

GOMOS Daily Report 11-AUG-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	13AUG2007 05:42:48
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (11AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (12AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

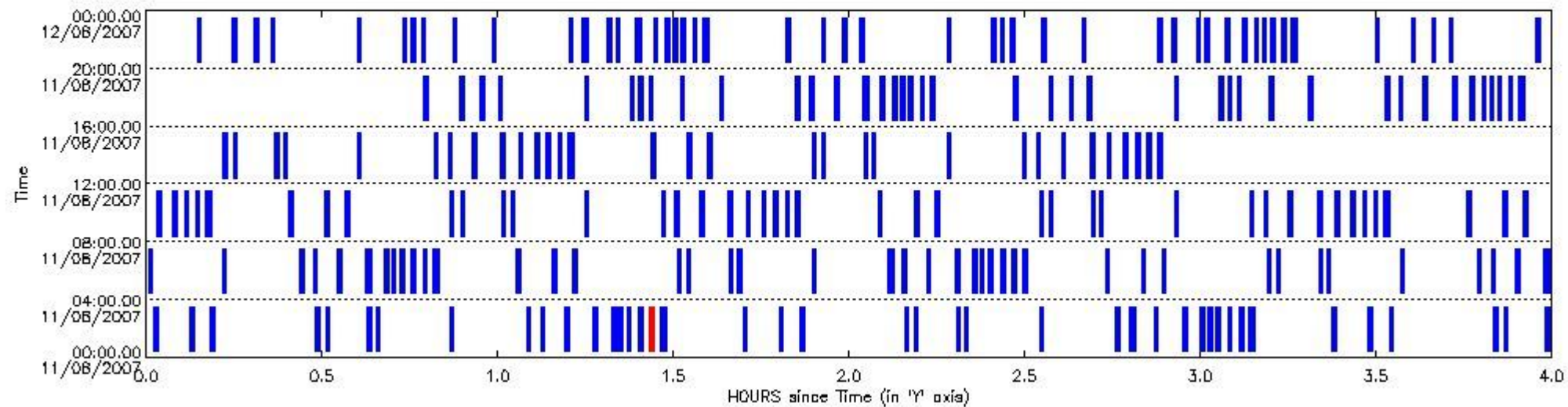
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

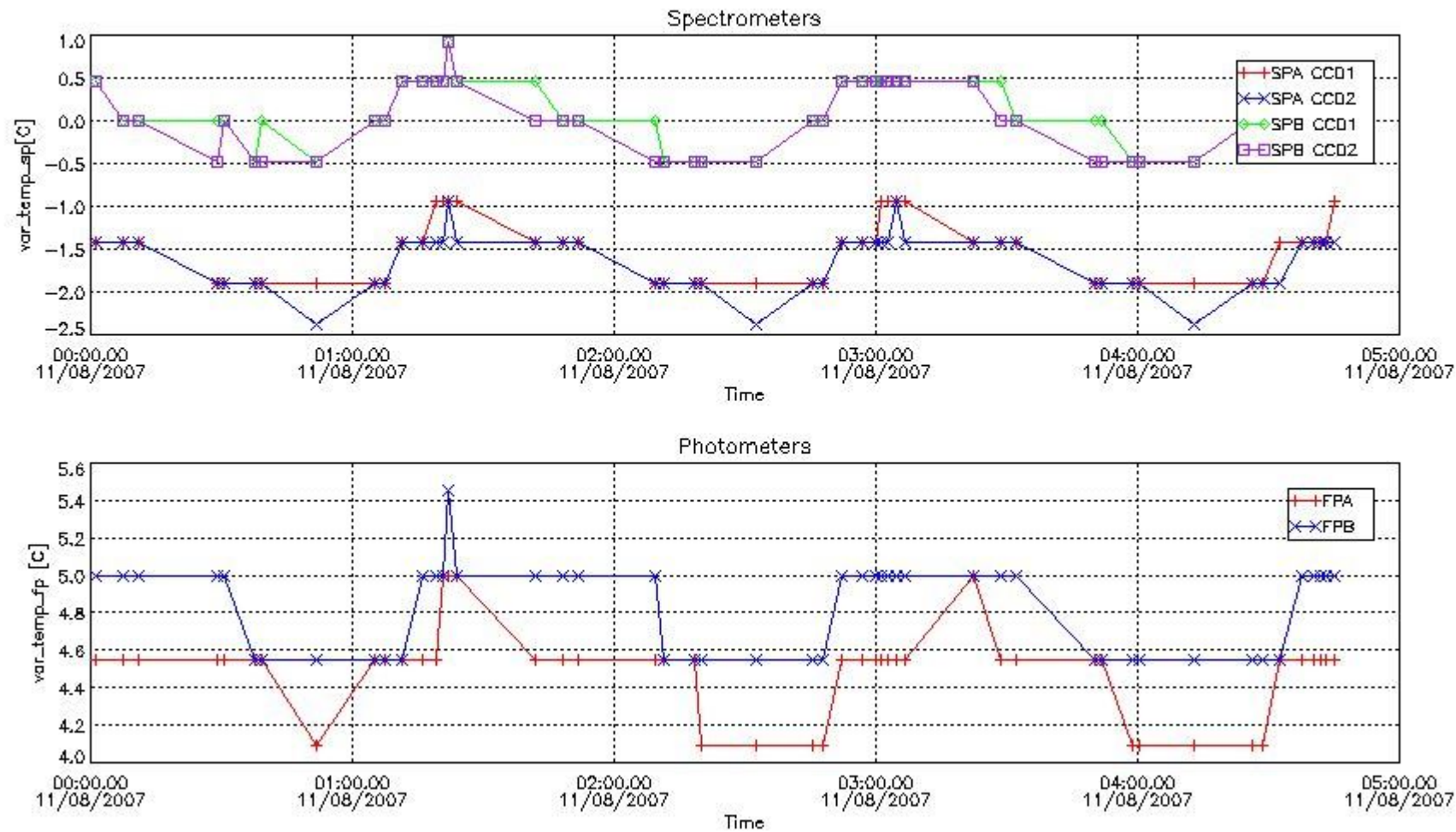
UTC start time	Star name	Star ID	Orbit
11-AUG-2007 01:25:56	1ZetCMa	177	28470

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_1PNPDE20070811_000116_000000432060_00360_28470_2374.N1	11-AUG-2007 00:01:16	Dark	43.000	9	Alp Eri	0.45300	24000.	86	28470	No
2	GOM_TRA_1PNPDE20070811_000728_000000492060_00360_28470_2375.N1	11-AUG-2007 00:07:28	Straylight	48.500	148	Alp Tuc	2.8780	4100.0	97	28470	No
3	GOM_TRA_1PNPDE20070811_001058_000000442060_00360_28470_2376.N1	11-AUG-2007 00:10:58	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	28470	No
4	GOM_TRA_1PNPDE20070811_002854_000000372060_00360_28470_2377.N1	11-AUG-2007 00:28:54	Bright	37.000	11	53Alp Aql	0.76500	8000.0	74	28470	No
5	GOM_TRA_1PNPDE20070811_003036_000000362060_00360_28470_2378.N1	11-AUG-2007 00:30:36	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	28470	No
6	GOM_TRA_1PNPDE20070811_003744_000000402060_00360_28470_2379.N1	11-AUG-2007 00:37:44	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	28470	No
7	GOM_TRA_1PNPDE20070811_003912_000000342060_00360_28470_2380.N1	11-AUG-2007 00:39:12	Bright	34.000	144	18Del Cyg	2.8600	11000.	68	28470	No
8	GOM_TRA_1PNPDE20070811_005154_000000342060_00360_28470_2381.N1	11-AUG-2007 00:51:54	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28470	No
9	GOM_TRA_1PNPDE20070811_010455_000000362060_00360_28470_2382.N1	11-AUG-2007 01:04:55	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	28470	No
10	GOM_TRA_1PNPDE20070811_010716_000000382060_00360_28470_2383.N1	11-AUG-2007 01:07:16	Bright	38.000	107	37The Aur	2.6490	11000.	76	28470	No

11	GOM_TRA_1PNPDE20070811_011125_000000462060_00360_28470_2384.N1	11-AUG-2007 01:11:25	Bright	46.000	151	13Mu Gem	2.8900	3000.0	92	28470	No
12	GOM_TRA_1PNPDE20070811_011616_000000512060_00360_28470_2385.N1	11-AUG-2007 01:16:16	Dark	51.000	14	58Alp Ori	0.87000	3000.0	102	28470	No
13	GOM_TRA_1PNPDE20070811_011921_000000492060_00360_28470_2386.N1	11-AUG-2007 01:19:21	Dark	48.500	33	50Zet Ori	1.7660	30000.	97	28470	No
14	GOM_TRA_1PNPDE20070811_012038_000000452060_00360_28470_2387.N1	11-AUG-2007 01:20:38	Dark	44.500	125	44Iot Ori	2.7700	30000.	89	28470	No
15	GOM_TRA_1PNPDE20070811_012202_000000442060_00360_28470_2507.N1	11-AUG-2007 01:22:02	Dark	43.500	1	9Alp CMa	-1.4400	11000.	87	28470	Yes
16	GOM_TRA_1PNPDE20070811_012402_000000412060_00360_28470_2508.N1	11-AUG-2007 01:24:02	Dark	40.500	101	11Alp Lep	2.5820	7000.0	81	28470	No
17	GOM_TRA_1PNPDE20070811_014153_000000442060_00361_28471_2509.N1	11-AUG-2007 01:41:53	Dark	44.000	9	Alp Eri	0.45300	24000.	88	28471	No
18	GOM_TRA_1PNPDE20070811_014805_000000422060_00361_28471_2510.N1	11-AUG-2007 01:48:05	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	28471	No
19	GOM_TRA_1PNPDE20070811_015135_000000432060_00361_28471_2511.N1	11-AUG-2007 01:51:35	Straylight	42.500	31	Alp Gru	1.7340	15200.	85	28471	No
20	GOM_TRA_1PNPDE20070811_020930_000000372060_00361_28471_2512.N1	11-AUG-2007 02:09:30	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	28471	No
21	GOM_TRA_1PNPDE20070811_021112_000000362060_00361_28471_2513.N1	11-AUG-2007 02:11:12	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	28471	No
22	GOM_TRA_1PNPDE20070811_021820_000000392060_00361_28471_2514.N1	11-AUG-2007 02:18:20	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	28471	No
23	GOM_TRA_1PNPDE20070811_021948_000000342060_00361_28471_2515.N1	11-AUG-2007 02:19:48	Bright	34.000	144	18Del Cyg	2.8600	11000.	68	28471	No
24	GOM_TRA_1PNPDE20070811_023230_000000362060_00361_28471_2516.N1	11-AUG-2007 02:32:30	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	28471	No
25	GOM_TRA_1PNPDE20070811_024531_000000372060_00361_28471_2675.N1	11-AUG-2007 02:45:31	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	28471	No
26	GOM_TRA_1PNPDE20070811_024752_000000562060_00361_28471_2676.N1	11-AUG-2007 02:47:52	Bright	56.000	107	37The Aur	2.6490	11000.	112	28471	No
27	GOM_TRA_1PNPDE20070811_025201_000000442060_00361_28471_2677.N1	11-AUG-2007 02:52:01	Bright	43.500	151	13Mu Gem	2.8900	3000.0	87	28471	No
28	GOM_TRA_1PNPDE20070811_025652_000000552060_00361_28471_2678.N1	11-AUG-2007 02:56:52	Dark	54.500	14	58Alp Ori	0.87000	3000.0	109	28471	No
29	GOM_TRA_1PNPDE20070811_025957_000000452060_00361_28471_2679.N1	11-AUG-2007 02:59:57	Dark	45.000	33	50Zet Ori	1.7660	30000.	90	28471	No
30	GOM_TRA_1PNPDE20070811_030115_000000432060_00361_28471_2680.N1	11-AUG-2007 03:01:15	Dark	42.500	125	44Iot Ori	2.7700	30000.	85	28471	No
31	GOM_TRA_1PNPDE20070811_030238_000000452060_00361_28471_2681.N1	11-AUG-2007 03:02:38	Dark	45.000	1	9Alp CMa	-1.4400	11000.	90	28471	No
32	GOM_TRA_1PNPDE20070811_030438_000000432060_00361_28471_2682.N1	11-AUG-2007 03:04:38	Dark	43.000	101	11Alp Lep	2.5820	7000.0	86	28471	No
33	GOM_TRA_1PNPDE20070811_030640_000000382060_00361_28471_2683.N1	11-AUG-2007 03:06:40	Dark	37.500	177	1Zet CMa	3.0220	26000.	75	28471	No
34	GOM_TRA_1PNPDE20070811_032230_000000462060_00362_28472_2684.N1	11-AUG-2007 03:22:30	Dark	46.000	9	Alp Eri	0.45300	24000.	92	28472	No
35	GOM_TRA_1PNPDE20070811_032841_000000432060_00362_28472_2685.N1	11-AUG-2007 03:28:41	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28472	No
36	GOM_TRA_1PNPDE20070811_033211_000000422060_00362_28472_2686.N1	11-AUG-2007 03:32:11	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	28472	No
37	GOM_TRA_1PNPDE20070811_035006_000000372060_00362_28472_2687.N1	11-AUG-2007 03:50:06	Bright	36.500	11	53Alp Aql	0.76500	8000.0	73	28472	No
38	GOM_TRA_1PNPDE20070811_035148_000000362060_00362_28472_2688.N1	11-AUG-2007 03:51:48	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	28472	No
39	GOM_TRA_1PNPDE20070811_035857_000000382060_00362_28472_2689.N1	11-AUG-2007 03:58:57	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	28472	No
40	GOM_TRA_1PNPDE20070811_040024_000000352060_00362_28472_2690.N1	11-AUG-2007 04:00:24	Bright	35.000	144	18Del Cyg	2.8600	11000.	70	28472	No
41	GOM_TRA_1PNPDE20070811_041306_000000332060_00362_28472_2691.N1	11-AUG-2007 04:13:06	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28472	No
42	GOM_TRA_1PNPDE20070811_042607_000000552060_00362_28472_2845.N1	11-AUG-2007 04:26:07	Bright	55.000	42	34Bet Aur	1.9000	10200.	110	28472	No
43	GOM_TRA_1PNPDE20070811_042828_000000382060_00362_28472_2846.N1	11-AUG-2007 04:28:28	Bright	37.500	107	37The Aur	2.6490	11000.	75	28472	No
44	GOM_TRA_1PNPDE20070811_043237_000000422060_00362_28472_2847.N1	11-AUG-2007 04:32:37	Bright	41.500	151	13Mu Gem	2.8900	3000.0	83	28472	No
45	GOM_TRA_1PNPDE20070811_043729_000000562060_00362_28472_2848.N1	11-AUG-2007 04:37:29	Dark	56.000	14	58Alp Ori	0.87000	3000.0	112	28472	No
46	GOM_TRA_1PNPDE20070811_044034_000000452060_00362_28472_2849.N1	11-AUG-2007 04:40:34	Dark	44.500	33	50Zet Ori	1.7660	30000.	89	28472	No
47	GOM_TRA_1PNPDE20070811_044151_000000332060_00362_28472_2850.N1	11-AUG-2007 04:41:51	Dark	33.000	125	44Iot Ori	2.7700	30000.	66	28472	No
48	GOM_TRA_1PNPDE20070811_044315_000000472060_00362_28472_2851.N1	11-AUG-2007 04:43:15	Dark	47.000	1	9Alp CMa	-1.4400	11000.	94	28472	No
49	GOM_TRA_1PNPDE20070811_044515_000000442060_00362_28472_2852.N1	11-AUG-2007 04:45:15	Dark	44.000	101	11Alp Lep	2.5820	7000.0	88	28472	No

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



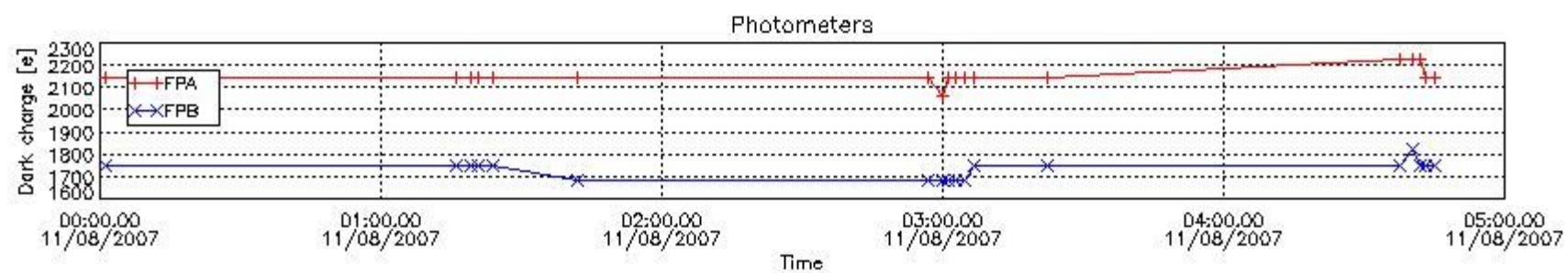
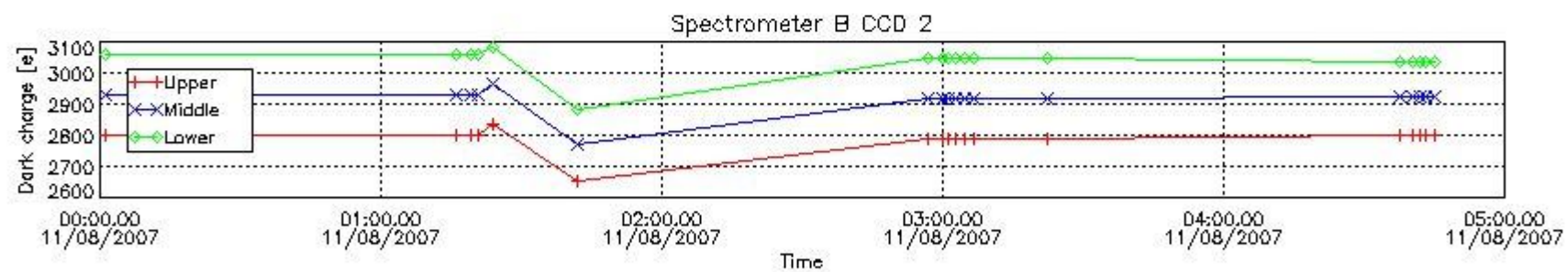
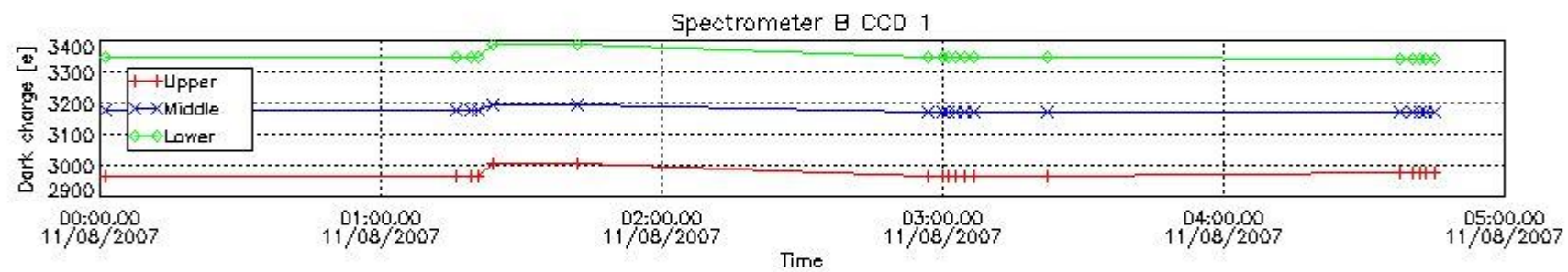
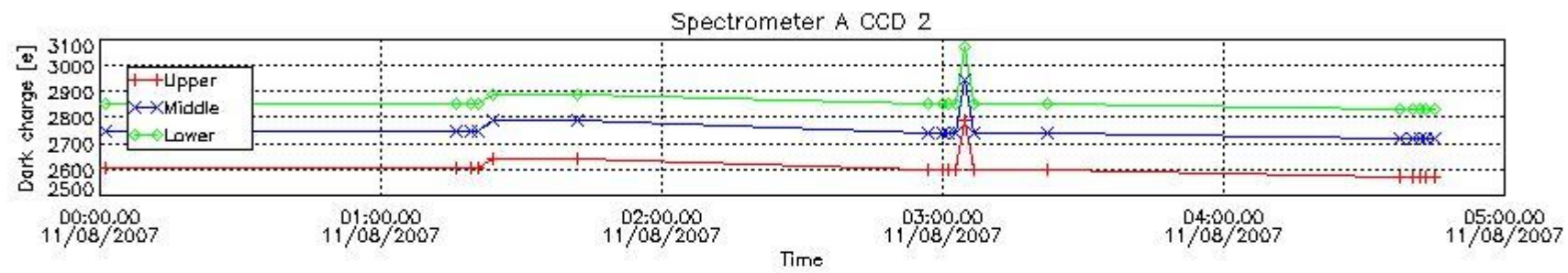
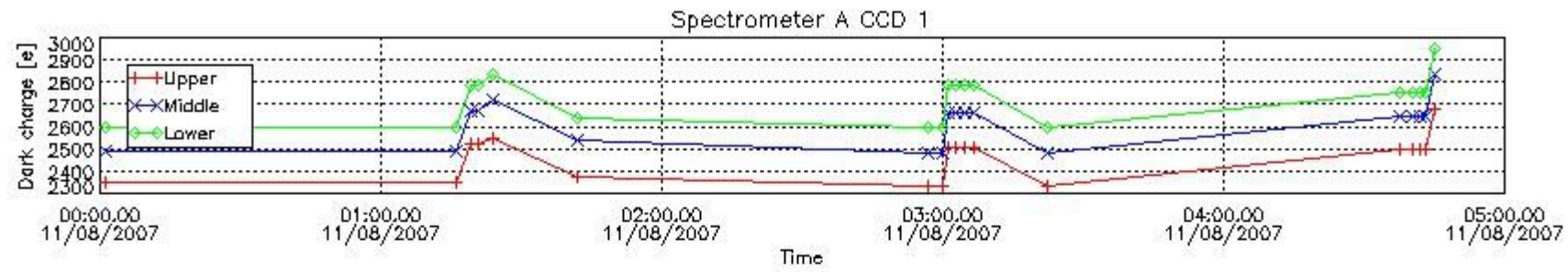
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



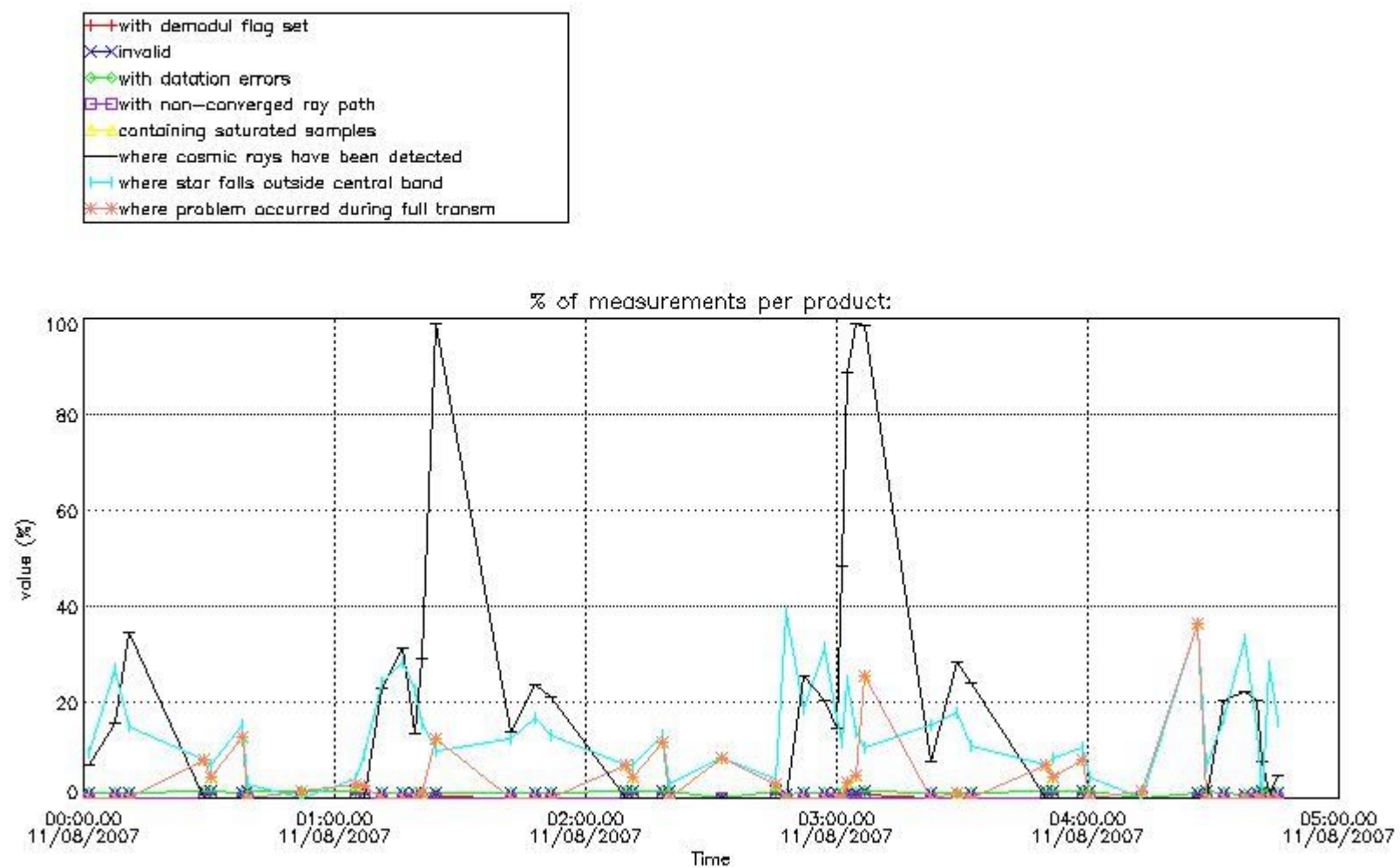
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

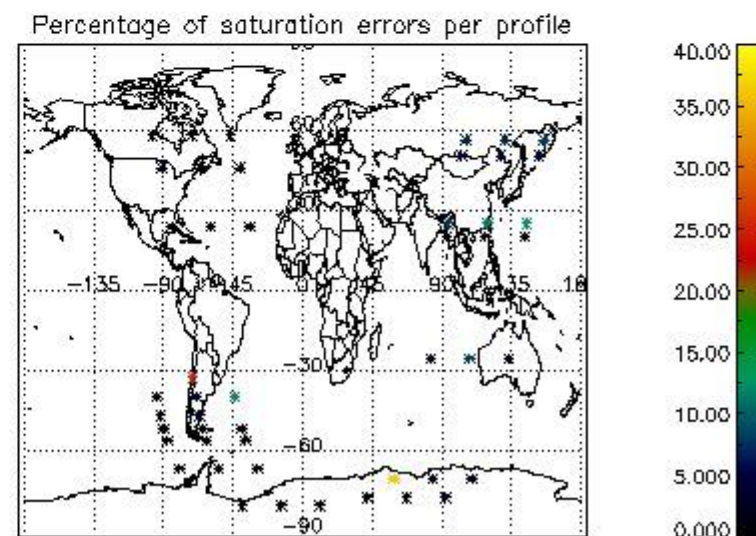
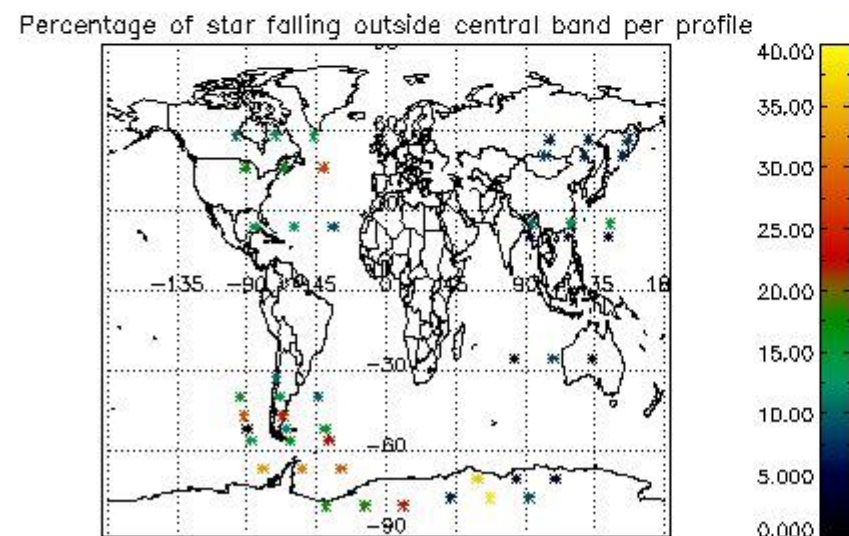
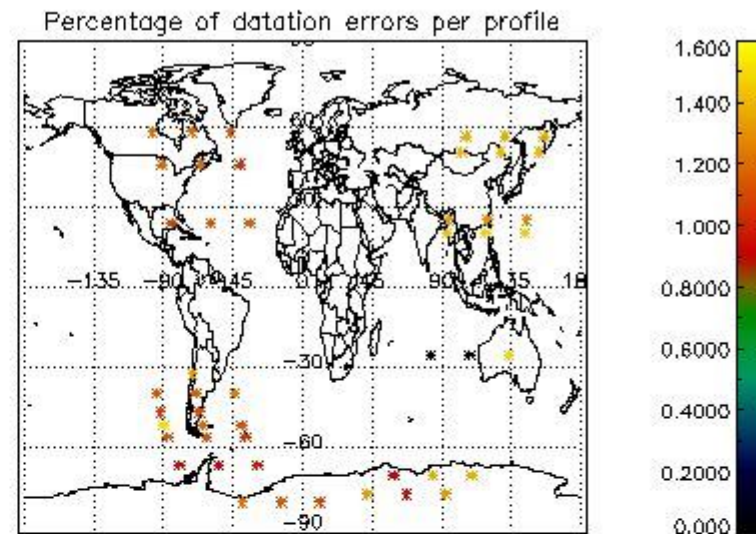
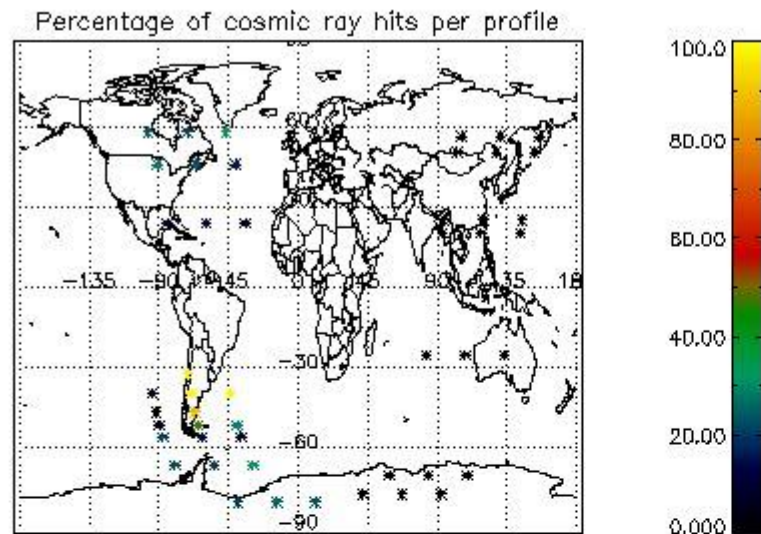
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.7500 %
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)



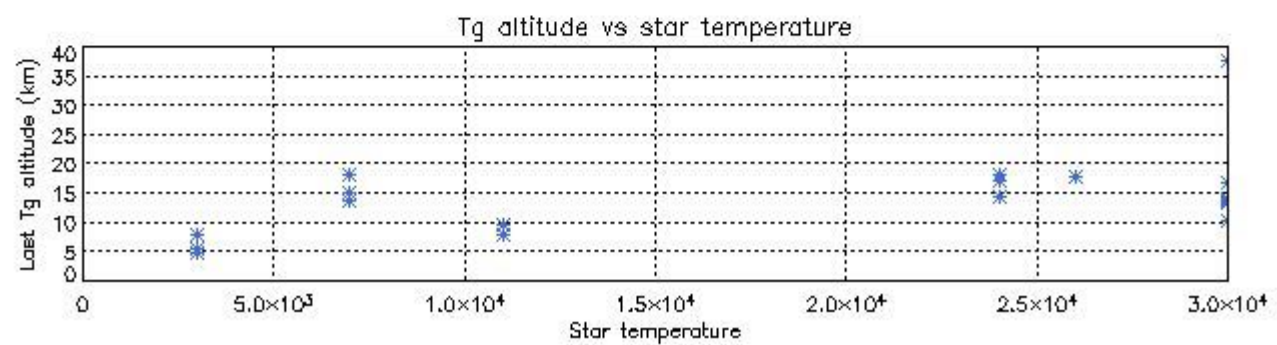
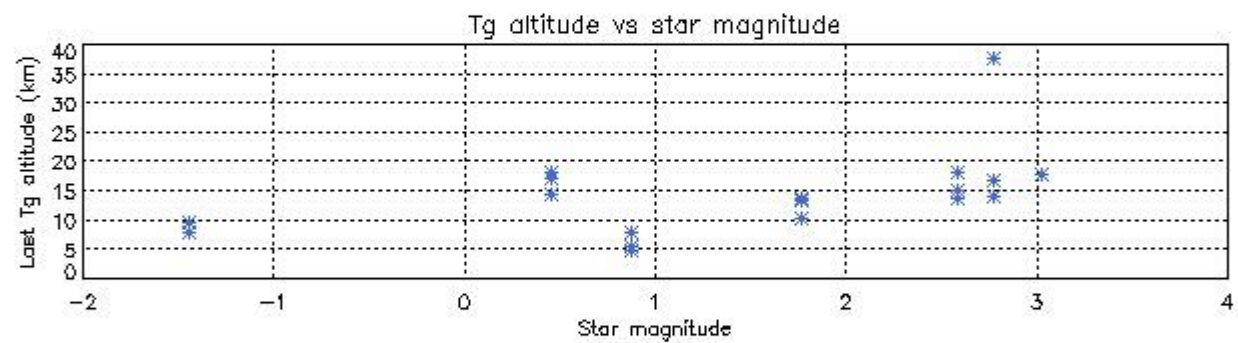
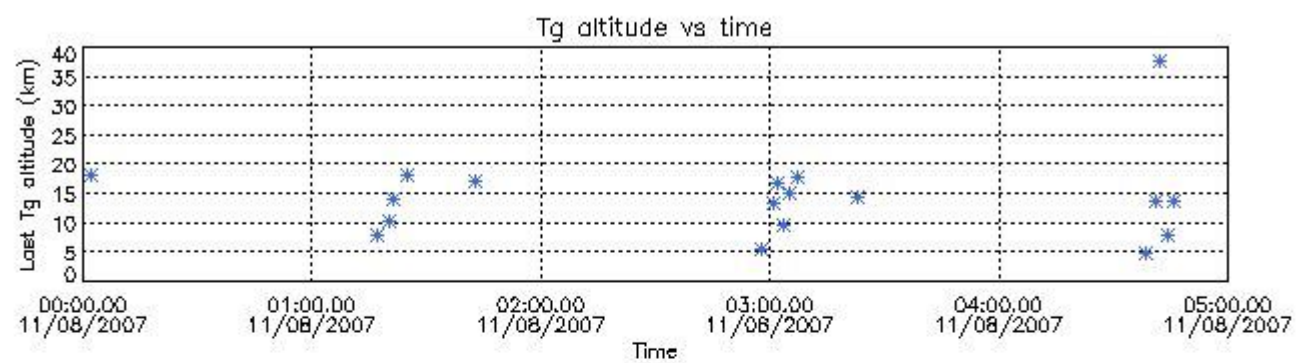
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.177	18.615	NaN
St. deviation:	7.2354	6.2467	NaN
Maximum:	37.609	27.314	NaN
Minimum:	4.8718	3.8514	NaN
Number of data:	18.000	24.000	NaN

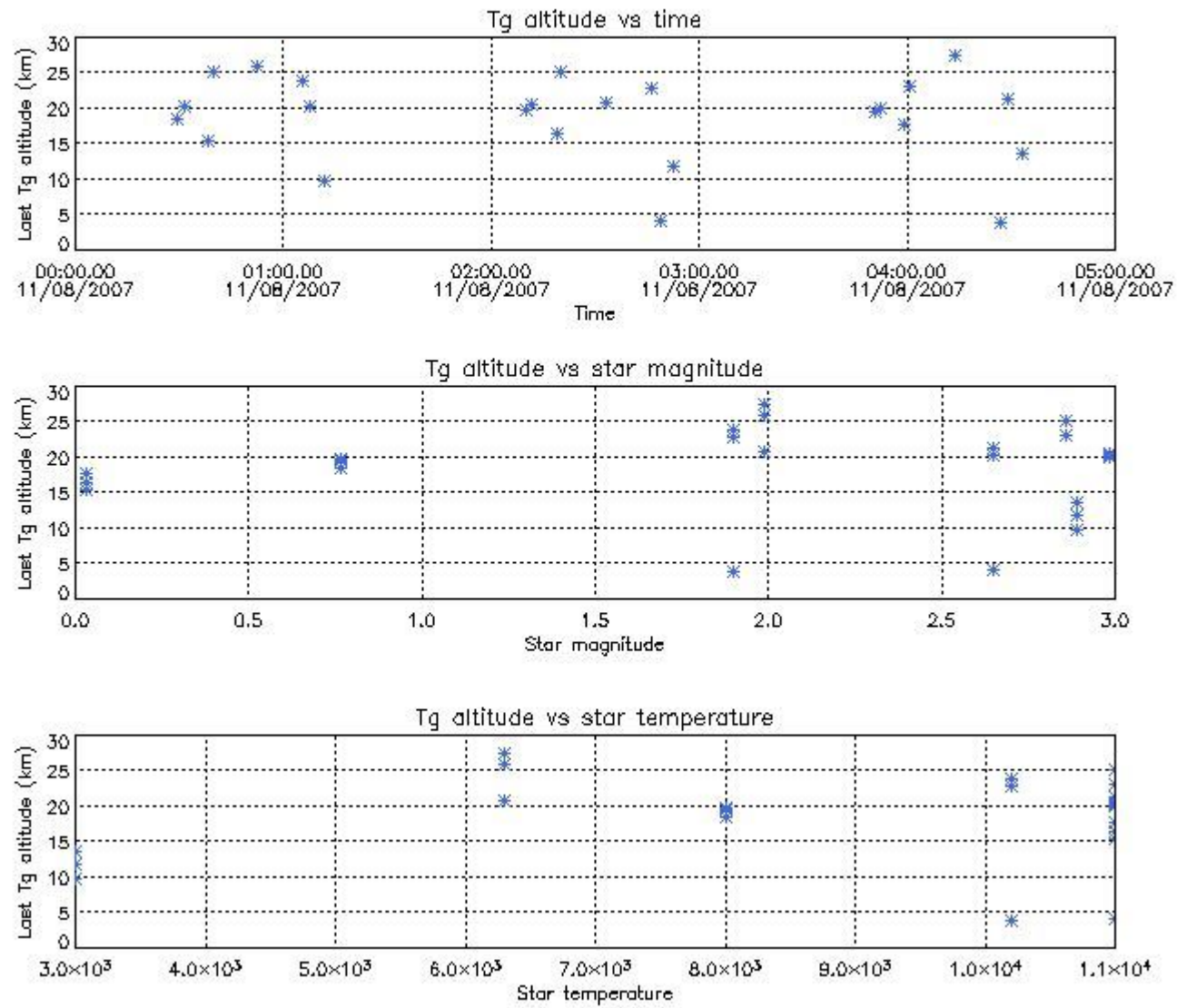
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

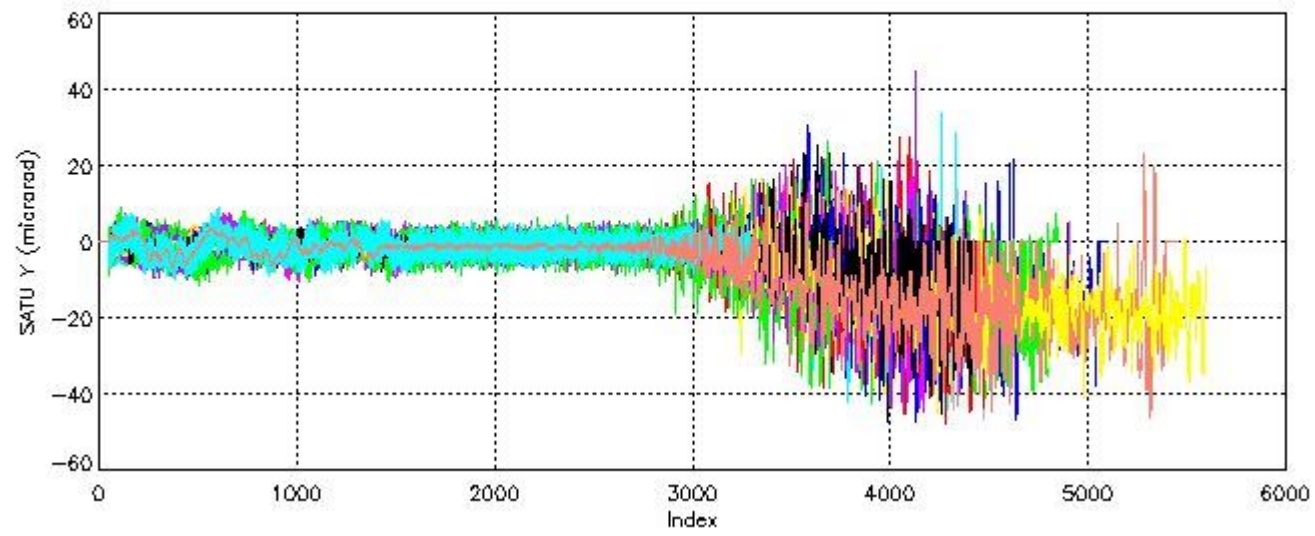
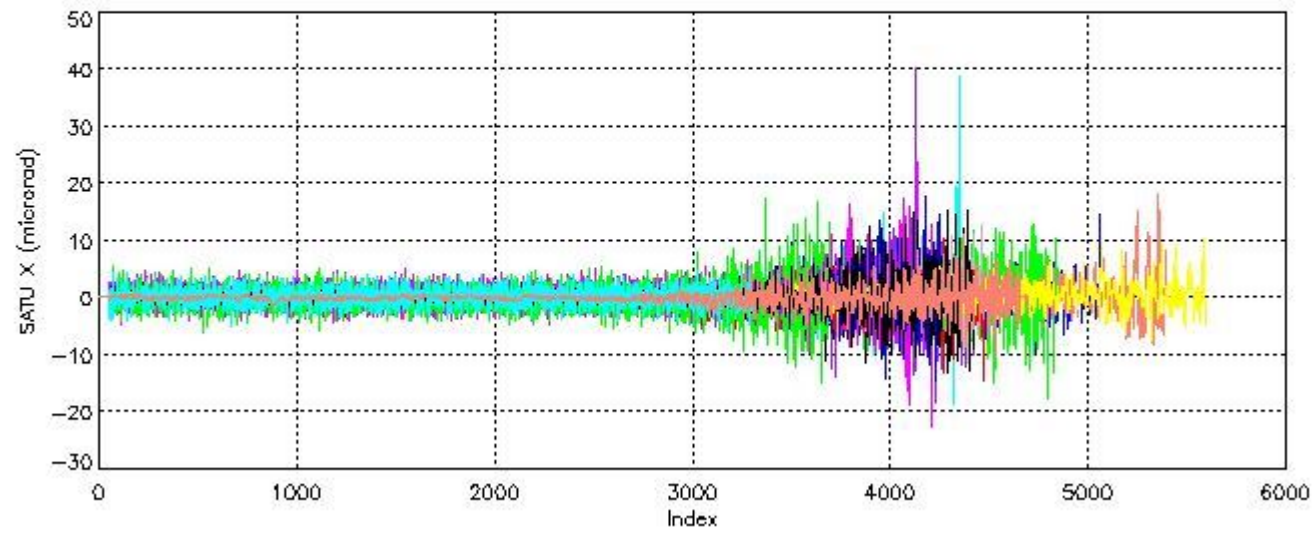


7. Star Acquisition and Tracking Unit (SATU)

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:	0.096601	-1.2563	0.024251	-1.3738
St. deviation:	0.64835	2.5428	0.78446	2.7265
Maximum:	5.5000	9.0000	6.9000	8.5000
Minimum:	-6.0000	-11.400	-5.7000	-13.400

Number of data:	17050.	17050.	19850.	19850.
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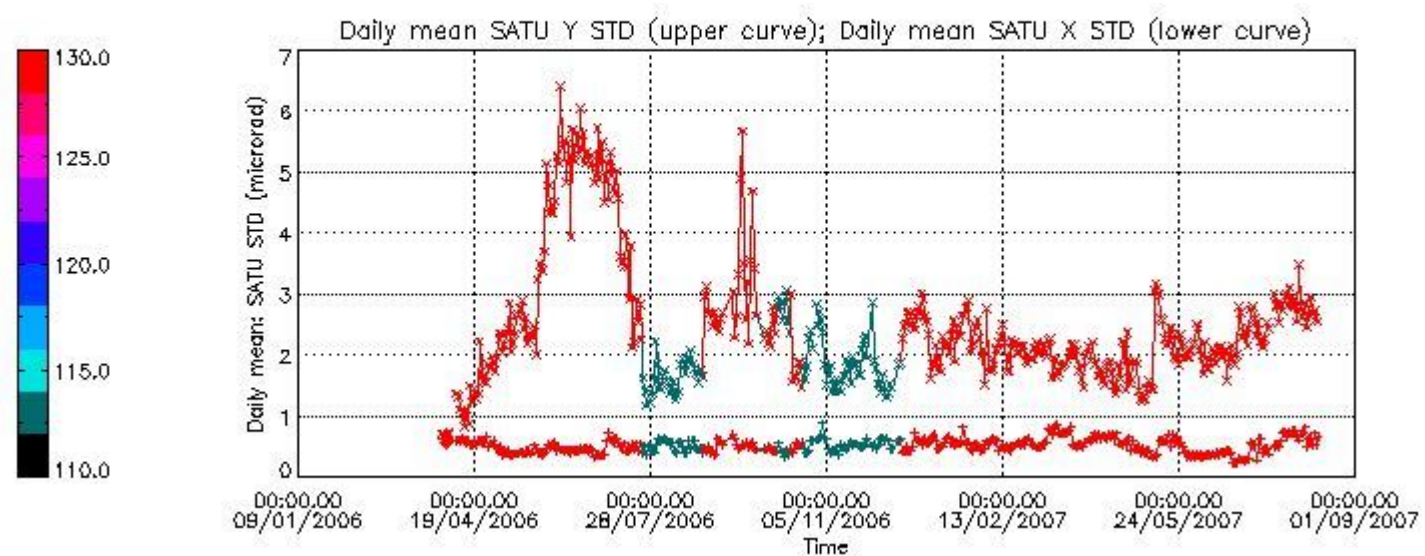
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

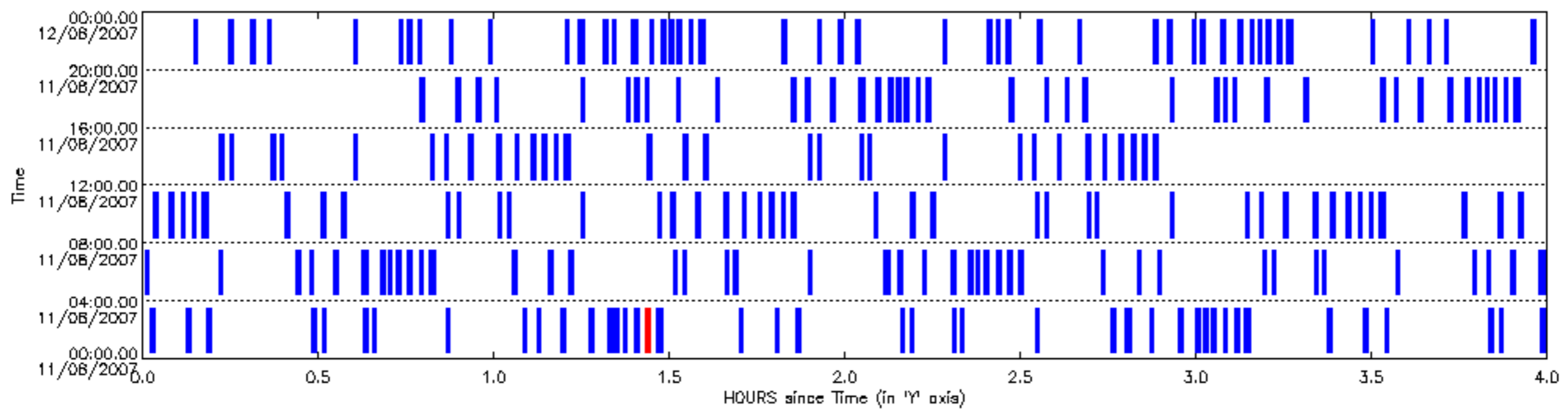
Lower curve: STD of SATU X axis

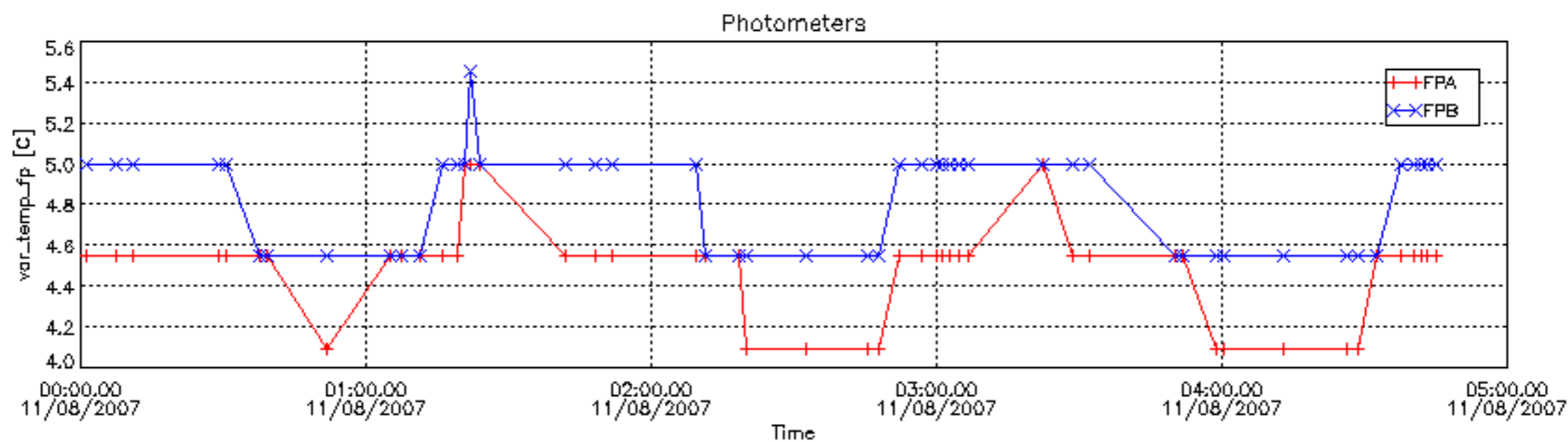
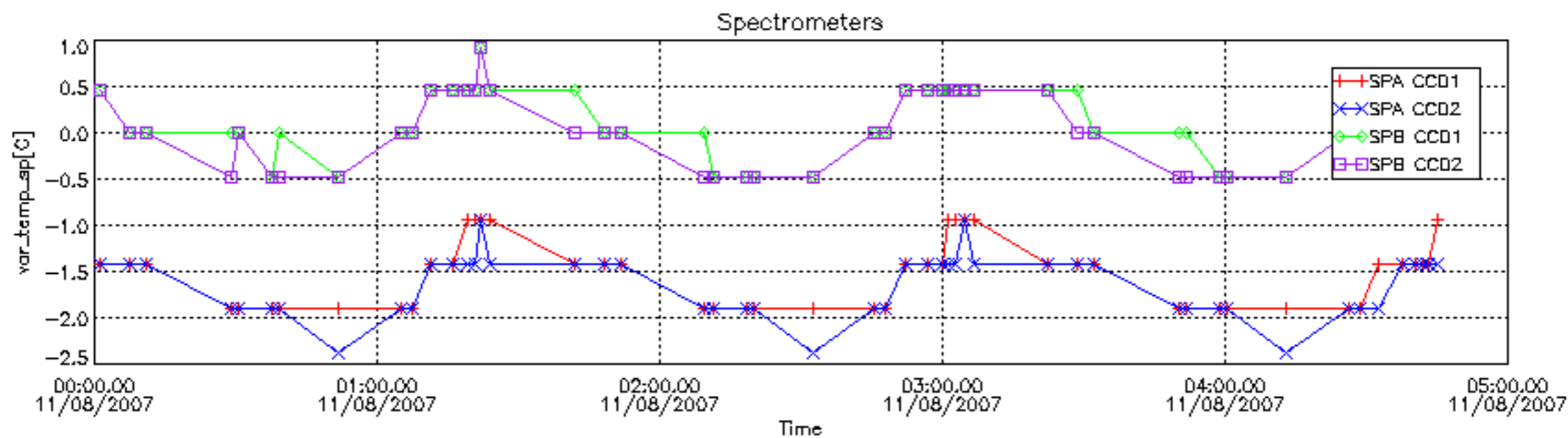


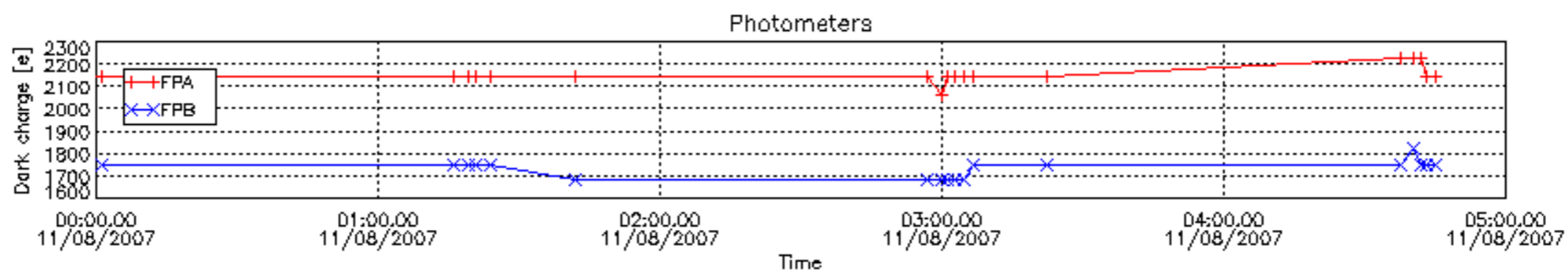
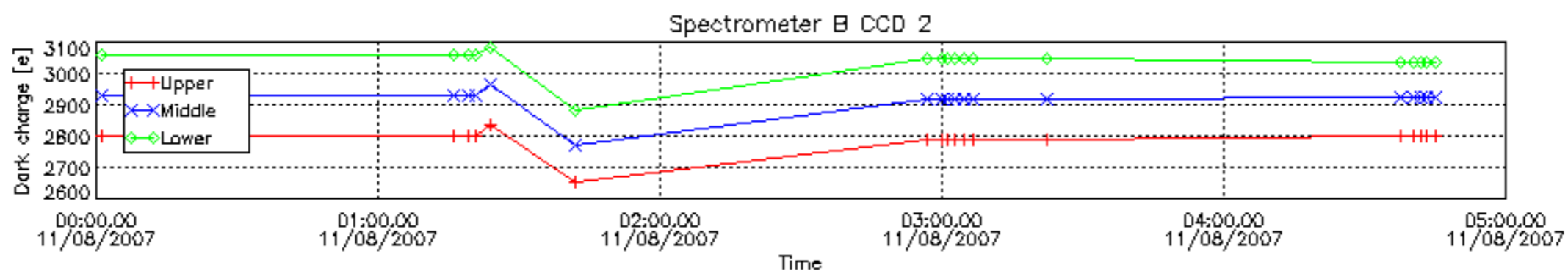
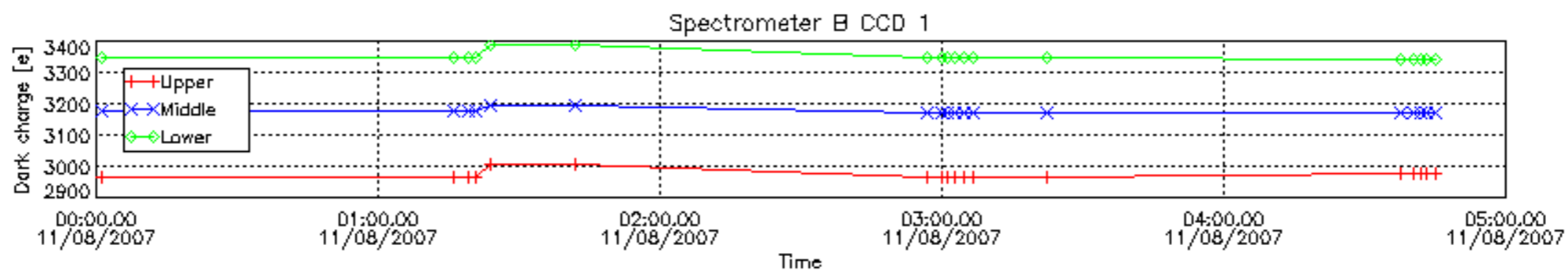
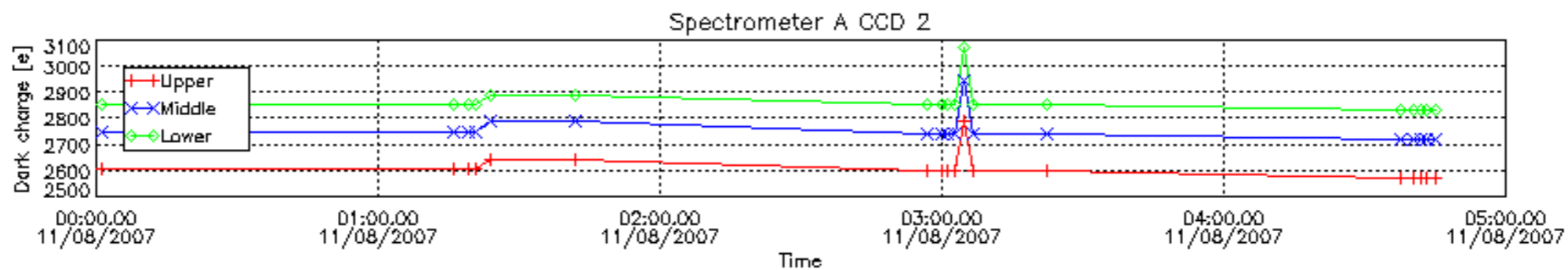
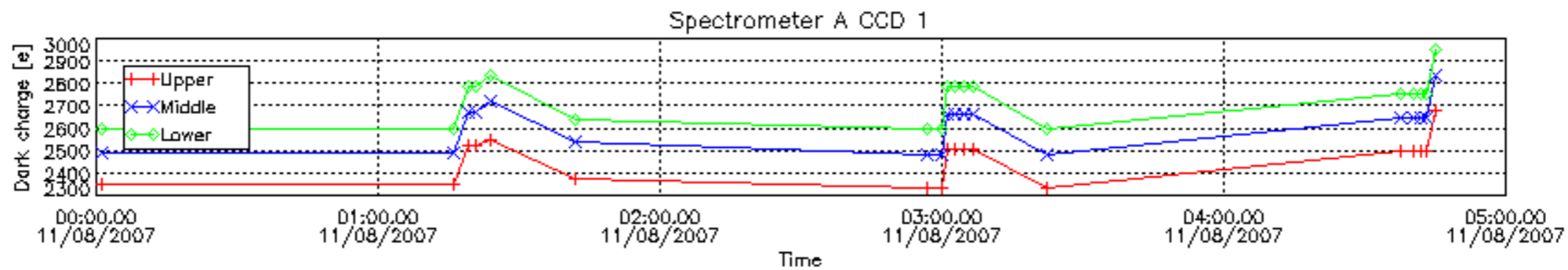
8. Auxiliary Data Files used for the production reported in section 2.4

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.

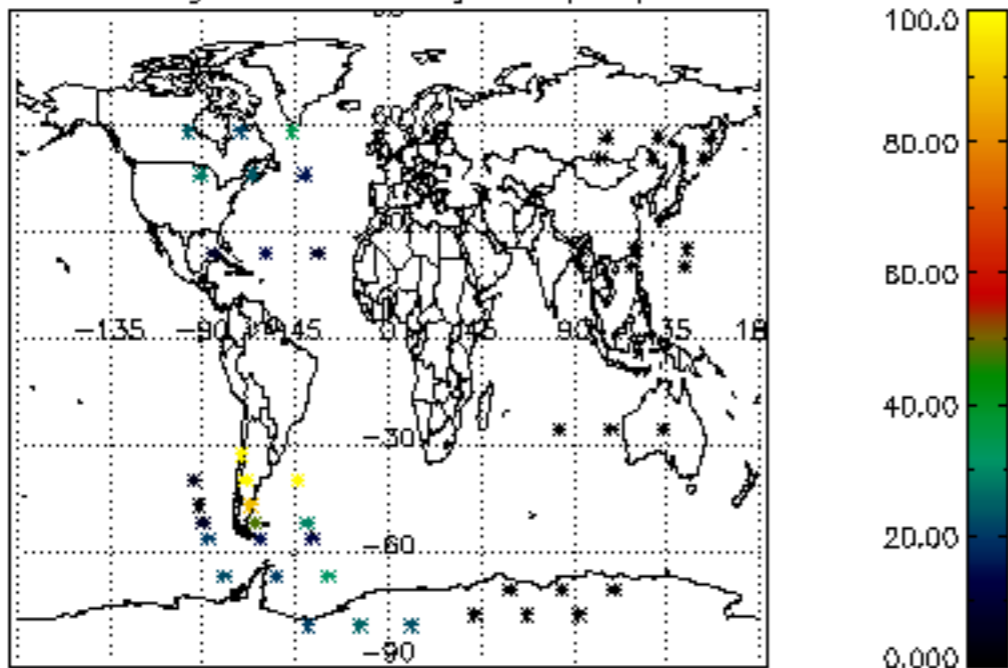
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	11-AUG-2007 00:01:16
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070803_145735_20070802_000000_20100101_000000	1	11-AUG-2007 00:01:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	11-AUG-2007 00:01:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-AUG-2007 00:01:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	11-AUG-2007 00:01:16
ECMWF_FILE	AUX_ECF_AXNECM20070810_061111_20070810_210000_20070811_090000	1	11-AUG-2007 00:01:16
ECMWF_FILE	AUX_ECF_AXNECM20070810_182111_20070811_030000_20070811_150000	42	11-AUG-2007 04:26:07
OPTIONAL_ECMWF_FILE	MISSING	1	11-AUG-2007 00:01:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070810_215610_000060572060_00358_28468_3944.N1	1	11-AUG-2007 00:01:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070810_234226_000054192060_00359_28469_3945.N1	15	11-AUG-2007 01:22:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070811_011804_000041442060_00360_28470_3946.N1	25	11-AUG-2007 02:45:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070811_023227_000057382060_00361_28471_3947.N1	42	11-AUG-2007 04:26:07



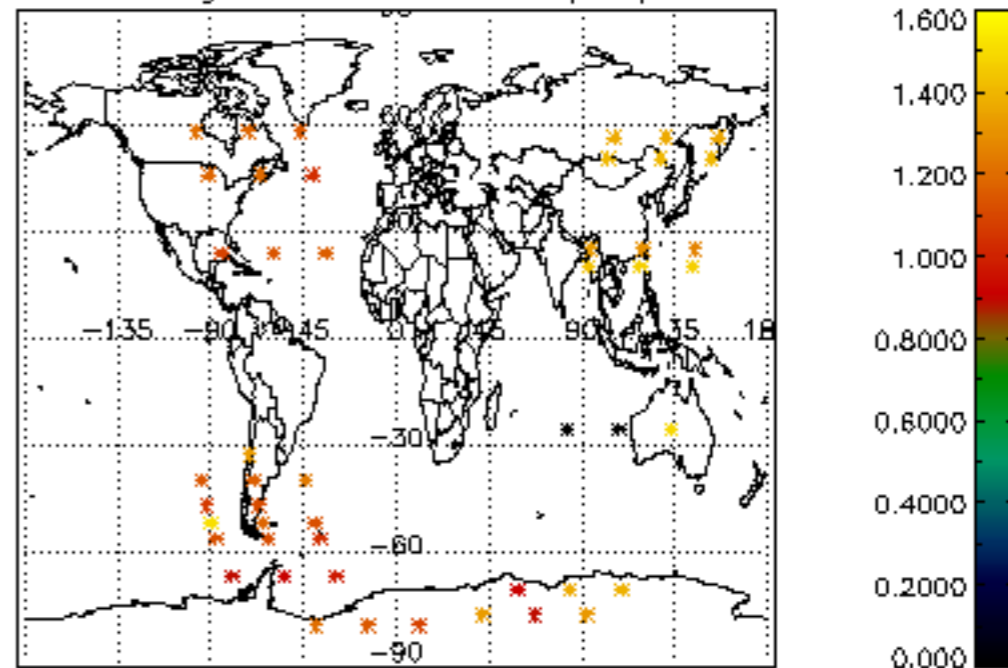




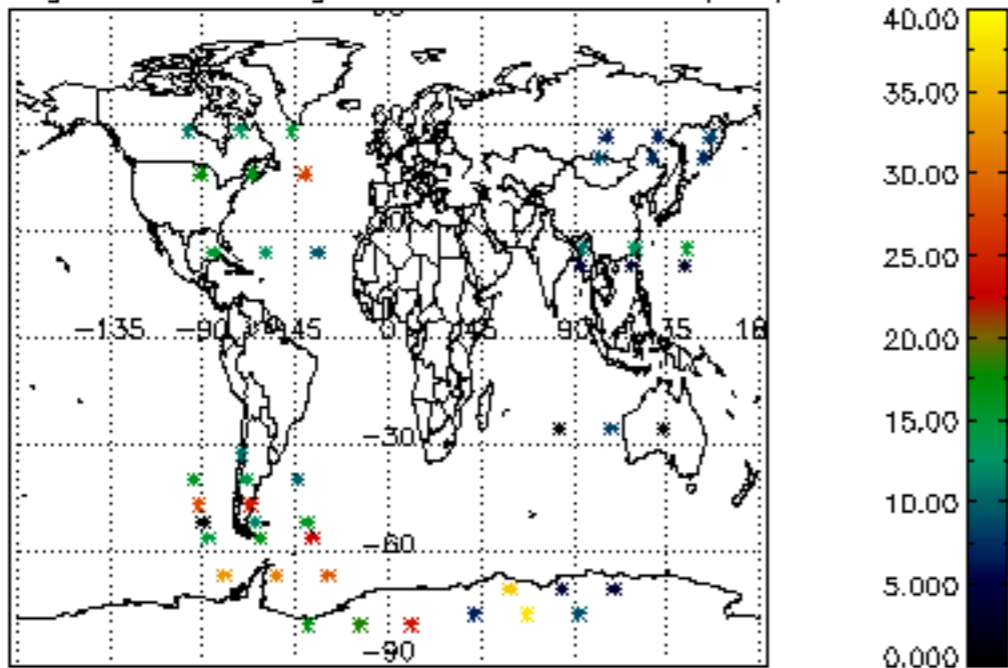
Percentage of cosmic ray hits per profile



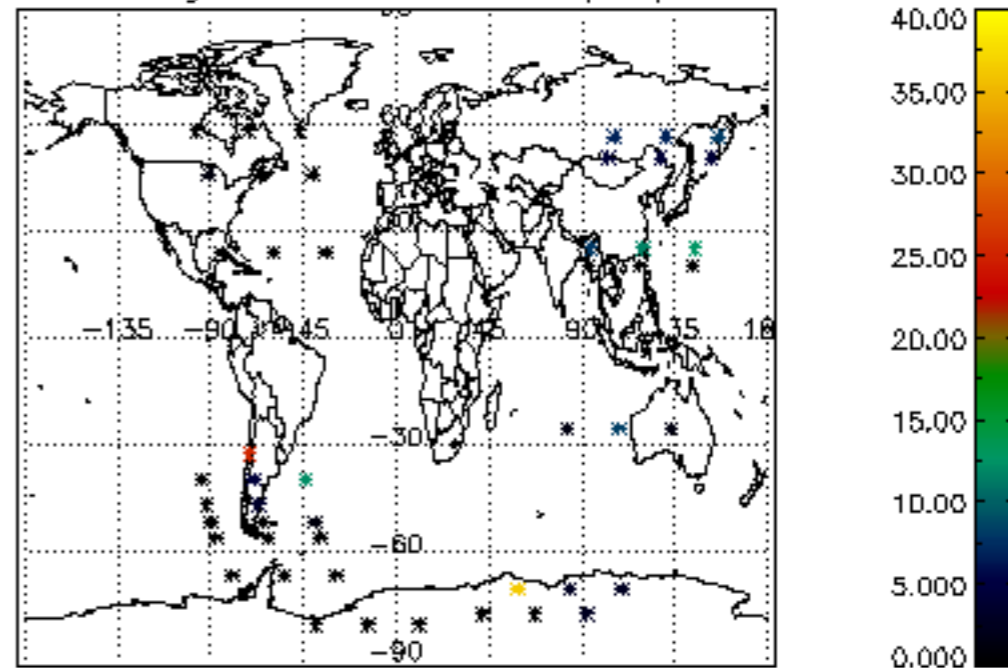
Percentage of datation errors per profile



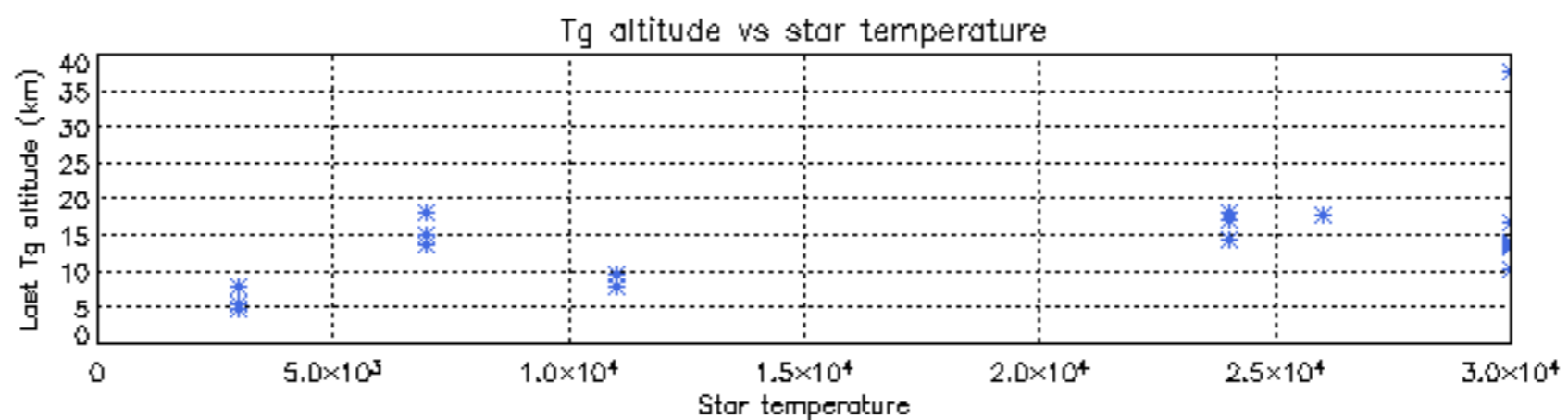
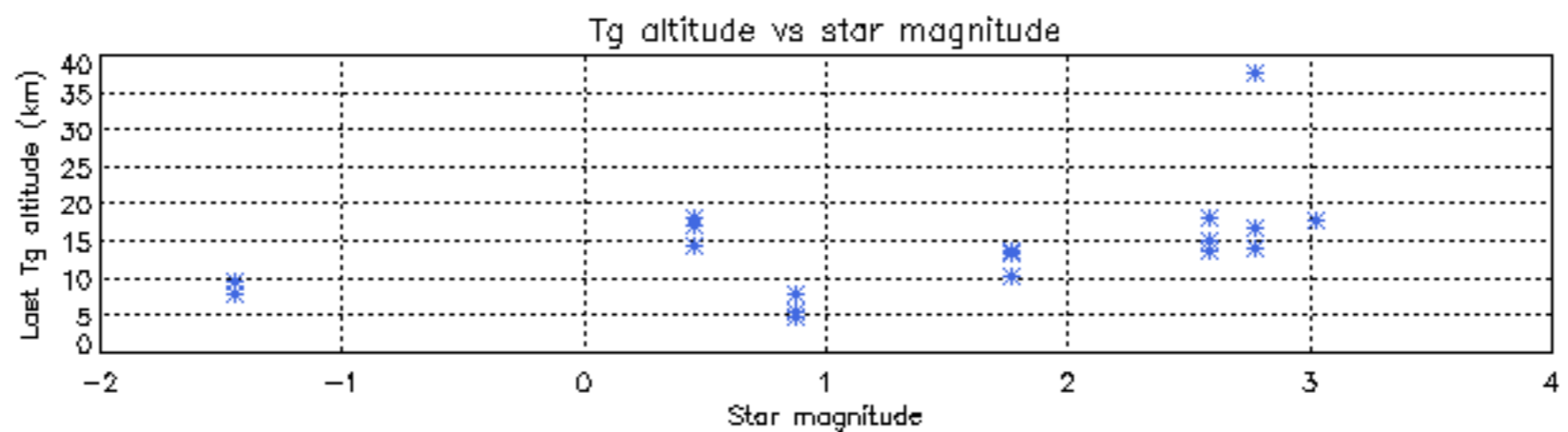
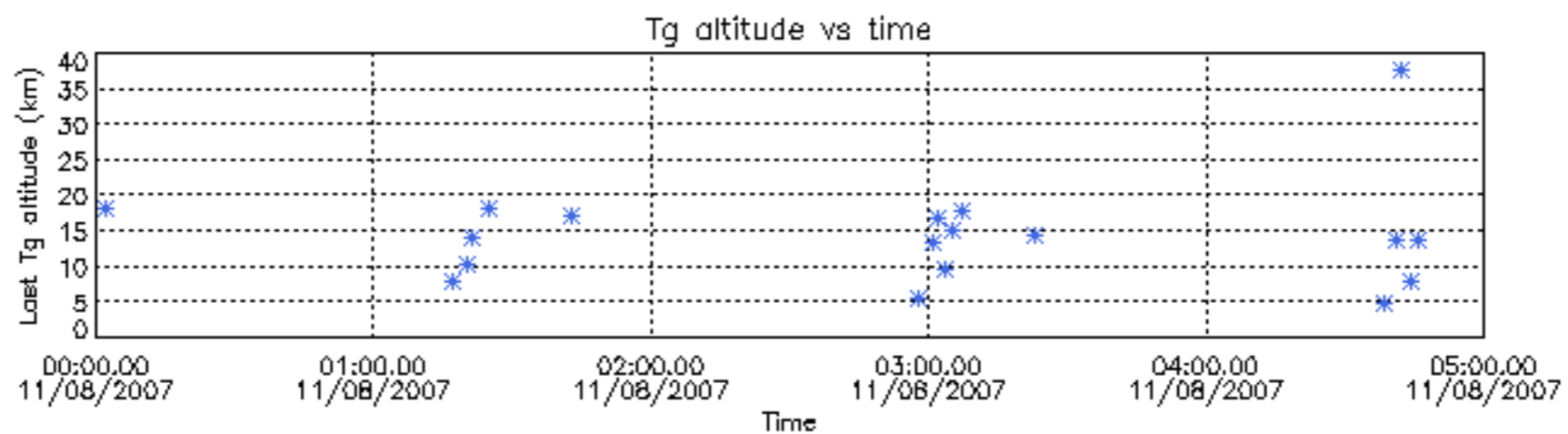
Percentage of star falling outside central band per profile



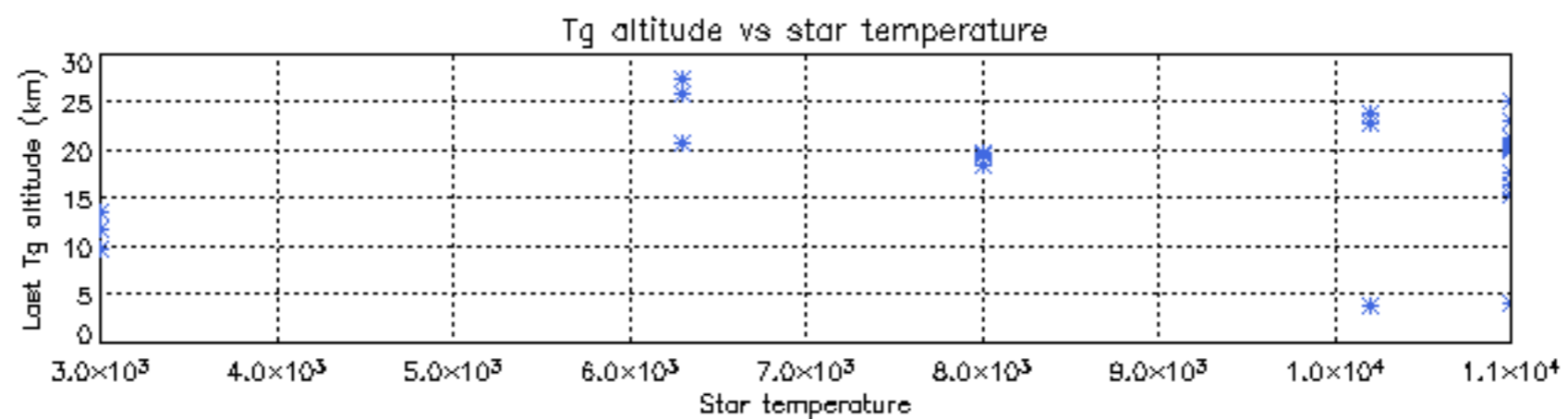
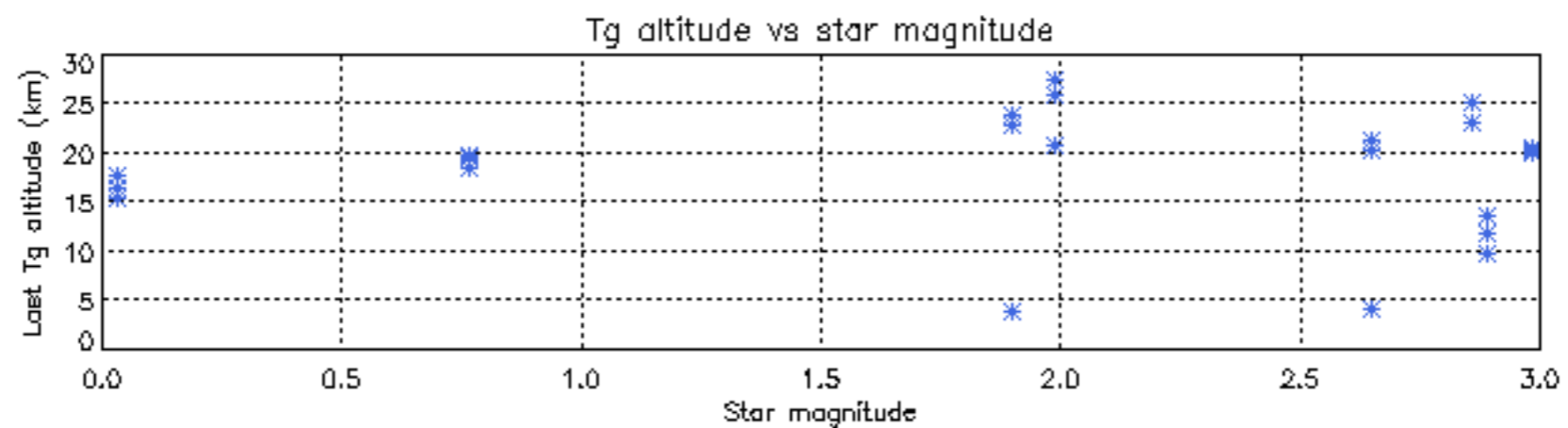
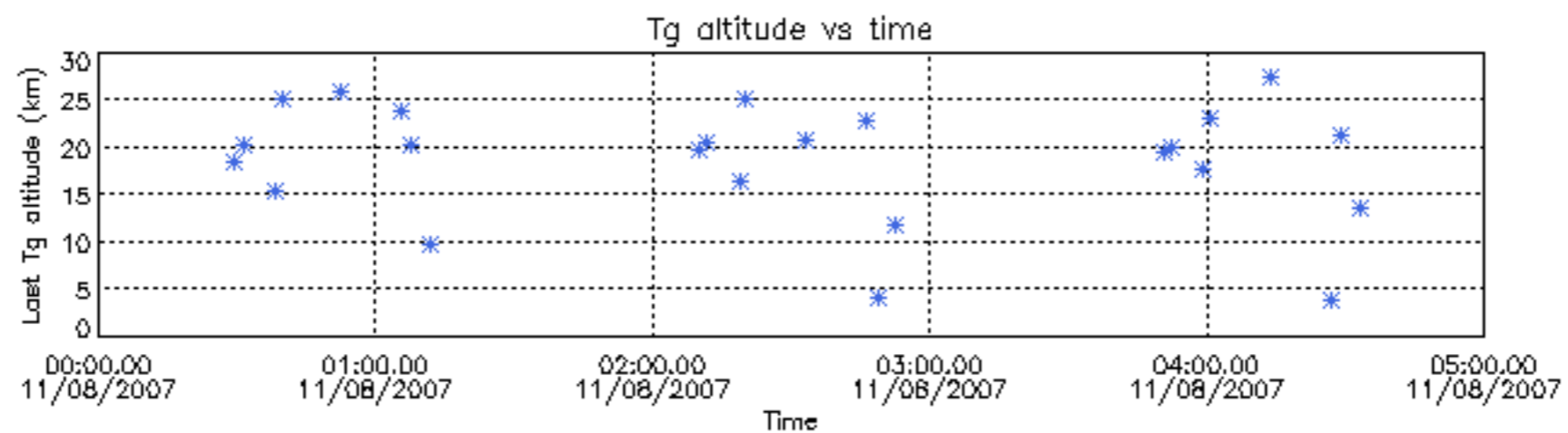
Percentage of saturation errors per profile

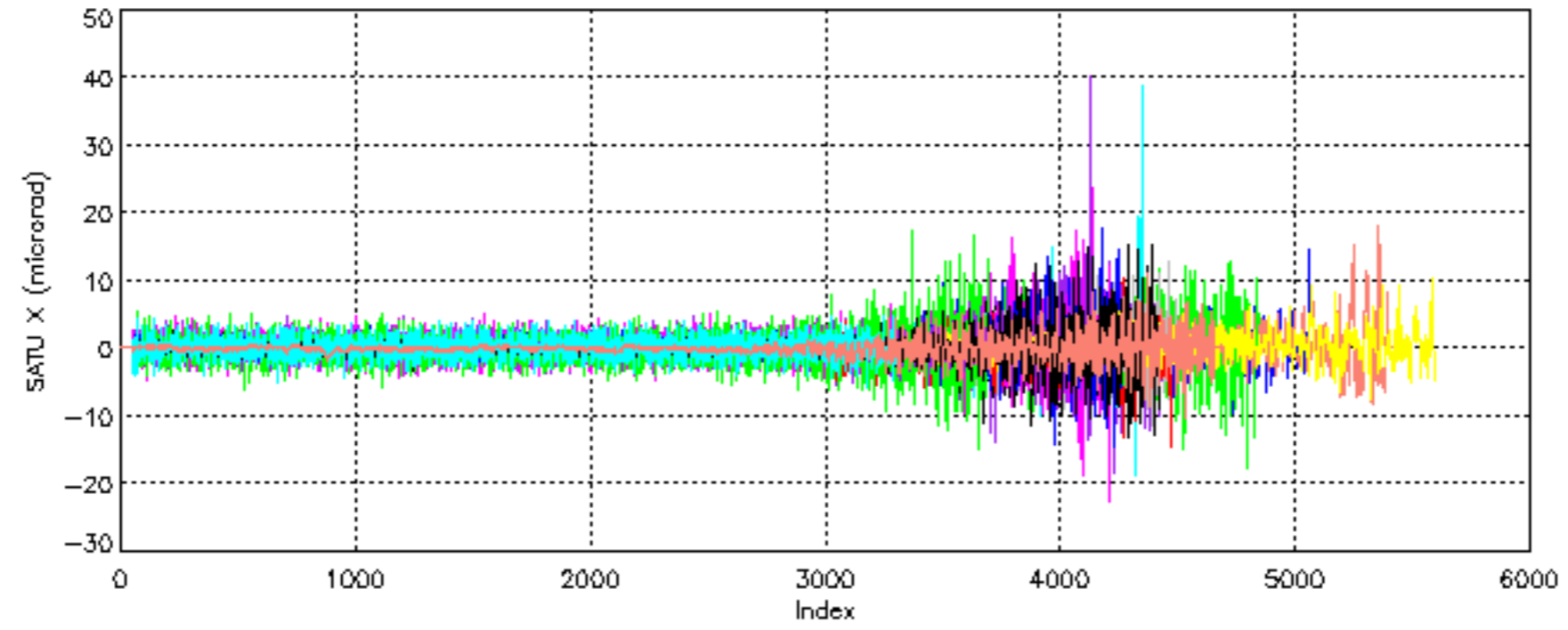


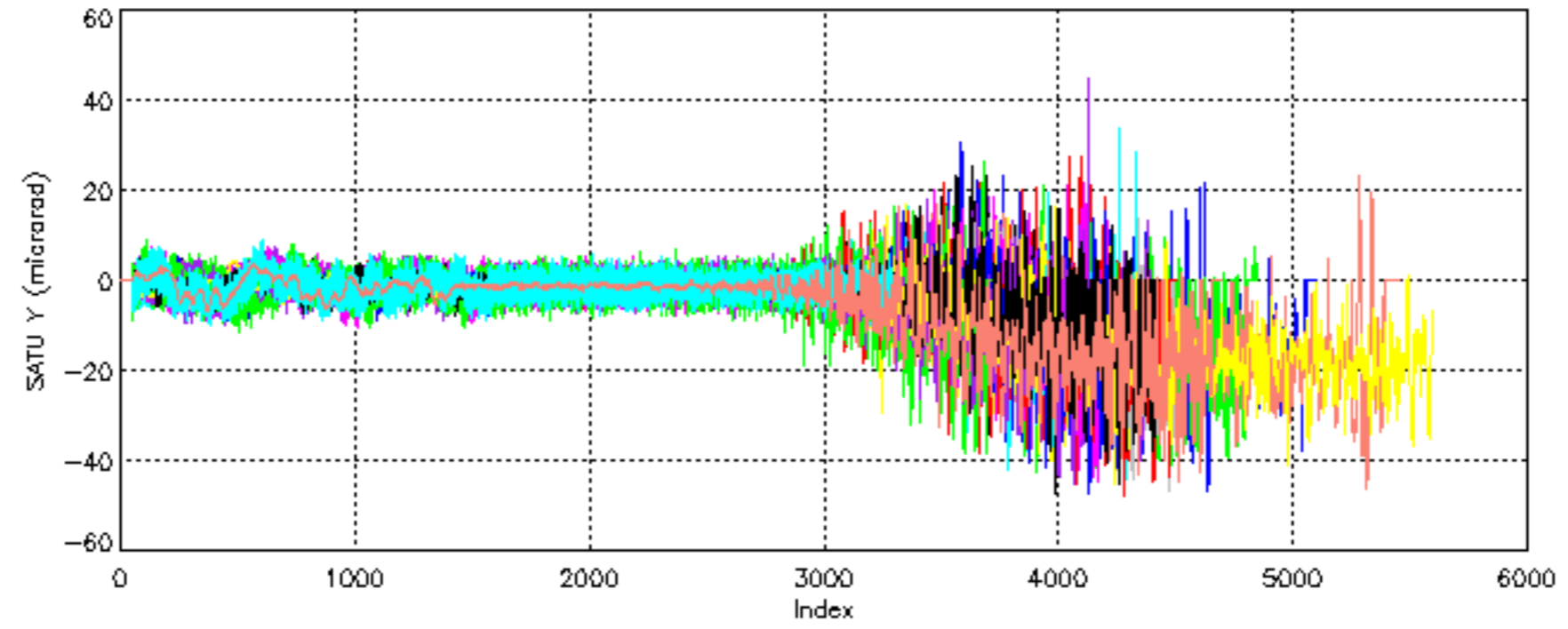
Tangent altitude at which the star is lost

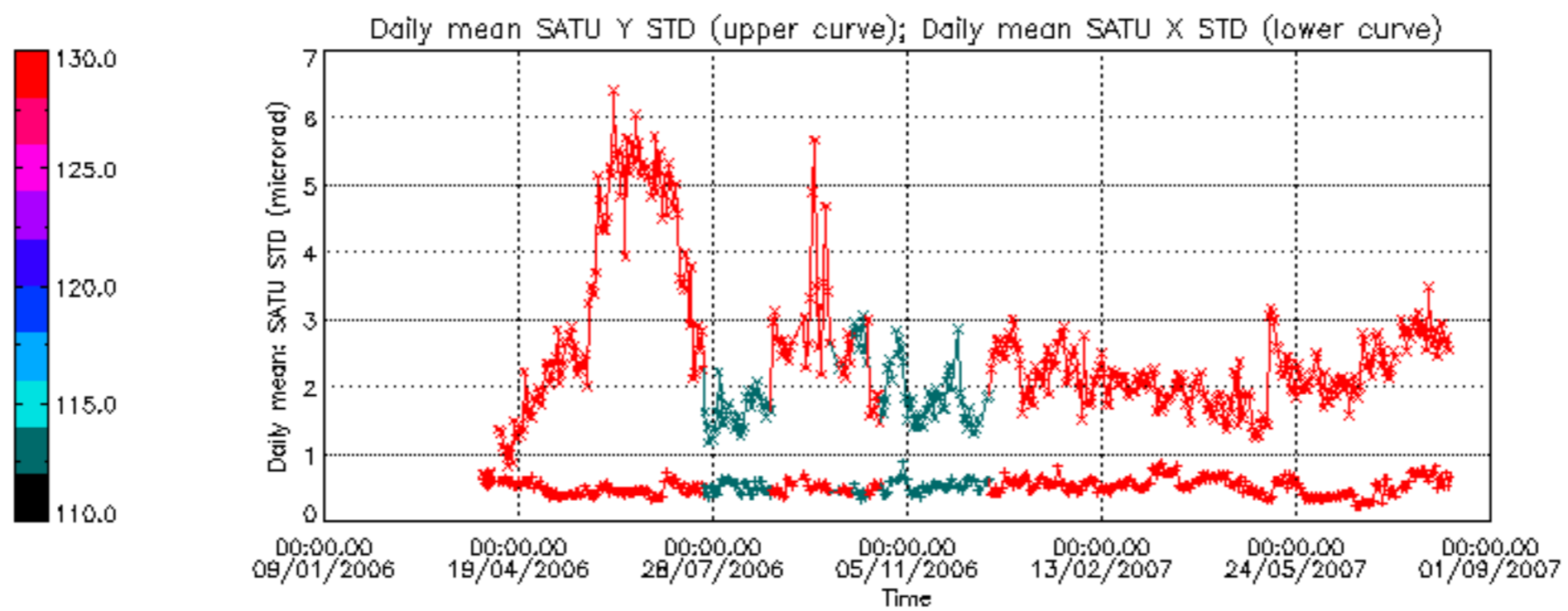


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070801_013632_000042562060_00217_28327_4074.N1

1; -781.4; 01-AUG-2007 01:36:32; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;28327
 2; -680.8; 01-AUG-2007 01:38:13; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;28327
 3; -483.6; 01-AUG-2007 01:41:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28327
 4; 267.4; 01-AUG-2007 01:54:01; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28328
 5; 424.4; 01-AUG-2007 01:56:38; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;28328
 6; 715.8; 01-AUG-2007 02:01:29; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;28328
 7; 909.8; 01-AUG-2007 02:04:43; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;28328
 8; 1412.3; 01-AUG-2007 02:13:06; Dark ; 52.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 104; 0;28328
 9; 1555.1; 01-AUG-2007 02:15:29; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;28328
 10; 2144.7; 01-AUG-2007 02:25:18; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28328
 11; 2569.6; 01-AUG-2007 02:32:23; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;28328
 12; 2796.3; 01-AUG-2007 02:36:10; Bright; 35.5; 69; 33Gam Dra ; 2.23; 3800;occ; 71; 0;28328
 13; 3035.0; 01-AUG-2007 02:40:09; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28328
 14; 3284.8; 01-AUG-2007 02:44:18; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;28328
 15; 3441.1; 01-AUG-2007 02:46:55; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28328

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1; -1823.8; 01-AUG-2007 02:59:46; Bright; 33.5; 42; 34Bet Aur ; 1.90; 10200;occ; 67; 0;28328
 2; -1690.0; 01-AUG-2007 03:02:00; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28328
 3; -1397.3; 01-AUG-2007 03:06:52; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;28328
 4; -1178.1; 01-AUG-2007 03:10:31; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;28328
 5; -1013.2; 01-AUG-2007 03:13:16; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;28328
 6; -865.6; 01-AUG-2007 03:15:44; Dark ; 43.5; 7; 19Bet Ori ; 0.10; 14000;occ; 87; 0;28328
 7; -781.2; 01-AUG-2007 03:17:08; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;28328
 8; -680.5; 01-AUG-2007 03:18:49; Dark ; 41.5; 139; 9Bet Lep ; 2.83; 5600;occ; 83; 0;28328
 9; -580.1; 01-AUG-2007 03:20:29; Dark ; 36.0; 177; 1Zet CMa ; 3.02; 26000;occ; 72; 0;28328
 10; -483.5; 01-AUG-2007 03:22:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28328
 11; 268.0; 01-AUG-2007 03:34:37; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;28329
 12; 424.7; 01-AUG-2007 03:37:14; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28329
 13; 716.4; 01-AUG-2007 03:42:06; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;28329
 14; 910.2; 01-AUG-2007 03:45:20; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28329
 15; 1412.6; 01-AUG-2007 03:53:42; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28329
 16; 1555.4; 01-AUG-2007 03:56:05; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;28329
 17; 2144.9; 01-AUG-2007 04:05:54; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;28329
 18; 2569.7; 01-AUG-2007 04:12:59; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;28329
 19; 2796.5; 01-AUG-2007 04:16:46; Bright; 36.0; 69; 33Gam Dra ; 2.23; 3800;occ; 72; 0;28329
 20; 3035.5; 01-AUG-2007 04:20:45; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28329
 21; 3285.2; 01-AUG-2007 04:24:55; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;28329
 22; 3441.2; 01-AUG-2007 04:27:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28329

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 2; -1689.8; 01-AUG-2007 04:42:36; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;28329
 3; -1397.3; 01-AUG-2007 04:47:28; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28329
 4; -1177.7; 01-AUG-2007 04:51:08; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28329
 5; -1012.9; 01-AUG-2007 04:53:53; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;28329
 6; -865.0; 01-AUG-2007 04:56:21; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;28329
 7; -781.2; 01-AUG-2007 04:57:44; Dark ; 41.0; 47; 2Bet CMa ; 1.98; 28000;occ; 82; 0;28329
 8; -680.0; 01-AUG-2007 04:59:26; Dark ; 39.0; 139; 9Bet Lep ; 2.83; 5600;occ; 78; 0;28329
 9; -580.0; 01-AUG-2007 05:01:06; Dark ; 37.0; 177; 1Zet CMa ; 3.02; 26000;occ; 74; 0;28329
 10; -483.3; 01-AUG-2007 05:02:42; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28329
 11; 268.4; 01-AUG-2007 05:15:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;28330
 12; 425.1; 01-AUG-2007 05:17:51; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28330
 13; 716.8; 01-AUG-2007 05:22:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;28330
 14; 910.5; 01-AUG-2007 05:25:56; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28330
 15; 1412.8; 01-AUG-2007 05:34:18; Dark ; 47.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 94; 0;28330
 16; 1555.7; 01-AUG-2007 05:36:41; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28330
 17; 2145.1; 01-AUG-2007 05:46:31; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;28330
 18; 2569.7; 01-AUG-2007 05:53:35; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;28330
 19; 2796.7; 01-AUG-2007 05:57:22; Bright; 37.5; 69; 33Gam Dra ; 2.23; 3800;occ; 75; 0;28330
 20; 3035.9; 01-AUG-2007 06:01:21; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;28330
 21; 3285.4; 01-AUG-2007 06:05:31; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;28330
 22; 3441.2; 01-AUG-2007 06:08:07; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28330

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 2; 1557.1; 01-AUG-2007 20:42:06; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28339
 3; 2145.4; 01-AUG-2007 20:51:54; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;28339
 4; 2570.3; 01-AUG-2007 20:58:59; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;28339
 5; 2798.1; 01-AUG-2007 21:02:47; Bright; 38.5; 69; 33Gam Dra ; 2.23; 3800;occ; 77; 0;28339

6; 3038.7; 01-AUG-2007 21:06:48; Bright; 29.0; 119; 14Eta Dra ; 2.73; 4700;occ; 58; 0;28339
7; 3287.8; 01-AUG-2007 21:10:57; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;28339
8; 3441.0; 01-AUG-2007 21:13:30; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28339
9; 4212.8; 01-AUG-2007 21:26:22; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;28339
10; 4347.2; 01-AUG-2007 21:28:36; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;28339
11; 4641.0; 01-AUG-2007 21:33:30; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28339
12; 4860.9; 01-AUG-2007 21:37:10; Dark ; 37.5; 14; 58Alp Ori ; 0.87; 3000;occ; 75; 0;28339
13; 5026.4; 01-AUG-2007 21:39:55; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;28339
14; 5175.2; 01-AUG-2007 21:42:24; Dark ; 34.0; 7; 19Bet Ori ; 0.10; 14000;occ; 68; 0;28339
15; 5256.5; 01-AUG-2007 21:43:45; Dark ; 38.5; 47; 2Bet CMA ; 1.98; 28000;occ; 77; 0;28339

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1; -779.4; 01-AUG-2007 21:43:45; Dark ; 39.0; 47; 2Bet CMA ; 1.98; 28000;occ; 78; 0;28339
2; -676.1; 01-AUG-2007 21:45:29; Dark ; 40.5; 139; 9Bet Lep ; 2.83; 5600;occ; 81; 0;28339
3; -578.3; 01-AUG-2007 21:47:07; Dark ; 37.0; 177; 1Zet CMA ; 3.02; 26000;occ; 74; 0;28339
4; -481.5; 01-AUG-2007 21:48:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28339
5; 274.2; 01-AUG-2007 22:01:19; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28340
6; 427.5; 01-AUG-2007 22:03:52; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28340
7; 720.9; 01-AUG-2007 22:08:46; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28340
8; 913.0; 01-AUG-2007 22:11:58; Dark ; 37.5; 45; Alp Pav ; 1.94; 26000;occ; 75; 0;28340
9; 1414.5; 01-AUG-2007 22:20:19; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28340
10; 1557.2; 01-AUG-2007 22:22:42; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;28340
11; 2145.4; 01-AUG-2007 22:32:30; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28340
12; 2570.4; 01-AUG-2007 22:39:35; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;28340
13; 2798.2; 01-AUG-2007 22:43:23; Bright; 33.0; 69; 33Gam Dra ; 2.23; 3800;occ; 66; 0;28340
14; 3288.1; 01-AUG-2007 22:51:33; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;28340
15; 3441.0; 01-AUG-2007 22:54:06; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28340
16; 4213.0; 01-AUG-2007 23:06:58; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;28340
17; 4347.5; 01-AUG-2007 23:09:12; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28340
18; 4641.2; 01-AUG-2007 23:14:06; Dark ; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;28340
19; 4861.1; 01-AUG-2007 23:17:46; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;28340
20; 5026.7; 01-AUG-2007 23:20:32; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;28340
21; 5153.6; 01-AUG-2007 23:22:38; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;28340
22; 5256.8; 01-AUG-2007 23:24:22; Dark ; 39.5; 47; 2Bet CMA ; 1.98; 28000;occ; 79; 0;28340
23; 5360.2; 01-AUG-2007 23:26:05; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;28340

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4; 274.7; 01-AUG-2007 23:41:55; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28341
5; 427.7; 01-AUG-2007 23:44:28; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28341
6; 721.5; 01-AUG-2007 23:49:22; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28341
7; 913.2; 01-AUG-2007 23:52:34; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28341
8; 1414.5; 02-AUG-2007 00:00:55; Dark ; 51.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 102; 0;28341
9; 1557.2; 02-AUG-2007 00:03:18; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;28341
10; 2145.5; 02-AUG-2007 00:13:06; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;28341
11; 2570.4; 02-AUG-2007 00:20:11; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;28341
12; 2798.4; 02-AUG-2007 00:23:59; Bright; 37.0; 69; 33Gam Dra ; 2.23; 3800;occ; 74; 0;28341
13; 3288.3; 02-AUG-2007 00:32:09; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;28341
14; 3441.0; 02-AUG-2007 00:34:42; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;28341
15; 4213.3; 02-AUG-2007 00:47:34; Bright; 46.5; 42; 34Bet Aur ; 1.90; 10200;occ; 93; 0;28341
16; 4347.7; 02-AUG-2007 00:49:48; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;28341
17; 4641.1; 02-AUG-2007 00:54:42; Dark ; 41.0; 176; 23Zet Tau ; 3.02; 22000;occ; 82; 0;28341
18; 4861.2; 02-AUG-2007 00:58:22; Dark ; 39.0; 14; 58Alp Ori ; 0.87; 3000;occ; 78; 0;28341
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9; -579.8; 01-AUG-2007 06:41:42; Dark ; 38.0; 177; 1Zet CMA ; 3.02; 26000;occ; 76; 0;28330
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 19; 6947.2; 01-AUG-2007 10:27:45; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;28332
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 19; 6947.4; 01-AUG-2007 12:08:21; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28333
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 9; 4346.8; 01-AUG-2007 13:05:36; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;28334
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 9; 4346.9; 01-AUG-2007 14:46:12; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;28335
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16; 5359.1; 01-AUG-2007 18:24:16; Dark ; 42.5; 139; 9Bet Lep ; 2.83; 5600;occ; 85; 0;28337
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 17; 4361.7; 11-AUG-2007 22:55:04; Bright; 43.0; 107; 37The Aur ; 2.65; 11000;occ; 86; 0;28483
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 19; 4706.0; 11-AUG-2007 23:00:48; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;28483
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 23; 5294.6; 11-AUG-2007 23:10:37; Dark ; 40.0; 47; 2Bet CMA ; 1.98; 28000;occ; 80; 0;28483
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 9; -546.3; 11-AUG-2007 06:27:53; Dark ; 38.5; 177; 1Zet CMA ; 3.02; 26000;occ; 77; 0;28473
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 3; 2590.0; 11-AUG-2007 07:20:09; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;28474
 4; 2676.7; 11-AUG-2007 07:21:36; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;28474
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 7; 4361.4; 11-AUG-2007 07:49:40; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;28474
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9; 4902.2; 11-AUG-2007 07:58:41; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;28474
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 12; 5368.9; 11-AUG-2007 08:06:28; Dark ; 43.0; 101; 11Alp Lep ; 2.58; 7000;occ; 86; 0;28474
 13; 5490.0; 11-AUG-2007 08:08:29; Dark ; 36.0; 177; 1Zet CMA ; 3.02; 26000;occ; 72; 0;28474
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 4; 2676.5; 11-AUG-2007 10:42:47; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;28476
 5; 3439.3; 11-AUG-2007 10:55:30; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28476
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 4; 2676.5; 11-AUG-2007 12:23:23; Bright; 33.5; 144; 18Del Cyg ; 2.86; 11000;occ; 67; 0;28477
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 4; 2676.6; 11-AUG-2007 14:03:59; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;28478

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3; 987.6; 11-AUG-2007 16:57:02; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;28480
4; 1169.3; 11-AUG-2007 17:00:04; Dark ; 40.0; 172; Gam Gru ; 3.00; 13100;occ; 80; 0;28480
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 2; 2595.6; 18-AUG-2007 10:21:19; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;28576
 3; 2676.0; 18-AUG-2007 10:22:39; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;28576
 4; 3009.8; 18-AUG-2007 10:28:13; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;28576
 5; 3437.8; 18-AUG-2007 10:35:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28576
 6; 4220.7; 18-AUG-2007 10:48:24; Bright; 50.5; 42; 34Bet Aur ; 1.90; 10200;occ; 101; 0;28576
 7; 4632.6; 18-AUG-2007 10:55:16; Dark ; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;28576
 8; 4728.2; 18-AUG-2007 10:56:52; Dark ; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;28576
 9; 5278.4; 18-AUG-2007 11:06:02; Dark ; 46.0; 1; 9Alp CMA ; -1.44; 11000;occ; 92; 0;28576
 10; 5433.4; 18-AUG-2007 11:08:37; Dark ; 45.0; 101; 11Alp Lep ; 2.58; 7000;occ; 90; 0;28576
 11; 5527.7; 18-AUG-2007 11:10:11; Dark ; 40.0; 177; 1Zet CMA ; 3.02; 26000;occ; 80; 0;28576
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 13; 6510.5; 18-AUG-2007 11:26:34; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28576
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 3; 2675.8; 18-AUG-2007 12:03:15; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;28577
 4; 3009.7; 18-AUG-2007 12:08:49; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;28577
 5; 3437.8; 18-AUG-2007 12:15:57; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28577
 6; 4220.9; 18-AUG-2007 12:29:00; Bright; 41.0; 42; 34Bet Aur ; 1.90; 10200;occ; 82; 0;28577
 7; 4632.8; 18-AUG-2007 12:35:52; Dark ; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;28577
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 9; 5278.7; 18-AUG-2007 12:46:38; Dark ; 45.5; 1; 9Alp CMA ; -1.44; 11000;occ; 91; 0;28577
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 15; 7061.1; 18-AUG-2007 13:16:20; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;28577
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 3; 2595.5; 18-AUG-2007 13:42:31; Bright; 35.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 70; 0;28578
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 5; 3009.5; 18-AUG-2007 13:49:25; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28578
 6; 3437.8; 18-AUG-2007 13:56:33; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28578
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 12; 5528.7; 18-AUG-2007 14:31:24; Dark ; 38.0; 177; 1Zet CMA ; 3.02; 26000;occ; 76; 0;28578
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7; 3437.8; 18-AUG-2007 17:17:45; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28580
8; 4570.8; 18-AUG-2007 17:36:38; Bright; 37.5; 170; 27Eps Gem ; 3.00; 9700;occ; 75; 0;28580
9; 4729.5; 18-AUG-2007 17:39:16; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;28580
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12; 5462.6; 18-AUG-2007 17:51:30; Dark ; 39.5; 23; 21Eps CMA ; 1.50; 26000;occ; 79; 0;28580
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4; 2497.3; 18-AUG-2007 18:42:40; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;28581
5; 2595.3; 18-AUG-2007 18:44:18; Bright; 38.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 77; 0;28581
6; 2676.1; 18-AUG-2007 18:45:39; Bright; 33.5; 144; 18Del Cyg ; 2.86; 11000;occ; 67; 0;28581
7; 3008.4; 18-AUG-2007 18:51:11; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;28581
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5; 479.9; 19-AUG-2007 00:51:27; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;28585
6; 812.5; 19-AUG-2007 00:56:59; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;28585
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10; 4605.9; 30-AUG-2007 14:39:00; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28750
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3; 1805.7; 30-AUG-2007 15:32:55; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28751
4; 1896.6; 30-AUG-2007 15:34:26; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28751
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6; 2486.7; 30-AUG-2007 17:24:52; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28752
7; 2677.6; 30-AUG-2007 17:28:03; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;28752
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13; 4783.3; 30-AUG-2007 19:43:45; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28753
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18; 6989.3; 31-AUG-2007 11:25:54; Dark ; 59.5; 84; Alp Phe ; 2.40; 4500;occ; 119; 0;28762
19; 7082.3; 31-AUG-2007 11:27:27; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;28762
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21; 7653.5; 31-AUG-2007 11:36:59; Dark ; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;28762

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4; 2076.4; 31-AUG-2007 11:44:37; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28763
5; 2486.9; 31-AUG-2007 11:51:28; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;28763
6; 2677.7; 31-AUG-2007 11:54:39; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28763
7; 2977.2; 31-AUG-2007 11:59:38; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28763
8; 3434.9; 31-AUG-2007 12:07:16; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28763
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7; 2977.2; 31-AUG-2007 13:40:14; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28764
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9; 4450.8; 31-AUG-2007 14:04:48; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;28764
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3; 1896.1; 31-AUG-2007 15:02:49; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28765
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5; 2487.1; 31-AUG-2007 15:12:40; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;28765

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9; 4451.0; 31-AUG-2007 15:45:24; Bright; 38.5; 24; 66Alp Gem ; 1.58; 10200;occ; 77; 0;28765
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4; 1896.0; 31-AUG-2007 16:43:25; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28766
5; 2076.2; 31-AUG-2007 16:46:25; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28766
6; 2487.1; 31-AUG-2007 16:53:16; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;28766
7; 2677.9; 31-AUG-2007 16:56:27; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28766
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11; 4609.6; 31-AUG-2007 17:28:38; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28766
12; 4788.3; 31-AUG-2007 17:31:37; Dark ; 52.5; 44; 24Gam Gem ; 1.93; 11000;occ; 105; 0;28766
13; 4911.4; 31-AUG-2007 17:33:40; Dark ; 48.5; 8; 10Alp CMi ; 0.40; 6500;occ; 97; 0;28766
14; 5367.8; 31-AUG-2007 17:41:16; Dark ; 58.0; 1; 9Alp CMa ; -1.44; 11000;occ; 116; 0;28766
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16; 5633.3; 31-AUG-2007 17:45:42; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28766
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22; 6992.3; 31-AUG-2007 19:48:57; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;28767

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