

GOMOS Daily Report 09-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	11DEC2007 06:13:58
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (09DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (10DEC2007 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)

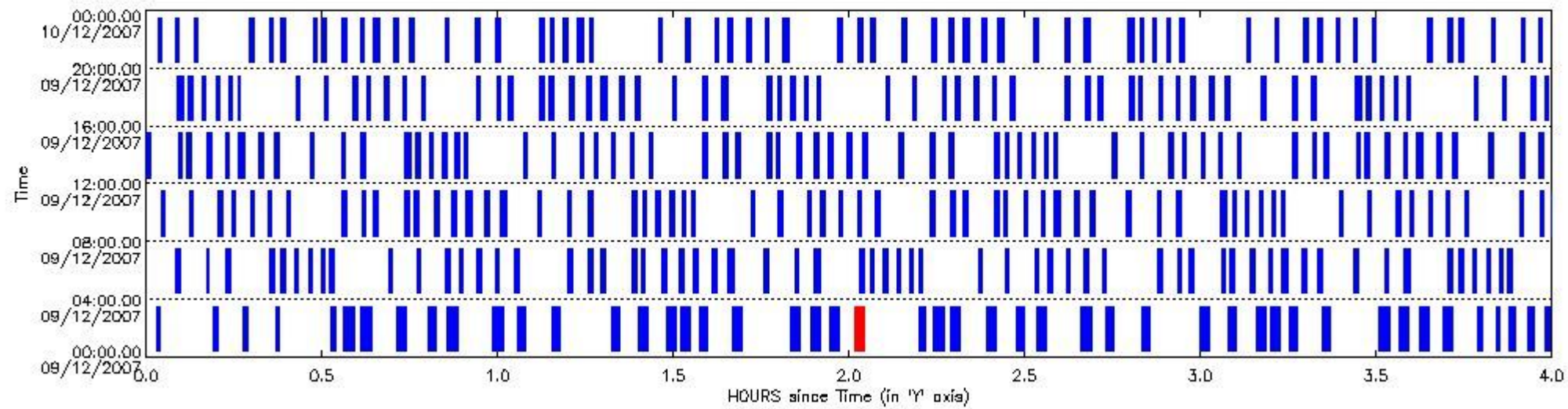
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

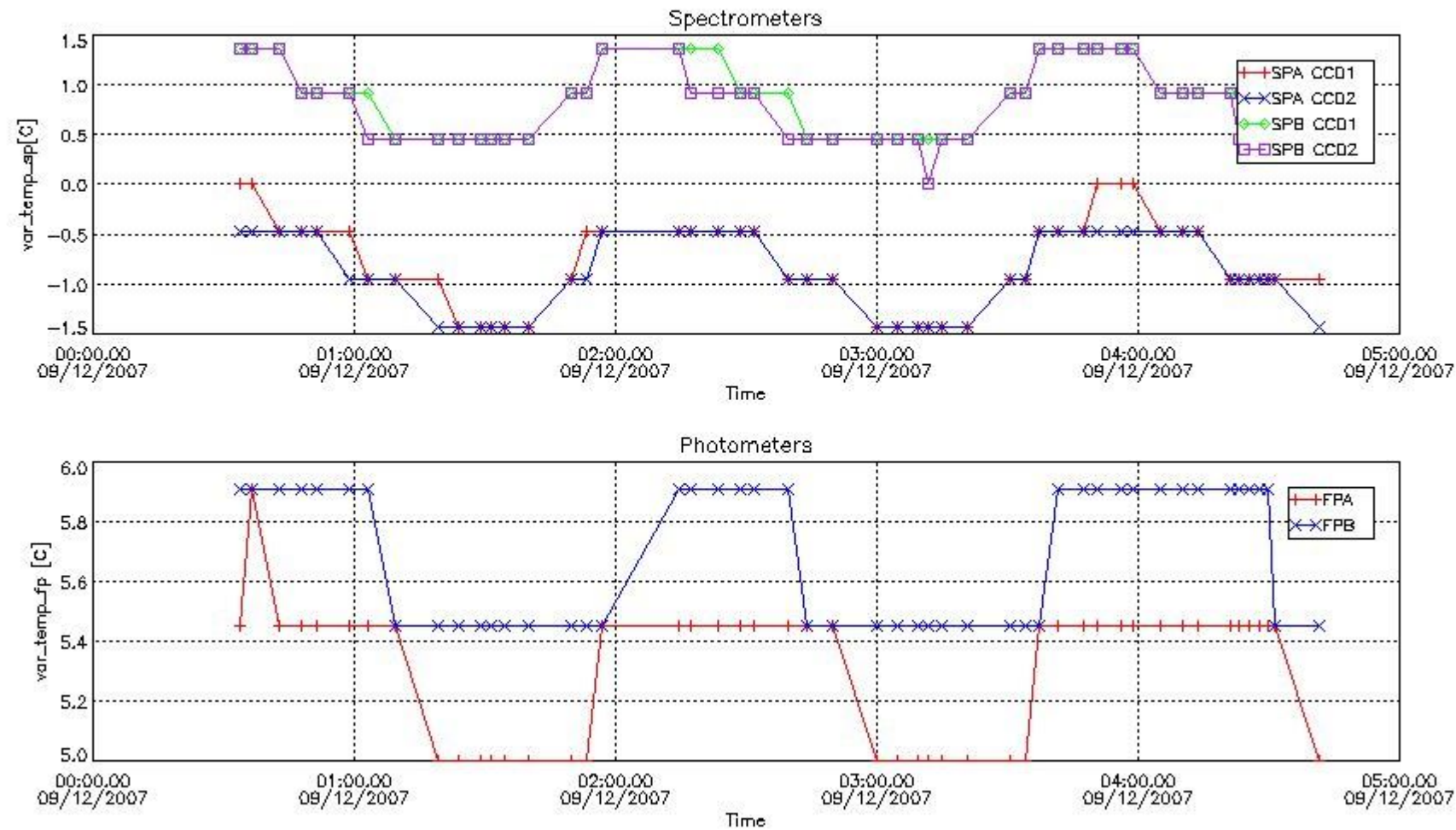
UTC start time	Star name	Star ID	Orbit
09-DEC-2007 02:00:55	GamCen	64	30188

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_1PNPDE20071209_003345_000001102064_00074_30188_9664.N1	09-DEC-2007 00:33:45	Dark	109.50	34	Gam2Vel	1.7930	23000.	219	30188	No
2	GOM_TRA_1PNPDE20071209_003637_000001102064_00074_30188_8612.N1	09-DEC-2007 00:36:37	Dark	110.00	2	Alp Car	-0.73600	7000.0	220	30188	No
3	GOM_TRA_1PNPDE20071209_004247_000001022064_00074_30188_9666.N1	09-DEC-2007 00:42:47	Dark	101.50	108	Alp Col	2.6520	15200.	203	30188	No
4	GOM_TRA_1PNPDE20071209_004801_000000822064_00074_30188_9667.N1	09-DEC-2007 00:48:01	Straylight	82.000	101	11Alp Lep	2.5820	7000.0	164	30188	No
5	GOM_TRA_1PNPDE20071209_005119_000001112064_00074_30188_9668.N1	09-DEC-2007 00:51:19	Straylight	111.00	7	19Bet Ori	0.10000	14000.	222	30188	No
6	GOM_TRA_1PNPDE20071209_005859_000001132064_00074_30188_9669.N1	09-DEC-2007 00:58:59	Bright	113.00	13	87Alp Tau	0.86700	3800.0	226	30188	No
7	GOM_TRA_1PNPDE20071209_010315_000000862064_00074_30188_9670.N1	09-DEC-2007 01:03:15	Bright	85.500	150	44Zet Per	2.8900	28000.	171	30188	No
8	GOM_TRA_1PNPDE20071209_010918_000000852064_00074_30188_9671.N1	09-DEC-2007 01:09:18	Bright	84.500	160	23Gam Per	2.9300	4700.0	169	30188	No
9	GOM_TRA_1PNPDE20071209_011922_000000882064_00074_30188_9672.N1	09-DEC-2007 01:19:22	Bright	87.500	49	1Alp UMi	1.9900	6300.0	175	30188	No
10	GOM_TRA_1PNPDE20071209_012405_000000882064_00074_30188_9673.N1	09-DEC-2007 01:24:05	Bright	88.000	60	7Bet UMi	2.0810	3950.0	176	30188	No

11	GOM_TRA_1PNPDE20071209_012856_00000982064_00074_30188_8621.N1	09-DEC-2007 01:28:56	Bright	98.000	32	77Eps UMa	1.7630	11000.	196	30188	No
12	GOM_TRA_1PNPDE20071209_013118_00000962064_00074_30188_9675.N1	09-DEC-2007 01:31:18	Bright	96.000	39	85Eta UMa	1.8540	24000.	192	30188	No
13	GOM_TRA_1PNPDE20071209_013427_00000862064_00074_30188_9676.N1	09-DEC-2007 01:34:27	Bright	86.000	180	27Gam Boo	3.0400	8000.0	172	30188	No
14	GOM_TRA_1PNPDE20071209_014007_00000872064_00074_30188_9677.N1	09-DEC-2007 01:40:07	Bright	86.500	3	16Alp Boo	-0.050000	4250.0	173	30188	No
15	GOM_TRA_1PNPDE20071209_014955_000001022064_00074_30188_8762.N1	09-DEC-2007 01:49:55	Bright	101.50	15	67Alp Vir	0.97600	28000.	203	30188	No
16	GOM_TRA_1PNPDE20071209_015323_00000992064_00074_30188_8763.N1	09-DEC-2007 01:53:23	Twilight	98.500	169	46Gam Hya	2.9910	4700.0	197	30188	No
17	GOM_TRA_1PNPDE20071209_015648_00000922064_00074_30188_8764.N1	09-DEC-2007 01:56:48	Dark	92.000	123	lot Cen	2.7500	10200.	184	30188	No
18	GOM_TRA_1PNPDE20071209_021422_000001122064_00075_30189_8765.N1	09-DEC-2007 02:14:22	Dark	111.50	34	Gam2Vel	1.7930	23000.	223	30189	No
19	GOM_TRA_1PNPDE20071209_021713_00000992064_00075_30189_8766.N1	09-DEC-2007 02:17:13	Dark	98.500	2	Alp Car	-0.73600	7000.0	197	30189	No
20	GOM_TRA_1PNPDE20071209_022323_000001002064_00075_30189_8767.N1	09-DEC-2007 02:23:23	Dark	99.500	108	Alp Col	2.6520	15200.	199	30189	No
21	GOM_TRA_1PNPDE20071209_022837_00000822064_00075_30189_8768.N1	09-DEC-2007 02:28:37	Straylight	82.000	101	11Alp Lep	2.5820	7000.0	164	30189	No
22	GOM_TRA_1PNPDE20071209_023155_000001112064_00075_30189_8769.N1	09-DEC-2007 02:31:55	Straylight	111.00	7	19Bet Ori	0.10000	14000.	222	30189	No
23	GOM_TRA_1PNPDE20071209_023935_000001112064_00075_30189_8770.N1	09-DEC-2007 02:39:35	Bright	111.00	13	87Alp Tau	0.86700	3800.0	222	30189	No
24	GOM_TRA_1PNPDE20071209_024350_00000882064_00075_30189_8771.N1	09-DEC-2007 02:43:50	Bright	87.500	150	44Zet Per	2.8900	28000.	175	30189	No
25	GOM_TRA_1PNPDE20071209_024954_00000842064_00075_30189_8772.N1	09-DEC-2007 02:49:54	Bright	84.000	160	23Gam Per	2.9300	4700.0	168	30189	No
26	GOM_TRA_1PNPDE20071209_025957_00000872064_00075_30189_8773.N1	09-DEC-2007 02:59:57	Bright	86.500	49	1Alp UMi	1.9900	6300.0	173	30189	No
27	GOM_TRA_1PNPDE20071209_030441_00000892064_00075_30189_8937.N1	09-DEC-2007 03:04:41	Bright	88.500	60	7Bet UMi	2.0810	3950.0	177	30189	No
28	GOM_TRA_1PNPDE20071209_030932_00000982064_00075_30189_8938.N1	09-DEC-2007 03:09:32	Bright	98.000	32	77Eps UMa	1.7630	11000.	196	30189	No
29	GOM_TRA_1PNPDE20071209_031154_00000942064_00075_30189_8939.N1	09-DEC-2007 03:11:54	Bright	94.000	39	85Eta UMa	1.8540	24000.	188	30189	No
30	GOM_TRA_1PNPDE20071209_031502_00000872064_00075_30189_8940.N1	09-DEC-2007 03:15:02	Bright	86.500	180	27Gam Boo	3.0400	8000.0	173	30189	No
31	GOM_TRA_1PNPDE20071209_032043_00000882064_00075_30189_8941.N1	09-DEC-2007 03:20:43	Bright	87.500	3	16Alp Boo	-0.050000	4250.0	175	30189	No
32	GOM_TRA_1PNPDE20071209_033031_000001012064_00075_30189_8942.N1	09-DEC-2007 03:30:31	Bright	101.00	15	67Alp Vir	0.97600	28000.	202	30189	No
33	GOM_TRA_1PNPDE20071209_033400_00000972064_00075_30189_8943.N1	09-DEC-2007 03:34:00	Twilight	96.500	169	46Gam Hya	2.9910	4700.0	193	30189	No
34	GOM_TRA_1PNPDE20071209_033725_00000912064_00075_30189_8944.N1	09-DEC-2007 03:37:25	Dark	91.000	123	lot Cen	2.7500	10200.	182	30189	No
35	GOM_TRA_1PNPDE20071209_034131_00000932064_00075_30189_8945.N1	09-DEC-2007 03:41:31	Dark	93.000	64	Gam Cen	2.2000	10600.	186	30189	No
36	GOM_TRA_1PNPDE20071209_034721_00000452064_00076_30190_8946.N1	09-DEC-2007 03:47:21	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	30190	No
37	GOM_TRA_1PNPDE20071209_035025_00000382064_00076_30190_8947.N1	09-DEC-2007 03:50:25	Dark	38.000	159	Ups Car	2.9200	7200.0	76	30190	No
38	GOM_TRA_1PNPDE20071209_035601_00000512064_00076_30190_8948.N1	09-DEC-2007 03:56:01	Dark	51.000	34	Gam2Vel	1.7930	23000.	102	30190	No
39	GOM_TRA_1PNPDE20071209_035844_00000492064_00076_30190_8949.N1	09-DEC-2007 03:58:44	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	30190	No
40	GOM_TRA_1PNPDE20071209_040457_00000432064_00076_30190_8950.N1	09-DEC-2007 04:04:57	Dark	43.000	108	Alp Col	2.6520	15200.	86	30190	No
41	GOM_TRA_1PNPDE20071209_041014_00000282064_00076_30190_8951.N1	09-DEC-2007 04:10:14	Straylight	28.000	101	11Alp Lep	2.5820	7000.0	56	30190	No
42	GOM_TRA_1PNPDE20071209_041331_00000542064_00076_30190_8952.N1	09-DEC-2007 04:13:31	Straylight	54.000	7	19Bet Ori	0.10000	14000.	108	30190	No
43	GOM_TRA_1PNPDE20071209_042107_00000502064_00076_30190_8953.N1	09-DEC-2007 04:21:07	Bright	49.500	13	87Alp Tau	0.86700	3800.0	99	30190	No
44	GOM_TRA_1PNPDE20071209_042302_00000352064_00076_30190_8954.N1	09-DEC-2007 04:23:02	Bright	35.000	146	25Eta Tau	2.8730	15200.	70	30190	No
45	GOM_TRA_1PNPDE20071209_042517_00000372064_00076_30190_8955.N1	09-DEC-2007 04:25:17	Bright	37.000	150	44Zet Per	2.8900	28000.	74	30190	No
46	GOM_TRA_1PNPDE20071209_042739_00000362064_00076_30190_8956.N1	09-DEC-2007 04:27:39	Bright	35.500	149	45Eps Per	2.8880	30000.	71	30190	No
47	GOM_TRA_1PNPDE20071209_042946_00000352064_00076_30190_8957.N1	09-DEC-2007 04:29:46	Bright	35.000	175	39Del Per	3.0100	19400.	70	30190	No
48	GOM_TRA_1PNPDE20071209_043120_00000362064_00076_30190_8958.N1	09-DEC-2007 04:31:20	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	30190	No
49	GOM_TRA_1PNPDE20071209_044125_00000362064_00076_30190_8959.N1	09-DEC-2007 04:41:25	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30190	No

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



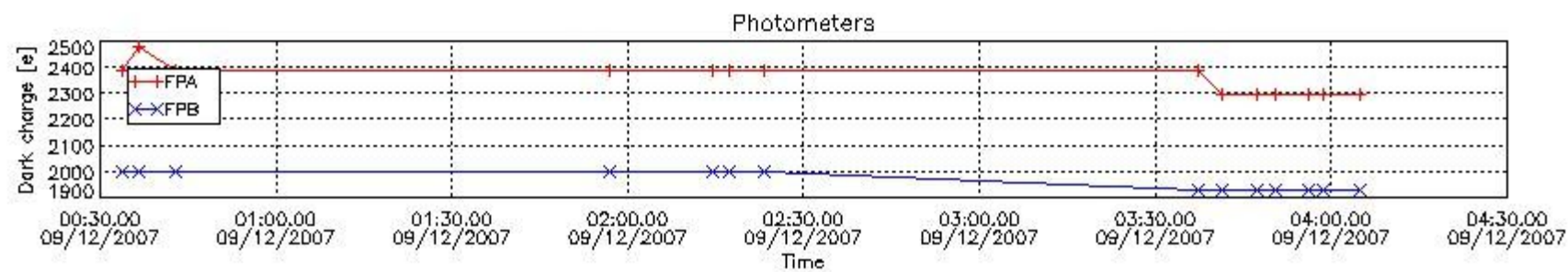
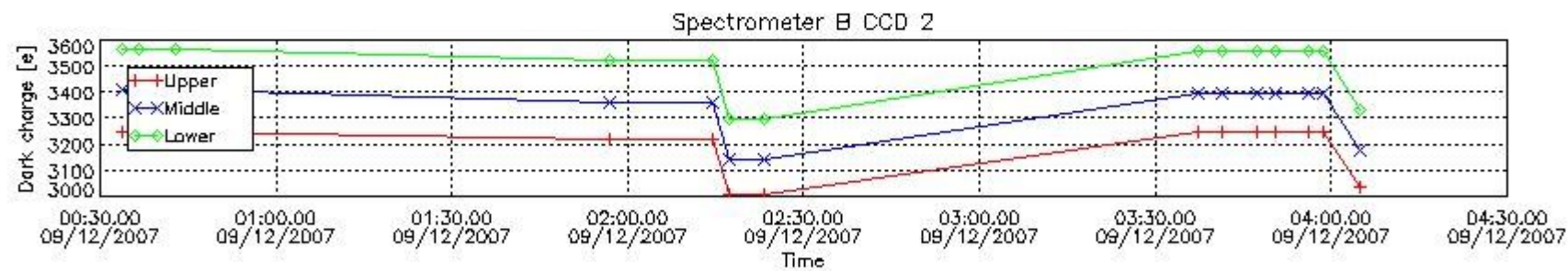
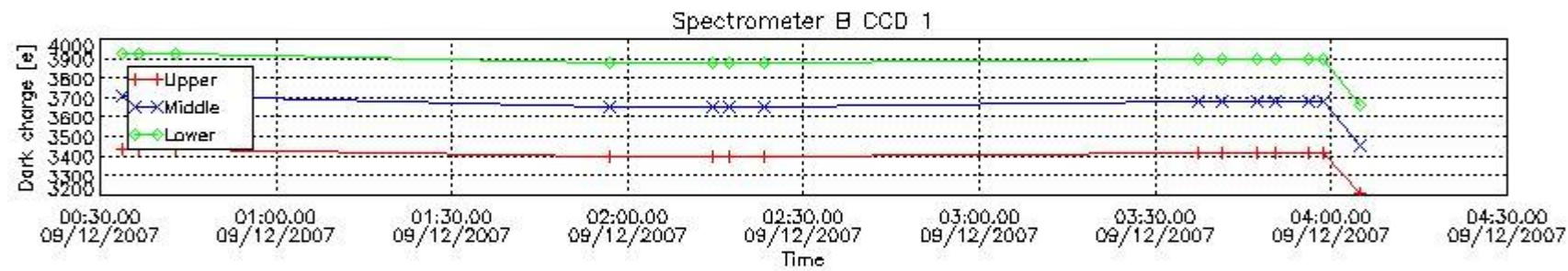
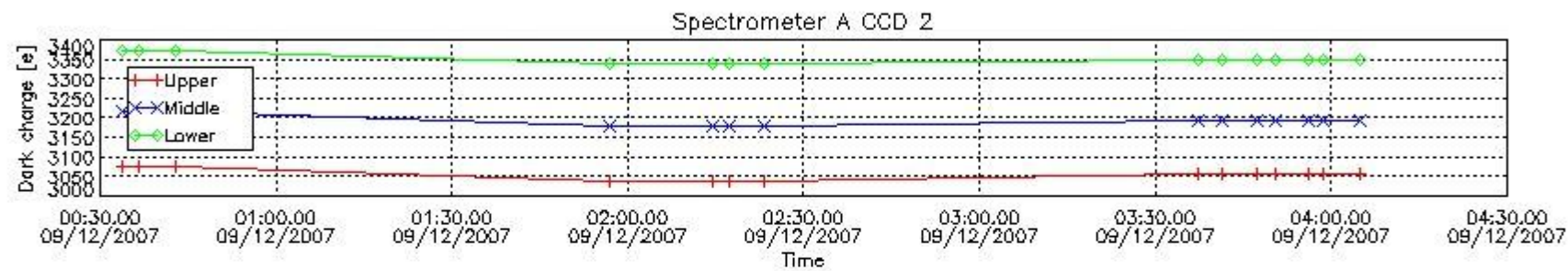
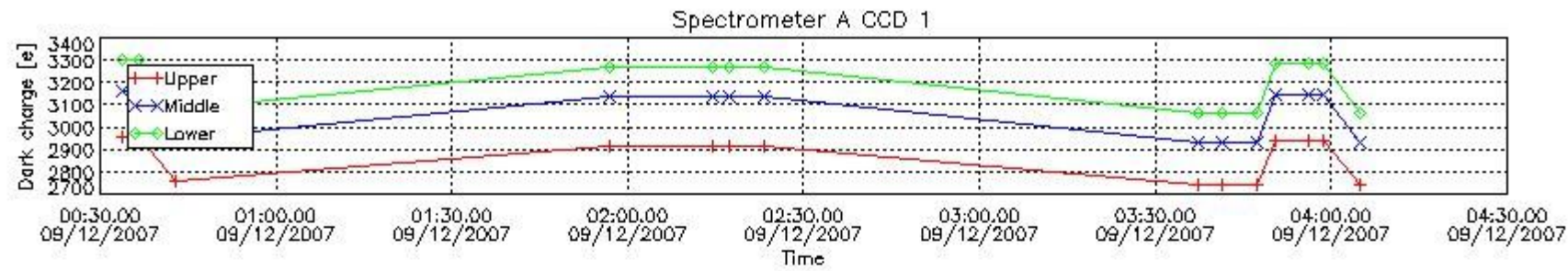
4. Overview of dark signal processing per product

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



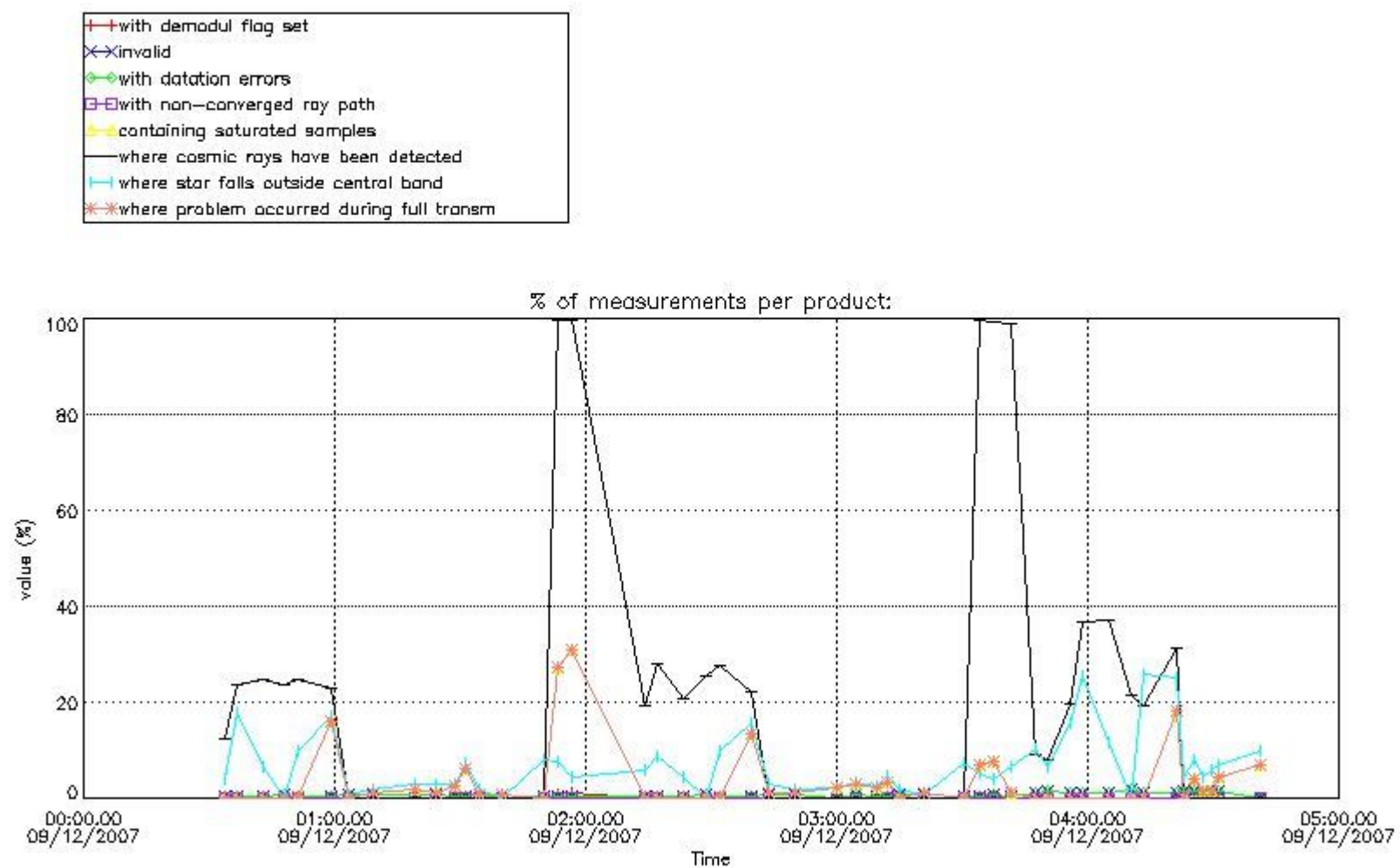
5. Demodulation flag and quality information monitoring

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.

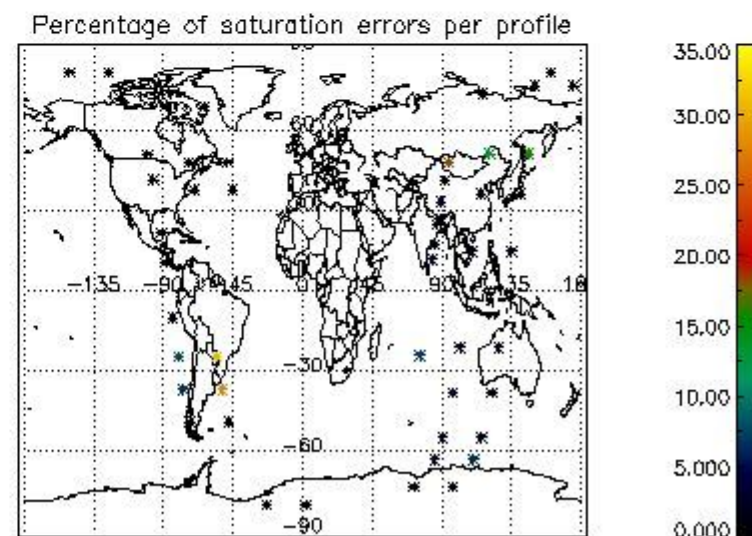
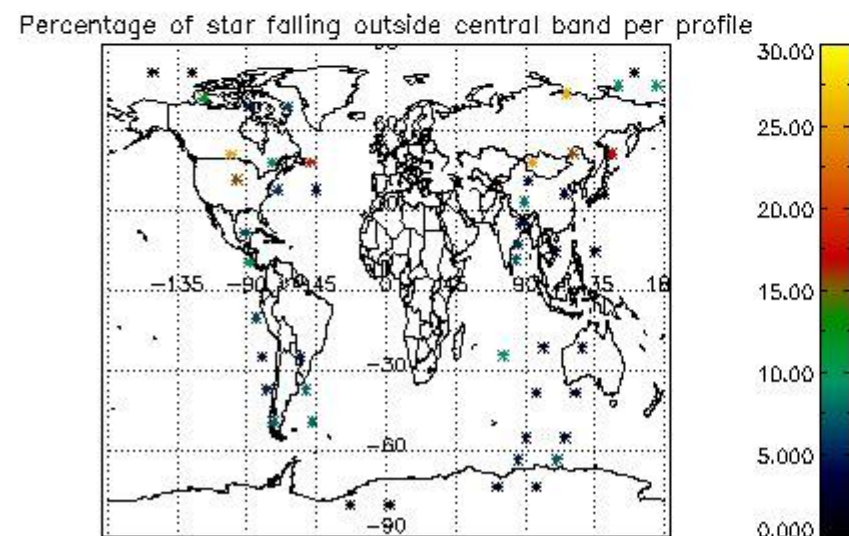
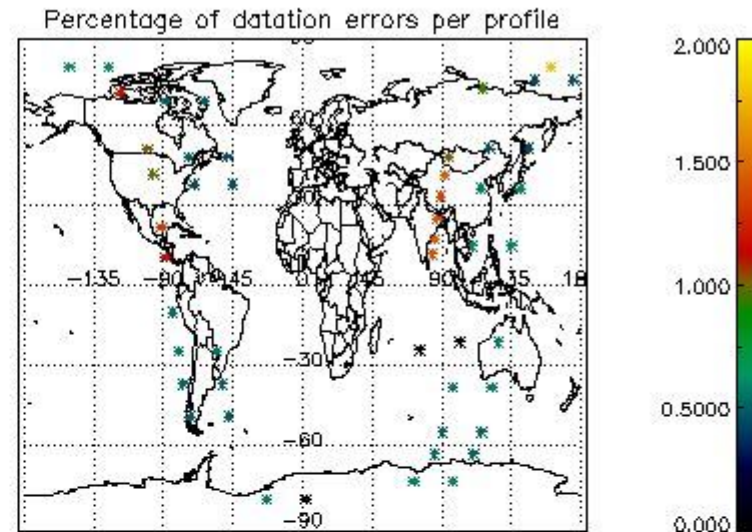
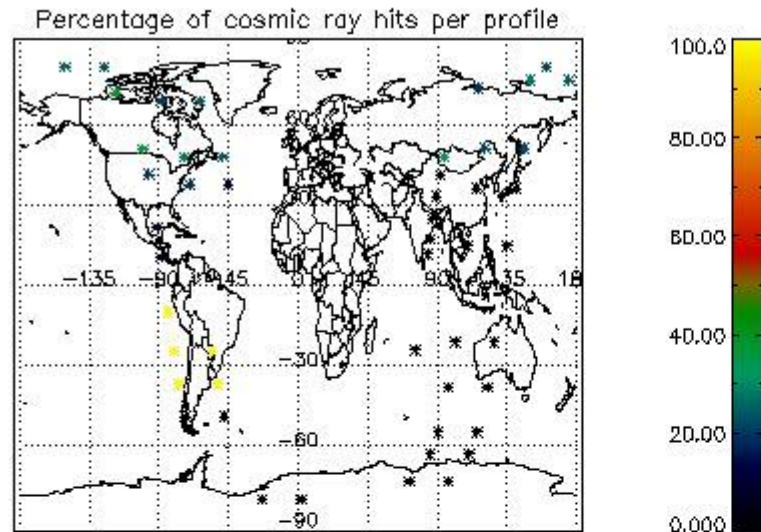
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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)



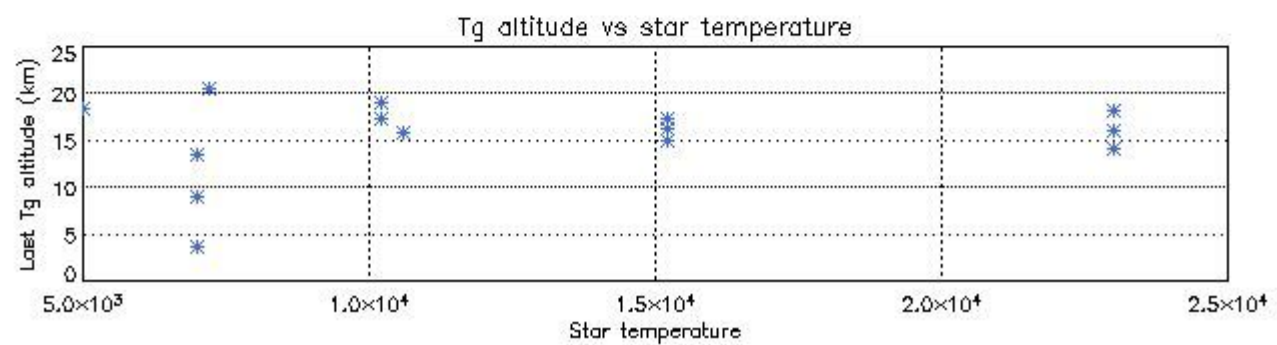
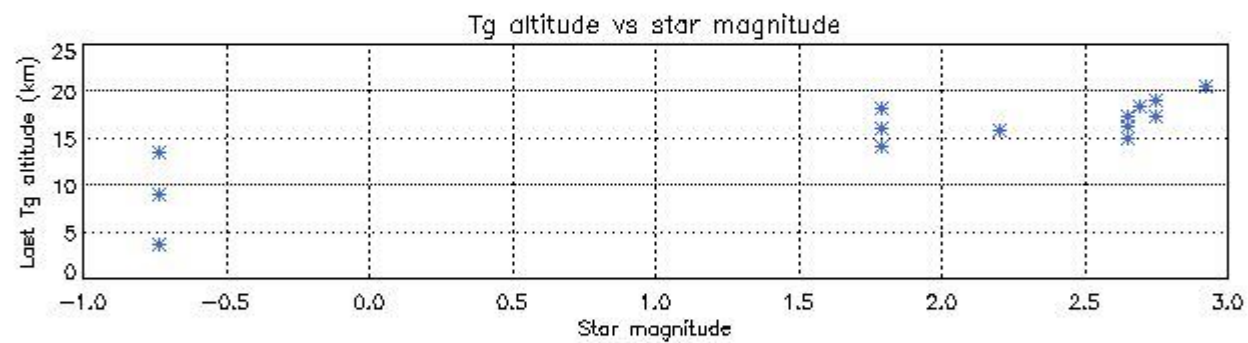
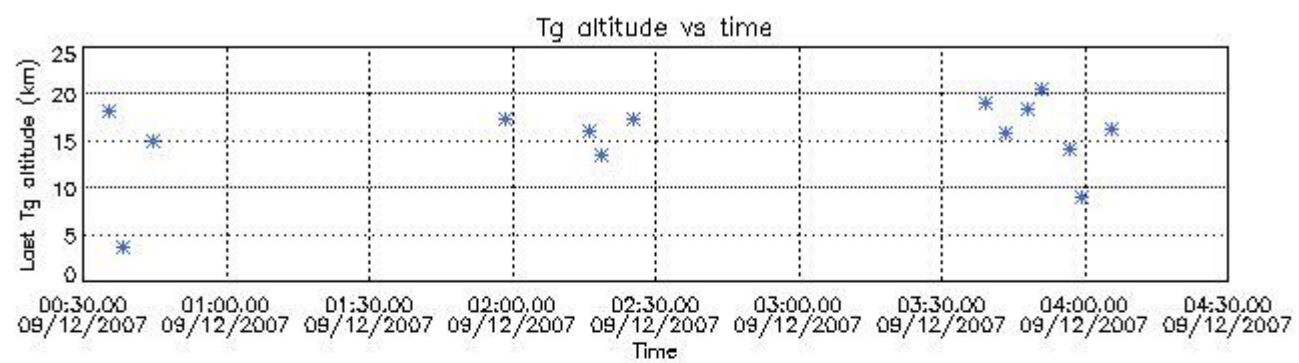
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.272	19.380	NaN
St. deviation:	4.3635	5.6155	NaN
Maximum:	20.504	25.880	NaN
Minimum:	3.7010	5.0737	NaN
Number of data:	14.000	27.000	NaN

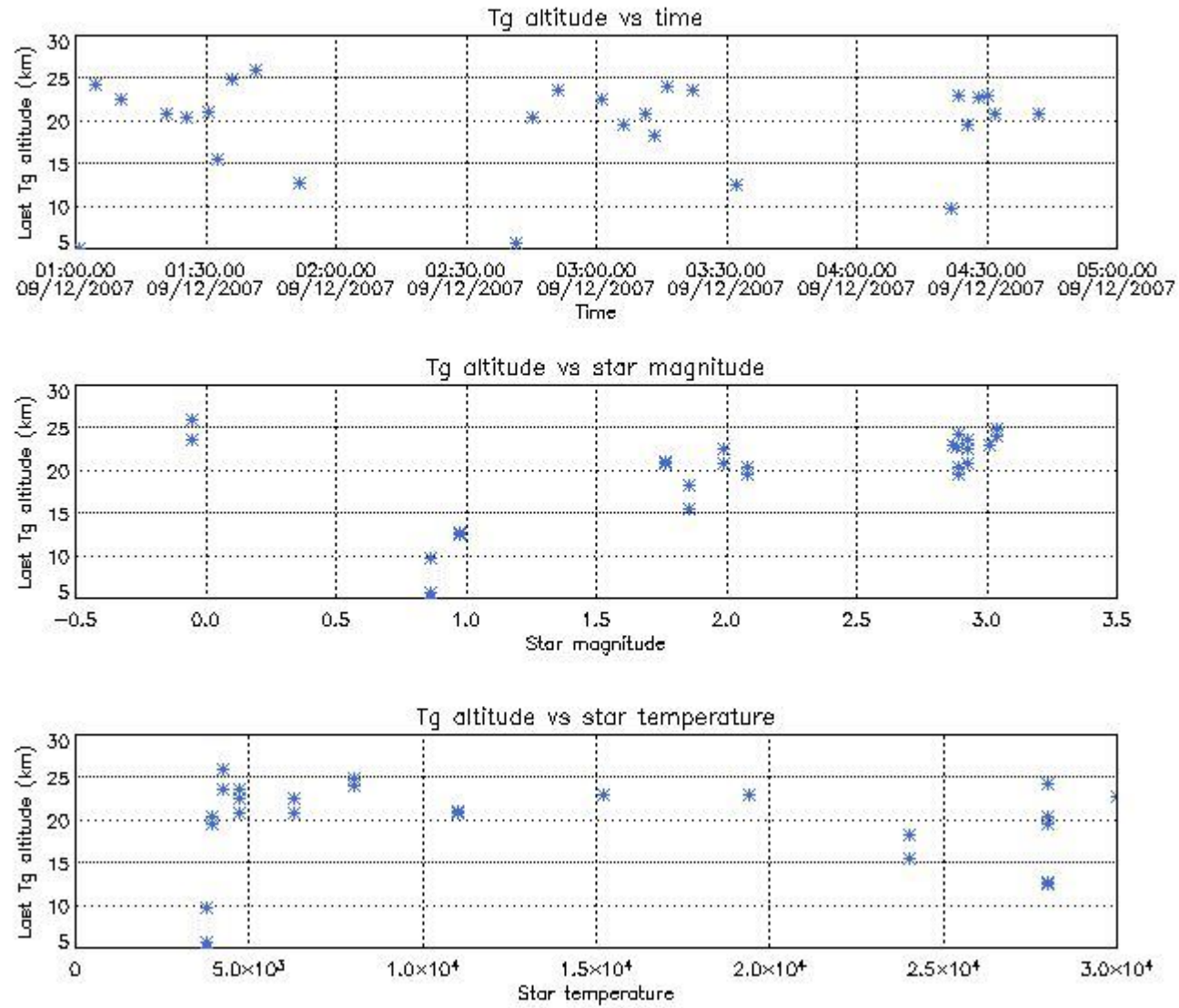
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

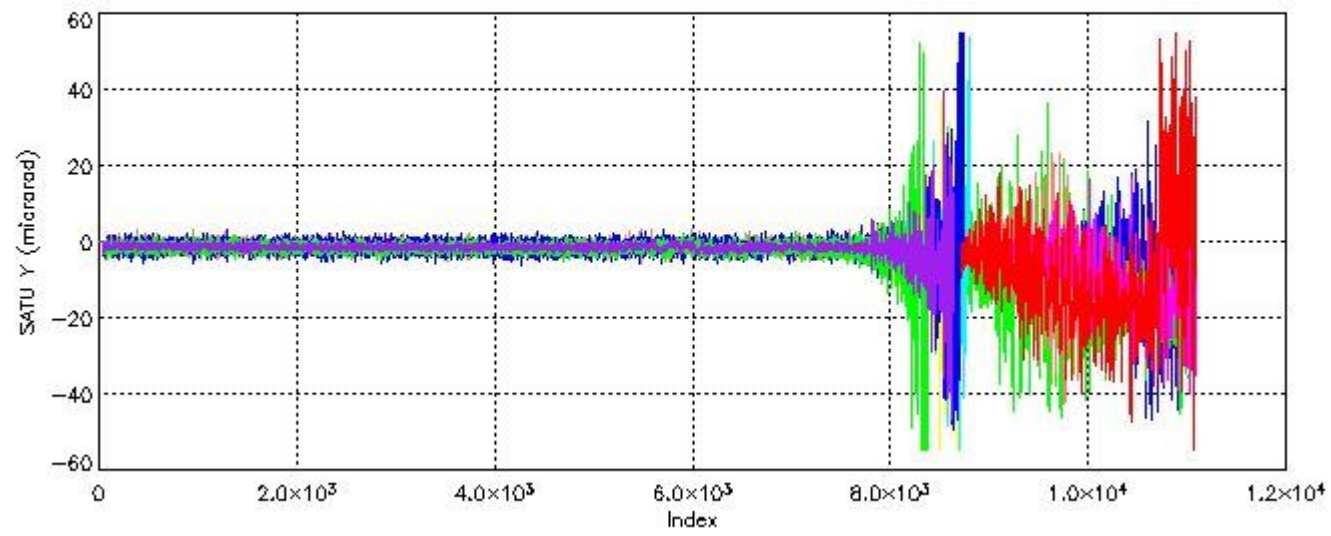
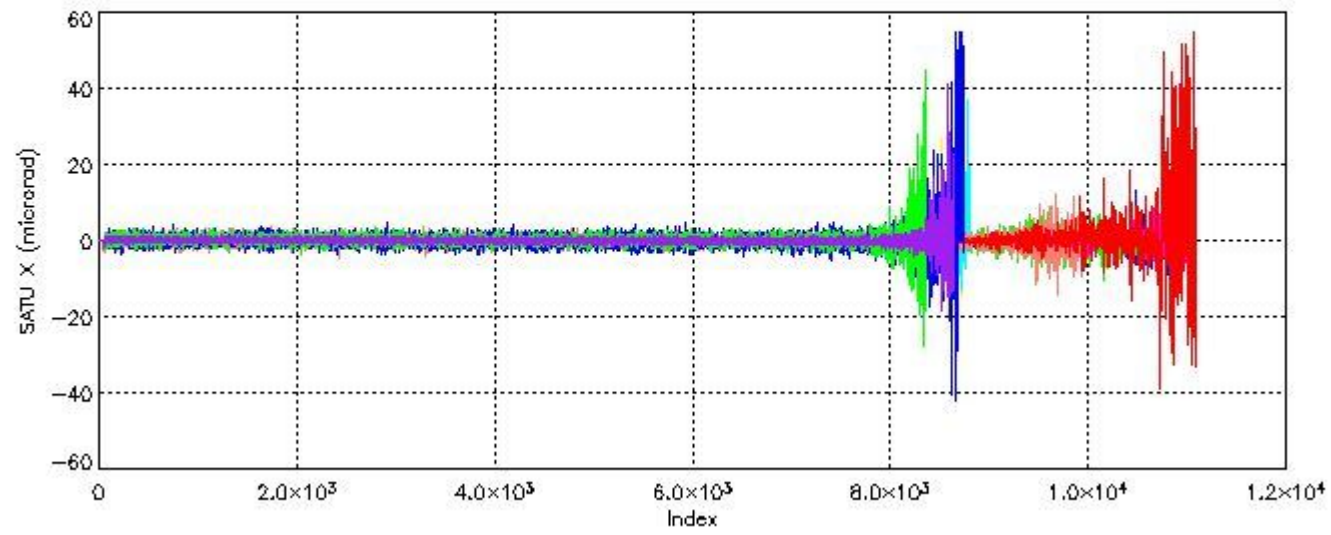


7. Star Acquisition and Tracking Unit (SATU)

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:	0.11379	-1.2965	0.086799	-1.4338
St. deviation:	0.68138	0.85104	0.75507	0.87625
Maximum:	39.400	31.000	6.0000	4.8000
Minimum:	-12.700	-20.100	-6.0000	-7.4000

Number of data:	63750.	63750.	1.2905E+05	1.2905E+05
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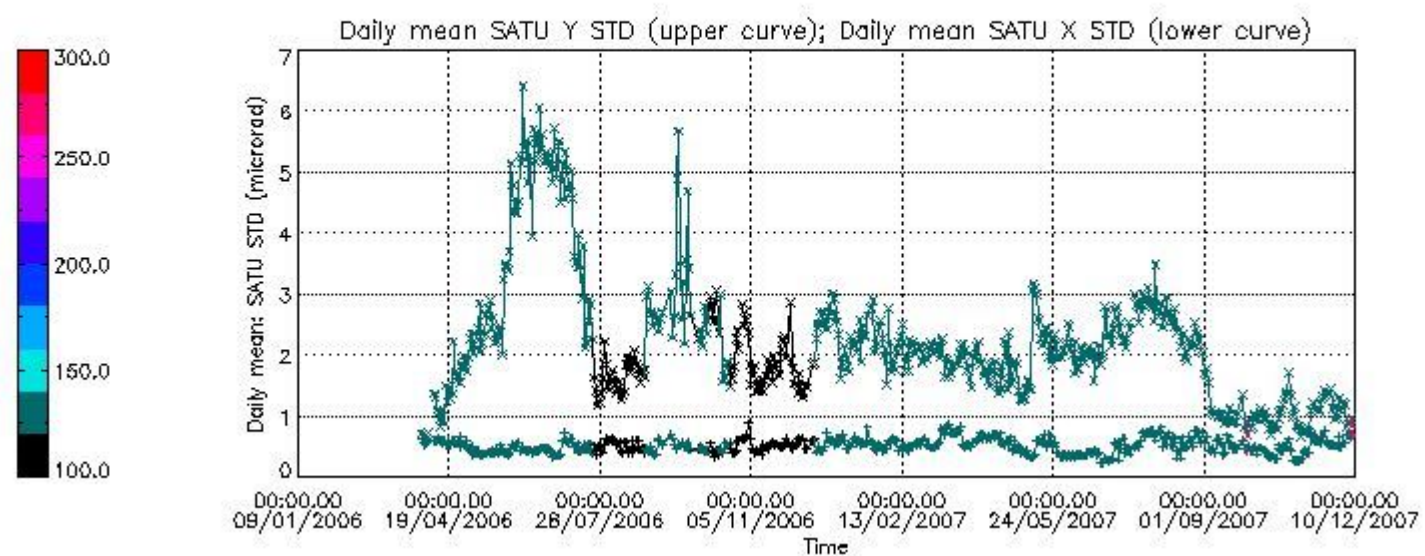
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

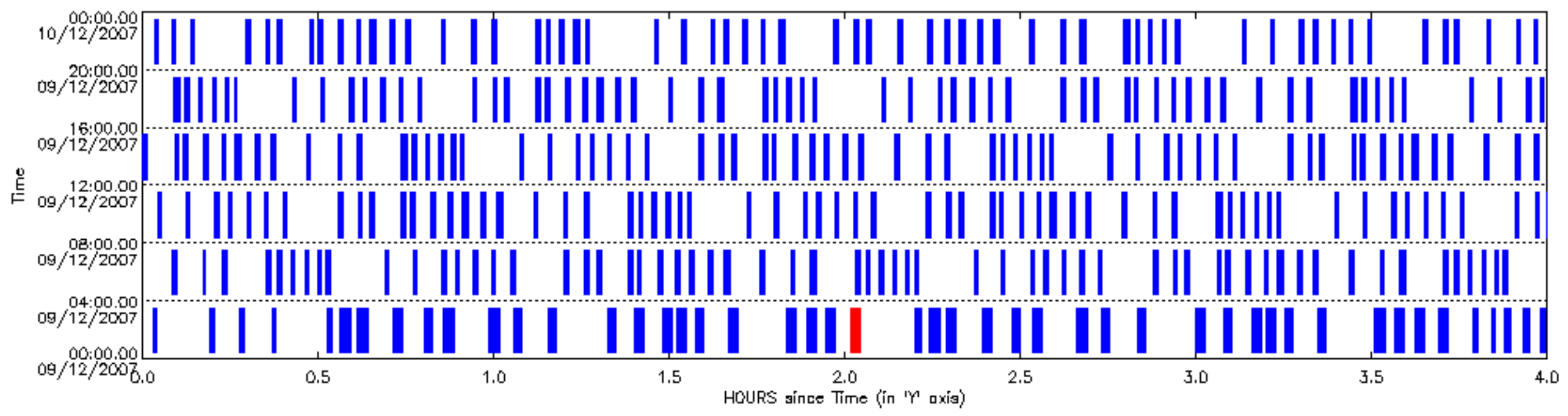
Lower curve: STD of SATU X axis

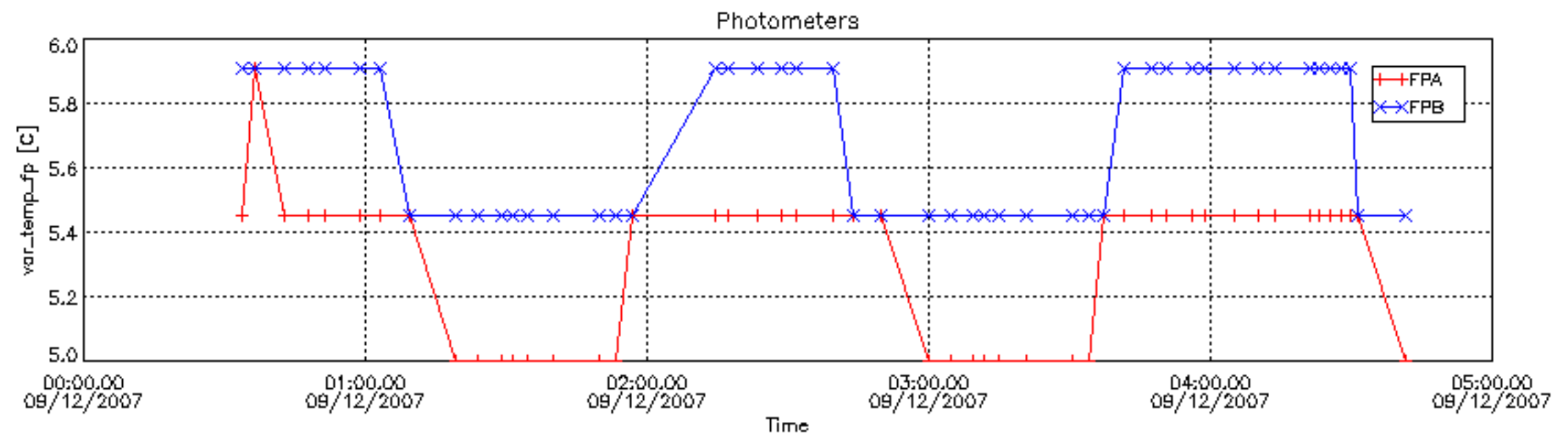
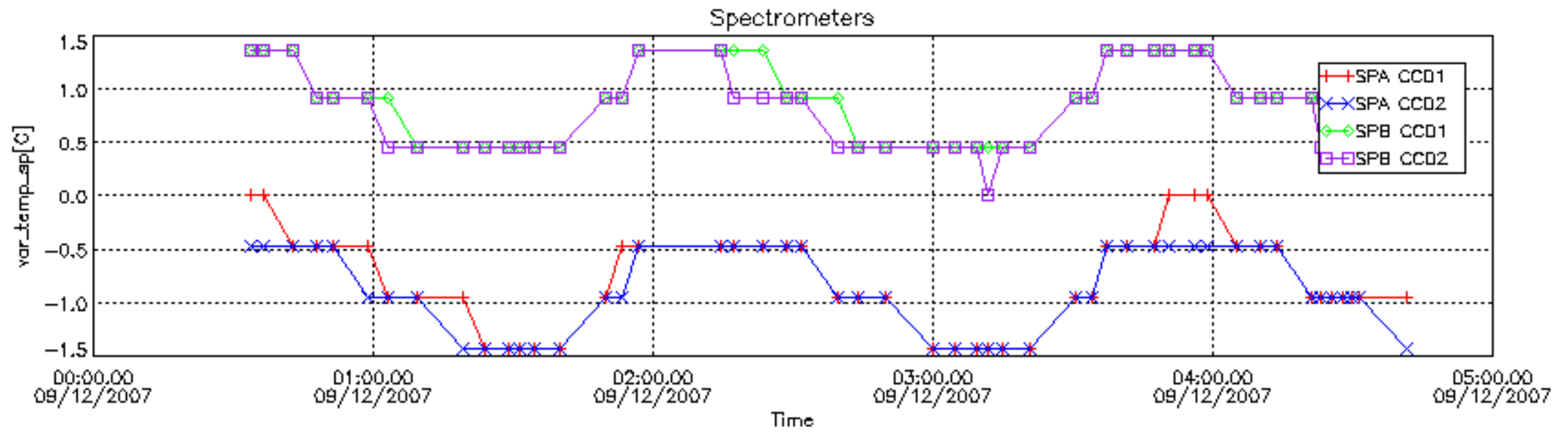


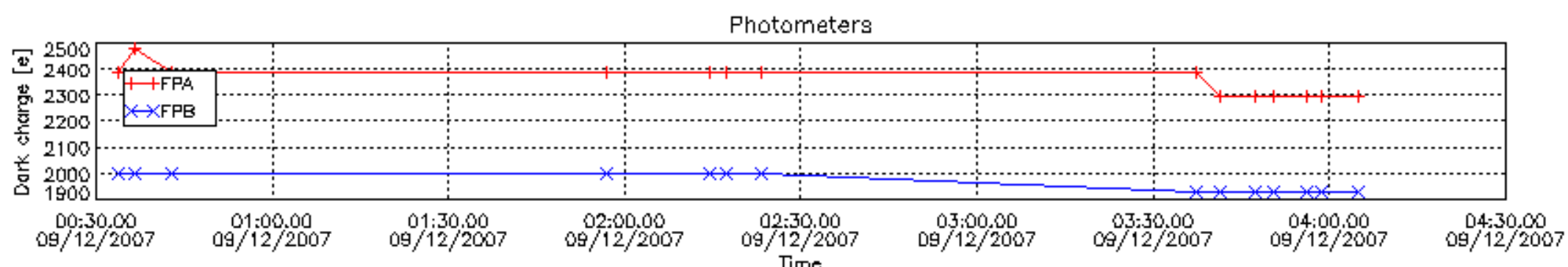
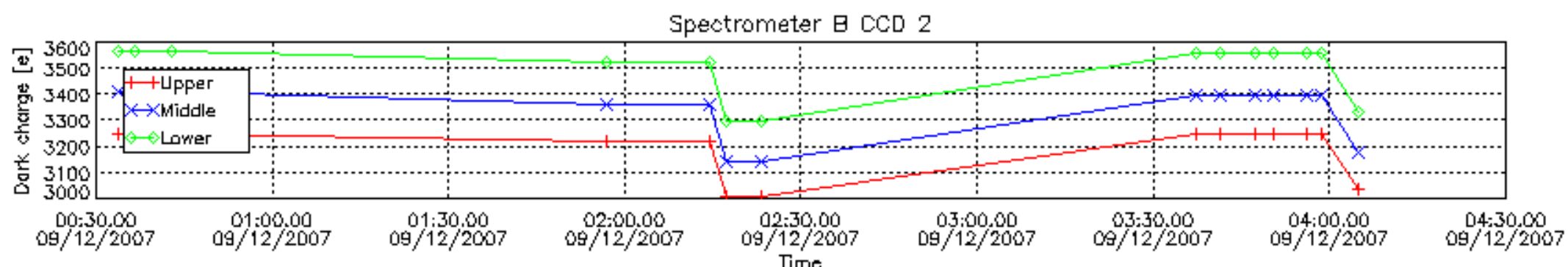
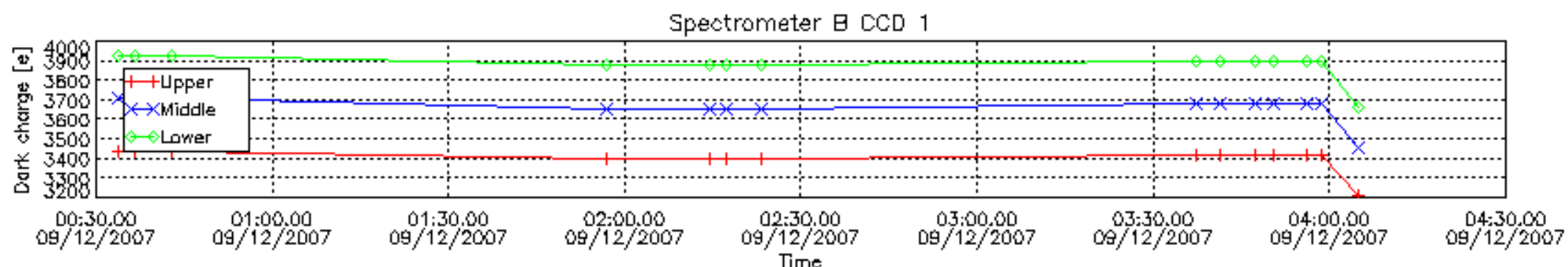
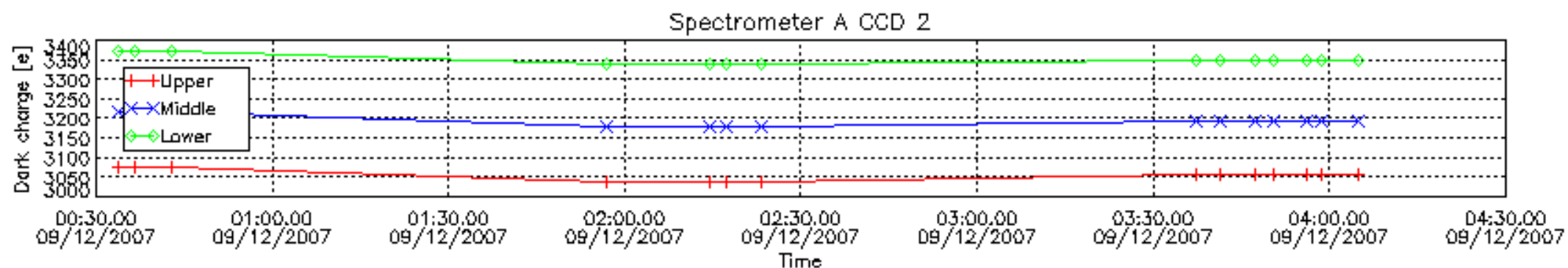
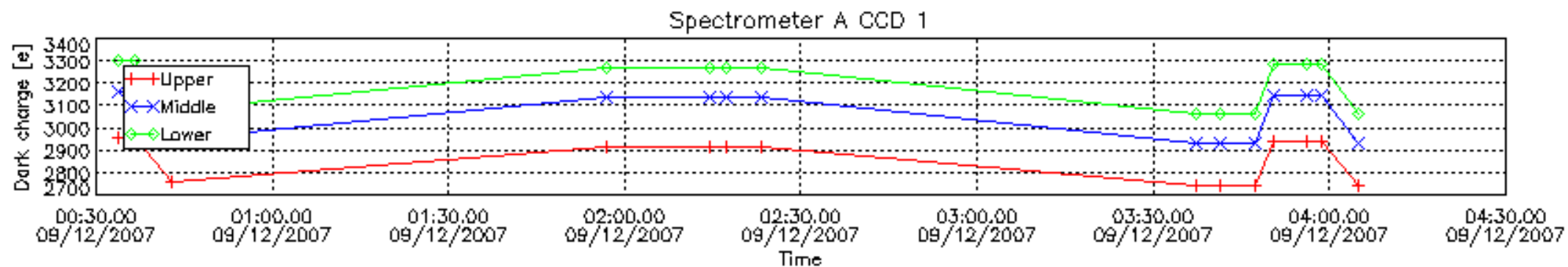
8. Auxiliary Data Files used for the production reported in section 2.4

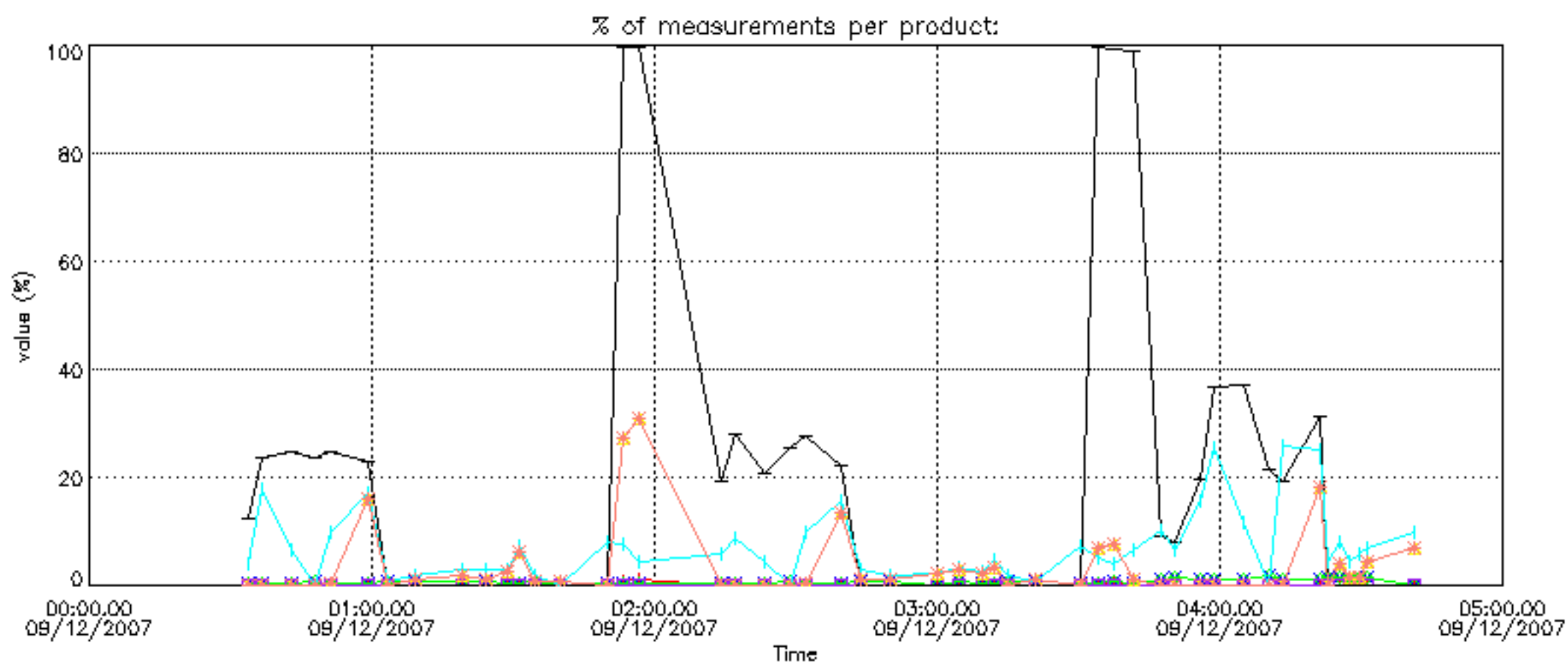
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	09-DEC-2007 00:33:45
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071207_090506_20071205_000000_20100101_000000	1	09-DEC-2007 00:33:45
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	09-DEC-2007 00:33:45
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-DEC-2007 00:33:45
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	09-DEC-2007 00:33:45
ECMWF_FILE	AUX_ECF_AXNECM20071208_063112_20071208_210000_20071209_090000	1	09-DEC-2007 00:33:45
ECMWF_FILE	AUX_ECF_AXNECM20071208_180113_20071209_030000_20071209_150000	27	09-DEC-2007 03:04:41
OPTIONAL_ECMWF_FILE	MISSING	1	09-DEC-2007 00:33:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071209_000711_000057382064_00073_30187_4715.N1	1	09-DEC-2007 00:33:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071208_222614_000057382064_00072_30186_4714.N1	2	09-DEC-2007 00:36:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071209_000711_000057382064_00073_30187_4715.N1	3	09-DEC-2007 00:42:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071208_222614_000057382064_00072_30186_4714.N1	11	09-DEC-2007 01:28:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071209_000711_000057382064_00073_30187_4715.N1	12	09-DEC-2007 01:31:18
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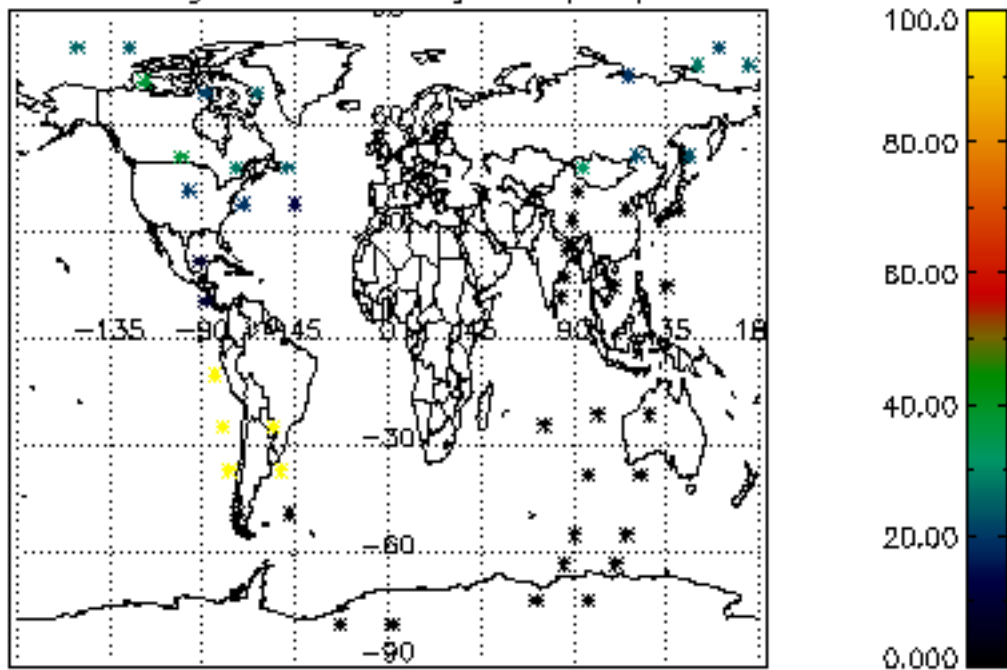




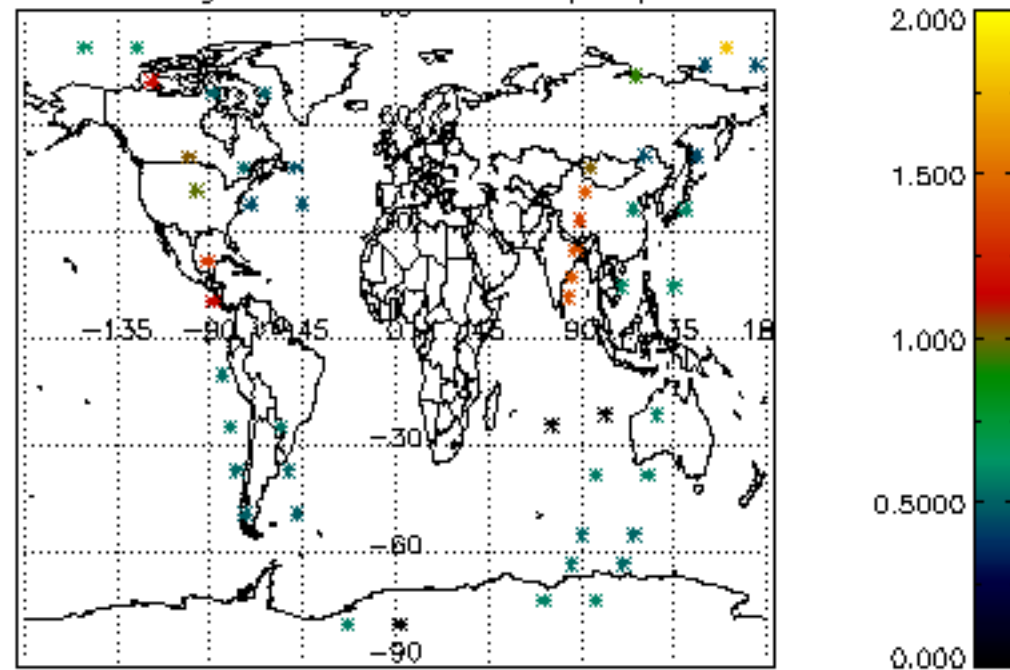




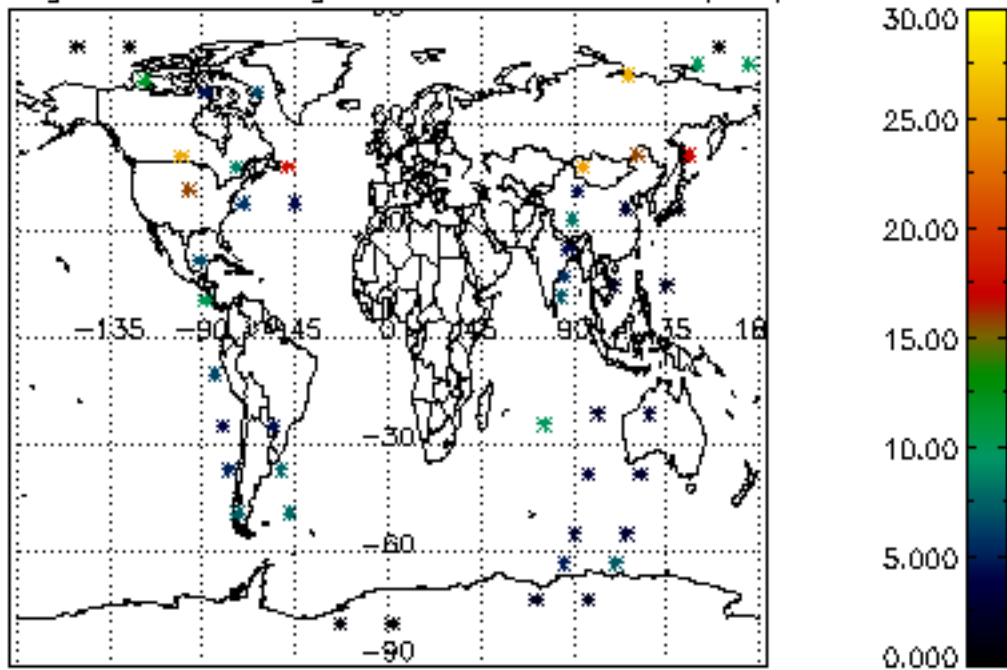
Percentage of cosmic ray hits per profile



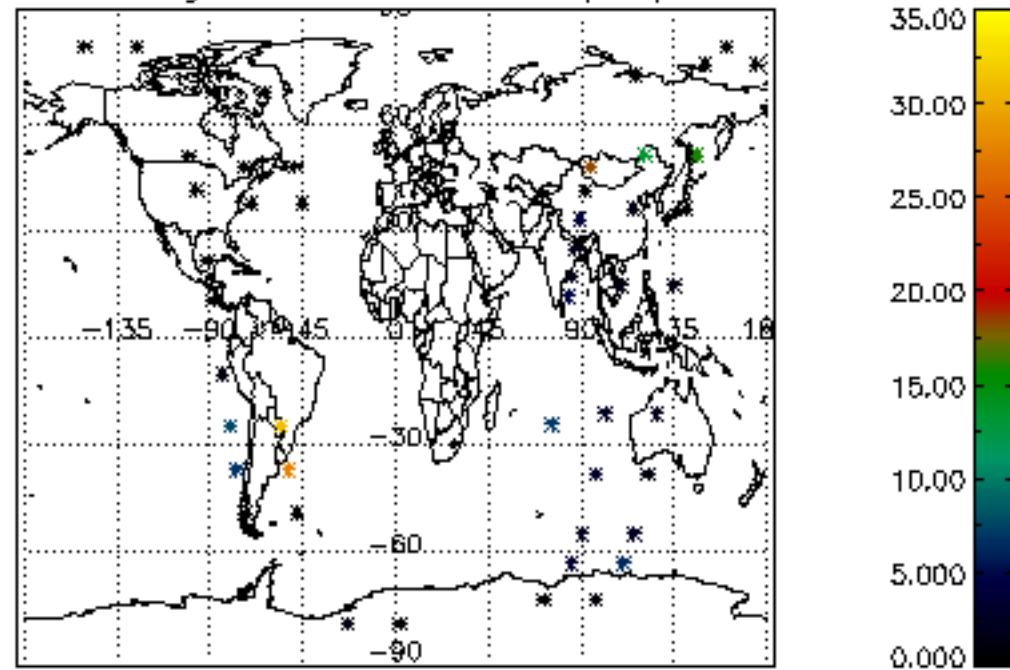
Percentage of datation errors per profile



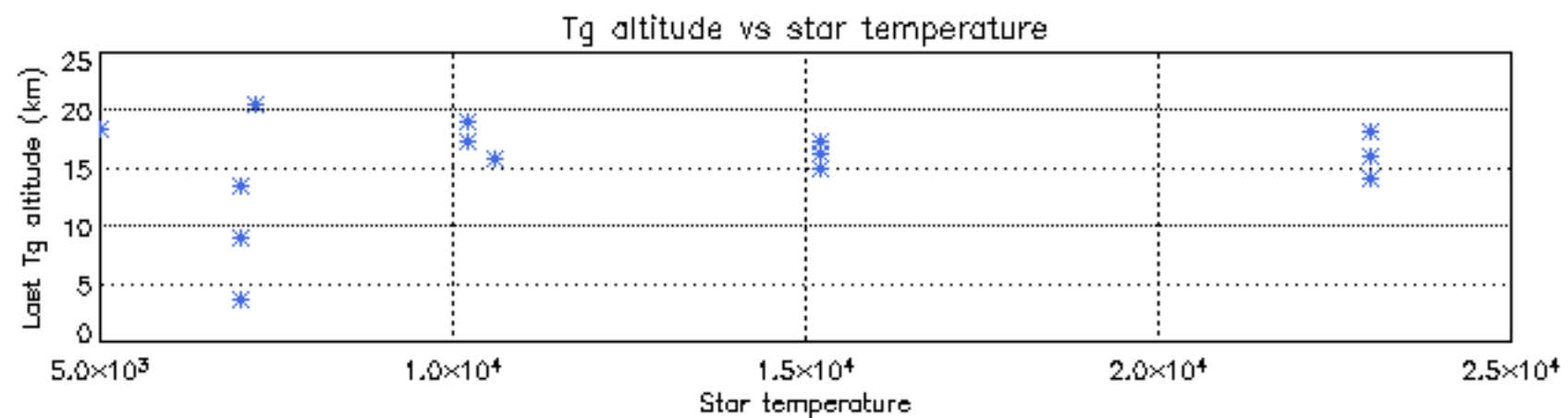
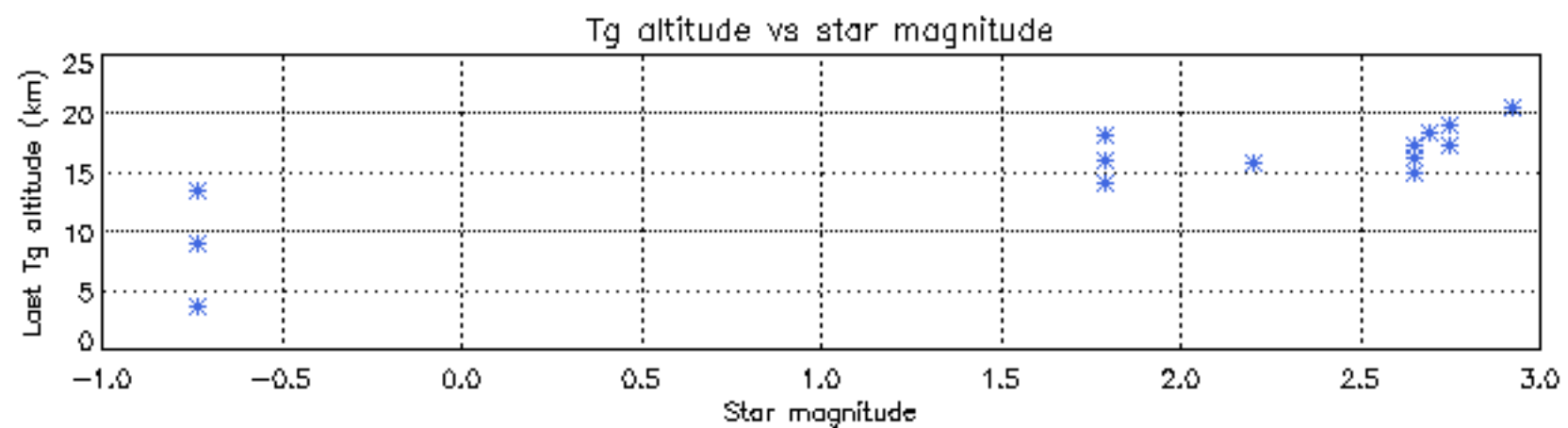
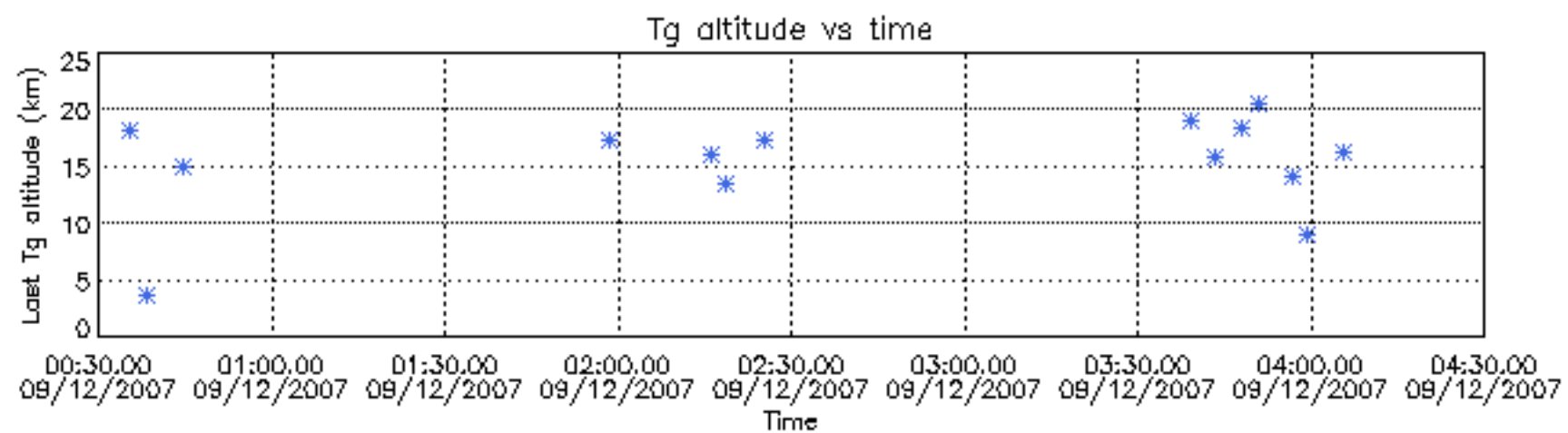
Percentage of star falling outside central band per profile



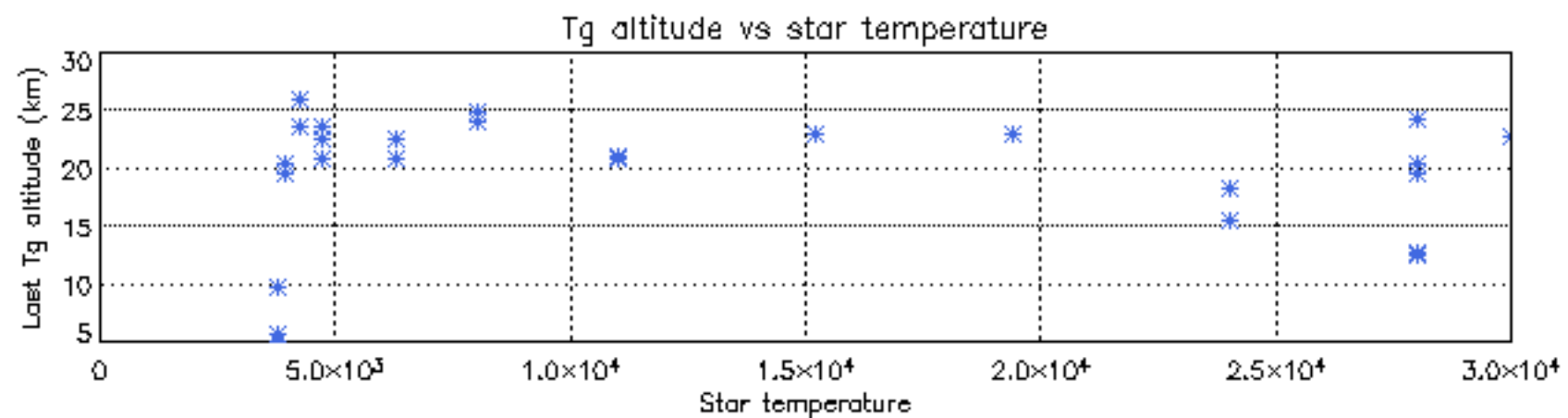
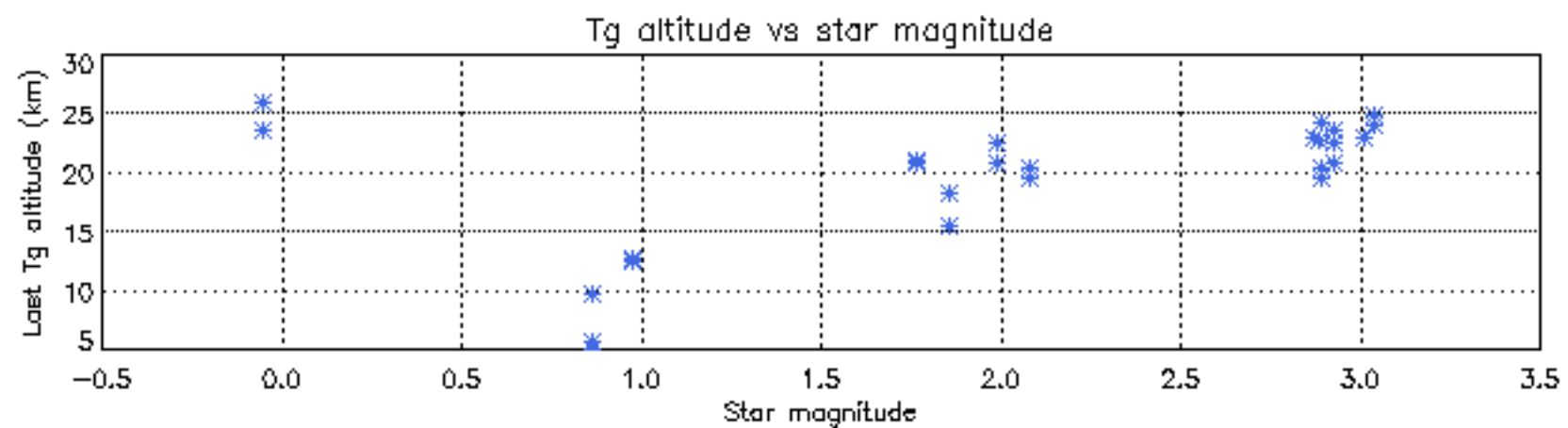
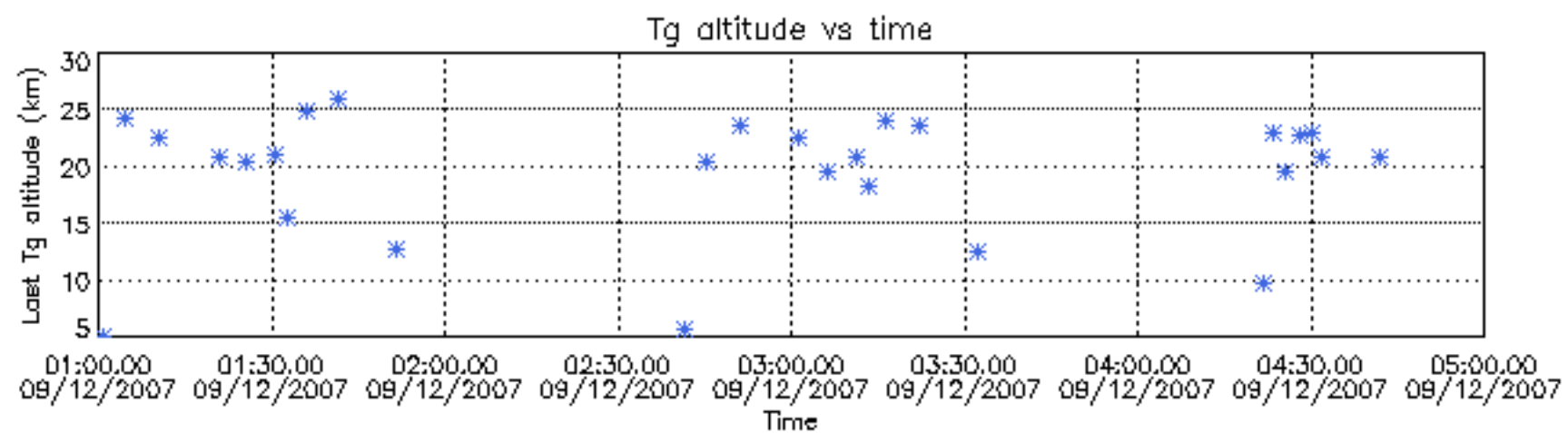
Percentage of saturation errors per profile

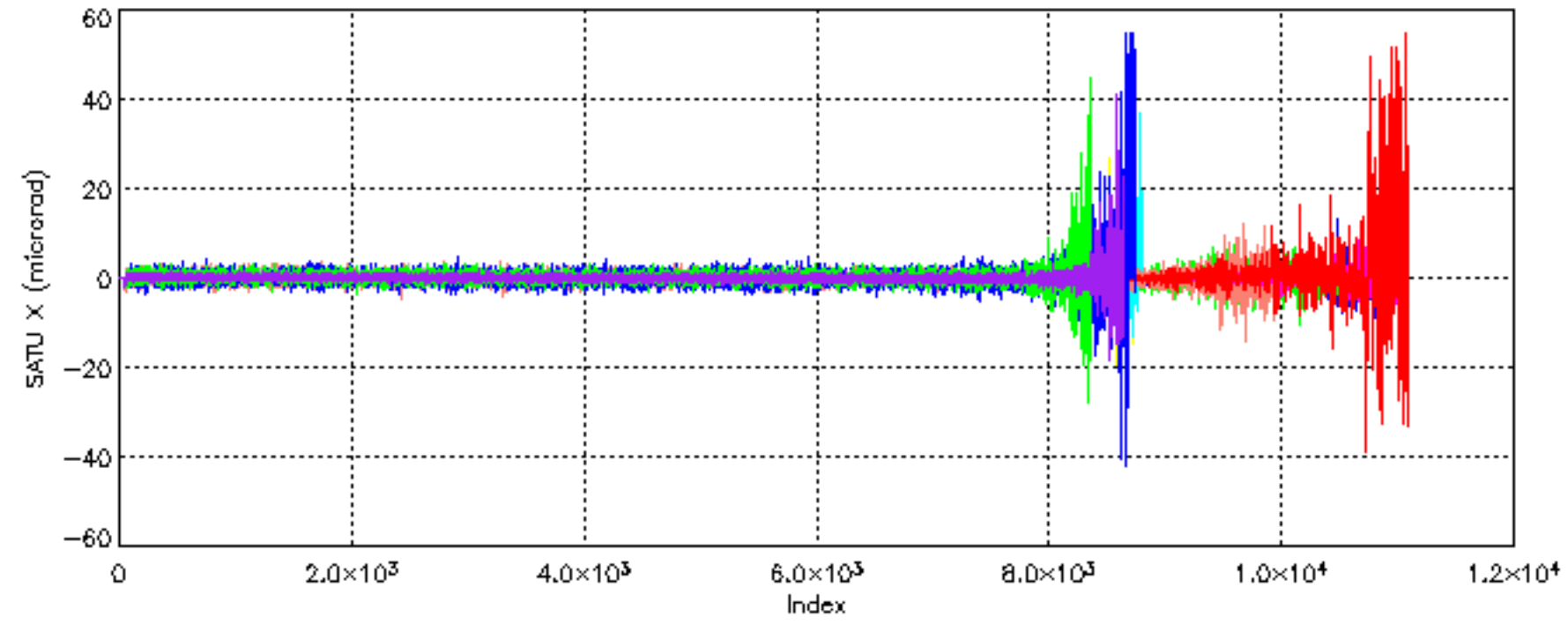


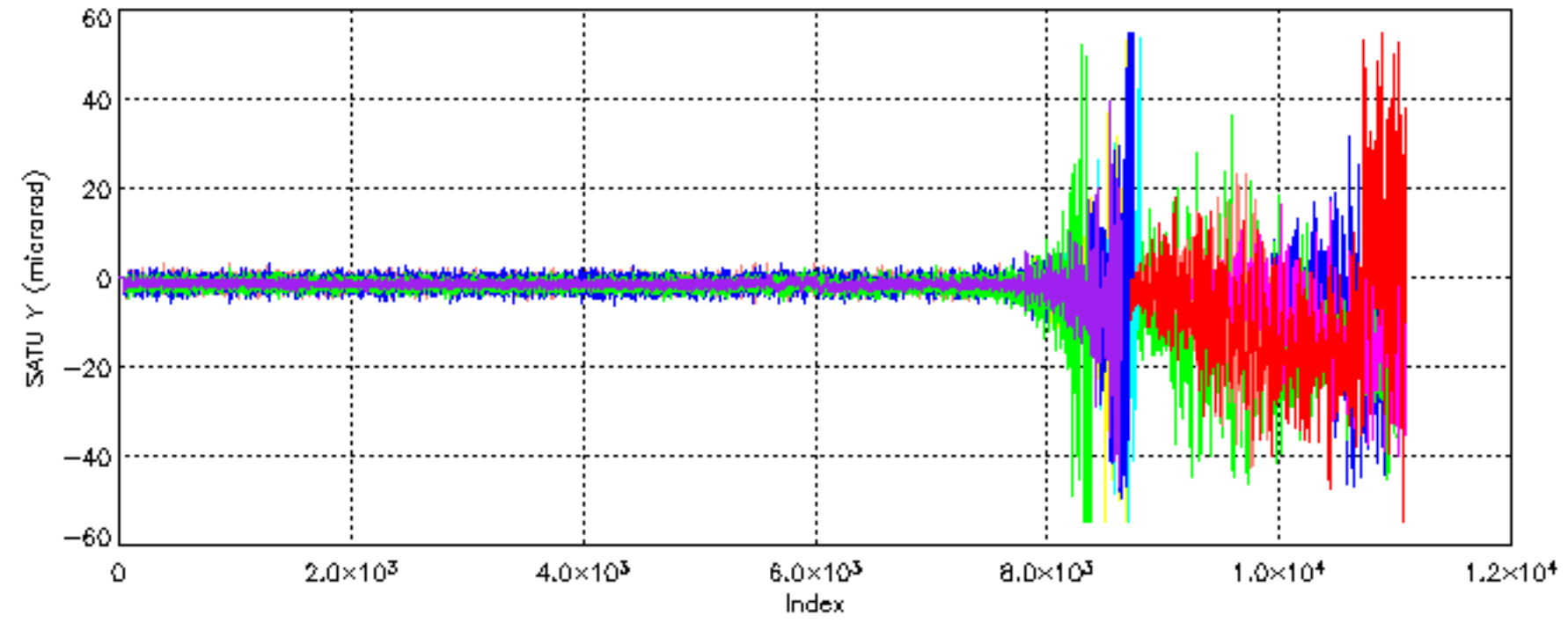
Tangent altitude at which the star is lost

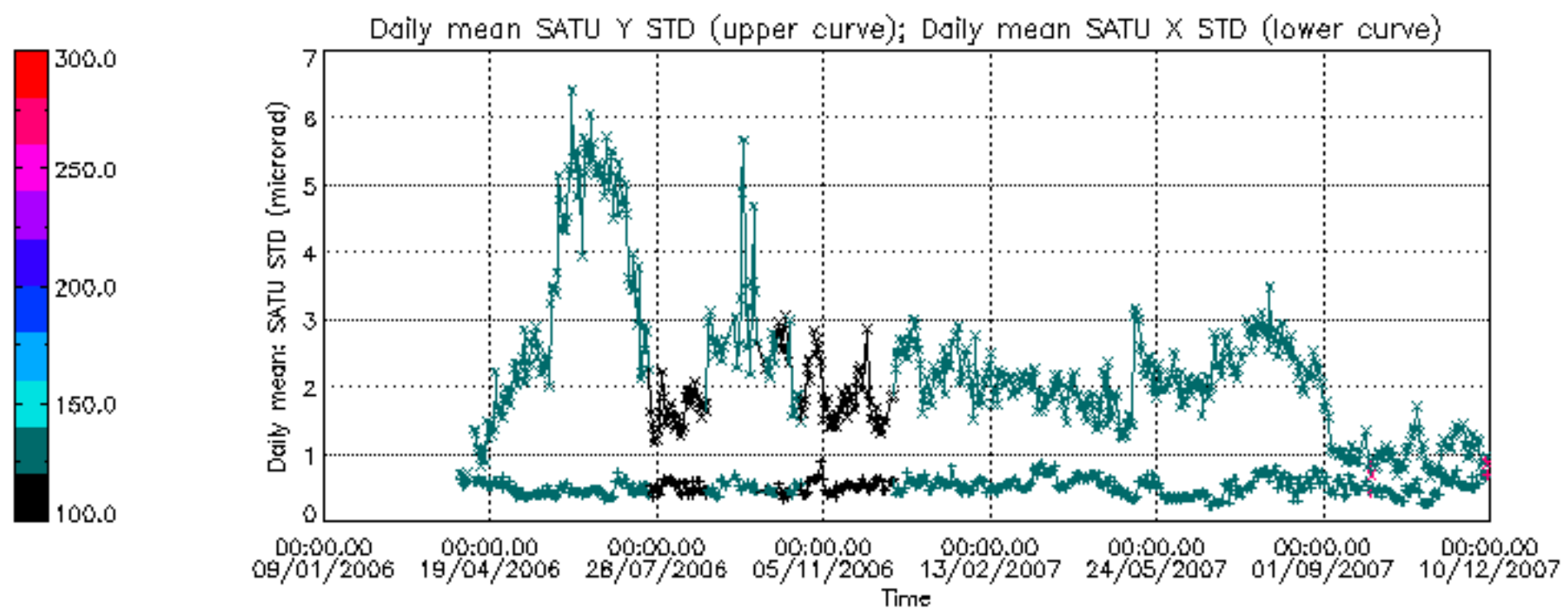


Tangent altitude at which the star is lost









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13; 4529.1; 25-DEC-2007 20:02:25; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;30428
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 18; 5815.0; 27-DEC-2007 15:59:25; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30454
 19; 5892.2; 27-DEC-2007 16:00:42; Dark ; 38.0; 95; Zet Cen ; 2.55; 26000;occ; 76; 0;30454
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 22; 6415.3; 27-DEC-2007 16:09:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30454
 23; 6531.7; 27-DEC-2007 16:11:21; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30454
 24; 6628.4; 27-DEC-2007 16:12:58; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30454
 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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 5; 2013.0; 27-DEC-2007 16:36:39; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30455
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 11; 3697.1; 27-DEC-2007 17:04:43; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30455
 12; 3917.7; 27-DEC-2007 17:08:23; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30455
 13; 4410.5; 27-DEC-2007 17:16:36; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30455
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 16; 5166.2; 27-DEC-2007 17:29:12; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;30455
 17; 5316.6; 27-DEC-2007 17:31:42; Dark ; 39.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 79; 0;30455
 18; 5721.0; 27-DEC-2007 17:38:27; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;30455
 19; 5815.4; 27-DEC-2007 17:40:01; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;30455
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 21; 6015.5; 27-DEC-2007 17:43:21; Dark ; 44.5; 4; Alp1Cen ; -0.01; 5800;occ; 89; 0;30455
 22; 6231.5; 27-DEC-2007 17:46:57; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;30455
 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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 13; 3697.0; 27-DEC-2007 18:45:19; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30456
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 19; 5317.0; 27-DEC-2007 19:12:19; Dark ; 40.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 81; 0;30456
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22; 5893.4; 27-DEC-2007 19:21:55; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30456
 23; 6015.8; 27-DEC-2007 19:23:57; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30456
 24; 6231.9; 27-DEC-2007 19:27:34; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30456
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 27; 6629.5; 27-DEC-2007 19:34:11; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 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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 11; 1307.0; 27-DEC-2007 23:07:16; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30459
 12; 1588.4; 27-DEC-2007 23:11:58; Dark ; 40.0; 101; 11Alp Lep ; 2.58; 7000;occ; 80; 0;30459
 13; 1762.0; 27-DEC-2007 23:14:51; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;30459
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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
 16; 2193.0; 27-DEC-2007 23:22:02; Dark ; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;30459
 17; 2404.8; 27-DEC-2007 23:25:34; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;30459
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 19; 2700.5; 27-DEC-2007 23:30:30; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30459
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 21; 3422.9; 27-DEC-2007 23:42:32; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30459
 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
 24; 4411.1; 27-DEC-2007 23:59:01; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30459
 25; 4534.3; 28-DEC-2007 00:01:04; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30459
 26; 4872.5; 28-DEC-2007 00:06:42; Bright; 34.5; 102; 24Alp Ser ; 2.60; 4250;occ; 69; 0;30459
 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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 5; 197.4; 28-DEC-2007 00:29:23; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30460
 6; 380.8; 28-DEC-2007 00:32:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30460
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 13; 1762.1; 28-DEC-2007 00:55:27; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;30460
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 15; 2012.8; 28-DEC-2007 00:59:38; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;30460
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 19; 2700.3; 28-DEC-2007 01:11:06; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30460
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 22; 3696.6; 28-DEC-2007 01:27:42; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;30460
 23; 3918.0; 28-DEC-2007 01:31:23; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30460
 24; 4411.3; 28-DEC-2007 01:39:37; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30460
 25; 4534.5; 28-DEC-2007 01:41:40; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30460
 26; 4873.0; 28-DEC-2007 01:47:18; Bright; 33.5; 102; 24Alp Ser ; 2.60; 4250;occ; 67; 0;30460

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7; 197.9; 28-DEC-2007 02:09:59; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30461
8; 381.1; 28-DEC-2007 02:13:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30461
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5; -1162.3; 28-DEC-2007 05:08:31; Bright; 34.0; 102; 24Alp Ser ; 2.60; 4250;occ; 68; 0;30462
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13; 381.7; 28-DEC-2007 05:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30463
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