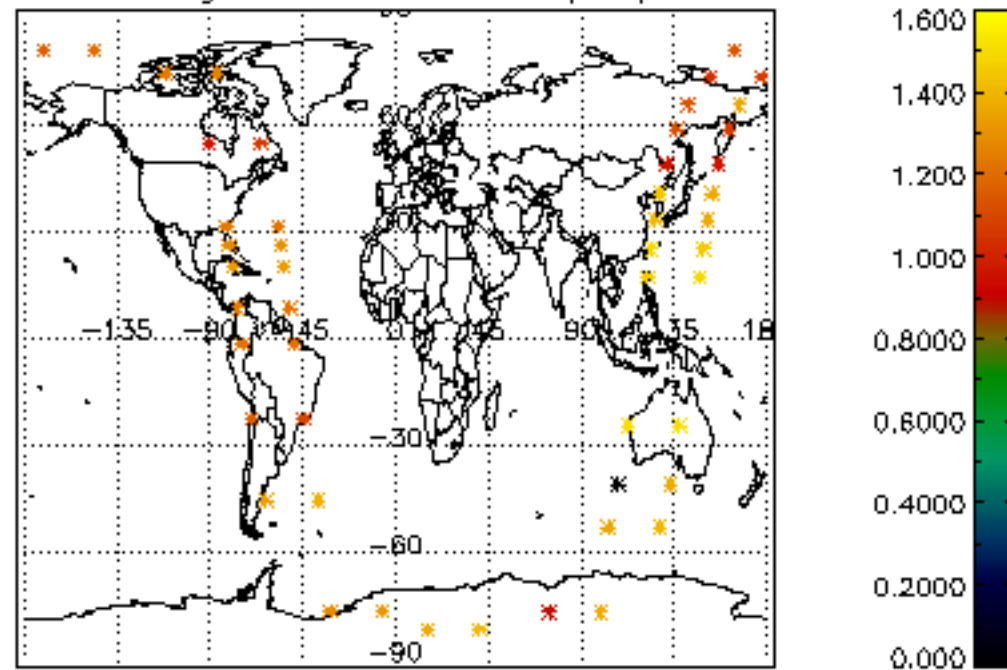




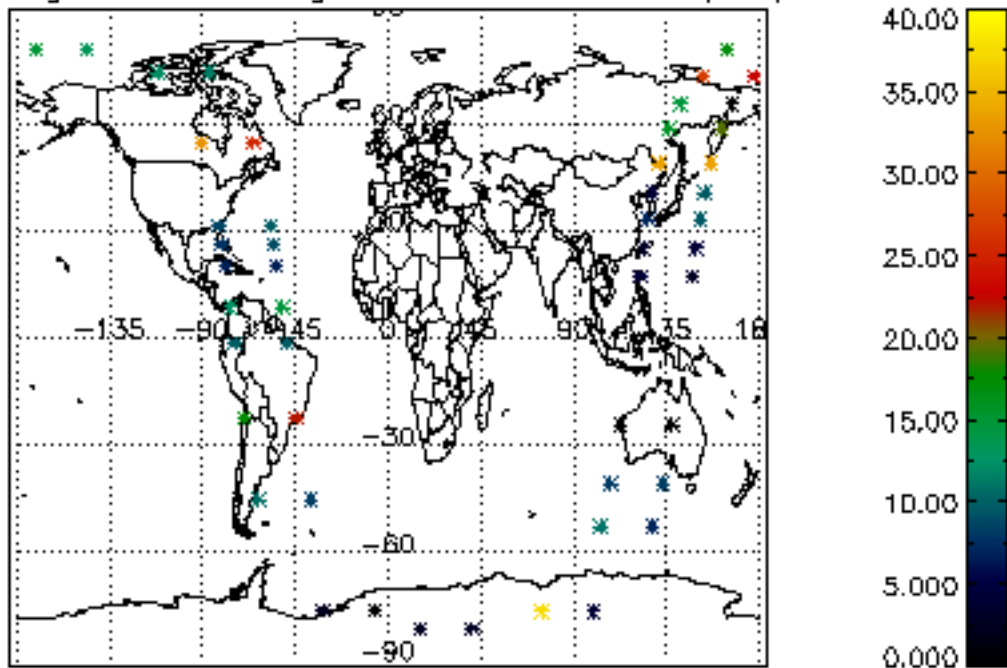
Percentage of cosmic ray hits per profile



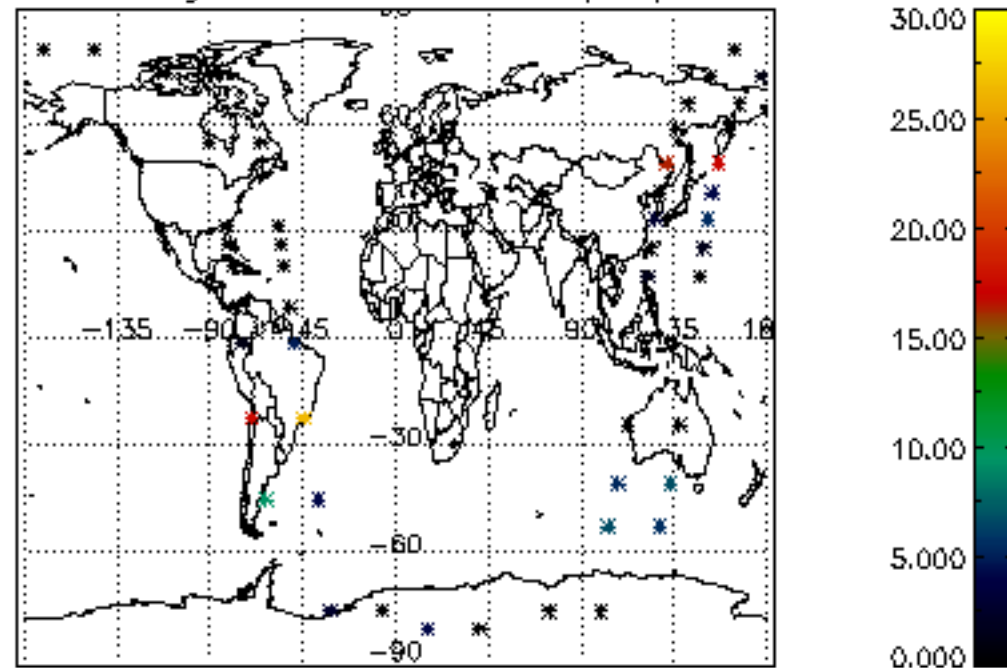
Percentage of datation errors per profile



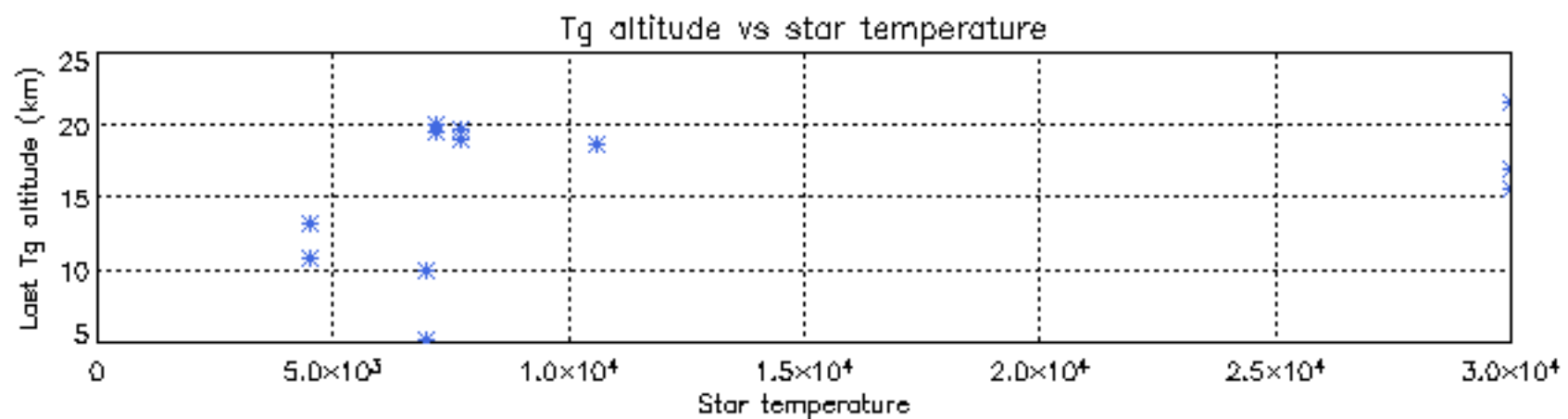
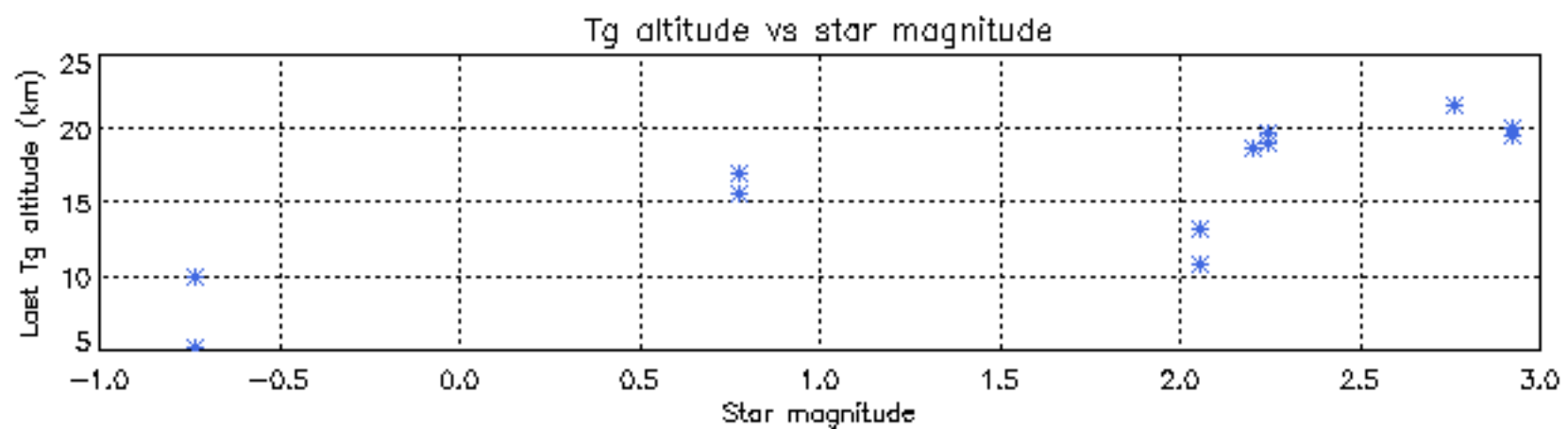
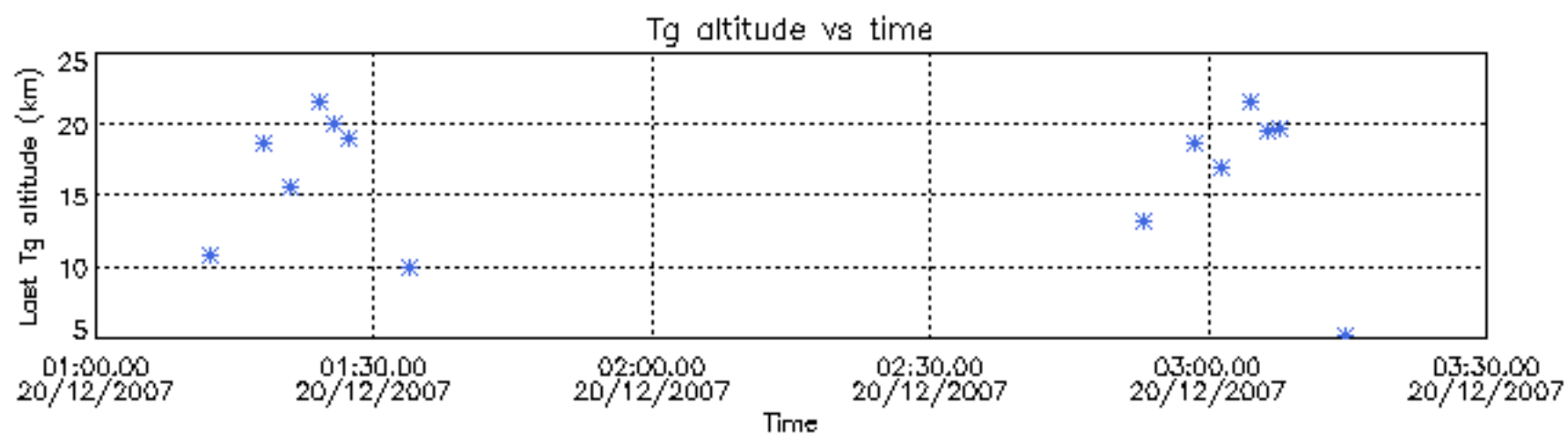
Percentage of star falling outside central band per profile



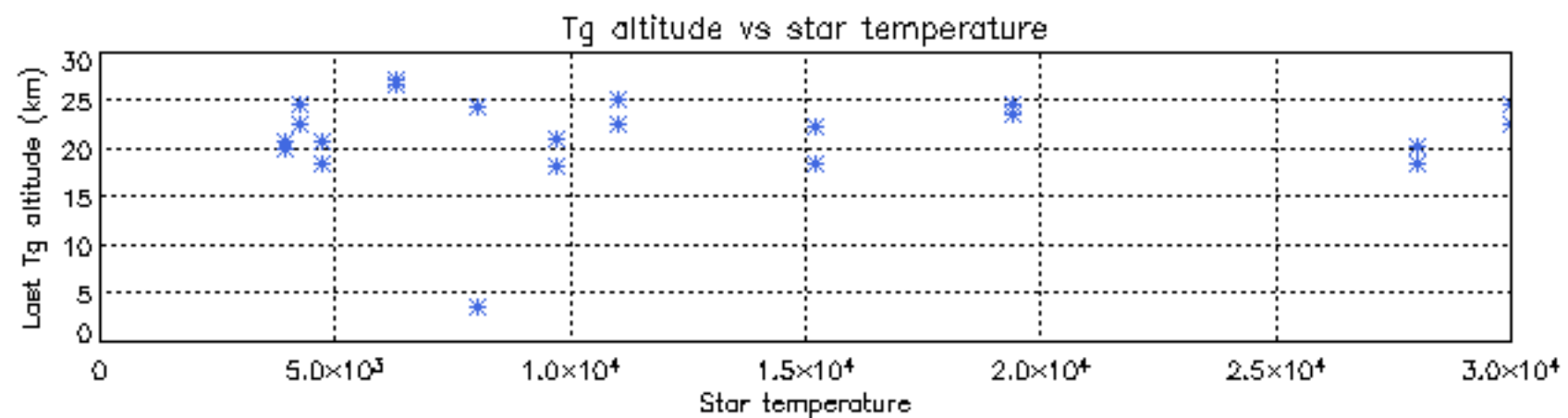
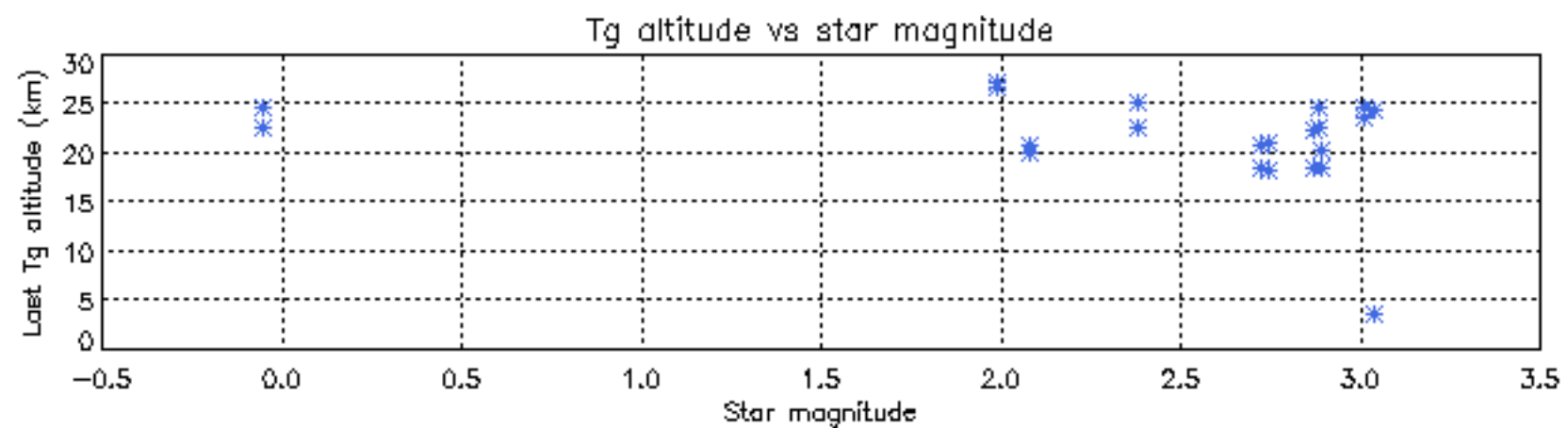
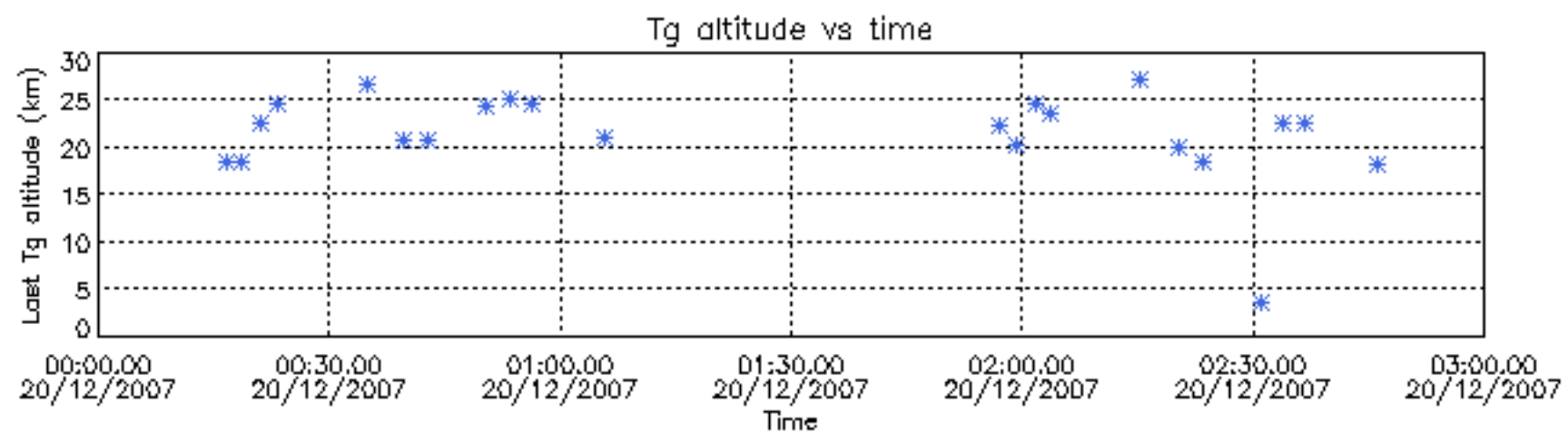
Percentage of saturation errors per profile

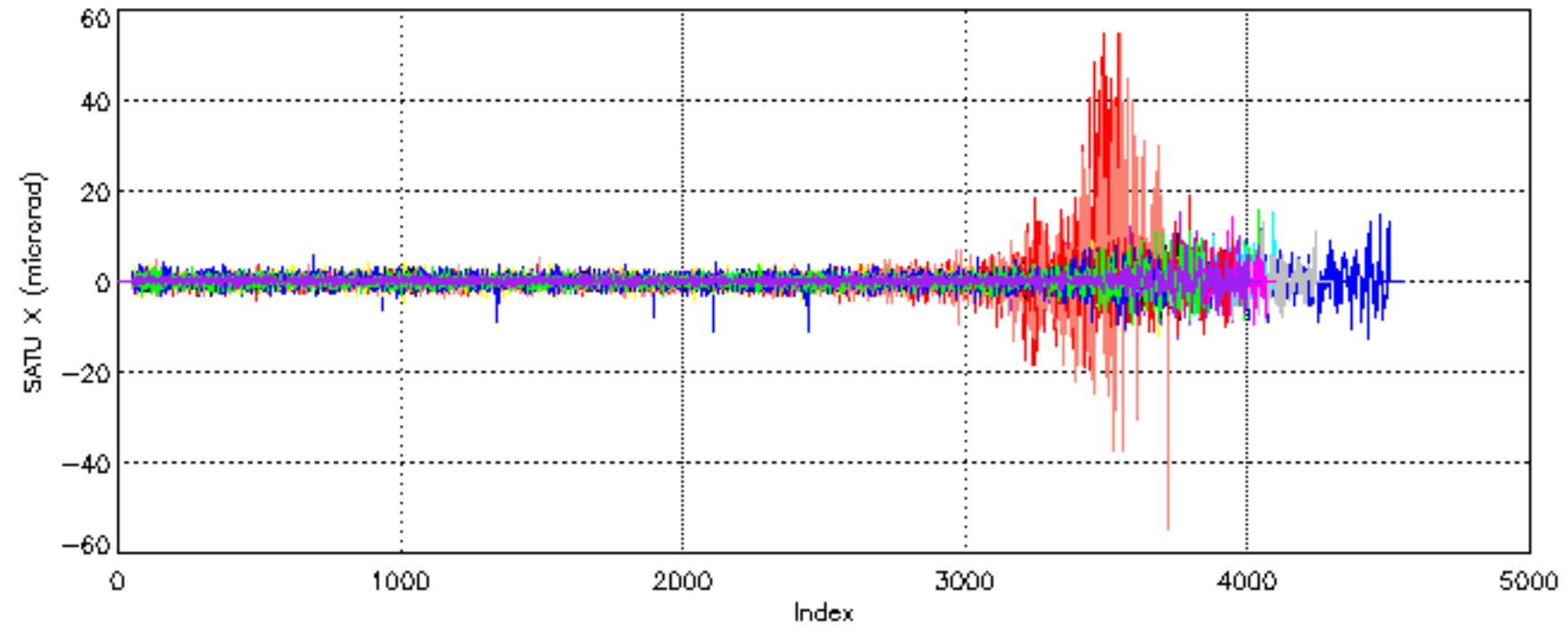


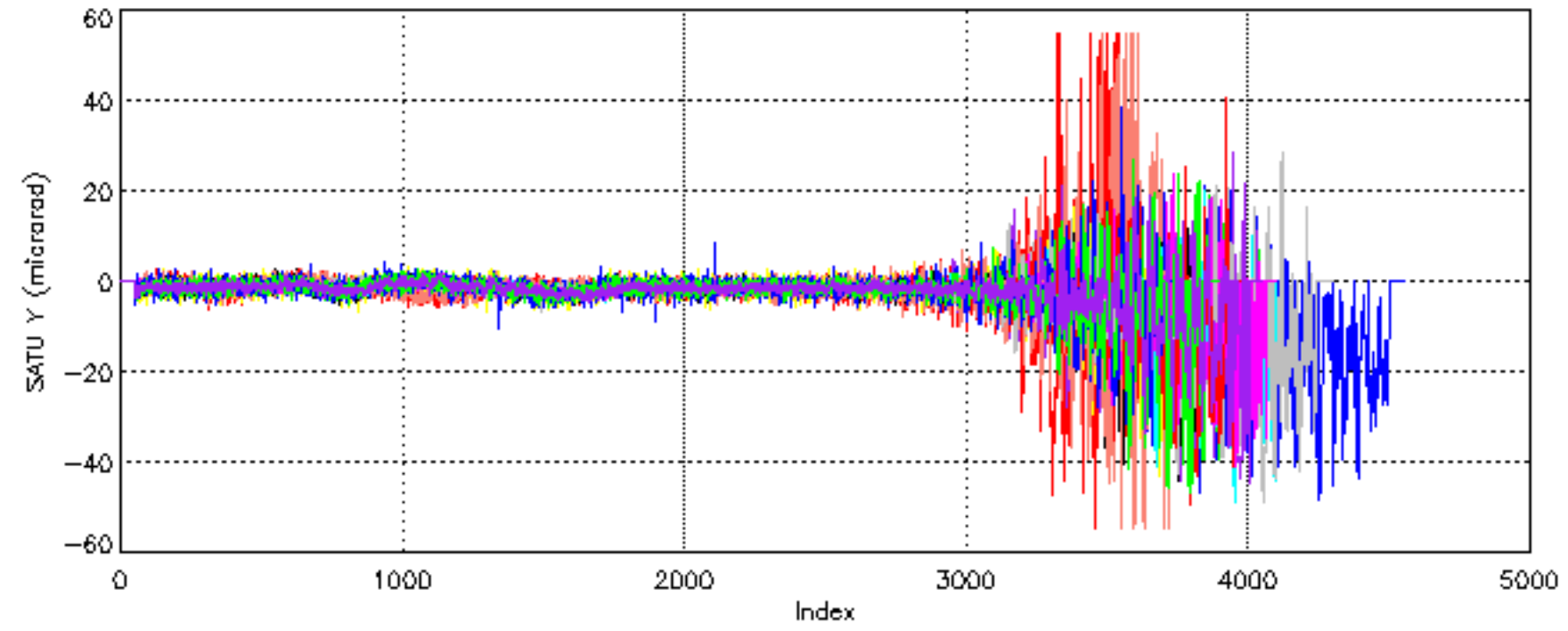
Tangent altitude at which the star is lost

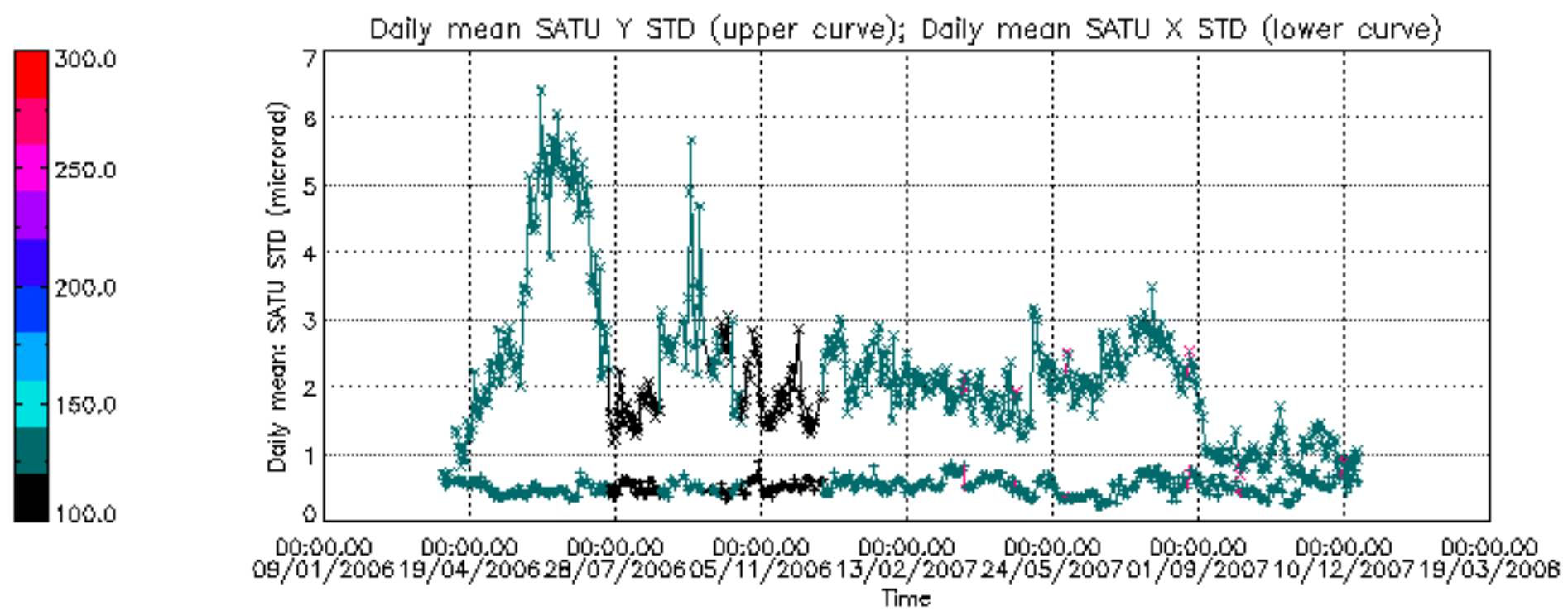


Tangent altitude at which the star is lost









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 3; -537.4; 01-DEC-2007 01:05:58; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;30073
 4; -145.2; 01-DEC-2007 01:12:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30073
 5; -46.6; 01-DEC-2007 01:14:09; Dark ; 53.0; 26; Gam Cru ; 1.62; 2900;occ; 106; 0;30073
 6; 83.1; 01-DEC-2007 01:16:18; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30074
 7; 202.5; 01-DEC-2007 01:18:18; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30074
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 9; 481.6; 01-DEC-2007 01:22:57; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30074
 10; 803.9; 01-DEC-2007 01:28:19; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;30074
 11; 1658.7; 01-DEC-2007 01:42:34; Dark ; 44.0; 165; 34Gam Eri ; 2.95; 3200;occ; 88; 0;30074
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 13; 2330.0; 01-DEC-2007 01:53:45; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;30074
 14; 2472.4; 01-DEC-2007 01:56:08; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30074
 15; 2605.6; 01-DEC-2007 01:58:21; Bright; 34.0; 79; 26Bet Per ; 2.31; 13100;occ; 68; 0;30074
 16; 2739.4; 01-DEC-2007 02:00:35; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;30074
 17; 2818.6; 01-DEC-2007 02:01:54; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;30074
 18; 3421.9; 01-DEC-2007 02:11:57; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30074

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 4; -1723.4; 01-DEC-2007 02:26:48; Bright; 52.0; 180; 27Gam Boo ; 3.04; 8000;occ; 104; 0;30074
 5; -1391.6; 01-DEC-2007 02:32:20; Bright; 34.0; 3; 16Alp Boo ; -0.05; 4250;occ; 68; 0;30074
 6; -1178.1; 01-DEC-2007 02:35:53; Bright; 39.5; 138; 47Eps Vir ; 2.83; 4700;occ; 79; 0;30074
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 19; 1980.5; 01-DEC-2007 03:28:32; Dark ; 42.5; 94; 92Alp Cet ; 2.53; 3100;occ; 85; 0;30075
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 21; 2472.2; 01-DEC-2007 03:36:43; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;30075
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 23; 2739.4; 01-DEC-2007 03:41:10; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;30075
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 9; -536.2; 01-DEC-2007 04:27:11; Dark ; 41.5; 106; 9Bet Crv ; 2.65; 5600;occ; 83; 0;30075
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 11; -144.0; 01-DEC-2007 04:33:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30075
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 13; 84.5; 01-DEC-2007 04:37:32; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;30076
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26; 3701.8; 01-DEC-2007 05:37:49; Bright; 9.0; 60; 7Bet UMi ; 2.08; 3950;occ; 18; 0;30076
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14; 203.7; 01-DEC-2007 06:20:07; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30077
15; 370.9; 01-DEC-2007 06:22:54; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30077
16; 483.5; 01-DEC-2007 06:24:47; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;30077
17; 805.4; 01-DEC-2007 06:30:09; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;30077
18; 1659.1; 01-DEC-2007 06:44:22; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;30077
19; 1980.7; 01-DEC-2007 06:49:44; Dark ; 43.0; 94; 92Alp Cet ; 2.53; 3100;occ; 86; 0;30077
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21; 2471.7; 01-DEC-2007 06:57:55; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;30077
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23; 2738.8; 01-DEC-2007 07:02:22; Bright; 35.5; 175; 39Del Per ; 3.01; 19400;occ; 71; 0;30077
24; 2818.5; 01-DEC-2007 07:03:42; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;30077
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 6;-1177.0; 01-DEC-2007 07:37:42; Bright; 39.0; 138; 47Eps Vir ; 2.83; 4700;occ; 78; 0;30077
 7; -829.8; 01-DEC-2007 07:43:29; Bright; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;30077
 8; -632.7; 01-DEC-2007 07:46:46; Dark ; 43.5; 163; 7Del Crv ; 2.94; 11000;occ; 87; 0;30077
 9; -534.8; 01-DEC-2007 07:48:24; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0;30077
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13; 86.1; 01-DEC-2007 07:58:45; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30078
14; 204.2; 01-DEC-2007 08:00:43; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;30078
15; 371.3; 01-DEC-2007 08:03:30; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30078
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 22; 6563.5; 11-DEC-2007 19:35:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30227
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 24; 6913.3; 11-DEC-2007 19:41:46; Dark ; 26.5; 2; Alp Car ; -0.74; 7000;occ; 53; 1;30227

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21;	3917.1;	27-DEC-2007	02:02:59;	Bright;	;	35.0;	119;	14Eta Dra	;	2.73;	4700;occ;	70;	0;	30446
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24;	4869.5;	27-DEC-2007	02:18:52;	Bright;	;	33.5;	102;	24Alp Ser	;	2.60;	4250;occ;	67;	0;	30446
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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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 23; 6415.6; 27-DEC-2007 17:50:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30455
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 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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 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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