

GOMOS Daily Report 08-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	10DEC2007 05:34:47
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (08DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (09DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	36
Nb of prods with errors	0

2. Summary of products arrived in PCF (Product Control Facility)

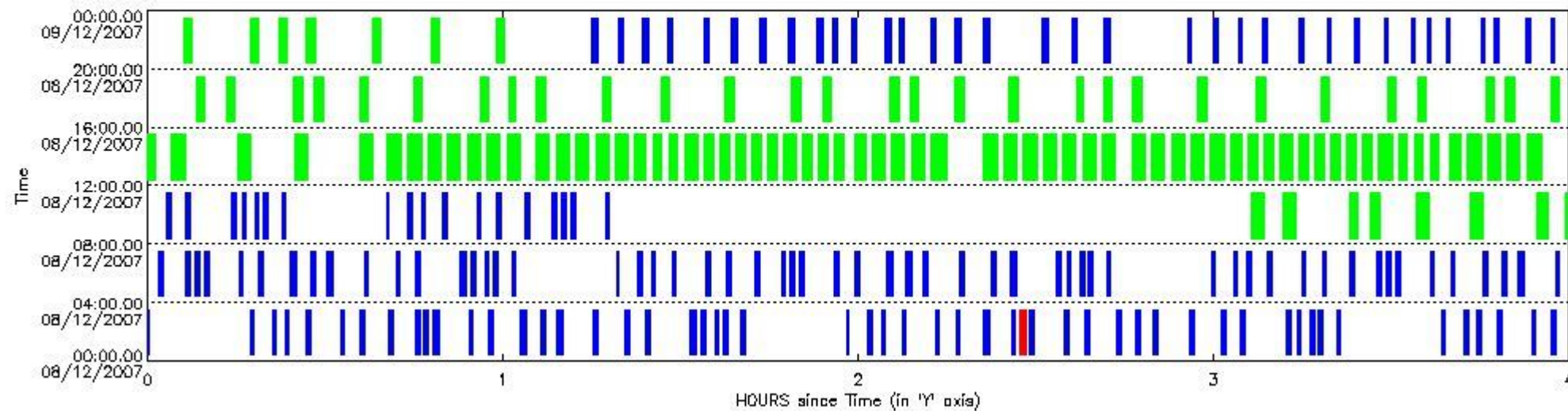
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

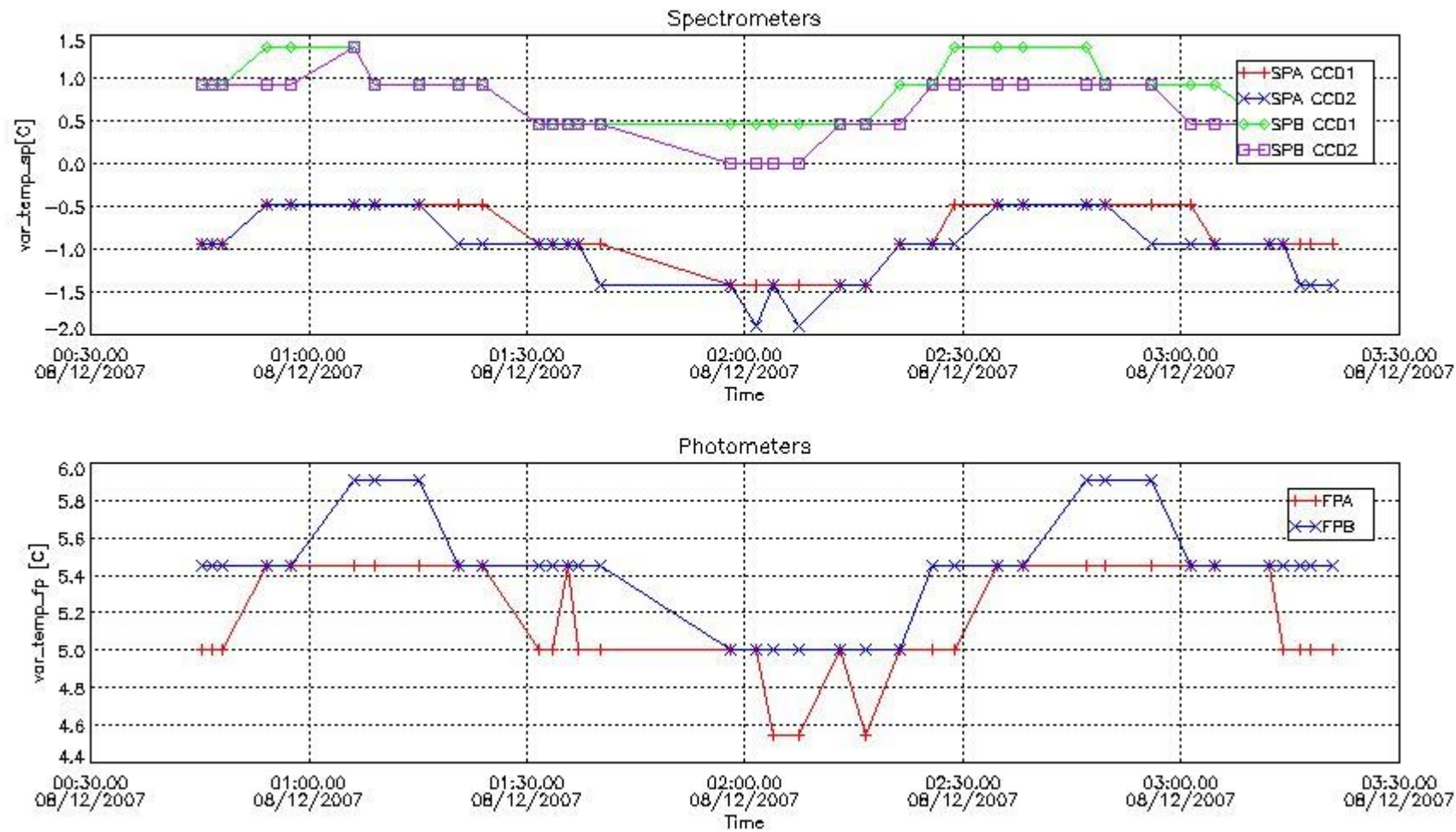
UTC start time	Star name	Star ID	Orbit
08-DEC-2007 02:27:14	4GamCrv	100	30174

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_1PNPDE20071208_004510_000000422064_00059_30173_7913.N1	08-DEC-2007 00:45:10	Twilight_and_stray	42.000	169	46Gam Hya	2.9910	4700.0	84	30173	No
2	GOM_TRA_1PNPDE20071208_004636_000000492064_00059_30173_7914.N1	08-DEC-2007 00:46:36	Dark	49.000	100	4Gam Crv	2.5800	13100.	98	30173	No
3	GOM_TRA_1PNPDE20071208_004813_000000512064_00059_30173_7915.N1	08-DEC-2007 00:48:13	Dark	51.000	171	2Eps Crv	3.0010	4250.0	102	30173	No
4	GOM_TRA_1PNPDE20071208_005409_000000392064_00059_30173_7916.N1	08-DEC-2007 00:54:09	Dark	39.000	99	Del Cen	2.5750	26000.	78	30173	No
5	GOM_TRA_1PNPDE20071208_005732_000000472064_00060_30174_7917.N1	08-DEC-2007 00:57:32	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	30174	No
6	GOM_TRA_1PNPDE20071208_010613_000000492064_00060_30174_7918.N1	08-DEC-2007 01:06:13	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	30174	No
7	GOM_TRA_1PNPDE20071208_010901_000000572064_00060_30174_7919.N1	08-DEC-2007 01:09:01	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	30174	No
8	GOM_TRA_1PNPDE20071208_011516_000000472064_00060_30174_7920.N1	08-DEC-2007 01:15:16	Dark	46.500	108	Alp Col	2.6520	15200.	93	30174	No
9	GOM_TRA_1PNPDE20071208_012037_000000502064_00060_30174_7921.N1	08-DEC-2007 01:20:37	Straylight	49.500	101	11Alp Lep	2.5820	7000.0	99	30174	No
10	GOM_TRA_1PNPDE20071208_012356_000000542064_00060_30174_7922.N1	08-DEC-2007 01:23:56	Straylight	53.500	7	19Bet Ori	0.10000	14000.	107	30174	No

11	GOM_TRA_1PNPDE20071208_013135_00000582064_00060_30174_7923.N1	08-DEC-2007 01:31:35	Bright	58.000	13	87Alp Tau	0.86700	3800.0	116	30174	No
12	GOM_TRA_1PNPDE20071208_013328_00000382064_00060_30174_7924.N1	08-DEC-2007 01:33:28	Bright	38.000	146	25Eta Tau	2.8730	15200.	76	30174	No
13	GOM_TRA_1PNPDE20071208_013544_00000372064_00060_30174_7228.N1	08-DEC-2007 01:35:44	Bright	36.500	150	44Zet Per	2.8900	28000.	73	30174	No
14	GOM_TRA_1PNPDE20071208_013705_00000442064_00060_30174_7229.N1	08-DEC-2007 01:37:05	Bright	44.000	114	3Iot Aur	2.6930	4600.0	88	30174	No
15	GOM_TRA_1PNPDE20071208_014012_00000352064_00060_30174_7230.N1	08-DEC-2007 01:40:12	Bright	35.000	175	39Del Per	3.0100	19400.	70	30174	No
16	GOM_TRA_1PNPDE20071208_015754_00000302064_00060_30174_7231.N1	08-DEC-2007 01:57:54	Tw_i_and_stray	30.000	36	50Alp UMa	1.8000	6300.0	60	30174	No
17	GOM_TRA_1PNPDE20071208_020132_00000402064_00060_30174_7232.N1	08-DEC-2007 02:01:32	Bright	39.500	32	77Eps UMa	1.7630	11000.	79	30174	No
18	GOM_TRA_1PNPDE20071208_020349_00000382064_00060_30174_7233.N1	08-DEC-2007 02:03:49	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	30174	No
19	GOM_TRA_1PNPDE20071208_020721_00000412064_00060_30174_7234.N1	08-DEC-2007 02:07:21	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	30174	No
20	GOM_TRA_1PNPDE20071208_021305_00000362064_00060_30174_7235.N1	08-DEC-2007 02:13:05	Bright	36.000	111	8Eta Boo	2.6800	6000.0	72	30174	No
21	GOM_TRA_1PNPDE20071208_021628_00000422064_00060_30174_7236.N1	08-DEC-2007 02:16:28	Bright	42.000	138	47Eps Vir	2.8280	4700.0	84	30174	No
22	GOM_TRA_1PNPDE20071208_022111_00000552064_00060_30174_7373.N1	08-DEC-2007 02:21:11	Tw_i_and_stray	54.500	121	29Gam Vir	2.7400	7200.0	109	30174	No
23	GOM_TRA_1PNPDE20071208_022547_00000432064_00060_30174_7374.N1	08-DEC-2007 02:25:47	Tw_i_and_stray	43.000	169	46Gam Hya	2.9910	4700.0	86	30174	No
24	GOM_TRA_1PNPDE20071208_022850_00000492064_00060_30174_7375.N1	08-DEC-2007 02:28:50	Dark	48.500	171	2Eps Crv	3.0010	4250.0	97	30174	No
25	GOM_TRA_1PNPDE20071208_023445_00000402064_00060_30174_7376.N1	08-DEC-2007 02:34:45	Dark	39.500	99	Del Cen	2.5750	26000.	79	30174	No
26	GOM_TRA_1PNPDE20071208_023809_00000462064_00061_30175_7377.N1	08-DEC-2007 02:38:09	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	30175	No
27	GOM_TRA_1PNPDE20071208_024650_00000472064_00061_30175_7378.N1	08-DEC-2007 02:46:50	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	30175	No
28	GOM_TRA_1PNPDE20071208_024938_00000482064_00061_30175_7379.N1	08-DEC-2007 02:49:38	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	30175	No
29	GOM_TRA_1PNPDE20071208_025552_00000452064_00061_30175_7380.N1	08-DEC-2007 02:55:52	Dark	45.000	108	Alp Col	2.6520	15200.	90	30175	No
30	GOM_TRA_1PNPDE20071208_030113_00000502064_00061_30175_7381.N1	08-DEC-2007 03:01:13	Straylight	49.500	101	11Alp Lep	2.5820	7000.0	99	30175	No
31	GOM_TRA_1PNPDE20071208_030432_00000522064_00061_30175_7382.N1	08-DEC-2007 03:04:32	Straylight	51.500	7	19Bet Ori	0.10000	14000.	103	30175	No
32	GOM_TRA_1PNPDE20071208_031211_00000522064_00061_30175_7383.N1	08-DEC-2007 03:12:11	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	30175	No
33	GOM_TRA_1PNPDE20071208_031403_00000372064_00061_30175_7384.N1	08-DEC-2007 03:14:03	Bright	36.500	146	25Eta Tau	2.8730	15200.	73	30175	No
34	GOM_TRA_1PNPDE20071208_031619_00000382064_00061_30175_7385.N1	08-DEC-2007 03:16:19	Bright	37.500	150	44Zet Per	2.8900	28000.	75	30175	No
35	GOM_TRA_1PNPDE20071208_031741_00000432064_00061_30175_7386.N1	08-DEC-2007 03:17:41	Bright	42.500	114	3Iot Aur	2.6930	4600.0	85	30175	No
36	GOM_TRA_1PNPDE20071208_032048_00000342064_00061_30175_7387.N1	08-DEC-2007 03:20:48	Bright	34.000	175	39Del Per	3.0100	19400.	68	30175	No

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



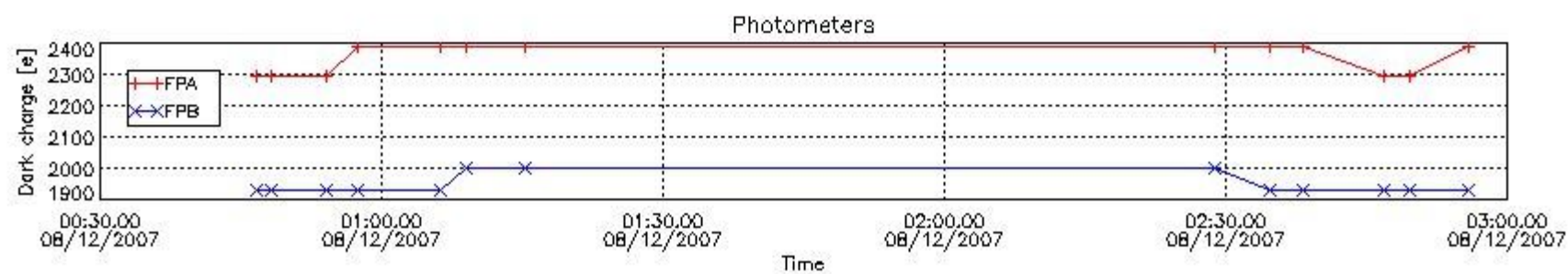
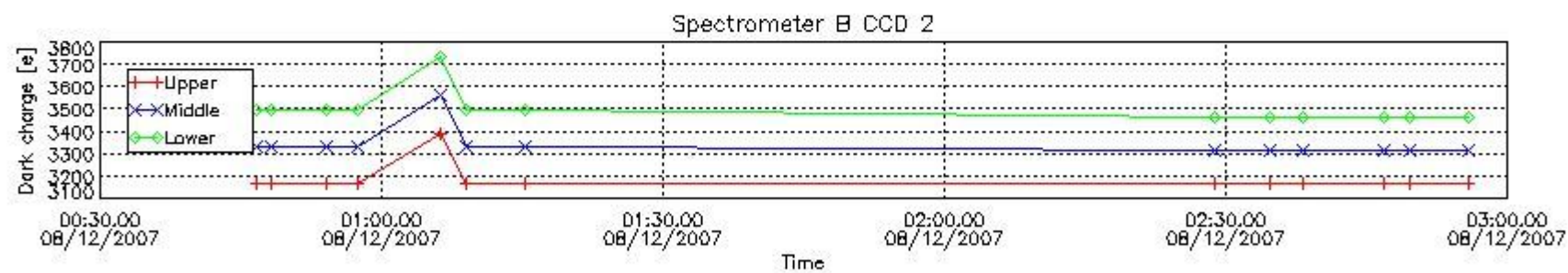
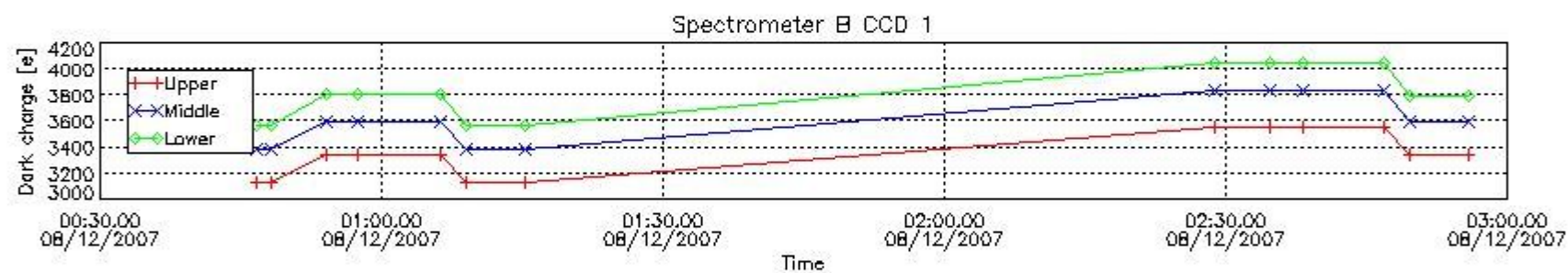
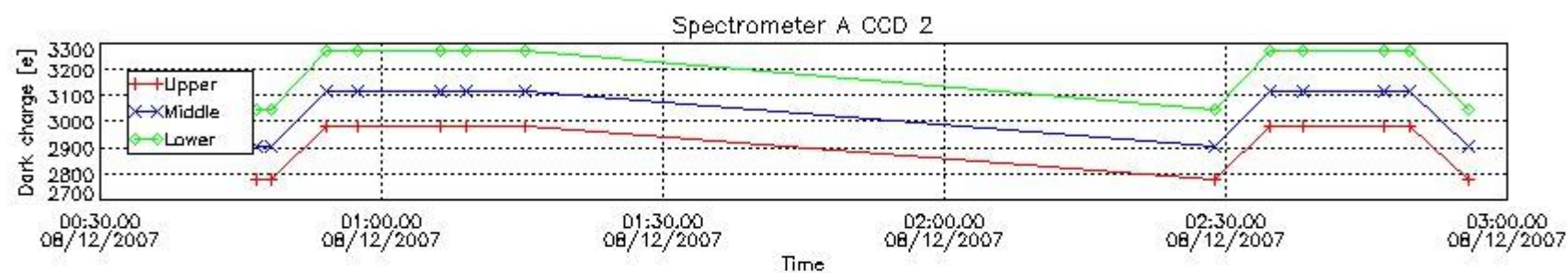
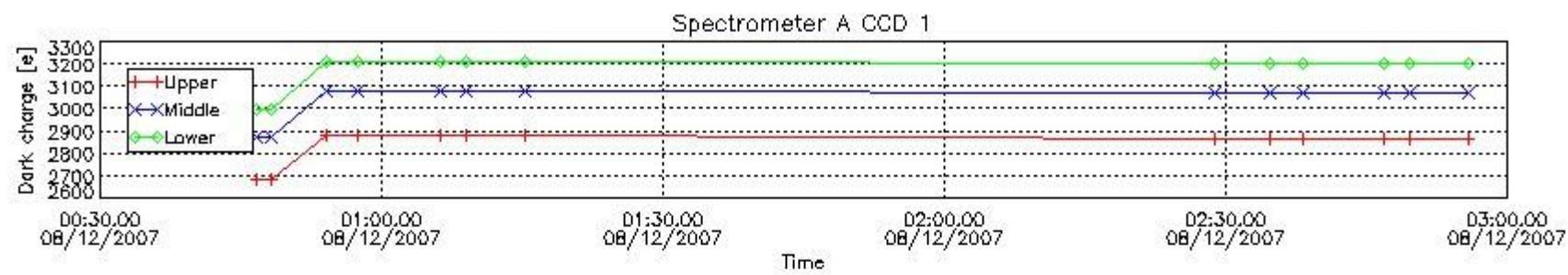
4. Overview of dark signal processing per product

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



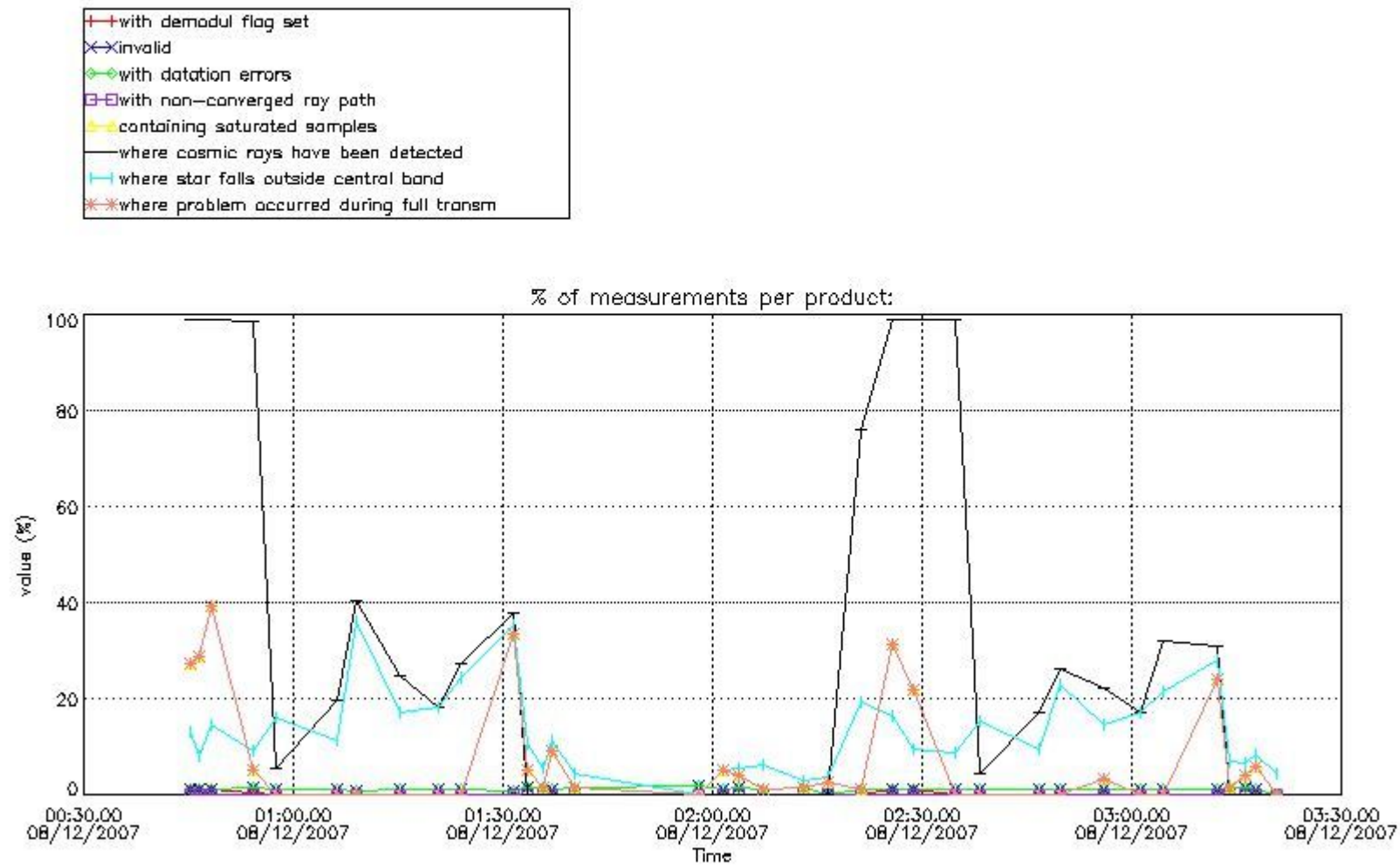
5. Demodulation flag and quality information monitoring

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.

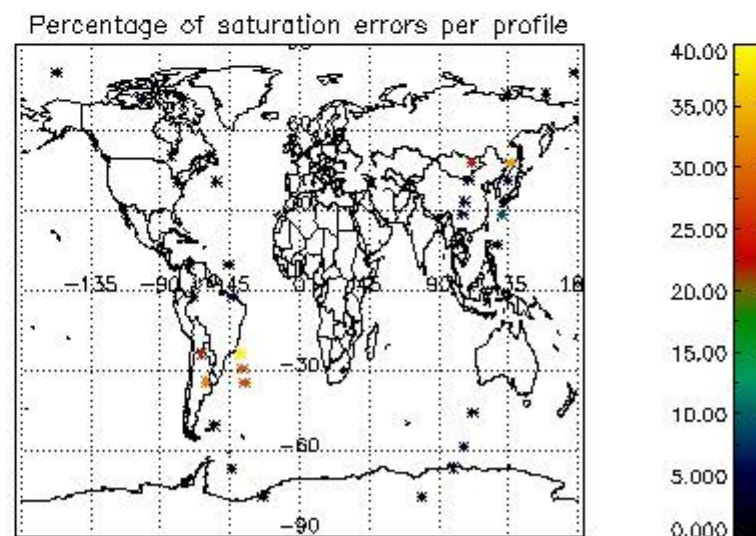
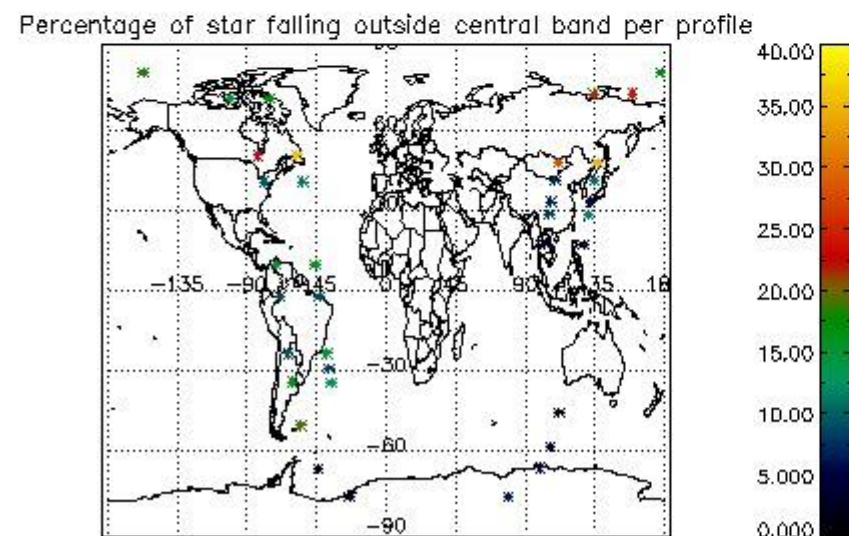
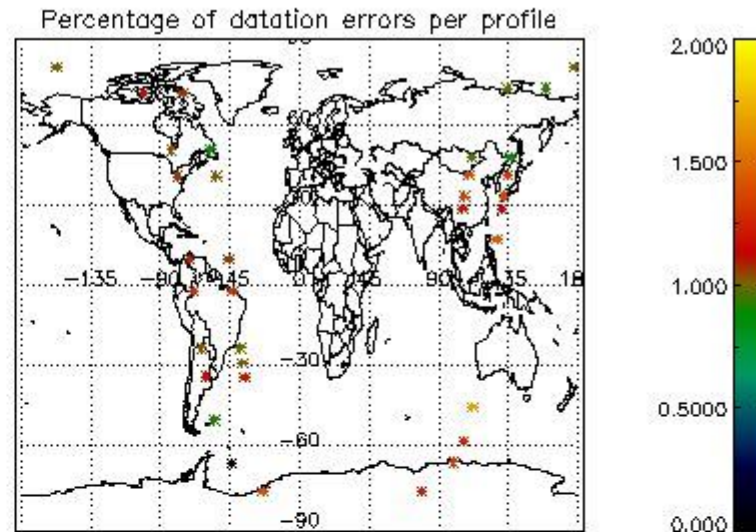
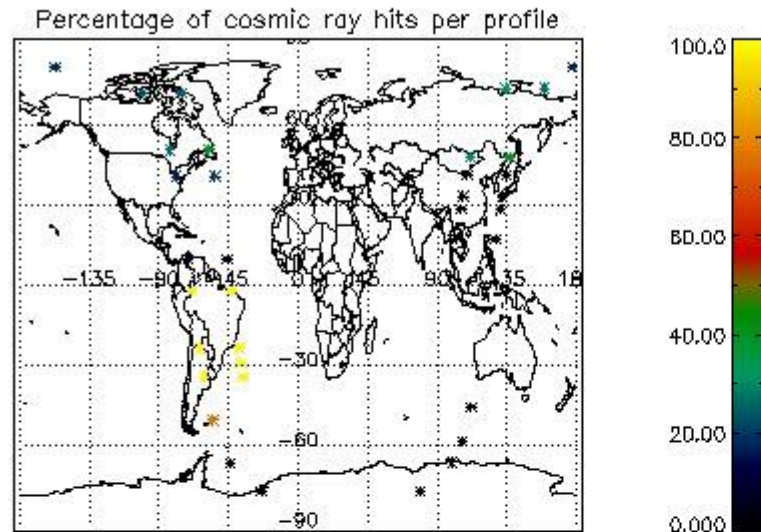
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.5556 %
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)



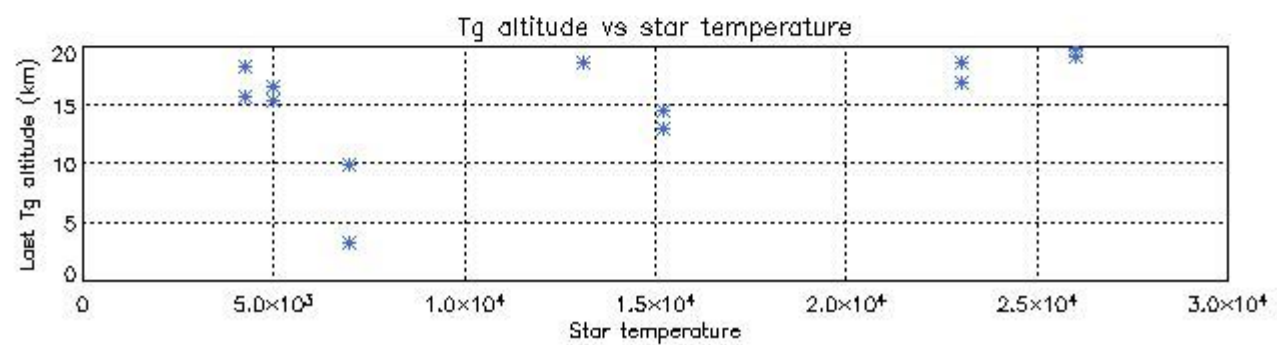
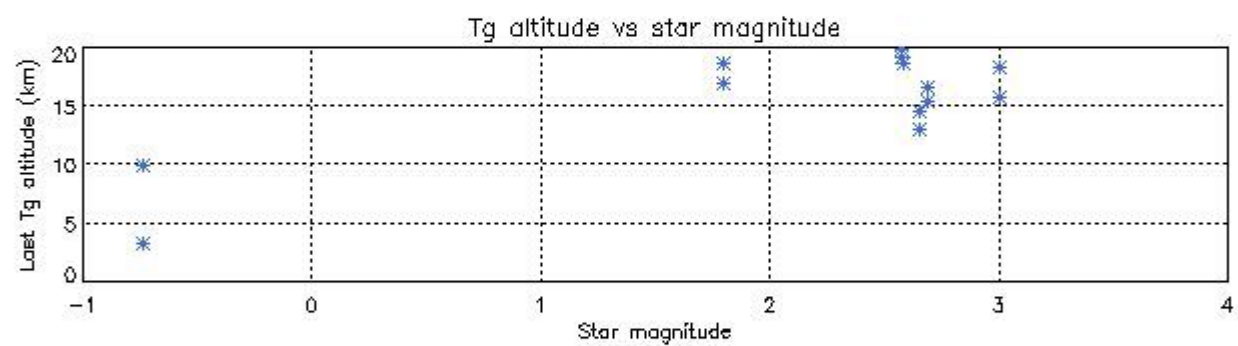
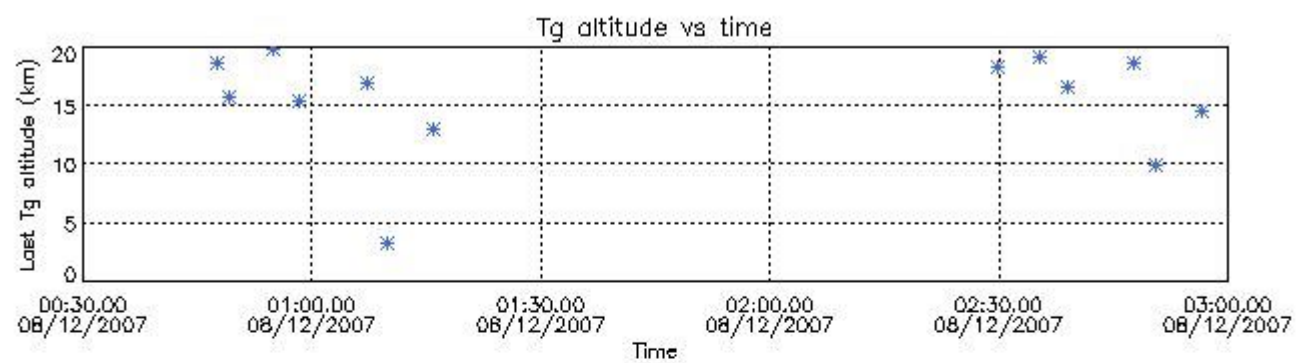
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.368	19.350	NaN
St. deviation:	4.5964	5.9399	NaN
Maximum:	19.854	26.093	NaN
Minimum:	3.1705	4.3531	NaN
Number of data:	13.000	15.000	NaN

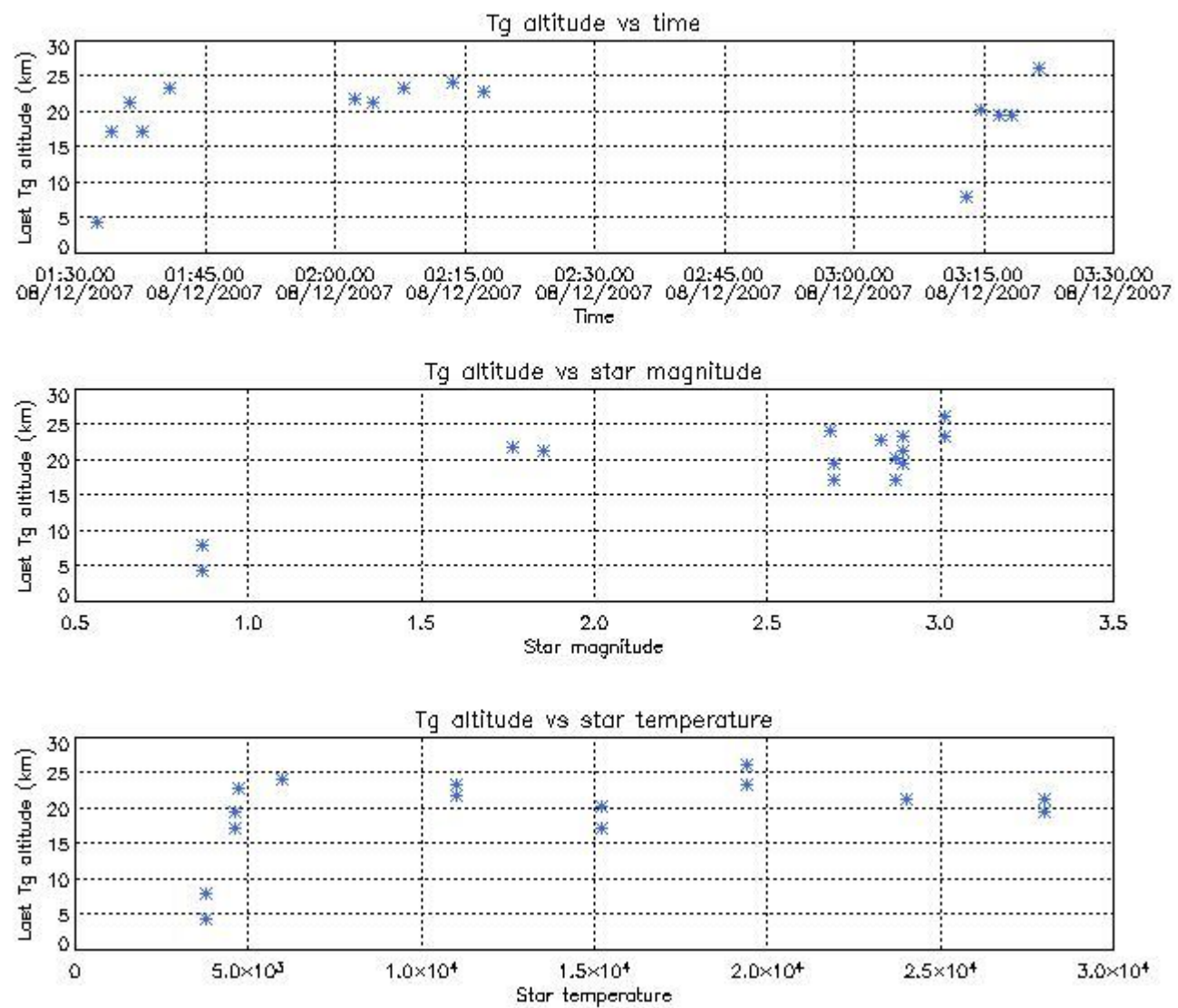
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

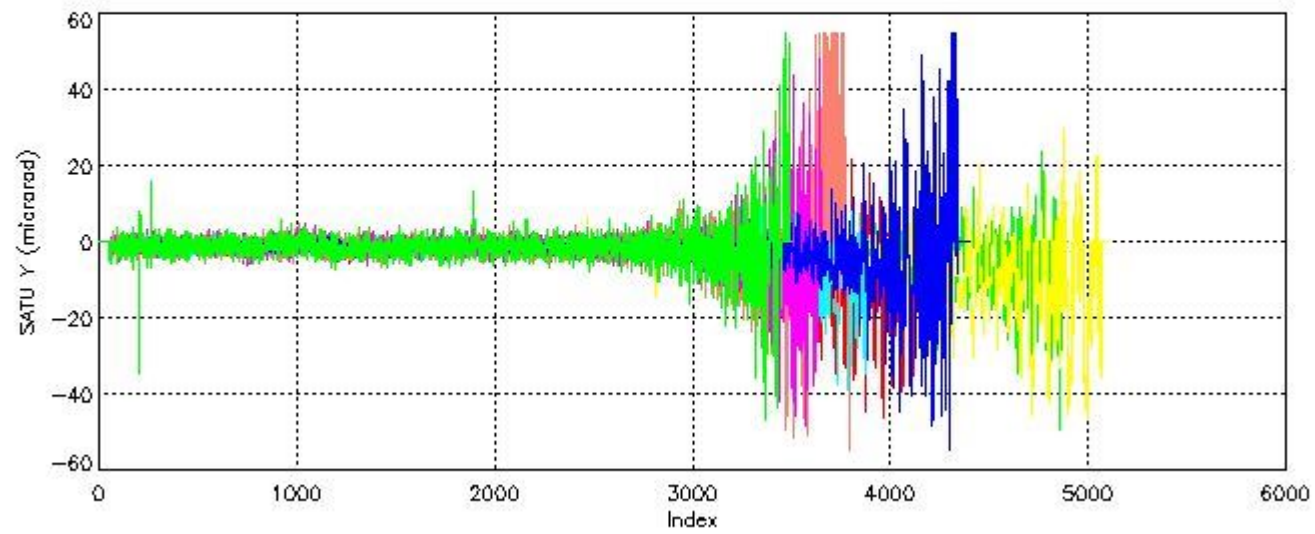
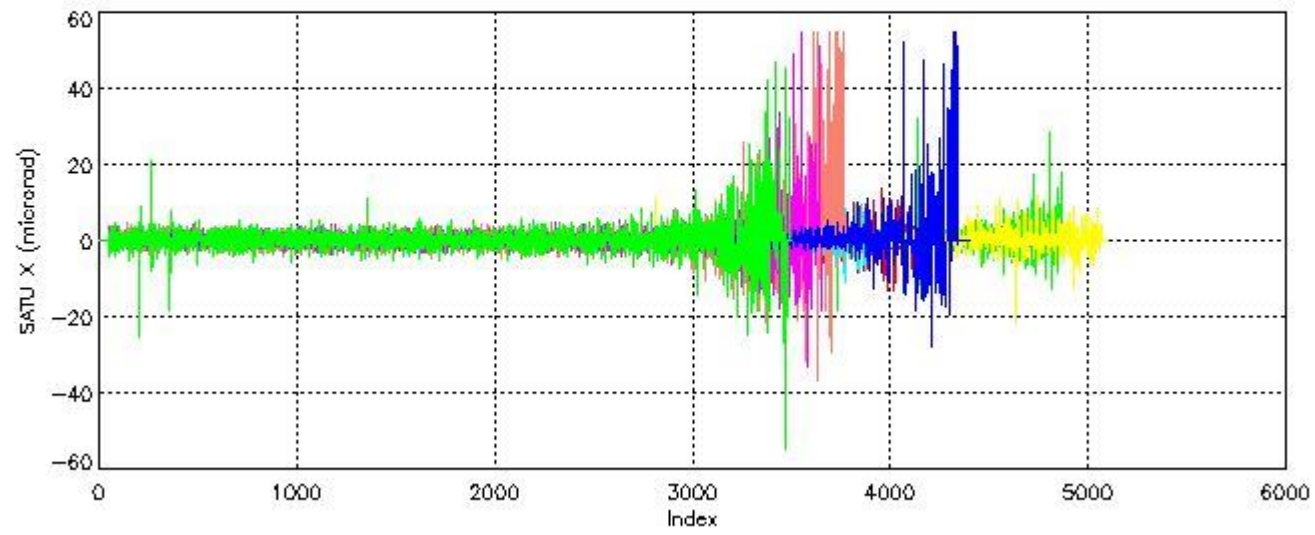


7. Star Acquisition and Tracking Unit (SATU)

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:	0.29504	-1.0909	0.19187	-1.1804
St. deviation:	0.67761	0.95618	0.96288	1.2081
Maximum:	20.900	18.200	5.9000	5.7000
Minimum:	-25.300	-34.600	-6.3000	-8.0000

Number of data:	13250.	13250.	13300.	13300.
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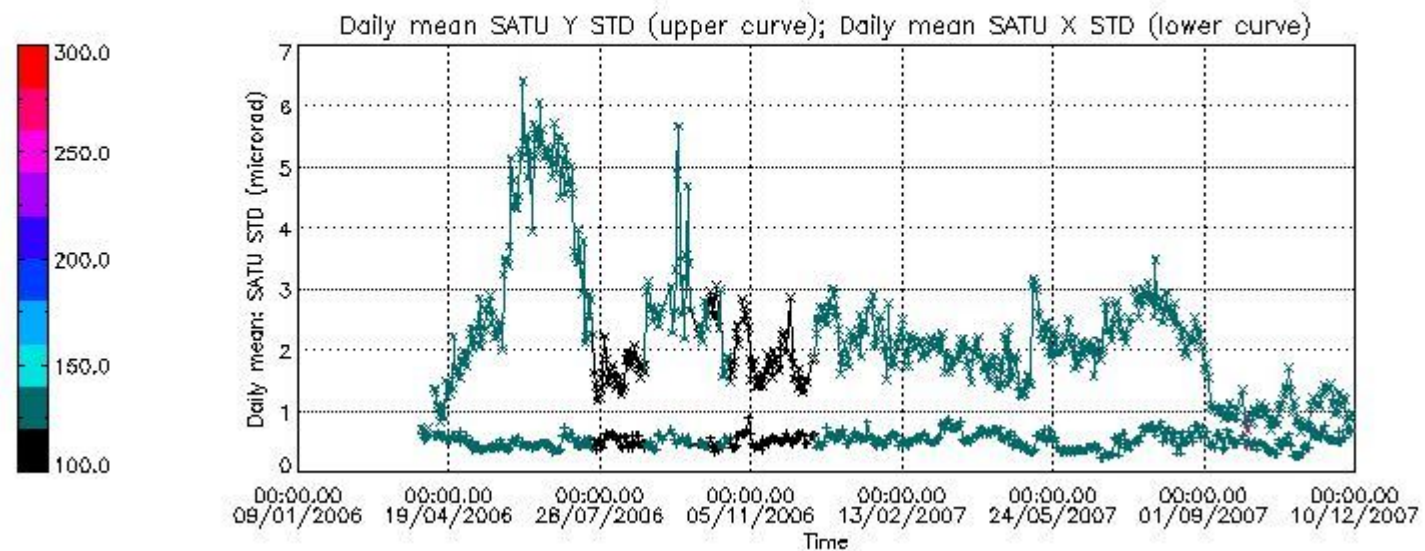
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

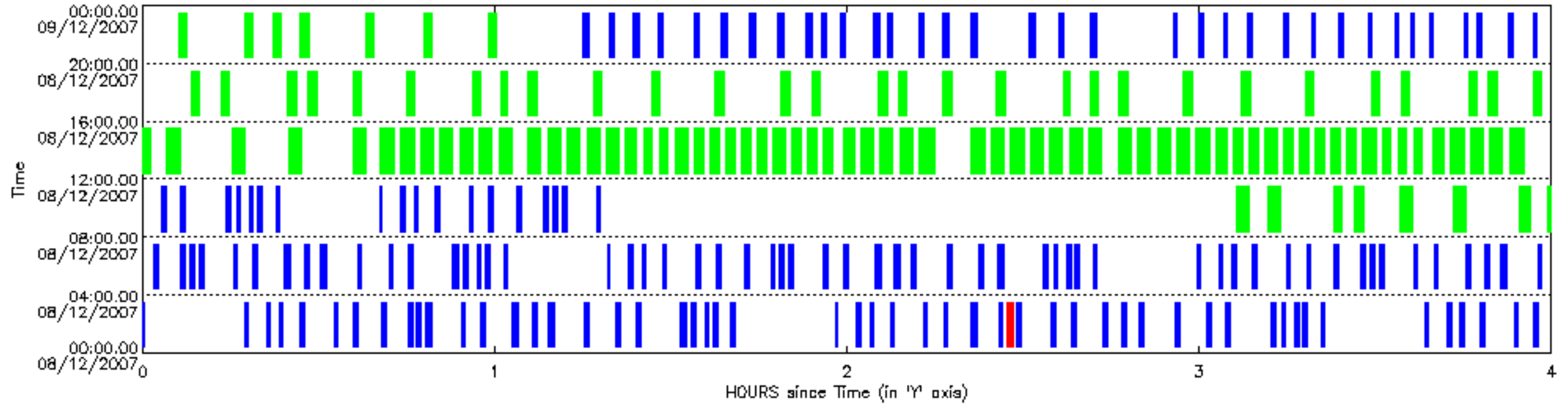
Lower curve: STD of SATU X axis

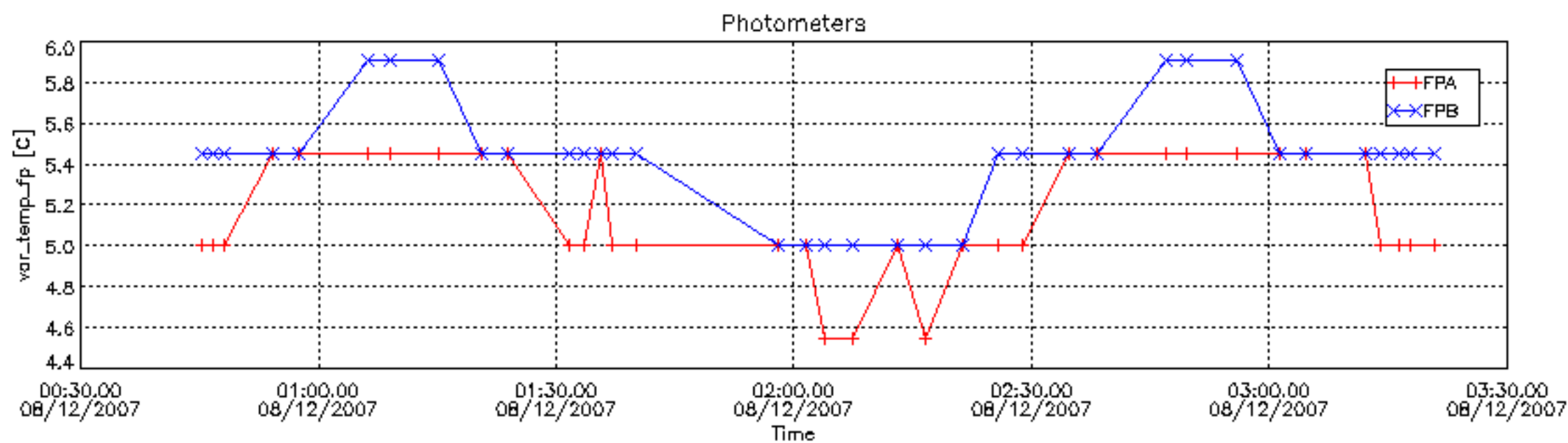
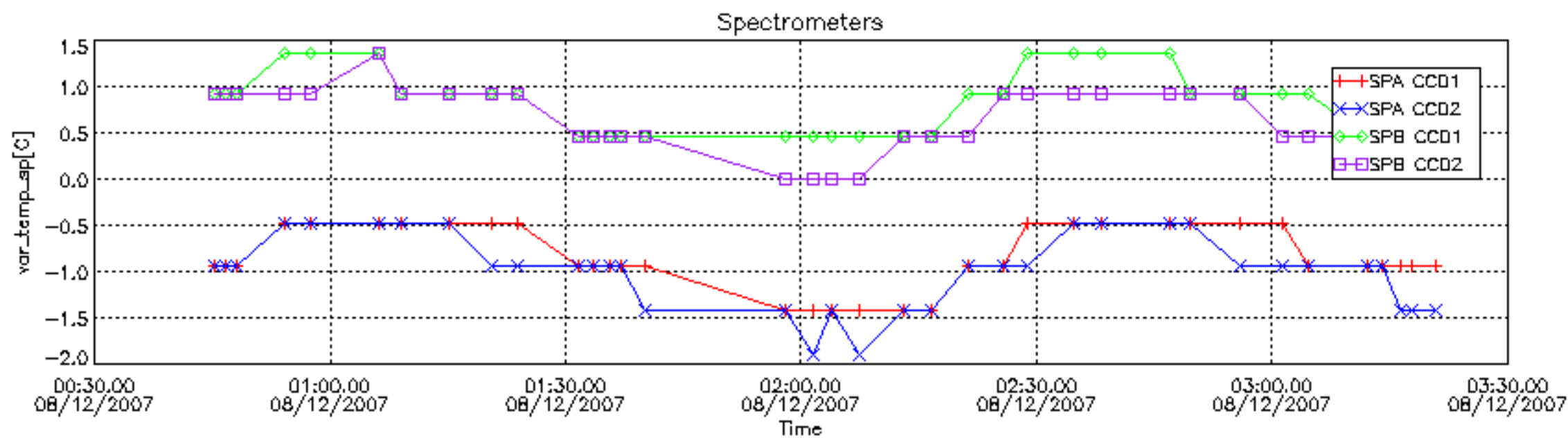


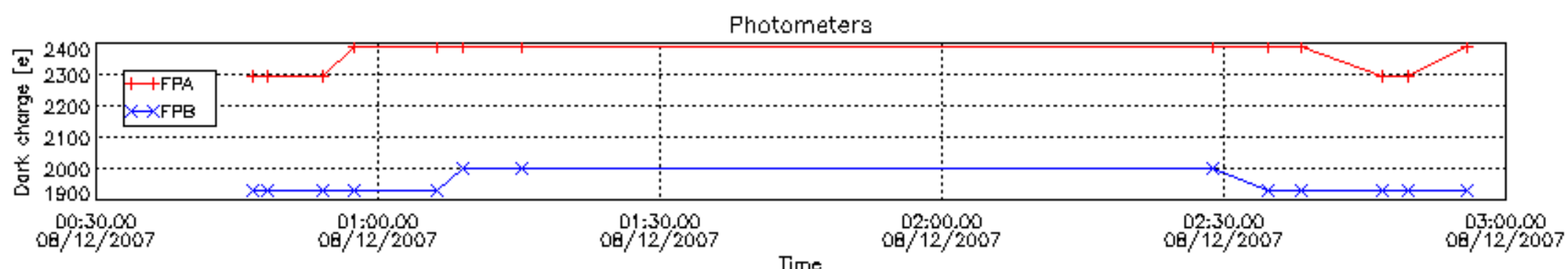
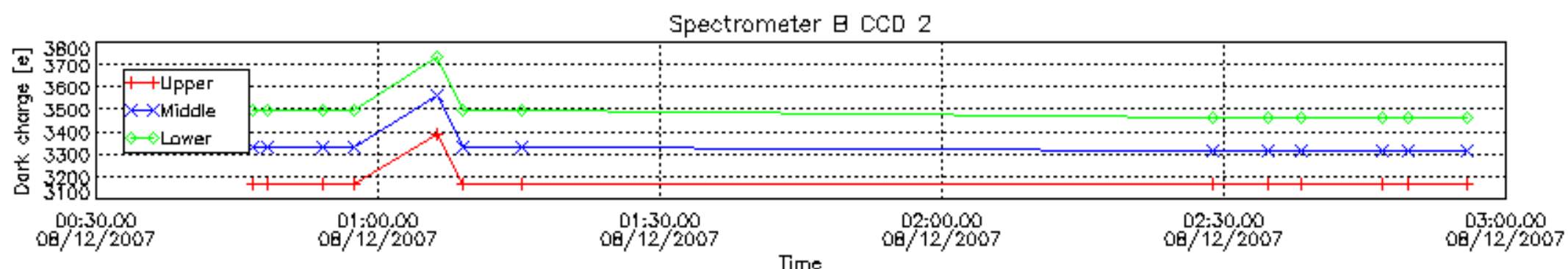
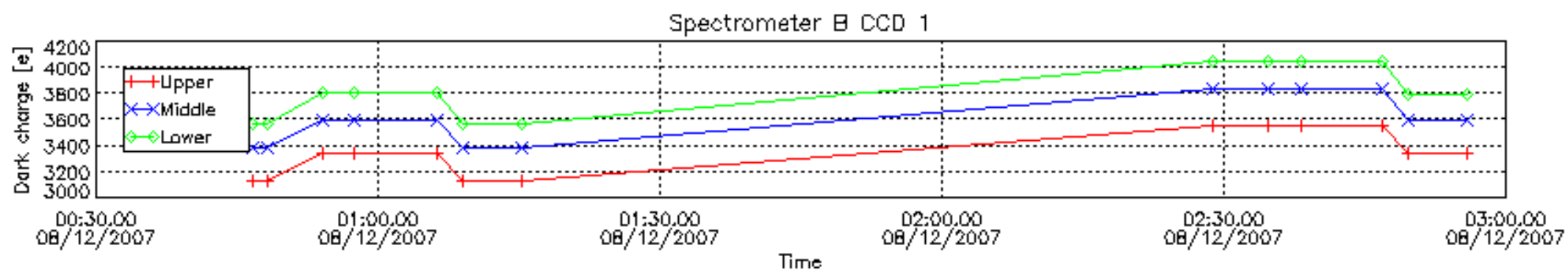
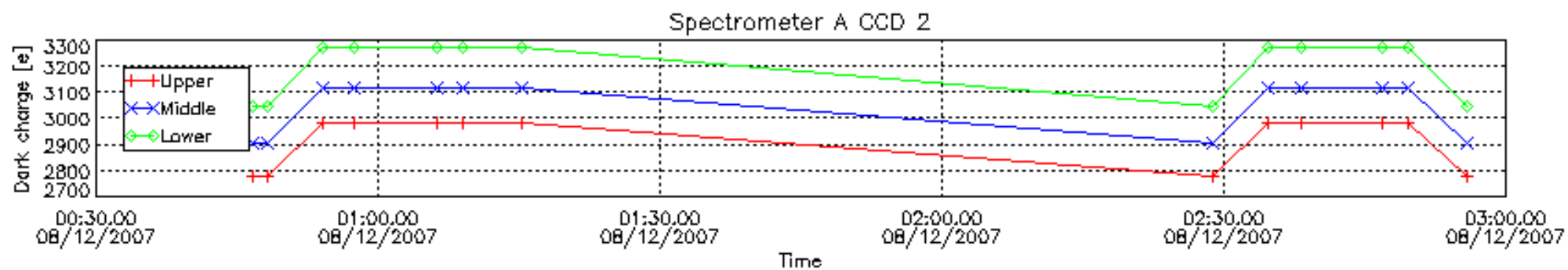
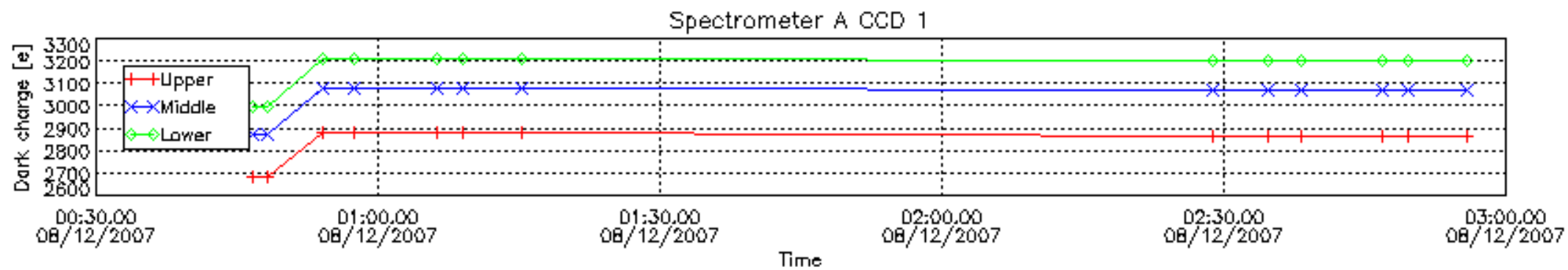
8. Auxiliary Data Files used for the production reported in section 2.4

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.

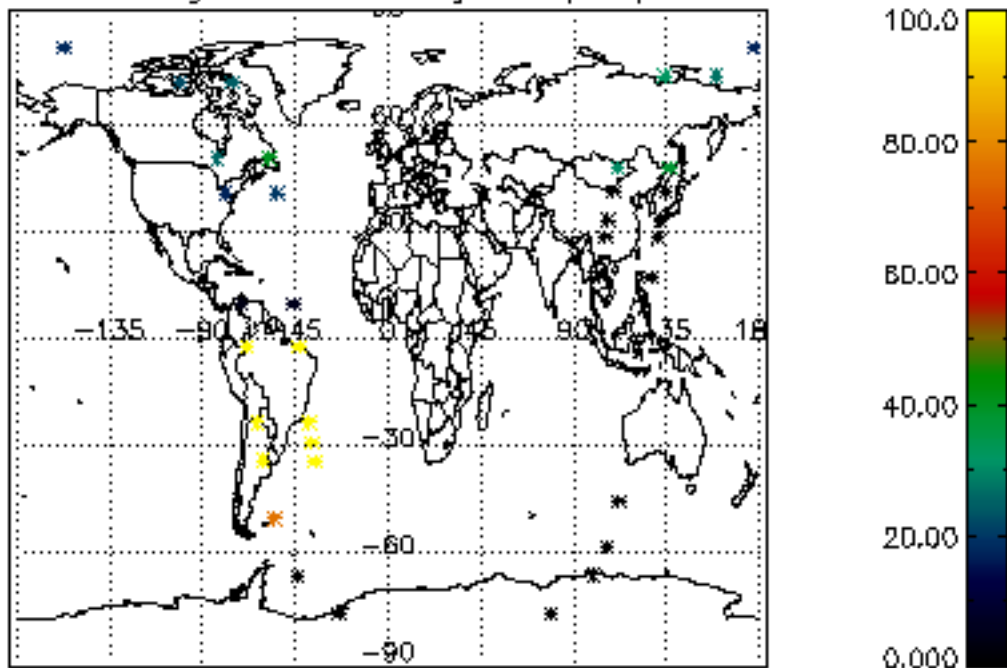
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	08-DEC-2007 00:45:10
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071207_090506_20071205_000000_20100101_000000	1	08-DEC-2007 00:45:10
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-DEC-2007 00:45:10
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-DEC-2007 00:45:10
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-DEC-2007 00:45:10
ECMWF_FILE	AUX_ECF_AXNECM20071207_063111_20071207_210000_20071208_090000	1	08-DEC-2007 00:45:10
OPTIONAL_ECMWF_FILE	MISSING	1	08-DEC-2007 00:45:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071208_003911_000054192064_00059_30173_4708.N1	1	08-DEC-2007 00:45:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071207_225814_000057382064_00058_30172_4707.N1	13	08-DEC-2007 01:35:44



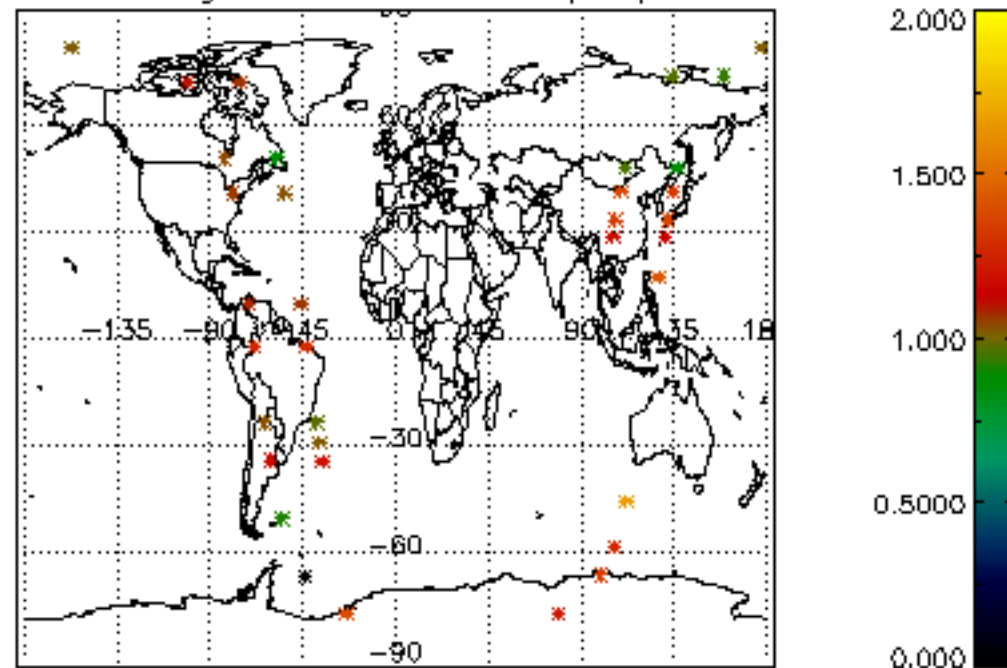




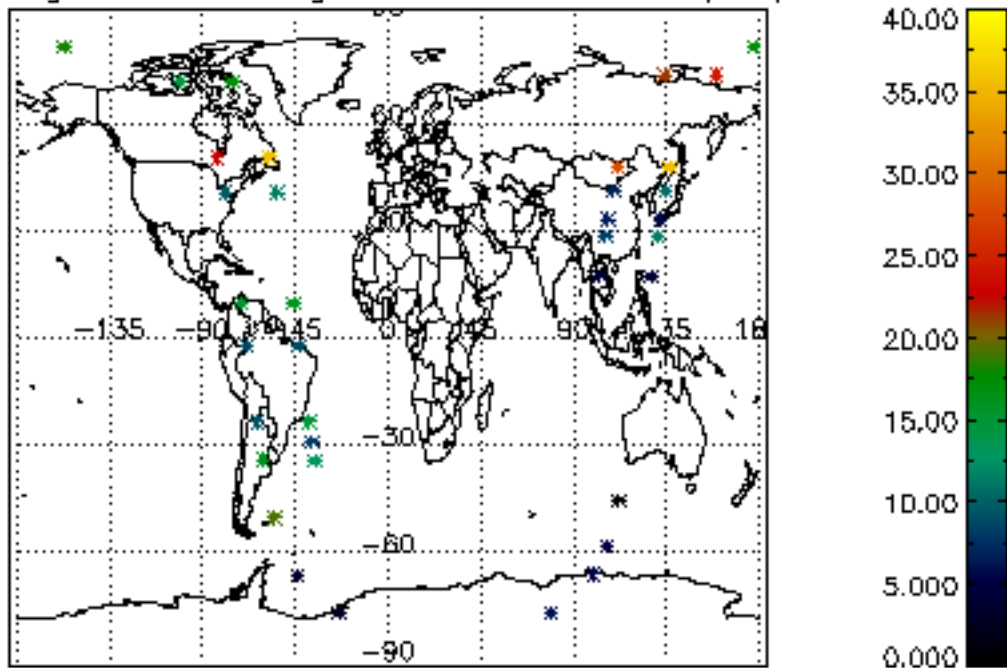
Percentage of cosmic ray hits per profile



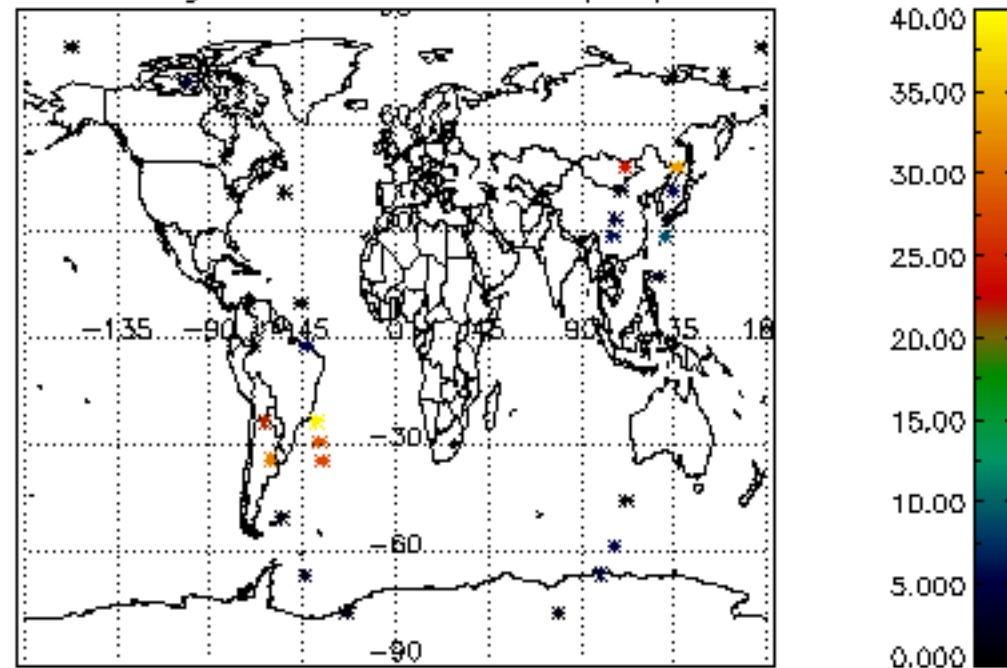
Percentage of datation errors per profile



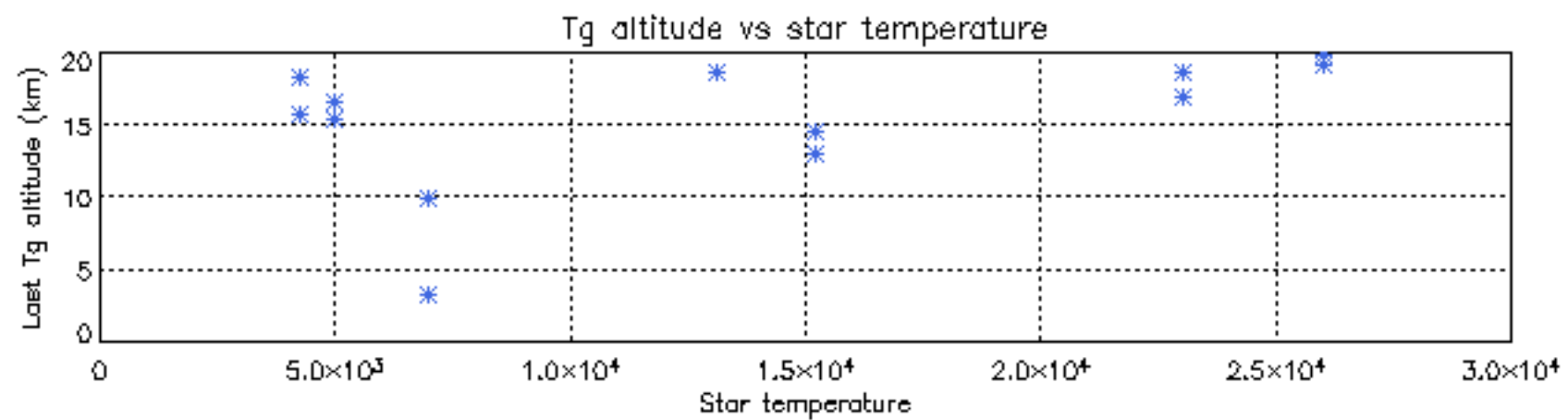
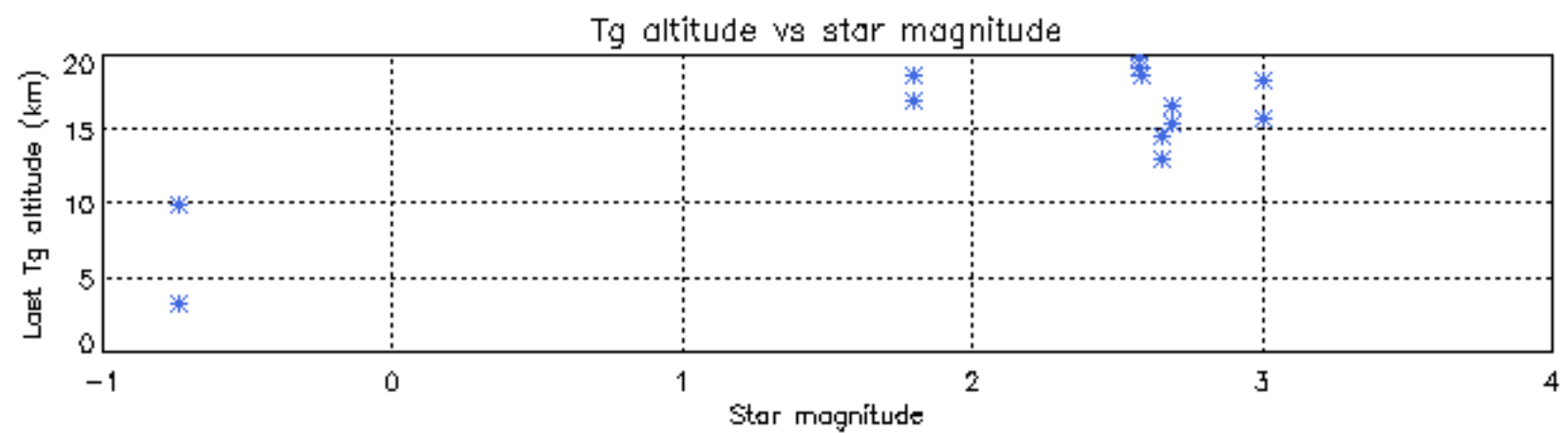
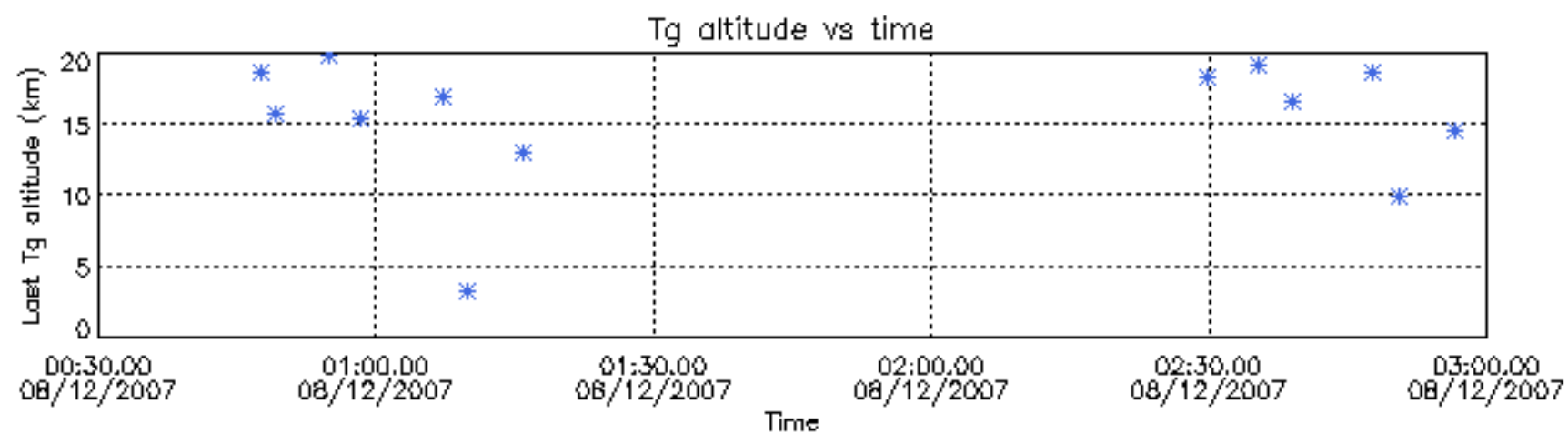
Percentage of star falling outside central band per profile



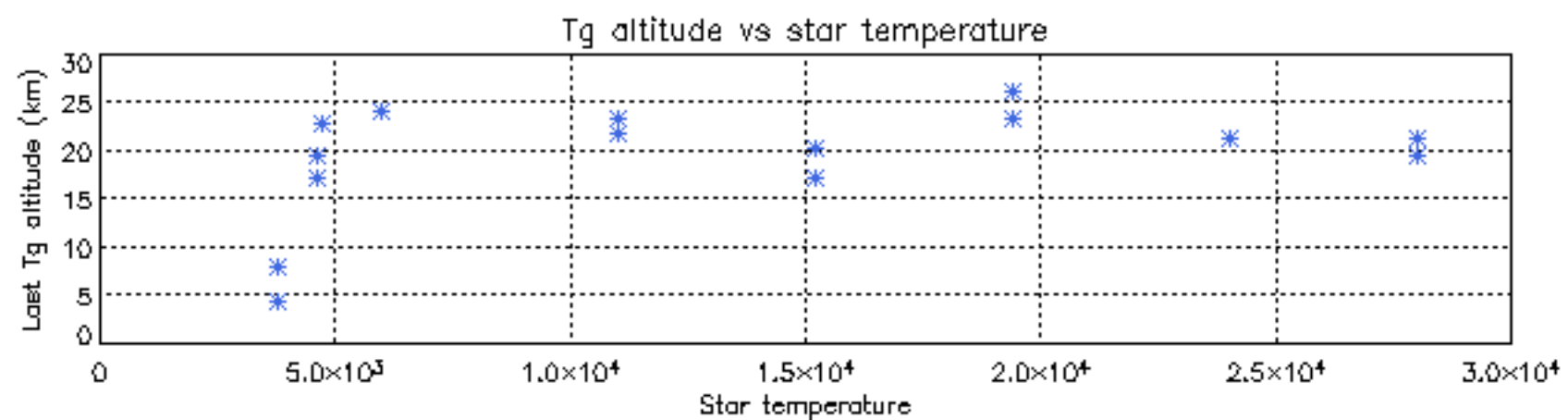
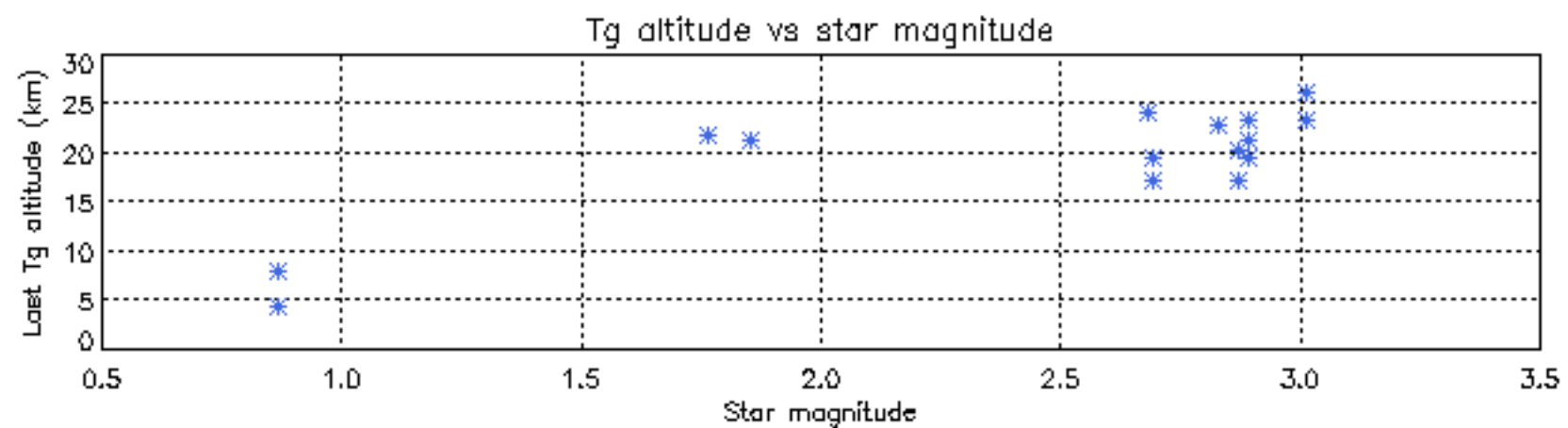
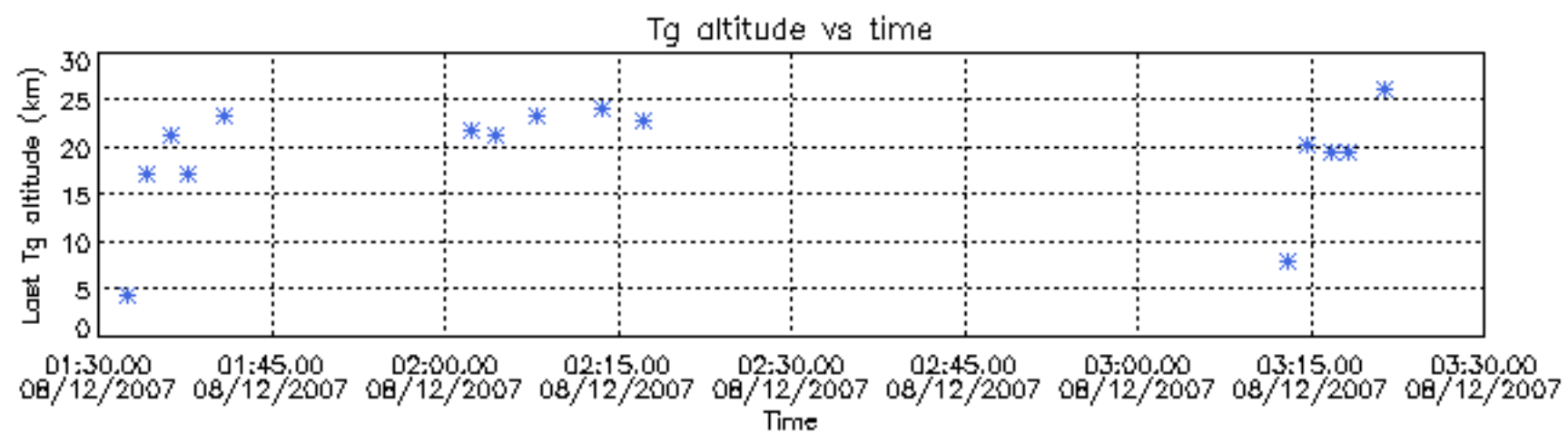
Percentage of saturation errors per profile

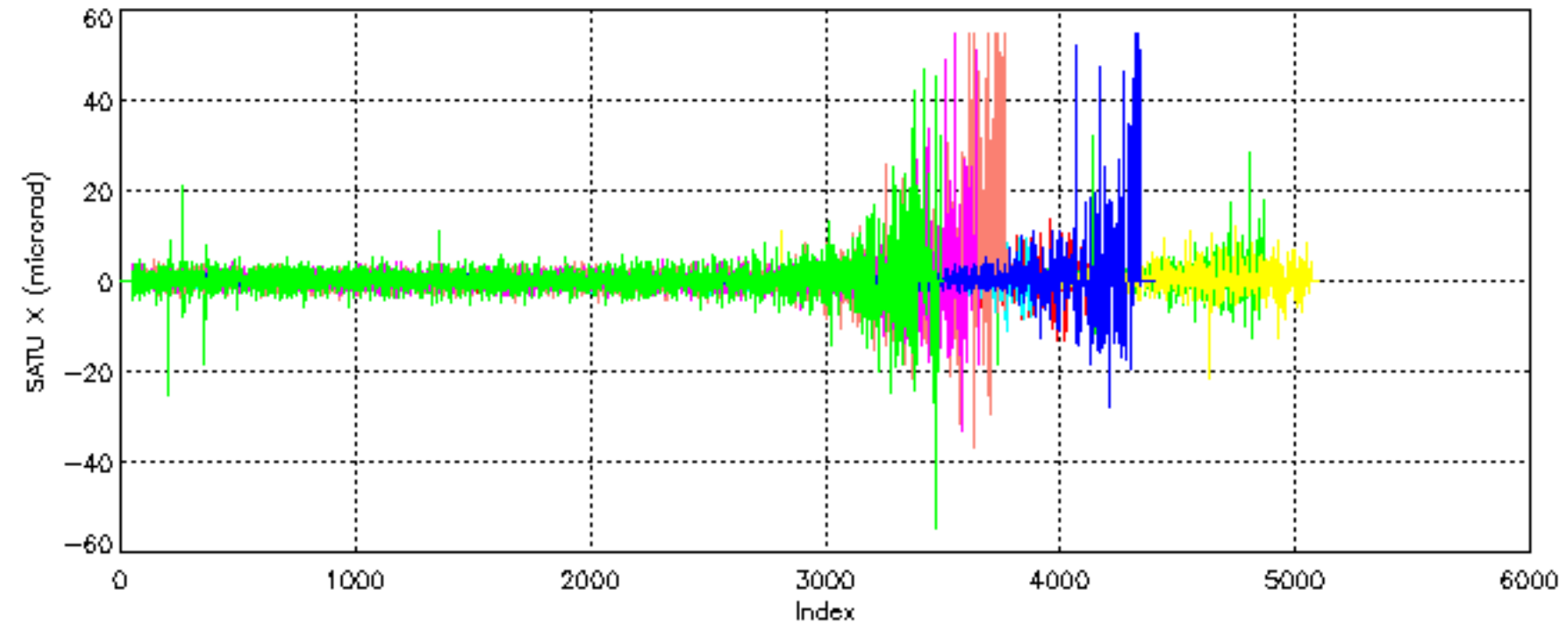


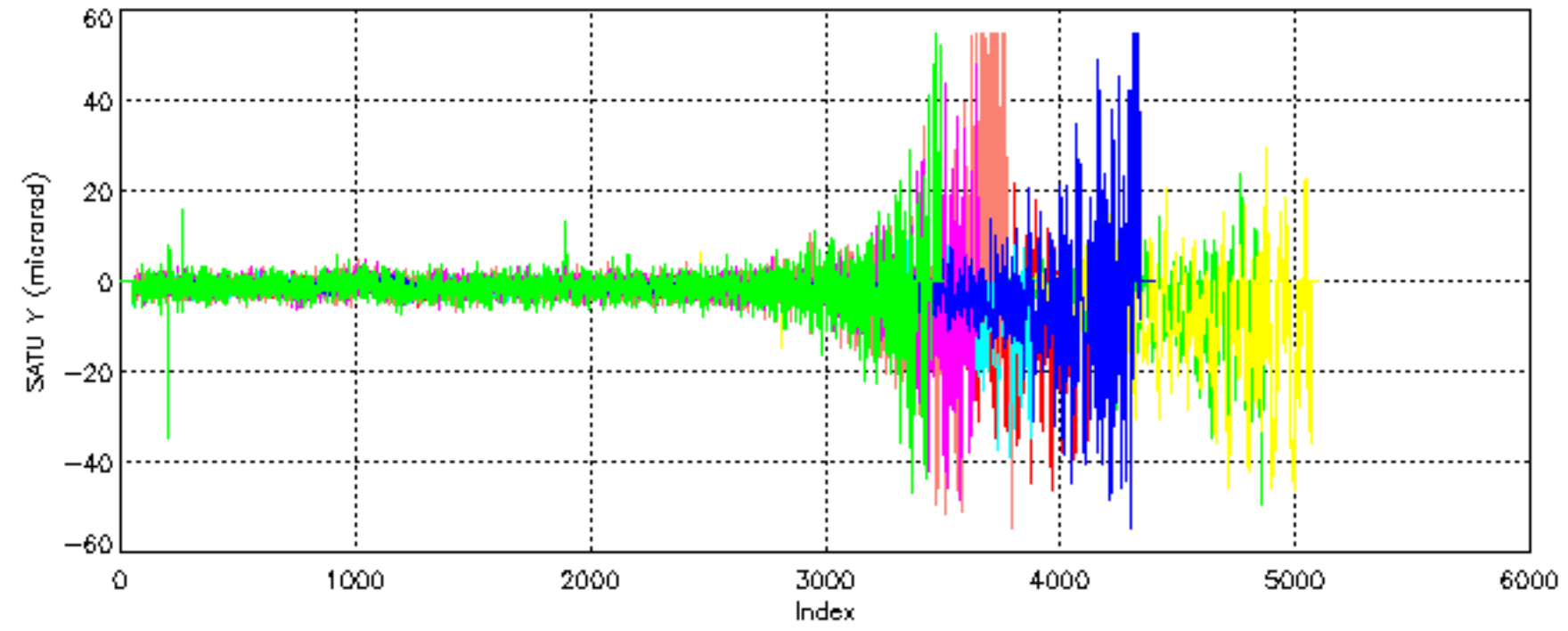
Tangent altitude at which the star is lost

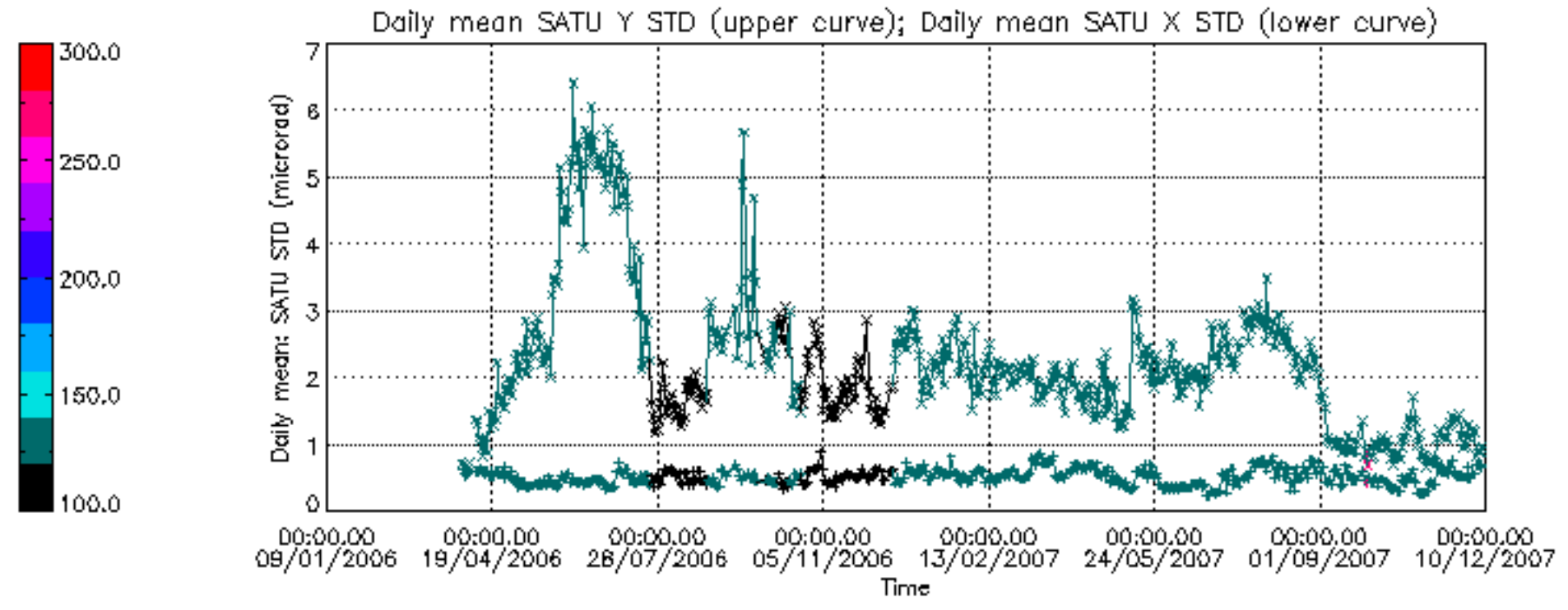


Tangent altitude at which the star is lost









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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
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 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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 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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 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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 14; 203.3; 01-DEC-2007 04:39:30; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30076
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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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9; 466.4; 13-DEC-2007 01:45:42; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30246
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20;	3697.8;	27-DEC-2007	01:59:20;	Bright;	;	37.0;	60;	7Bet UMi	;	2.08;	3950;occ;	74;	0;	30446
21;	3917.1;	27-DEC-2007	02:02:59;	Bright;	;	35.0;	119;	14Eta Dra	;	2.73;	4700;occ;	70;	0;	30446
22;	4409.2;	27-DEC-2007	02:11:11;	Bright;	;	50.0;	133;	40Zet Her	;	2.81;	6000;occ;	100;	0;	30446
23;	4532.3;	27-DEC-2007	02:13:15;	Bright;	;	35.5;	67;	5Alp CrB	;	2.22;	11000;occ;	71;	0;	30446
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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3;	-223.9;	27-DEC-2007	02:34:34;	Dark	;	37.5;	78;	Alp Lup	;	2.30;	28000;occ;	75;	0;	30446
4;	-148.0;	27-DEC-2007	02:35:50;	Dark	;	38.5;	95;	Zet Cen	;	2.55;	26000;occ;	77;	0;	30446
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17;	2192.2;	27-DEC-2007	03:14:50;	Dark	;	52.0;	13;	87Alp Tau	;	0.87;	3800;occ;	104;	0;	30447
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19;	2598.5;	27-DEC-2007	03:21:37;	Bright;	;	34.0;	149;	45Eps Per	;	2.89;	30000;occ;	68;	0;	30447
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15;	588.3;	27-DEC-2007	04:28:42;	Dark	;	40.0;	71;	Iot Car	;	2.25;	7700;occ;	80;	0;	30448
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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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17; 2200.0; 01-JAN-2008 00:36:53; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30517
18; 2398.2; 01-JAN-2008 00:40:11; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30517
19; 2472.4; 01-JAN-2008 00:41:26; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;30517
20; 2611.4; 01-JAN-2008 00:43:45; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;30517
21; 2693.4; 01-JAN-2008 00:45:07; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30517
22; 3423.4; 01-JAN-2008 00:57:17; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30517
23; 3691.7; 01-JAN-2008 01:01:45; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30517
24; 3921.7; 01-JAN-2008 01:05:35; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30517
25; 4047.2; 01-JAN-2008 01:07:40; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;30517
26; 4420.9; 01-JAN-2008 01:13:54; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30517
27; 4544.8; 01-JAN-2008 01:15:58; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30517
28; 4888.5; 01-JAN-2008 01:21:42; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;30517
29; 5028.2; 01-JAN-2008 01:24:01; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30517
30; 5191.3; 01-JAN-2008 01:26:45; Bright; 54.5; 104; 27Bet Lib ; 2.61; 13100;occ; 109; 0;30517

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