

GOMOS Daily Report 07-NOV-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	09NOV2007 05:40:48
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (07NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (08NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

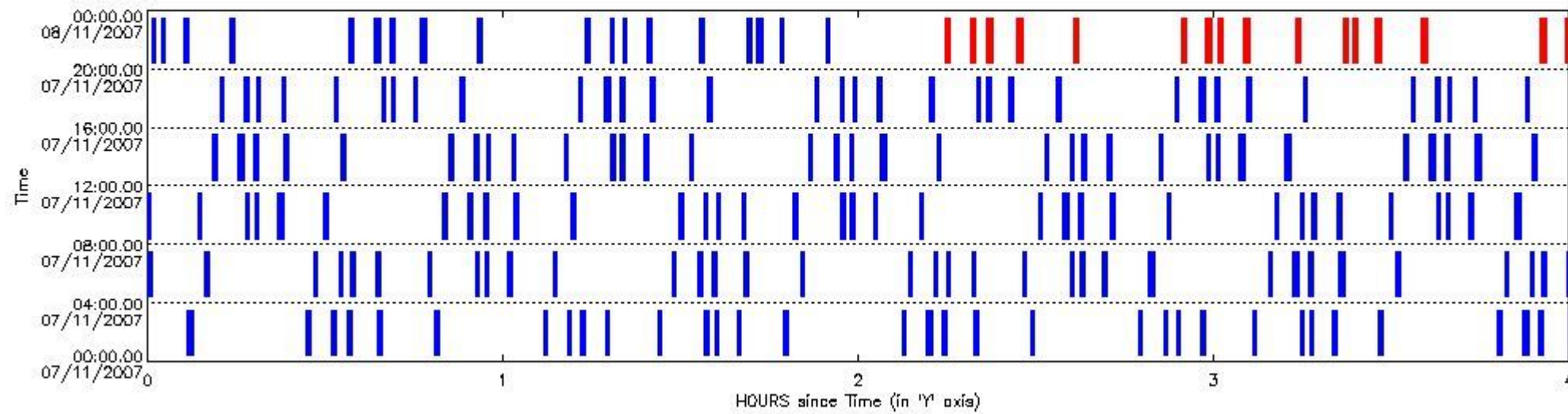
2.1 Level 0 products arrived in PCF (see template [here](#))

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).



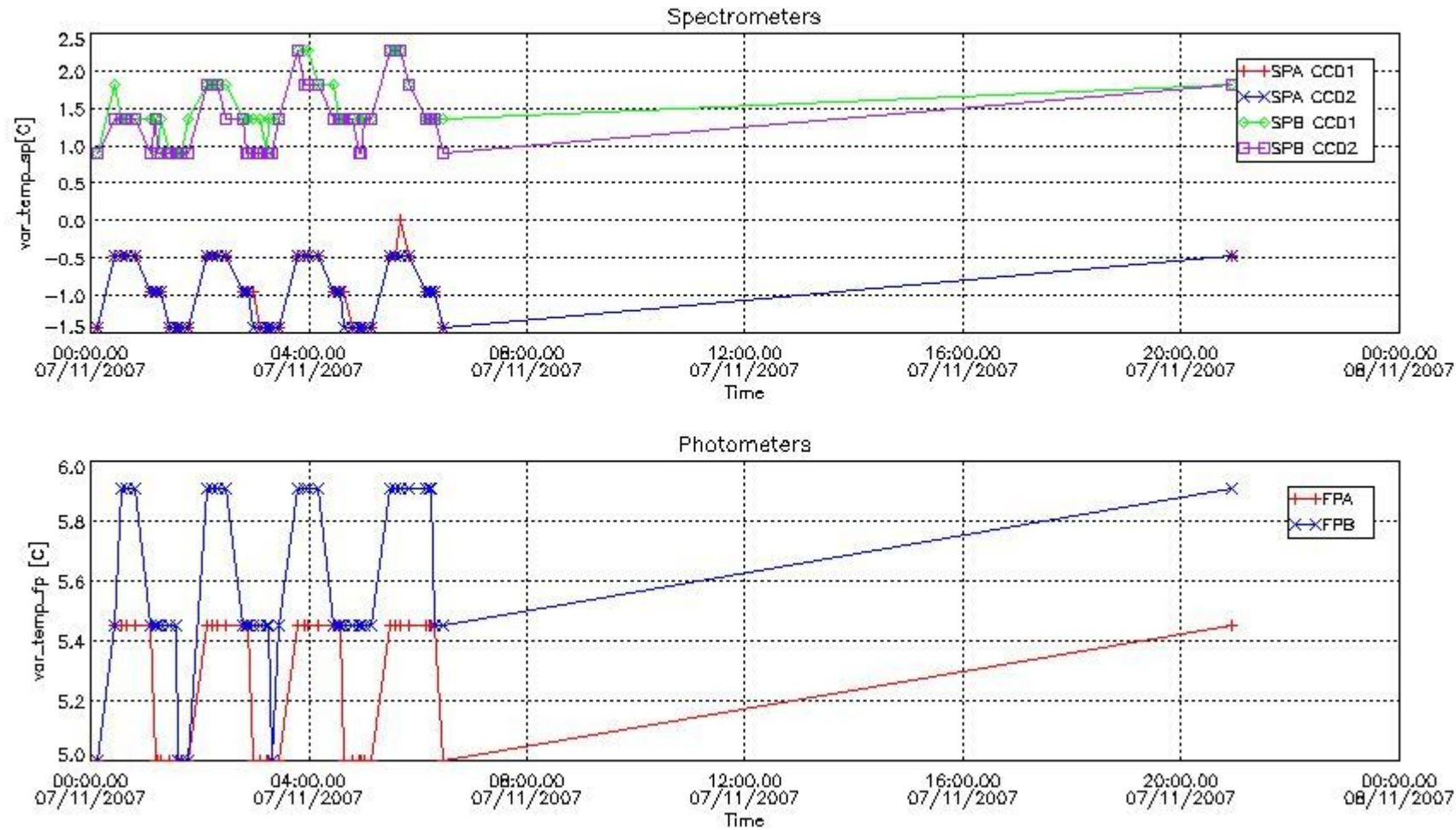
2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
07-NOV-2007 22:14:34	MuVel	113	29742
07-NOV-2007 22:18:48	DSA1030	0	29743
07-NOV-2007 22:21:29	Gam2Vel	34	29743
07-NOV-2007 22:26:38	AlpCar	2	29743
07-NOV-2007 22:36:14	The1Eri	157	29743
07-NOV-2007 22:54:28	6BetAri	105	29743
07-NOV-2007 22:58:41	4BetTri	173	29743
07-NOV-2007 23:00:44	57Gam1And	73	29743
07-NOV-2007 23:04:57	23GamPer	160	29743
07-NOV-2007 23:13:47	1AlpUMi	49	29743
07-NOV-2007 23:21:46	50AlpUMa	36	29743
07-NOV-2007 23:23:23	48BetUMa	82	29743
07-NOV-2007 23:27:13	52PsiUMa	174	29743
07-NOV-2007 23:35:03	68DelLeo	96	29743
07-NOV-2007 23:55:11	MuVel	113	29743

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_1PNPDE20071107_000638_000000542063_00116_29729_6952.N1	07-NOV-2007 00:06:38	Bright	53.500	96	68Del Leo	2.5600	9300.0	107	29729	No
2	GOM_TRA_1PNPDE20071107_002643_000000382063_00116_29729_7082.N1	07-NOV-2007 00:26:43	Dark	38.000	113	Mu Vel	2.6920	5000.0	76	29729	No
3	GOM_TRA_1PNPDE20071107_003332_000000482063_00117_29730_7083.N1	07-NOV-2007 00:33:32	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	29730	No
4	GOM_TRA_1PNPDE20071107_003844_000000502063_00117_29730_7084.N1	07-NOV-2007 00:38:44	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	29730	No
5	GOM_TRA_1PNPDE20071107_004826_000000412063_00117_29730_7085.N1	07-NOV-2007 00:48:26	Straylight	40.500	157	The1Eri	2.9060	9300.0	81	29730	No
6	GOM_TRA_1PNPDE20071107_010644_000000372063_00117_29730_7086.N1	07-NOV-2007 01:06:44	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	29730	No
7	GOM_TRA_1PNPDE20071107_011054_000000392063_00117_29730_7087.N1	07-NOV-2007 01:10:54	Bright	38.500	53	43Bet And	2.0480	3300.0	77	29730	No
8	GOM_TRA_1PNPDE20071107_011302_000000402063_00117_29730_7088.N1	07-NOV-2007 01:13:02	Bright	40.000	73	57Gam1And	2.2600	13100.	80	29730	No
9	GOM_TRA_1PNPDE20071107_011718_000000402063_00117_29730_7089.N1	07-NOV-2007 01:17:18	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	29730	No
10	GOM_TRA_1PNPDE20071107_012602_000000352063_00117_29730_7090.N1	07-NOV-2007 01:26:02	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29730	No
11	GOM_TRA_1PNPDE20071107_013403_000000402063_00117_29730_7091.N1	07-NOV-2007 01:34:03	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	29730	No
12	GOM_TRA_1PNPDE20071107_013540_000000382063_00117_29730_7092.N1	07-NOV-2007 01:35:40	Bright	37.500	82	48Bet UMa	2.3650	10600.	75	29730	No
13	GOM_TRA_1PNPDE20071107_013929_000000402063_00117_29730_7093.N1	07-NOV-2007 01:39:29	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	29730	No
14	GOM_TRA_1PNPDE20071107_014714_000000612063_00117_29730_7094.N1	07-NOV-2007 01:47:14	Bright	60.500	96	68Del Leo	2.5600	9300.0	121	29730	No
15	GOM_TRA_1PNPDE20071107_020719_000000402063_00117_29730_7231.N1	07-NOV-2007 02:07:19	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	29730	No
16	GOM_TRA_1PNPDE20071107_021408_000000472063_00118_29731_7232.N1	07-NOV-2007 02:14:08	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	29731	No
17	GOM_TRA_1PNPDE20071107_021920_000000522063_00118_29731_7233.N1	07-NOV-2007 02:19:20	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	29731	No
18	GOM_TRA_1PNPDE20071107_022902_000000382063_00118_29731_7234.N1	07-NOV-2007 02:29:02	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	29731	No
19	GOM_TRA_1PNPDE20071107_024720_000000372063_00118_29731_7235.N1	07-NOV-2007 02:47:20	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	29731	No
20	GOM_TRA_1PNPDE20071107_025141_000000272063_00118_29731_7236.N1	07-NOV-2007 02:51:41	Bright	27.000	53	43Bet And	2.0480	3300.0	54	29731	Yes
21	GOM_TRA_1PNPDE20071107_025338_000000402063_00118_29731_7237.N1	07-NOV-2007 02:53:38	Bright	39.500	73	57Gam1And	2.2600	13100.	79	29731	No
22	GOM_TRA_1PNPDE20071107_025753_000000402063_00118_29731_7238.N1	07-NOV-2007 02:57:53	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	29731	No
23	GOM_TRA_1PNPDE20071107_030638_000000322063_00118_29731_7239.N1	07-NOV-2007 03:06:38	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	29731	No
24	GOM_TRA_1PNPDE20071107_031438_000000402063_00118_29731_7397.N1	07-NOV-2007 03:14:38	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	29731	No
25	GOM_TRA_1PNPDE20071107_031616_000000392063_00118_29731_7398.N1	07-NOV-2007 03:16:16	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	29731	No
26	GOM_TRA_1PNPDE20071107_032005_000000382063_00118_29731_7399.N1	07-NOV-2007 03:20:05	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	29731	No
27	GOM_TRA_1PNPDE20071107_032751_000000412063_00118_29731_7400.N1	07-NOV-2007 03:27:51	Bright	41.000	96	68Del Leo	2.5600	9300.0	82	29731	No
28	GOM_TRA_1PNPDE20071107_034756_000000432063_00118_29731_7401.N1	07-NOV-2007 03:47:56	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	29731	No
29	GOM_TRA_1PNPDE20071107_035445_000000462063_00119_29732_7402.N1	07-NOV-2007 03:54:45	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	29732	No
30	GOM_TRA_1PNPDE20071107_035957_000000502063_00119_29732_7403.N1	07-NOV-2007 03:59:57	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	29732	No
31	GOM_TRA_1PNPDE20071107_040938_000000382063_00119_29732_7404.N1	07-NOV-2007 04:09:38	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	29732	No
32	GOM_TRA_1PNPDE20071107_042755_000000382063_00119_29732_7405.N1	07-NOV-2007 04:27:55	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	29732	No
33	GOM_TRA_1PNPDE20071107_043210_000000372063_00119_29732_7406.N1	07-NOV-2007 04:32:10	Bright	36.500	173	4Bet Tri	3.0040	8900.0	73	29732	No
34	GOM_TRA_1PNPDE20071107_043413_000000382063_00119_29732_7407.N1	07-NOV-2007 04:34:13	Bright	38.000	73	57Gam1And	2.2600	13100.	76	29732	No
35	GOM_TRA_1PNPDE20071107_043829_000000412063_00119_29732_7408.N1	07-NOV-2007 04:38:29	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	29732	No
36	GOM_TRA_1PNPDE20071107_044714_000000352063_00119_29732_7409.N1	07-NOV-2007 04:47:14	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	29732	No
37	GOM_TRA_1PNPDE20071107_045514_000000412063_00119_29732_7523.N1	07-NOV-2007 04:55:14	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	29732	No
38	GOM_TRA_1PNPDE20071107_045652_000000422063_00119_29732_7524.N1	07-NOV-2007 04:56:52	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	29732	No
39	GOM_TRA_1PNPDE20071107_050041_000000442063_00119_29732_7525.N1	07-NOV-2007 05:00:41	Bright	44.000	174	52Psi UMa	3.0040	4400.0	88	29732	No
40	GOM_TRA_1PNPDE20071107_050827_000000402063_00119_29732_7526.N1	07-NOV-2007 05:08:27	Bright	40.000	96	68Del Leo	2.5600	9300.0	80	29732	No
41	GOM_TRA_1PNPDE20071107_052832_000000412063_00119_29732_7527.N1	07-NOV-2007 05:28:32	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	29732	No
42	GOM_TRA_1PNPDE20071107_053522_000000472063_00120_29733_7528.N1	07-NOV-2007 05:35:22	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	29733	No
43	GOM_TRA_1PNPDE20071107_054034_000000502063_00120_29733_7529.N1	07-NOV-2007 05:40:34	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	29733	No
44	GOM_TRA_1PNPDE20071107_055014_000000392063_00120_29733_7530.N1	07-NOV-2007 05:50:14	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29733	No
45	GOM_TRA_1PNPDE20071107_060831_000000372063_00120_29733_7531.N1	07-NOV-2007 06:08:31	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	29733	No
46	GOM_TRA_1PNPDE20071107_061246_000000372063_00120_29733_7532.N1	07-NOV-2007 06:12:46	Bright	36.500	173	4Bet Tri	3.0040	8900.0	73	29733	No
47	GOM_TRA_1PNPDE20071107_061449_000000372063_00120_29733_7533.N1	07-NOV-2007 06:14:49	Bright	37.000	73	57Gam1And	2.2600	13100.	74	29733	No
48	GOM_TRA_1PNPDE20071107_061905_000000412063_00120_29733_7534.N1	07-NOV-2007 06:19:05	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	29733	No
49	GOM_TRA_1PNPDE20071107_062750_000000362063_00120_29733_7535.N1	07-NOV-2007 06:27:50	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29733	No
50	GOM_TRA_1PNPDE20071107_205540_000000382063_00129_29742_8035.N1	07-NOV-2007 20:55:40	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	29742	No

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



4. Overview of dark signal processing per product

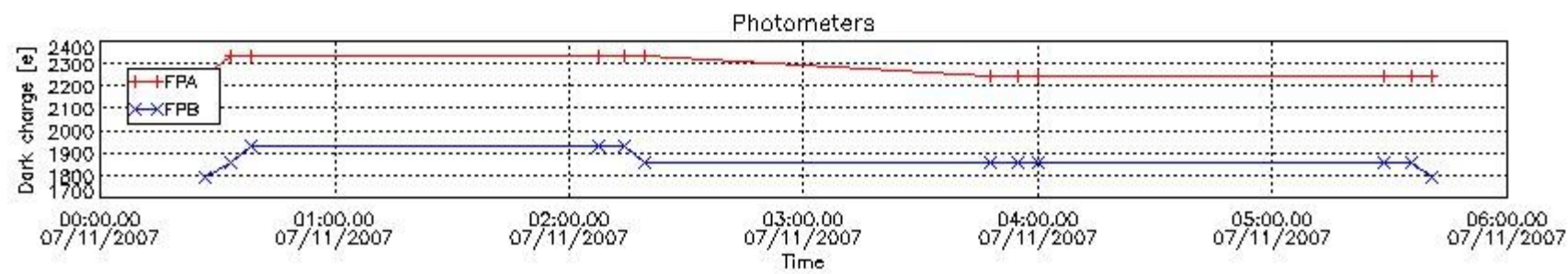
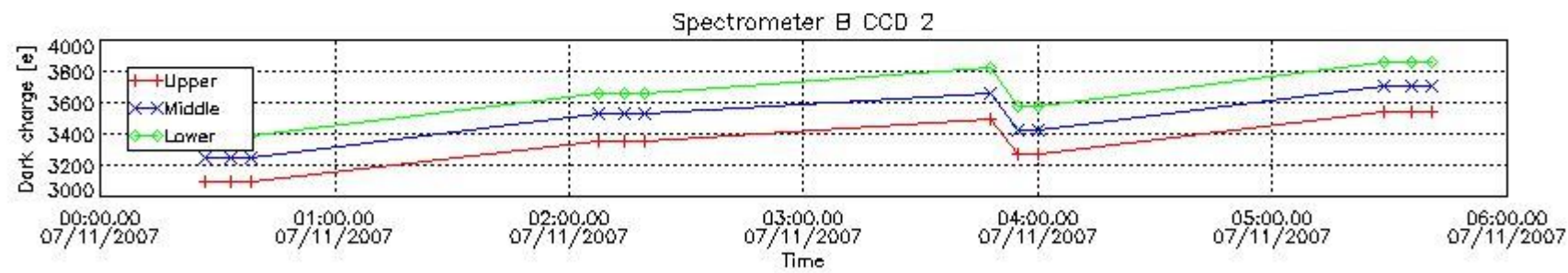
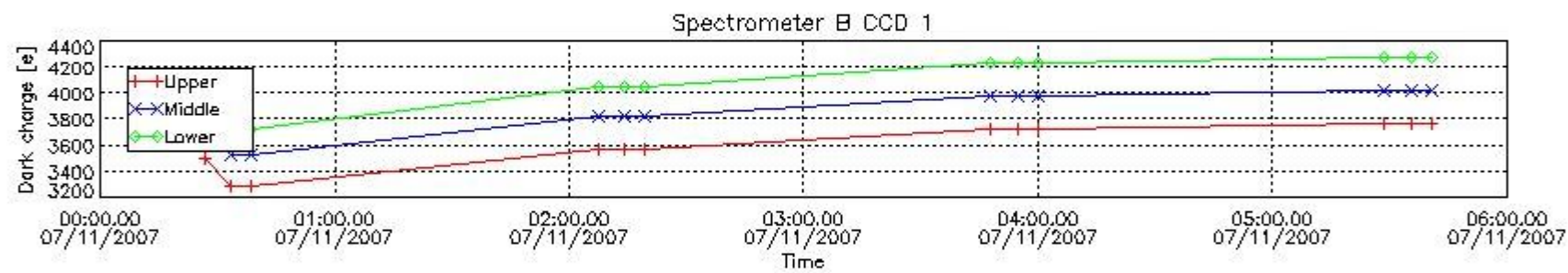
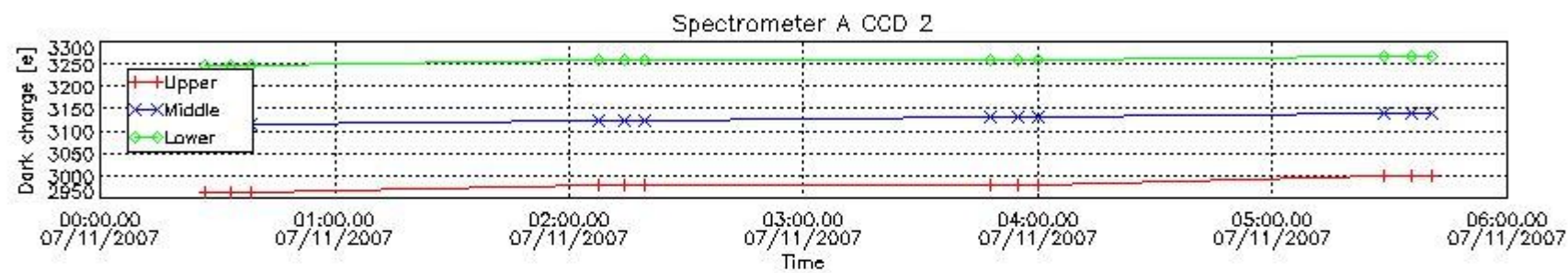
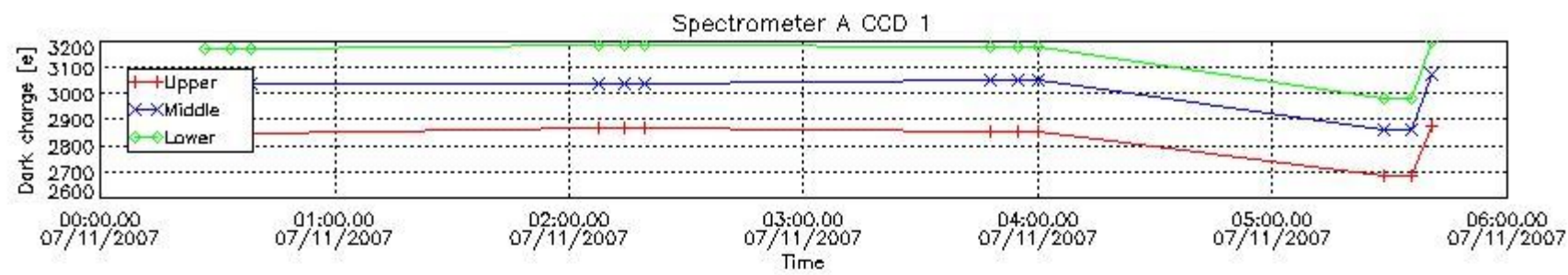
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20071107_205540_000000382063_00129_29742_8035.N1	DC map used

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



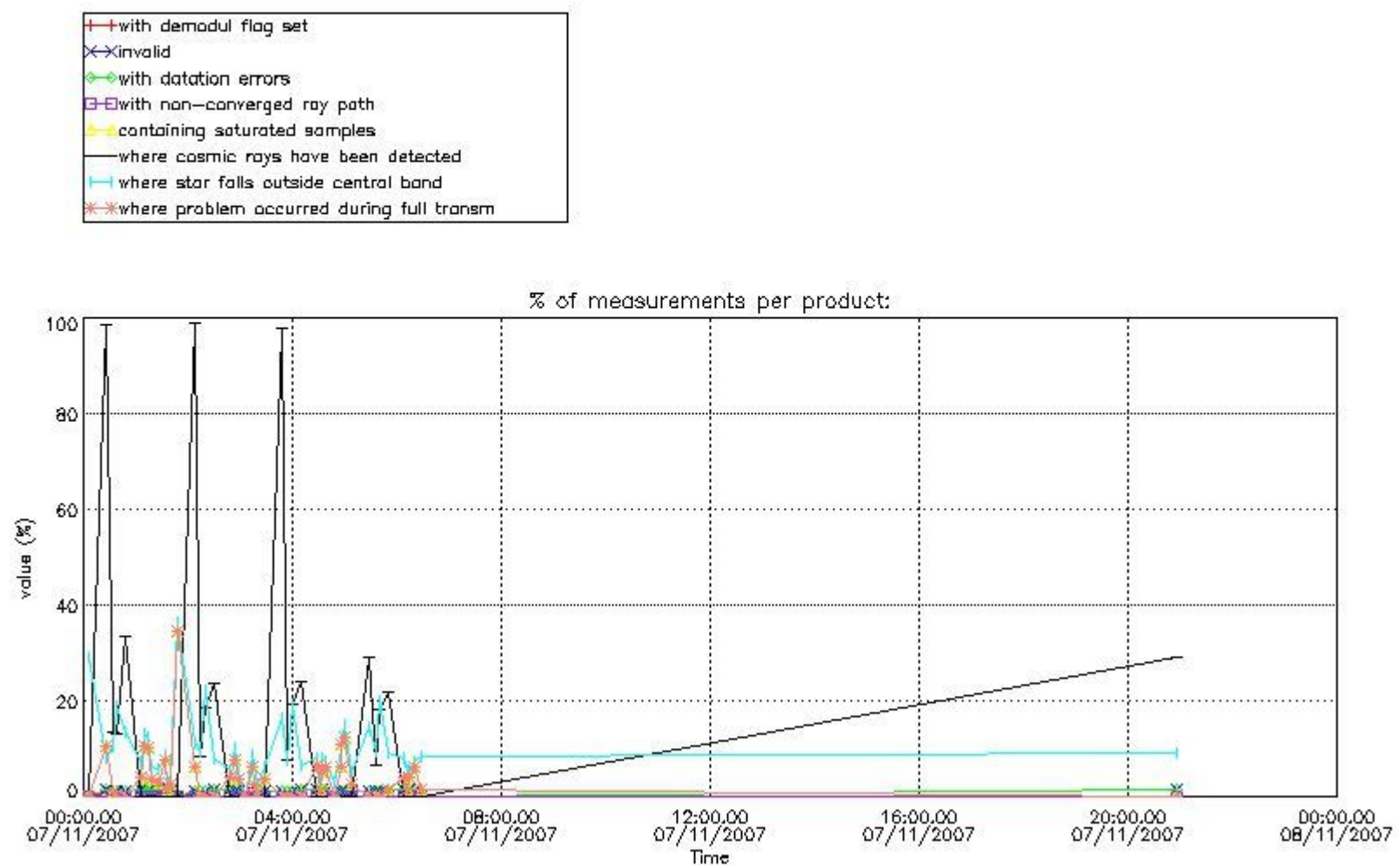
5. Demodulation flag and quality information monitoring

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.

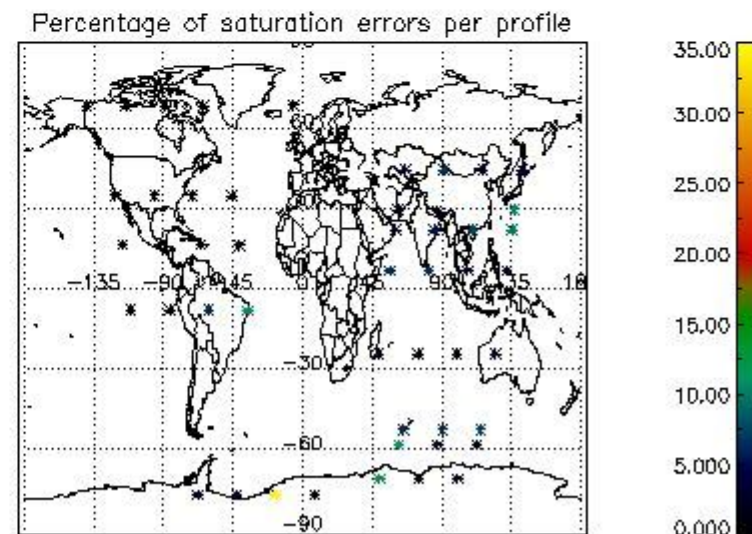
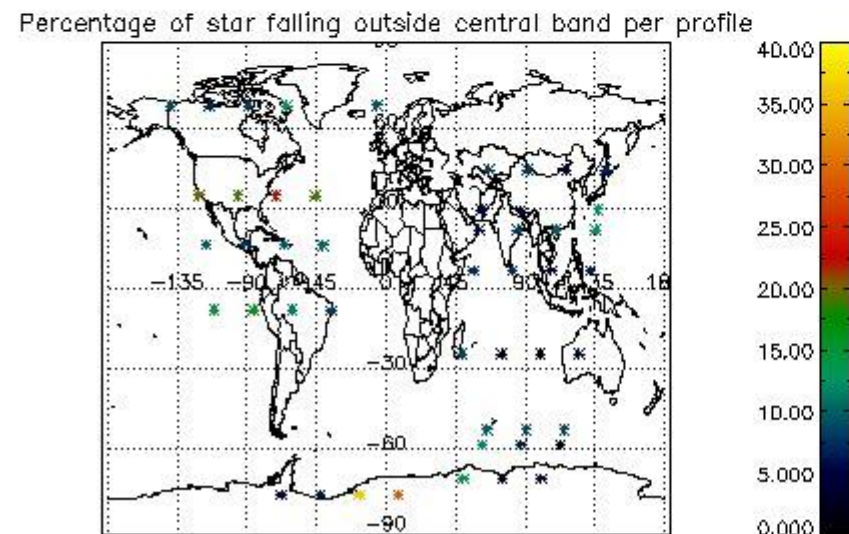
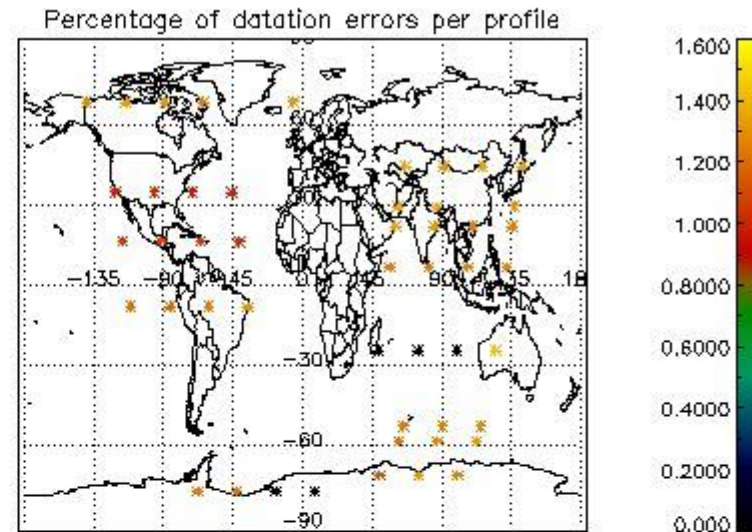
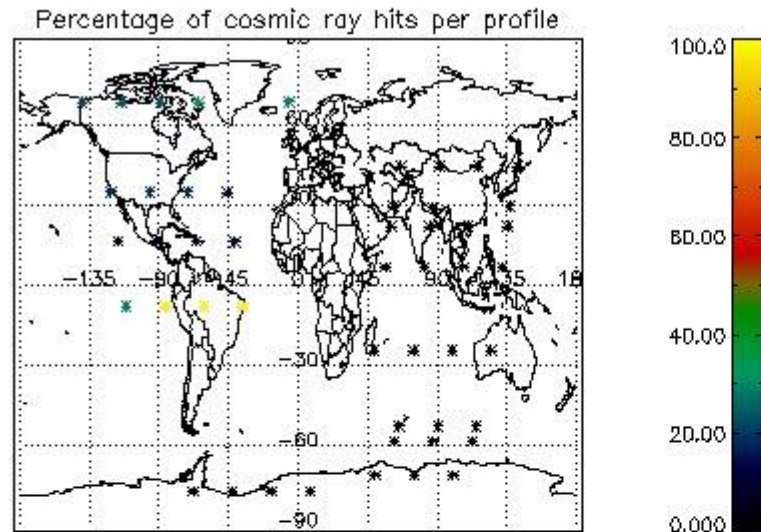
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.3673 %
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)



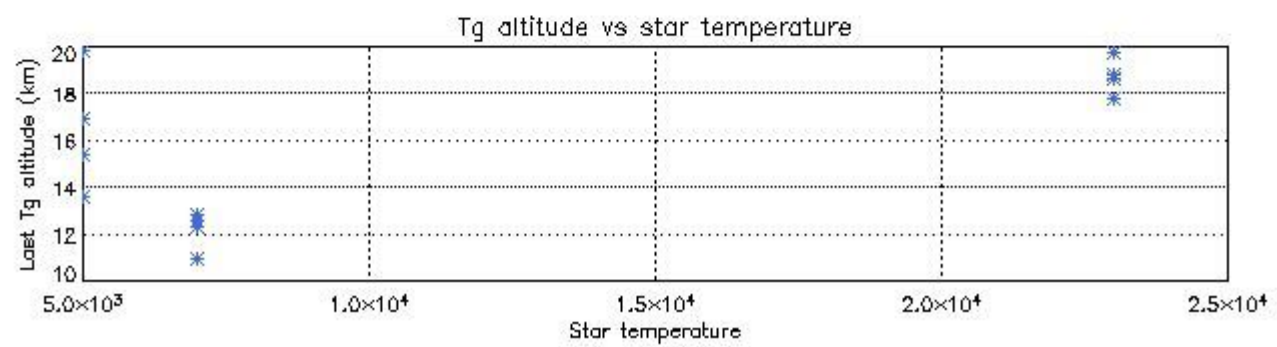
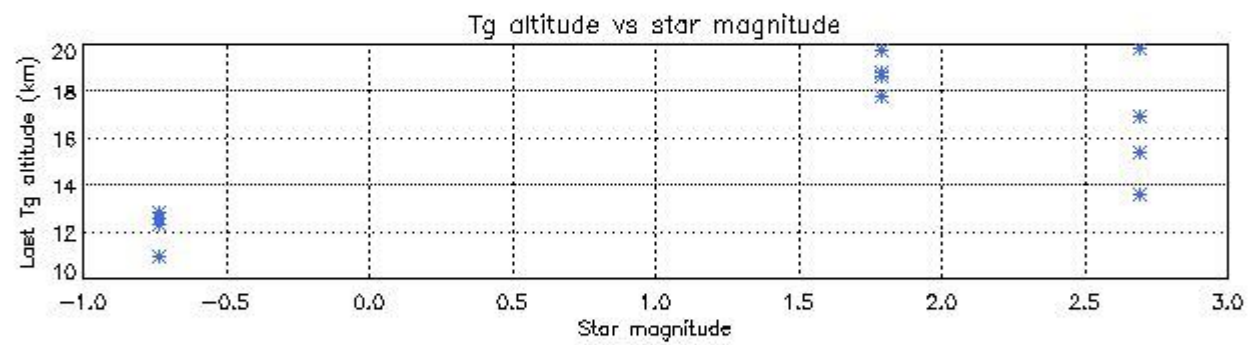
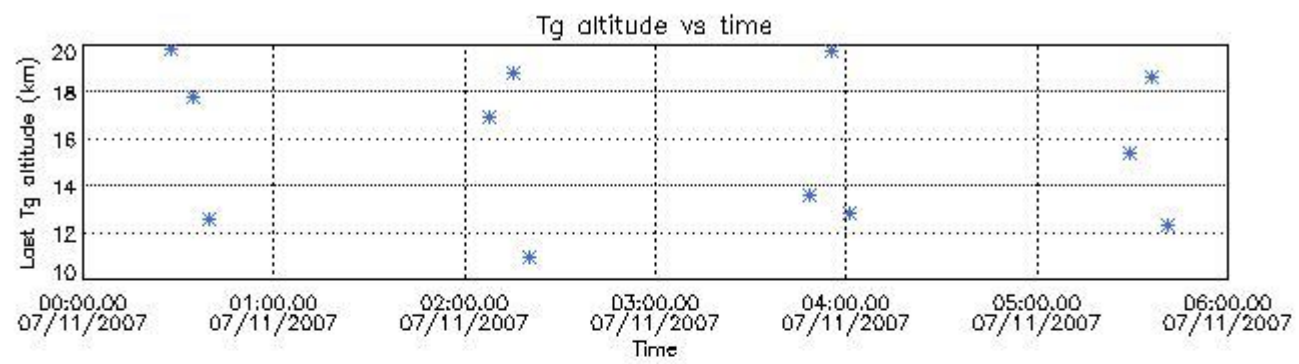
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.780	20.078	NaN
St. deviation:	3.2337	4.6323	NaN
Maximum:	19.846	30.400	NaN
Minimum:	10.903	4.4413	NaN
Number of data:	12.000	32.000	NaN

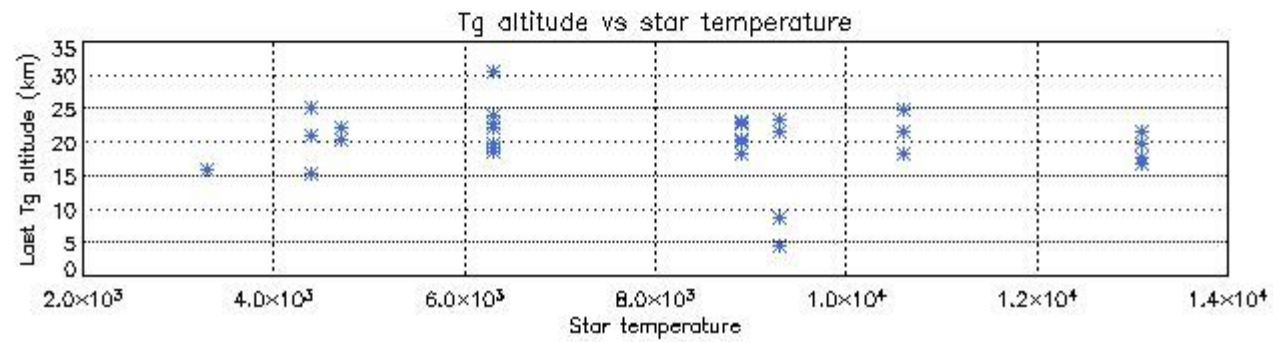
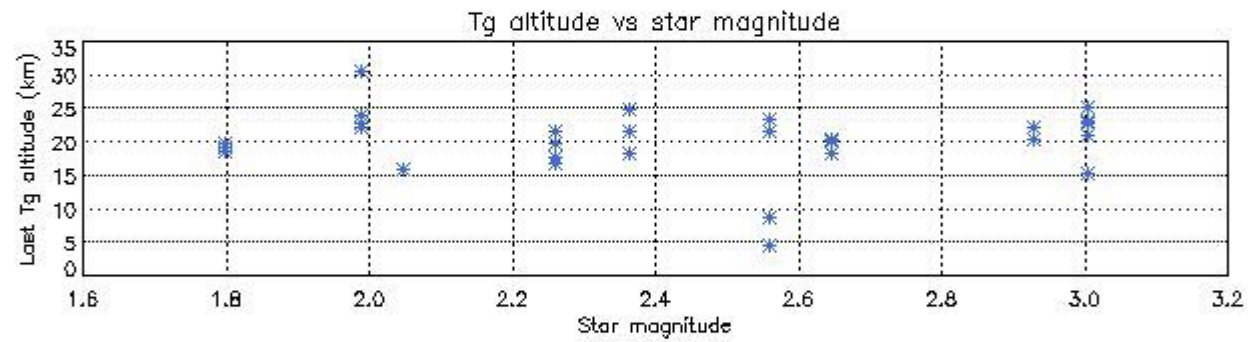
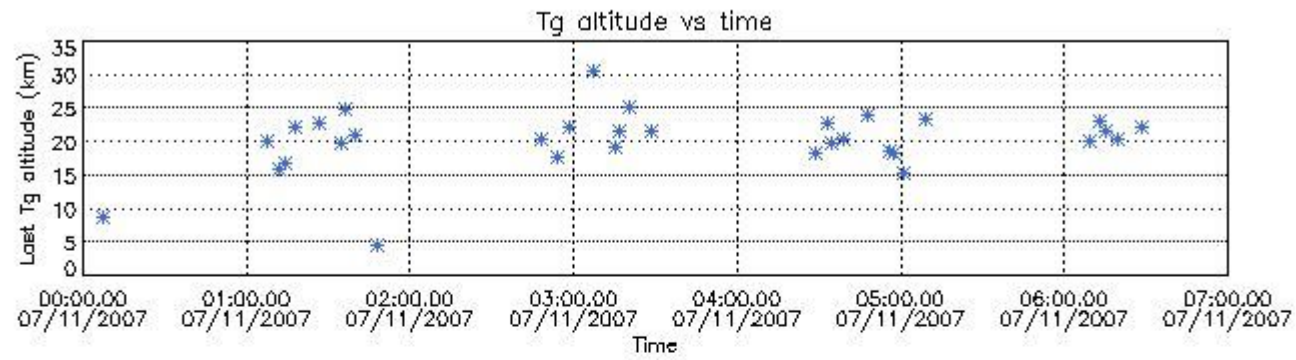
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

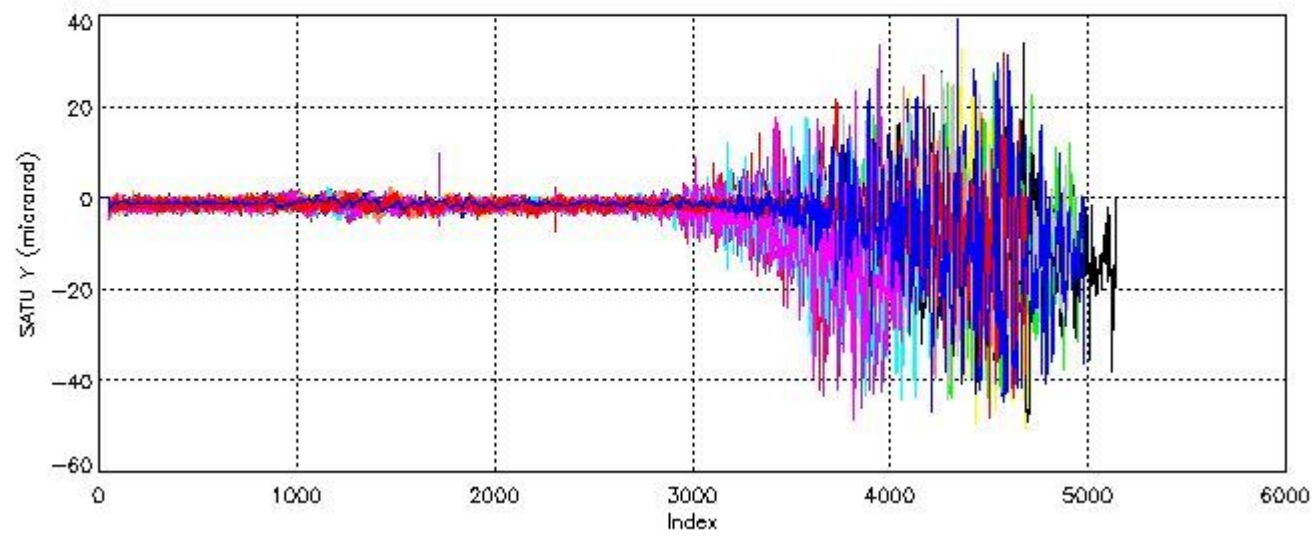
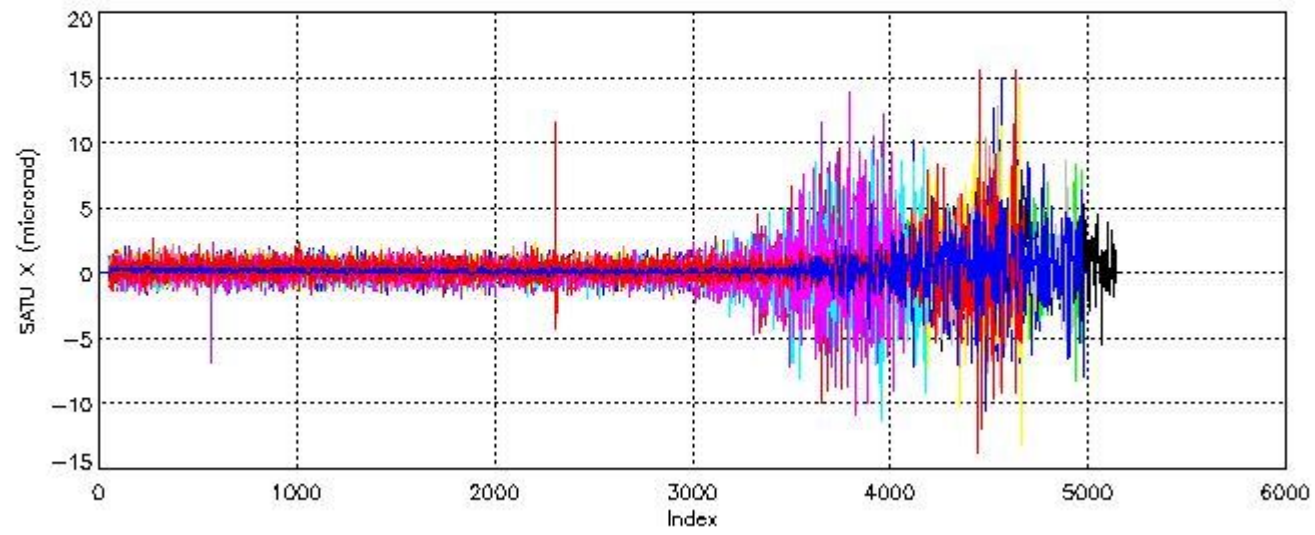


7. Star Acquisition and Tracking Unit (SATU)

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:	0.21804	-1.2739	0.13903	-1.1511
St. deviation:	0.42092	0.74269	0.78027	1.2567
Maximum:	2.6000	1.3000	5.2000	5.4000
Minimum:	-6.9000	-4.9000	-5.1000	-7.3000

Number of data:	12300.	12300.	28250.	28250.
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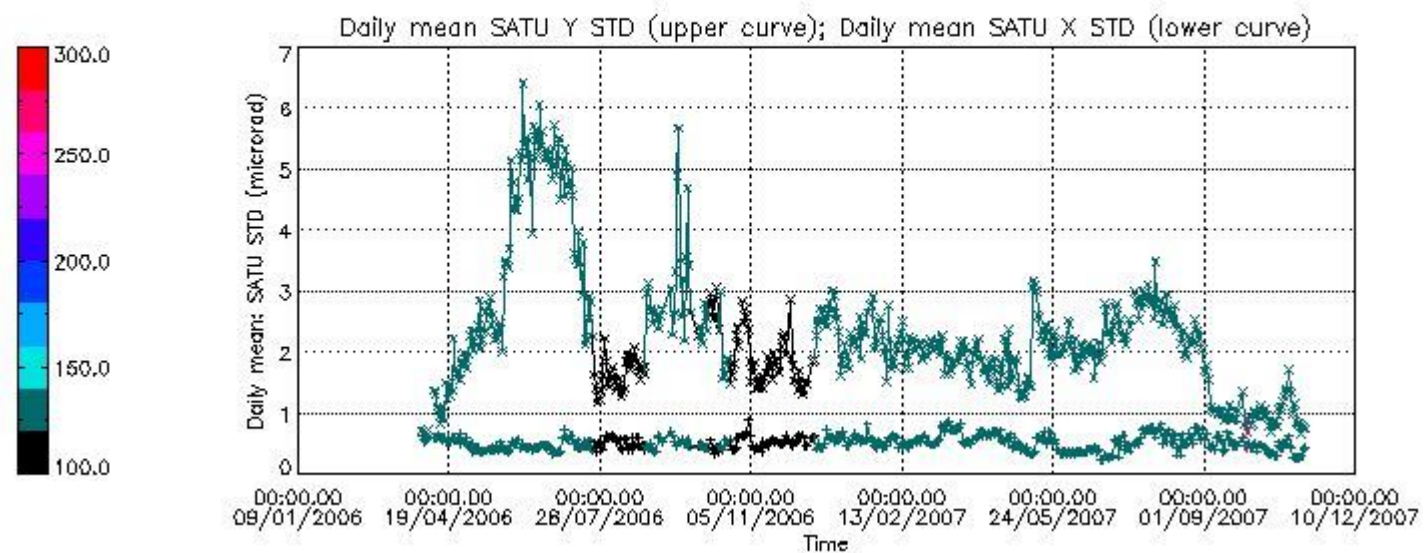
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

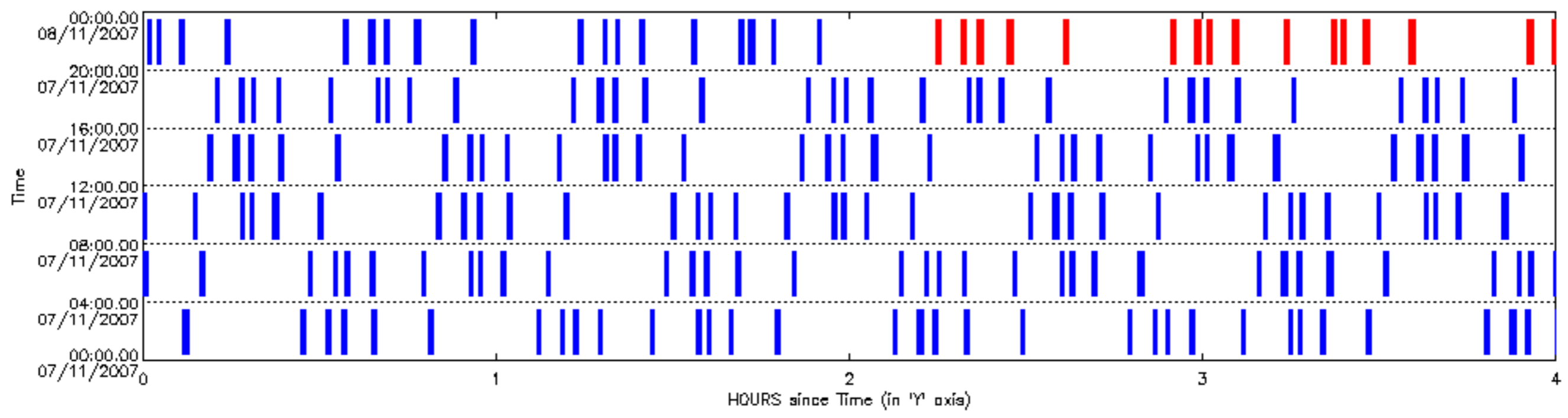
Lower curve: STD of SATU X axis

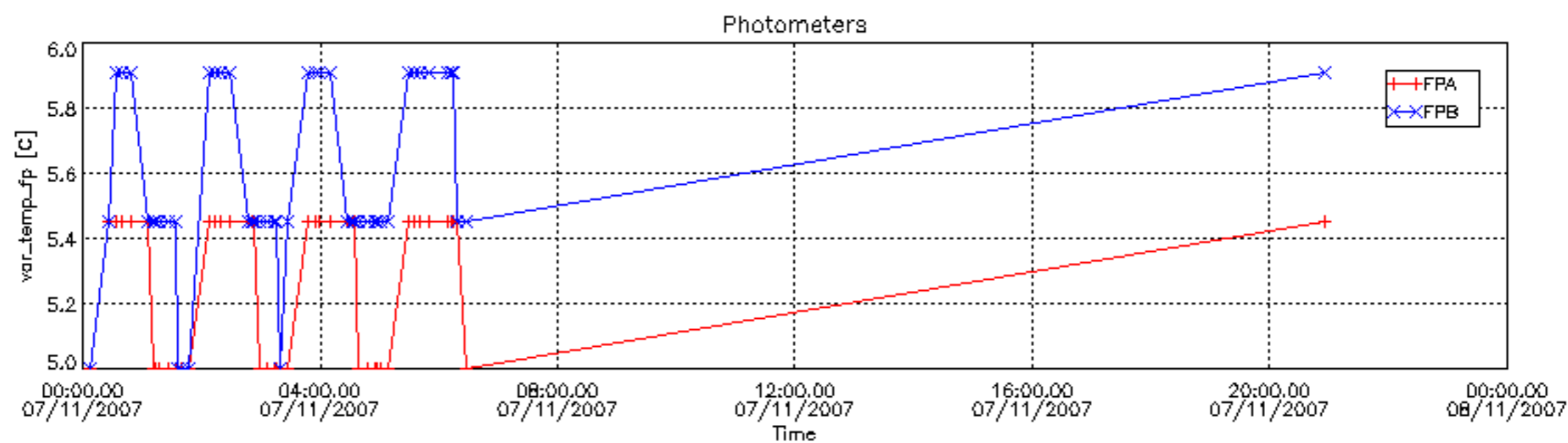
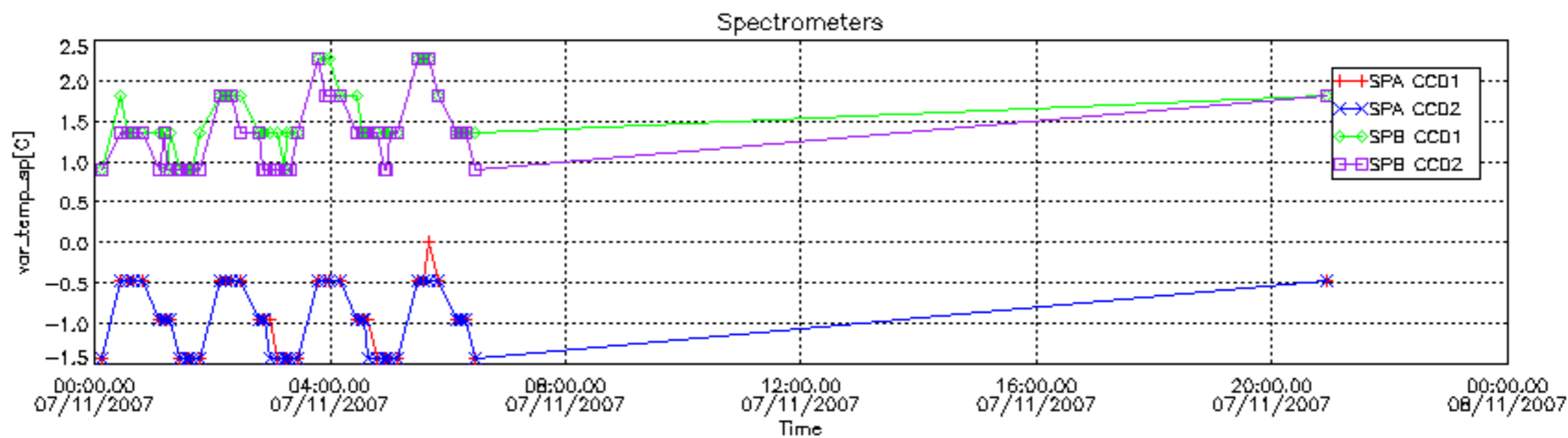


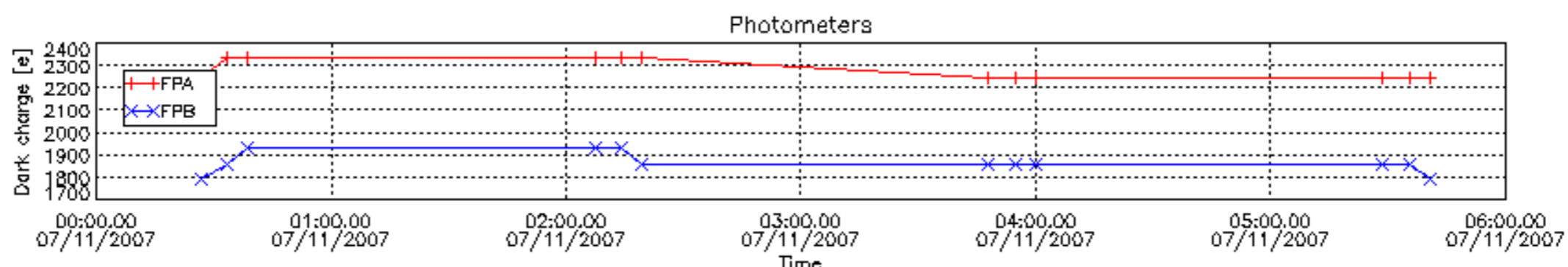
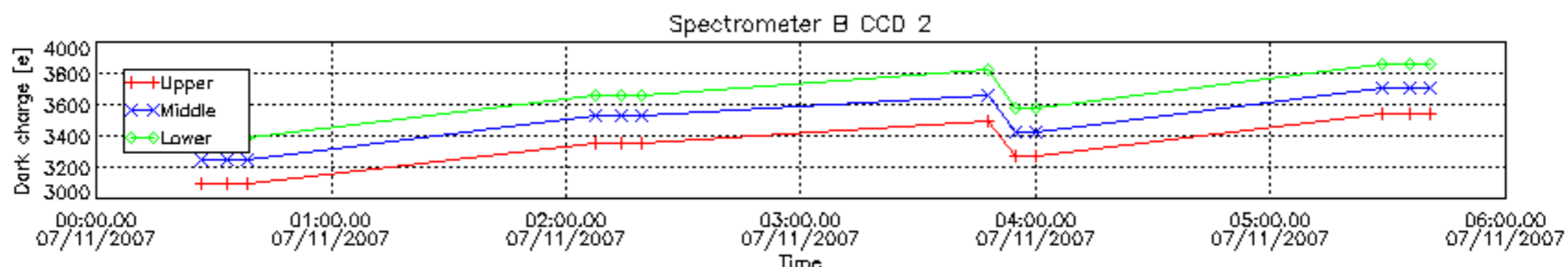
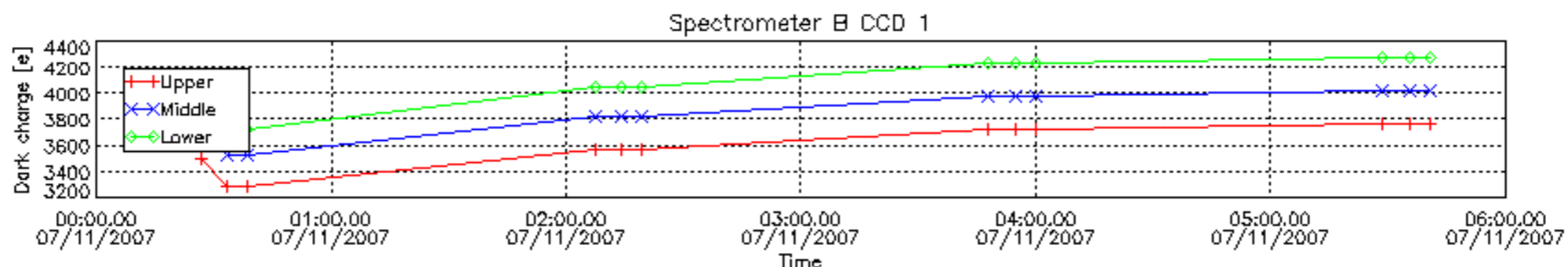
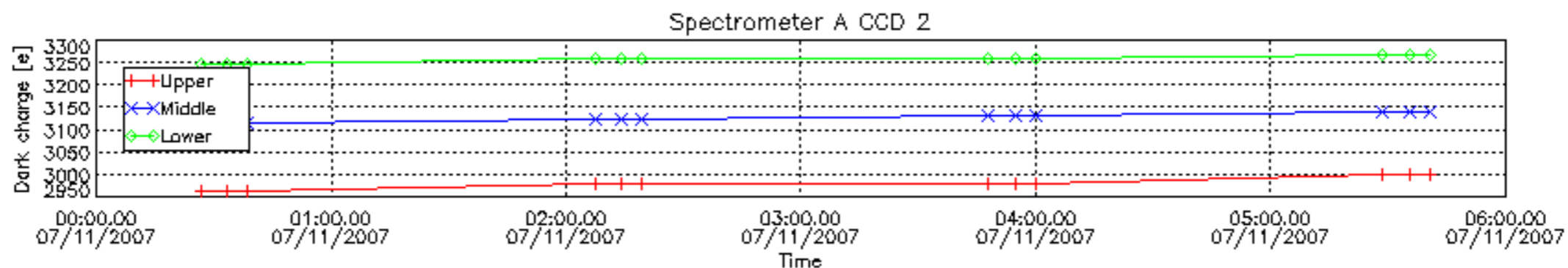
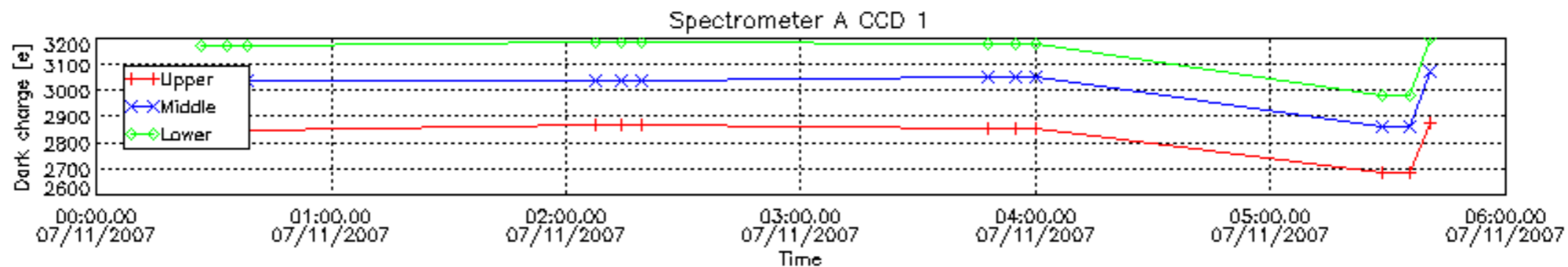
8. Auxiliary Data Files used for the production reported in section 2.4

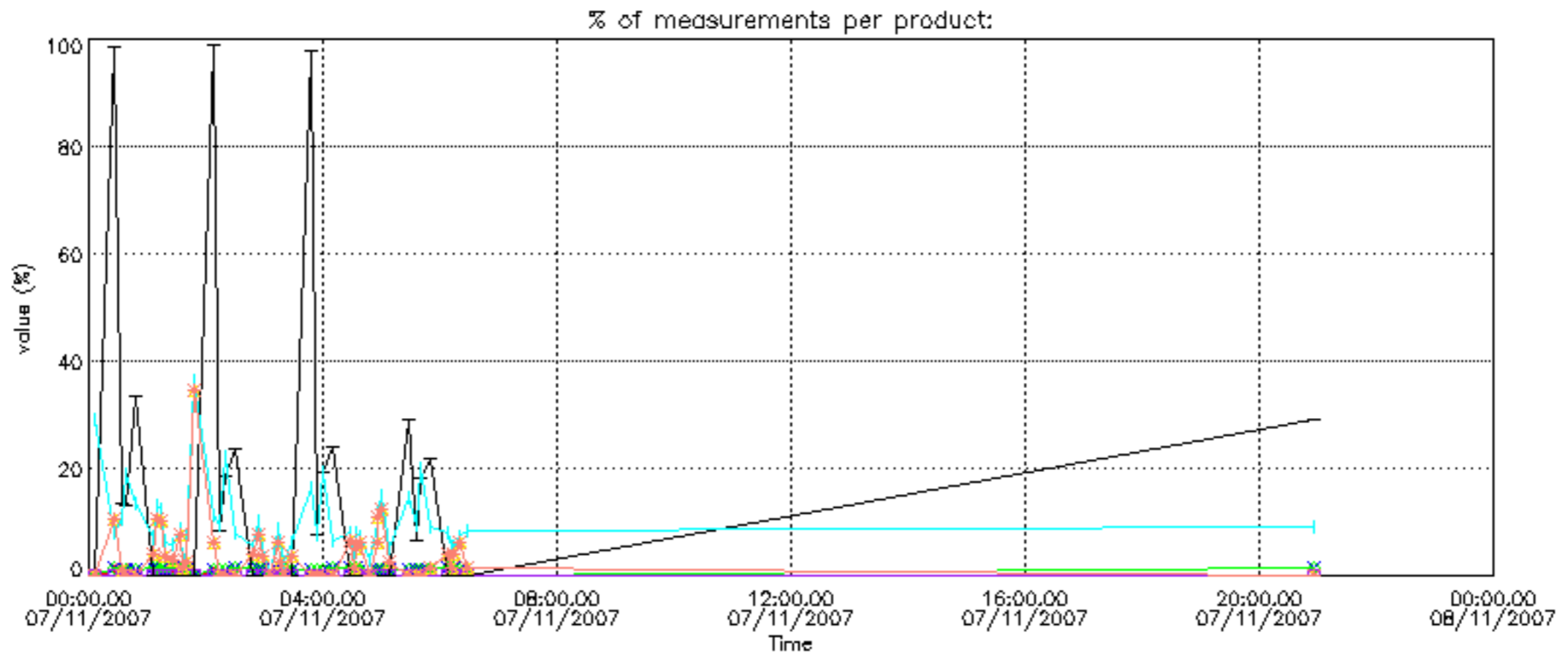
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-NOV-2007 00:06:38
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071029_132344_20071028_000000_20100101_000000	1	07-NOV-2007 00:06:38
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-NOV-2007 00:06:38
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-NOV-2007 00:06:38
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-NOV-2007 00:06:38
ECMWF_FILE	AUX_ECF_AXNECM20071106_063112_20071106_210000_20071107_090000	1	07-NOV-2007 00:06:38
ECMWF_FILE	AUX_ECF_AXNECM20071106_180113_20071107_030000_20071107_150000	24	07-NOV-2007 03:14:38
ECMWF_FILE	AUX_ECF_AXNECM20071107_063110_20071107_150000_20071108_030000	50	07-NOV-2007 20:55:40
OPTIONAL_ECMWF_FILE	MISSING	1	07-NOV-2007 00:06:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071106_204912_000060572063_00114_29727_4508.N1	1	07-NOV-2007 00:06:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071106_223528_000057382063_00115_29728_4509.N1	2	07-NOV-2007 00:26:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071107_001625_000054192063_00116_29729_4510.N1	15	07-NOV-2007 02:07:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071107_015203_000041442063_00117_29730_4511.N1	24	07-NOV-2007 03:14:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071107_030626_000057382063_00118_29731_4512.N1	37	07-NOV-2007 04:55:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071107_204905_000038252063_00129_29742_4514.N1	50	07-NOV-2007 20:55:40

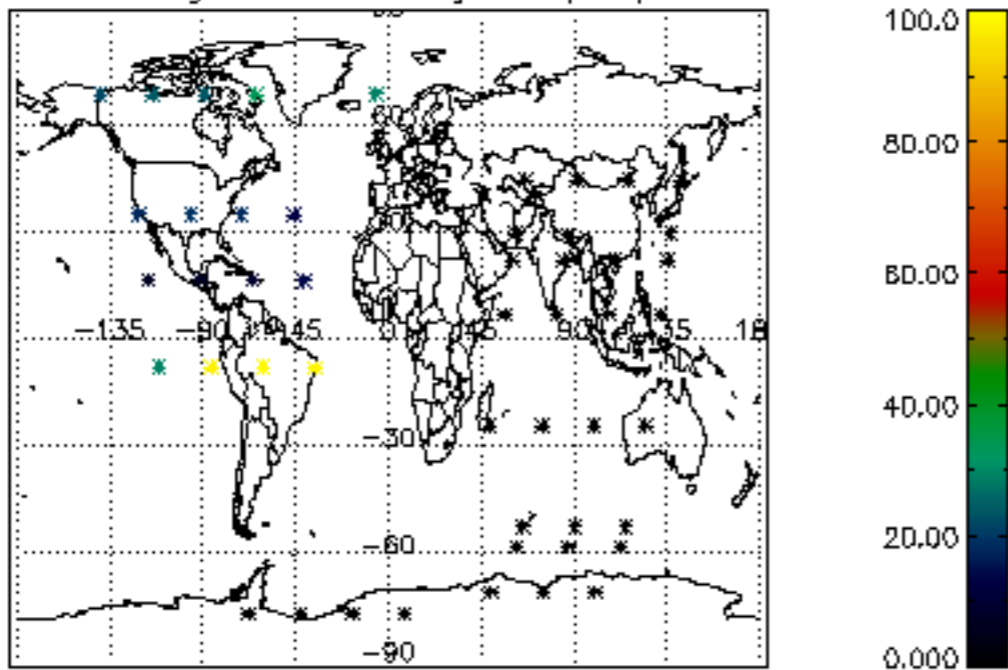




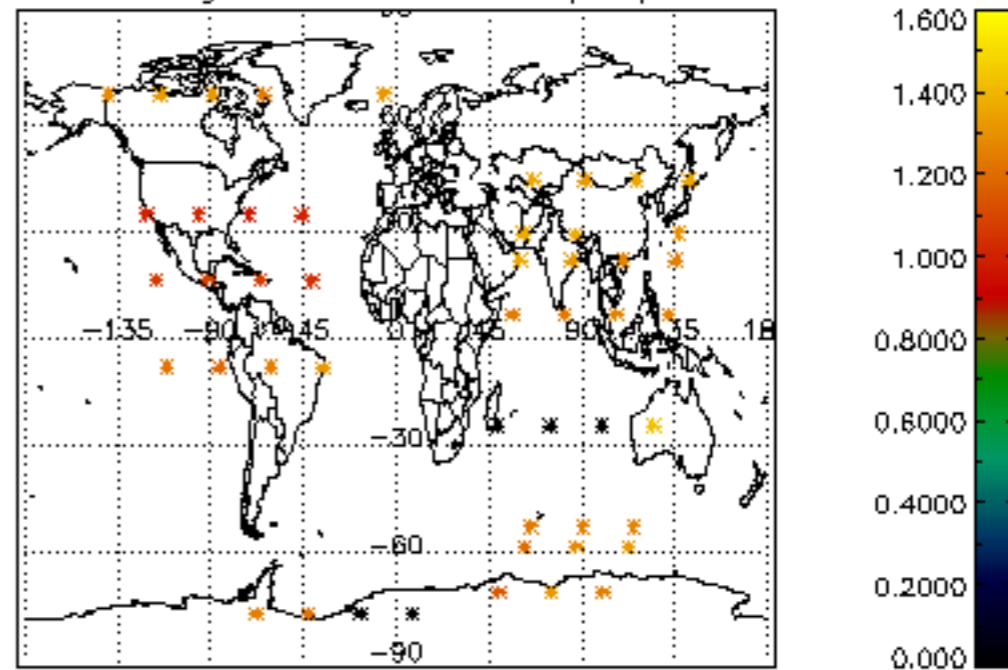




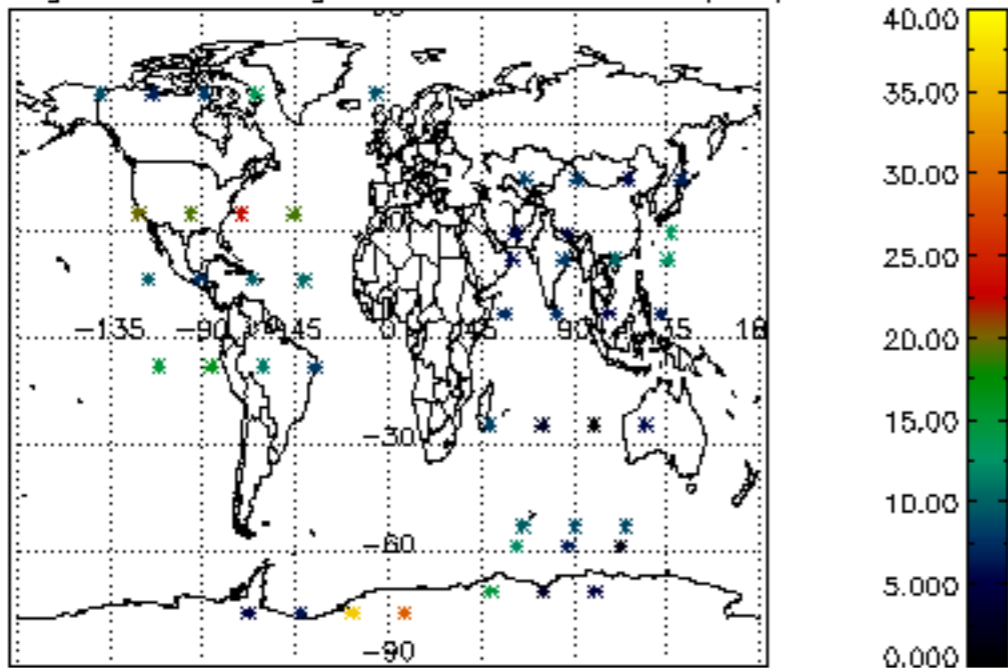
Percentage of cosmic ray hits per profile



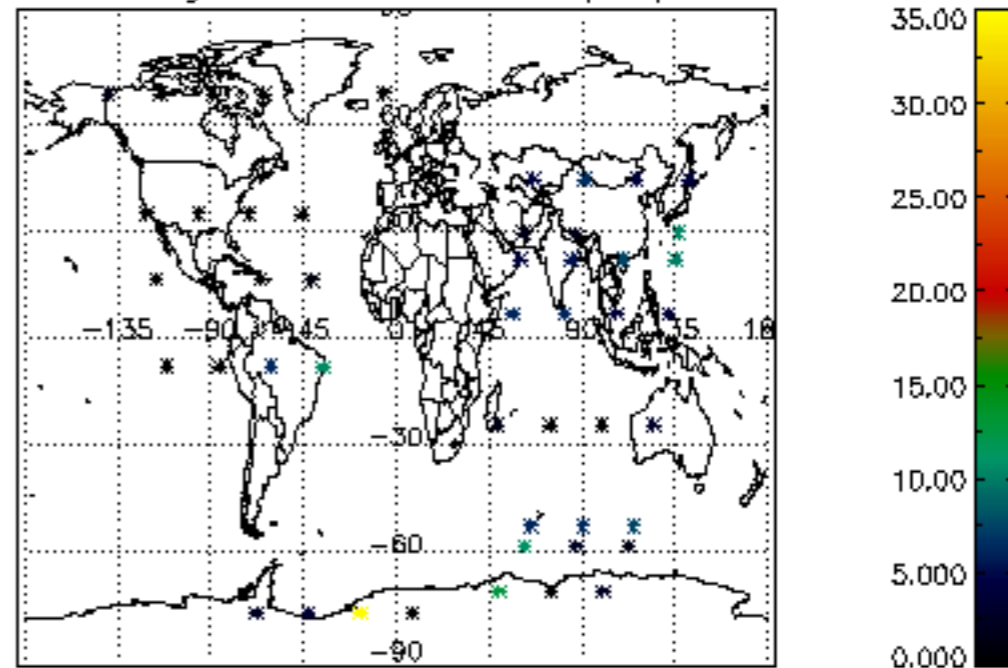
Percentage of datation errors per profile



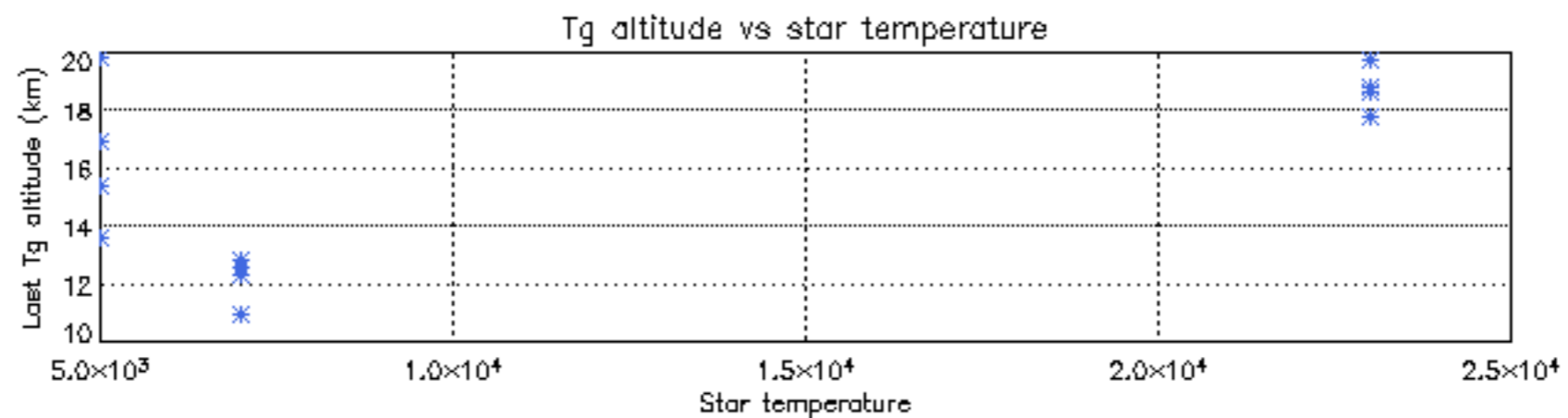
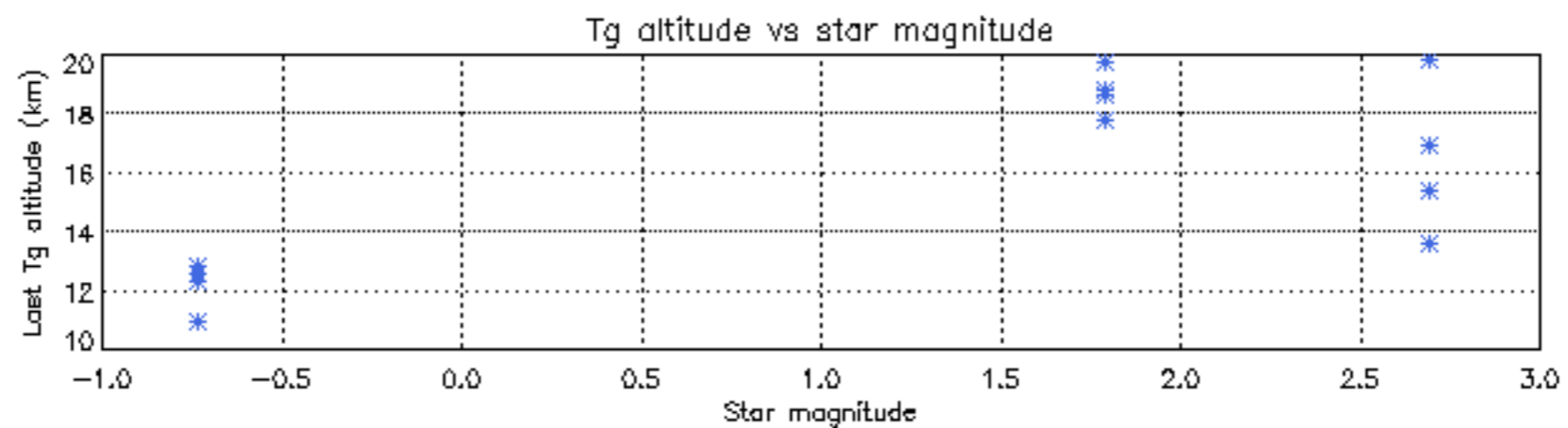
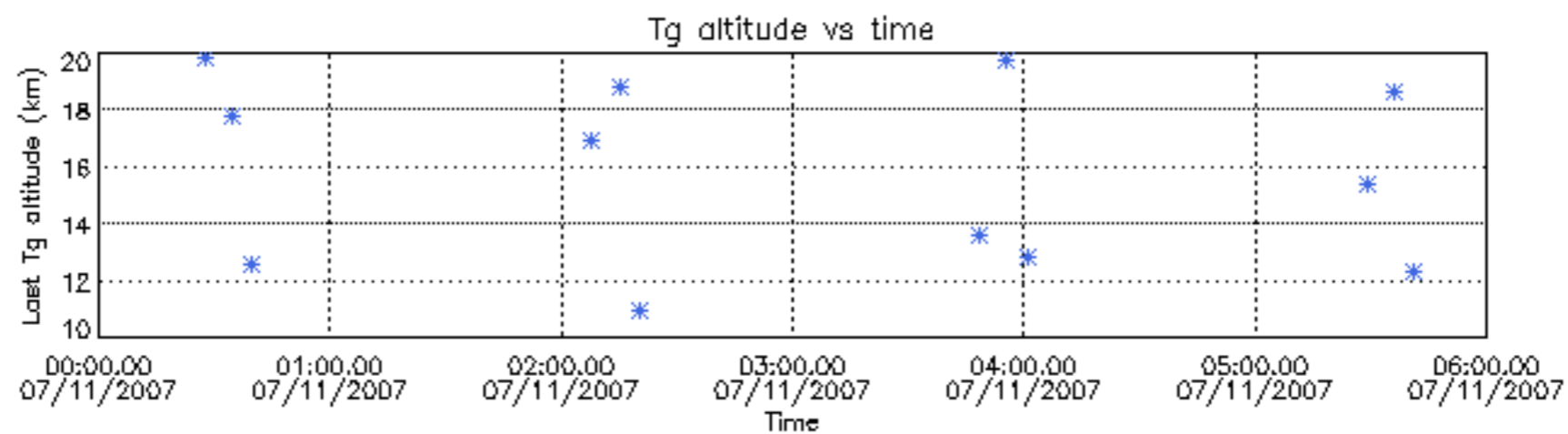
Percentage of star falling outside central band per profile



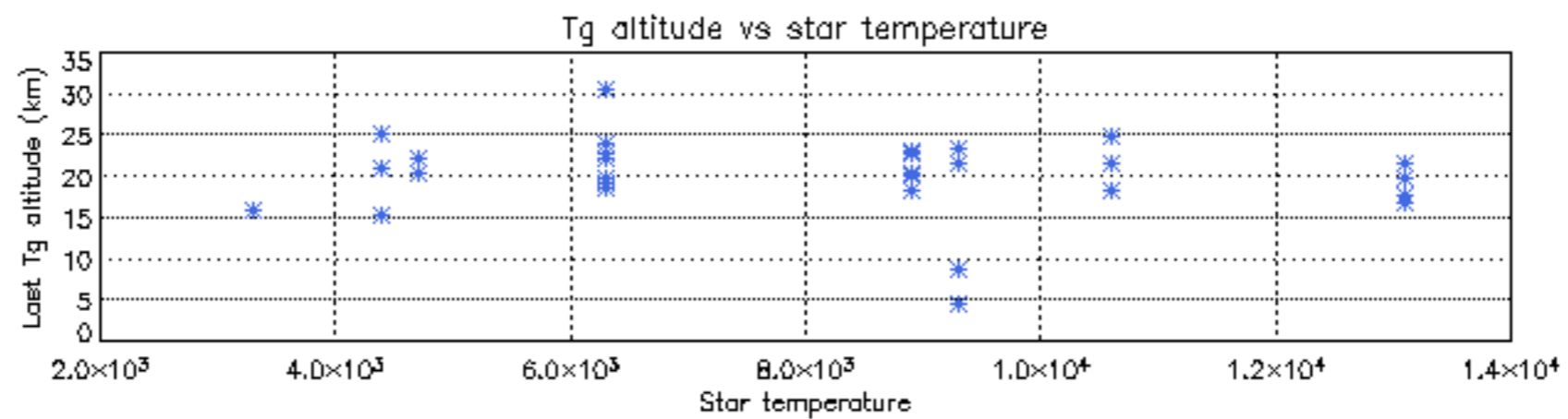
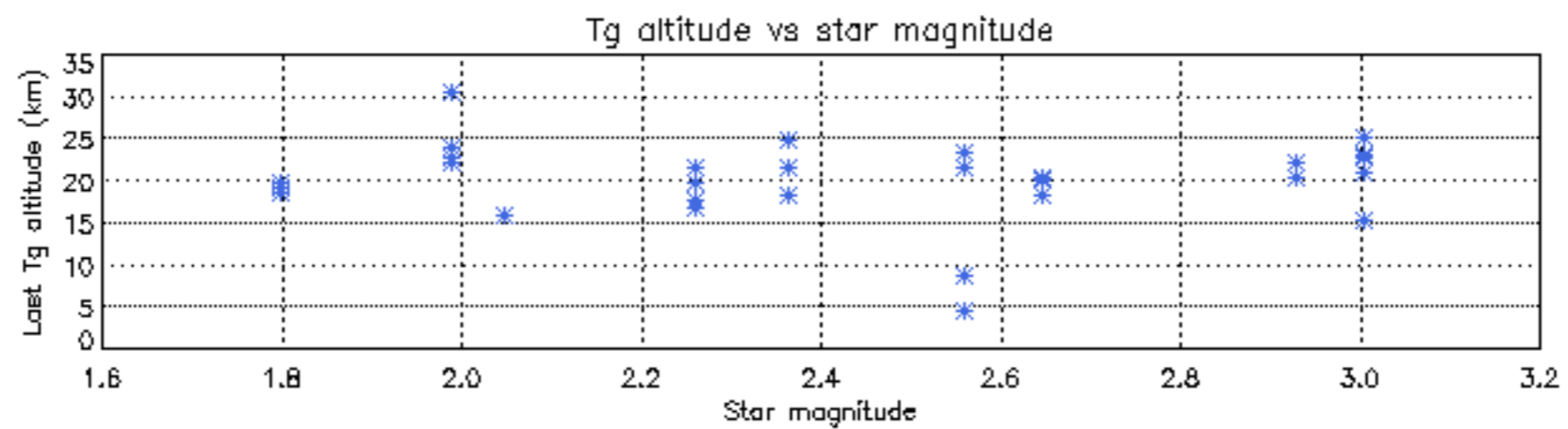
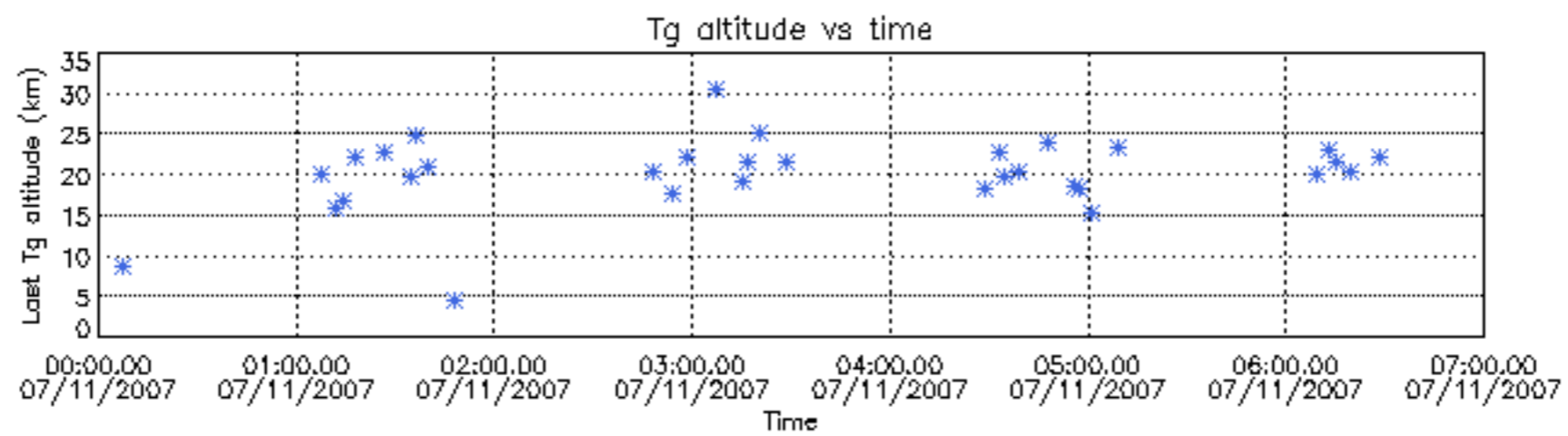
Percentage of saturation errors per profile

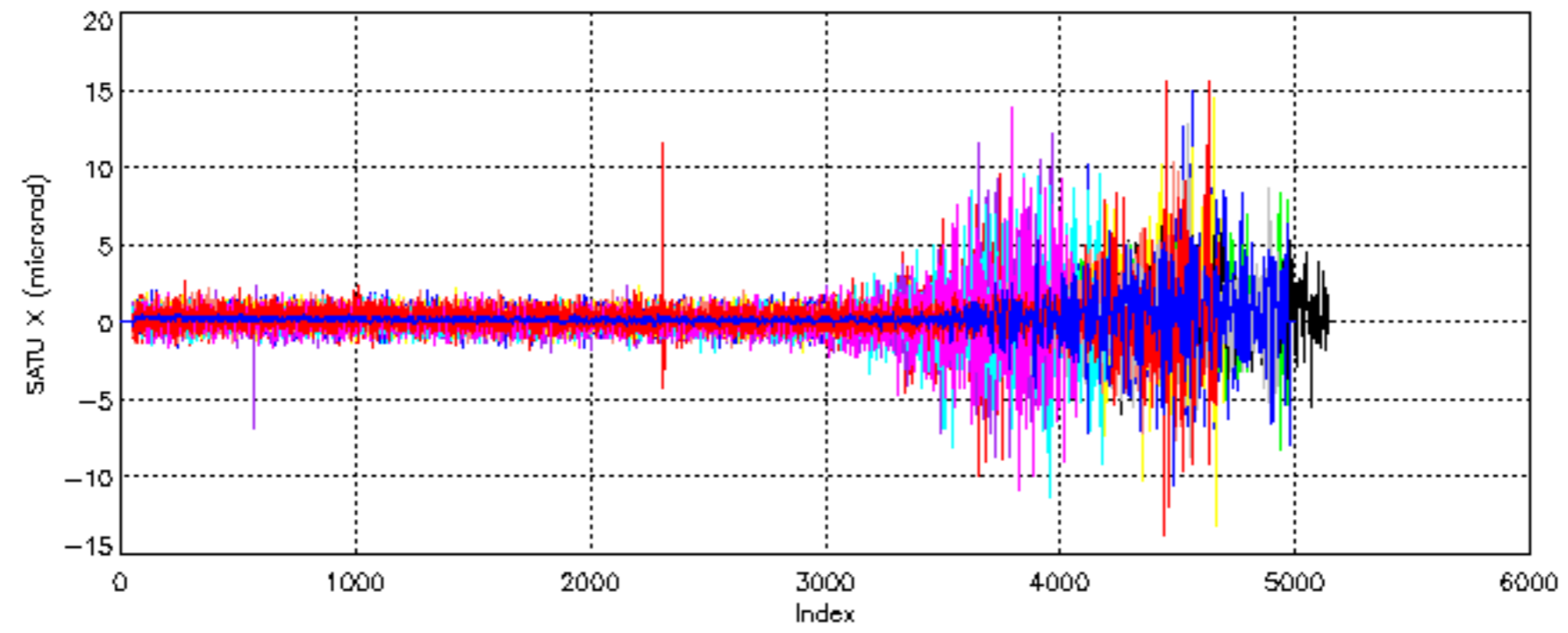


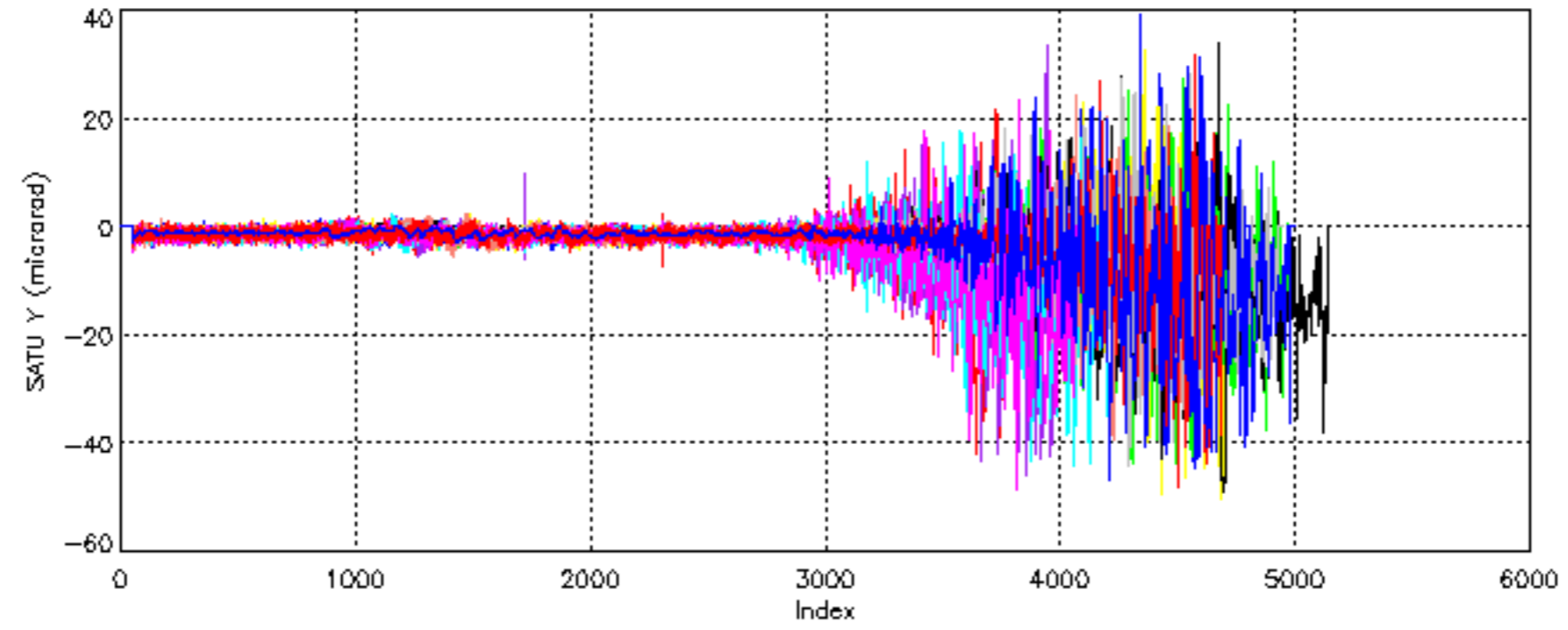
Tangent altitude at which the star is lost

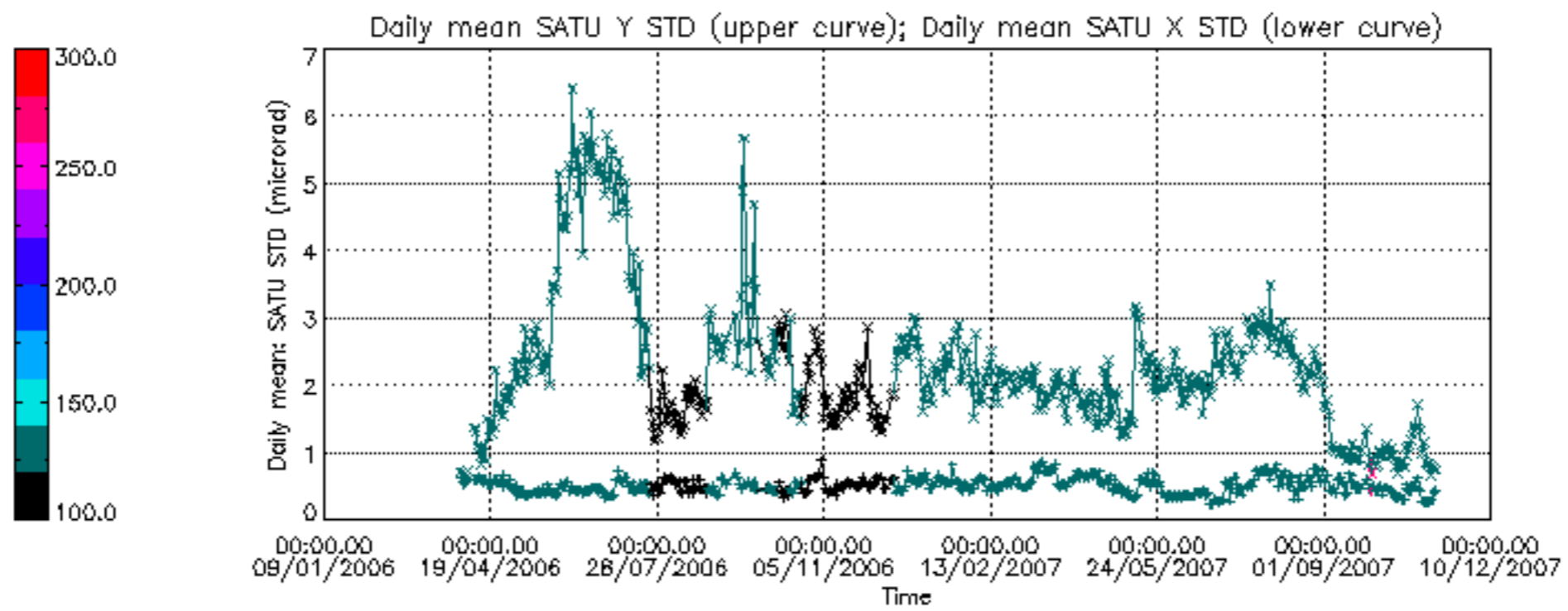


Tangent altitude at which the star is lost









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 2; 131.3; 01-NOV-2007 00:19:41; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29644
 3; 212.3; 01-NOV-2007 00:21:02; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;29644
 4; 341.2; 01-NOV-2007 00:23:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29644
 5; 519.1; 01-NOV-2007 00:26:09; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;29644
 6; 1138.9; 01-NOV-2007 00:36:29; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;29644
 7; 2274.5; 01-NOV-2007 00:55:24; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;29644
 8; 2514.8; 01-NOV-2007 00:59:25; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29644
 9; 2662.9; 01-NOV-2007 01:01:53; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;29644
 10; 2867.3; 01-NOV-2007 01:05:17; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29644
 11; 2939.0; 01-NOV-2007 01:06:29; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29644
 12; 3423.6; 01-NOV-2007 01:14:34; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29644
 13; 3912.7; 01-NOV-2007 01:22:43; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29644
 14; 4009.0; 01-NOV-2007 01:24:19; Bright; 56.0; 82; 48Bet UMa ; 2.37; 10600;occ; 112; 0;29644
 15; 4229.4; 01-NOV-2007 01:27:59; Bright; 56.0; 174; 52Psi UMa ; 3.00; 4400;occ; 112; 0;29644
 16; 4671.4; 01-NOV-2007 01:35:21; Bright; 39.0; 96; 68Del Leo ; 2.56; 9300;occ; 78; 0;29644

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 3; 213.0; 01-NOV-2007 02:01:39; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;29645
 4; 342.2; 01-NOV-2007 02:03:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29645
 5; 519.9; 01-NOV-2007 02:06:46; Dark ; 53.0; 2; Alp Car ;-0.74; 7000;occ; 106; 0;29645
 6; 1139.3; 01-NOV-2007 02:17:05; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;29645
 7; 2274.5; 01-NOV-2007 02:36:00; Bright; 38.0; 105; 6Bet Ari ; 2.64; 8900;occ; 76; 0;29645
 8; 2514.7; 01-NOV-2007 02:40:00; Bright; 35.5; 53; 43Bet And ; 2.05; 3300;occ; 71; 0;29645
 9; 2662.6; 01-NOV-2007 02:42:28; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;29645
 10; 2867.4; 01-NOV-2007 02:45:53; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29645
 11; 2938.9; 01-NOV-2007 02:47:05; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;29645
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 3;-1806.6; 01-NOV-2007 03:08:35; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;29645
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 5; -23.7; 01-NOV-2007 03:38:18; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;29645
 6; 132.7; 01-NOV-2007 03:40:54; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;29646
 7; 213.6; 01-NOV-2007 03:42:15; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;29646
 8; 343.1; 01-NOV-2007 03:44:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29646
 9; 520.8; 01-NOV-2007 03:47:22; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;29646
 10; 1139.7; 01-NOV-2007 03:57:41; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29646
 11; 2274.3; 01-NOV-2007 04:16:36; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;29646
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 13; 2662.4; 01-NOV-2007 04:23:04; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;29646
 14; 2867.5; 01-NOV-2007 04:26:29; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29646
 15; 2939.1; 01-NOV-2007 04:27:41; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29646
 16; 3423.8; 01-NOV-2007 04:35:45; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29646

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 2;-2026.9; 01-NOV-2007 04:45:31; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;29646
 3;-1806.6; 01-NOV-2007 04:49:11; Bright; 56.0; 174; 52Psi UMa ; 3.00; 4400;occ; 112; 0;29646
 4;-1364.1; 01-NOV-2007 04:56:34; Bright; 42.0; 96; 68Del Leo ; 2.56; 9300;occ; 84; 0;29646
 5; -22.9; 01-NOV-2007 05:18:55; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29646
 6; 133.2; 01-NOV-2007 05:21:31; Dark ; 45.0; 46; Del Vel ; 1.95; 10600;occ; 90; 0;29647
 7; 214.2; 01-NOV-2007 05:22:52; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;29647
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 10; 1140.0; 01-NOV-2007 05:38:18; Dark ; 38.0; 157; The1Eri ; 2.91; 9300;occ; 76; 0;29647
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 14; 2867.6; 01-NOV-2007 06:07:05; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29647
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 3; 2514.4; 01-NOV-2007 21:06:36; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29656

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4; 2659.6; 01-NOV-2007 21:09:01; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;29656
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6; 2938.7; 01-NOV-2007 21:13:40; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29656
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8; 3911.5; 01-NOV-2007 21:29:53; Bright; 39.5; 36; 50Alp UMA ; 1.80; 6300;occ; 79; 0;29656
9; 4008.4; 01-NOV-2007 21:31:29; Bright; 56.0; 82; 48Bet UMA ; 2.37; 10600;occ; 112; 0;29656
10; 4229.7; 01-NOV-2007 21:35:11; Bright; 57.0; 174; 52Psi UMA ; 3.00; 4400;occ; 114; 0;29656
11; 4674.8; 01-NOV-2007 21:42:36; Bright; 38.0; 96; 68Del Leo ; 2.56; 9300;occ; 76; 0;29656
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5; -22.0; 01-NOV-2007 06:59:32; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;29647
6; 134.0; 01-NOV-2007 07:02:08; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;29648
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2; 2514.7; 01-NOV-2007 07:41:48; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;29648
3; 2661.8; 01-NOV-2007 07:44:15; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;29648
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9; 4229.7; 01-NOV-2007 08:10:23; Bright; 56.0; 174; 52Psi UMA ; 3.00; 4400;occ; 112; 0;29648
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4; -1741.3; 23-NOV-2007 03:18:15; Bright; 32.5; 180; 27Gam Boo ; 3.04; 8000;occ; 65; 0;29960
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4; 2477.8; 29-NOV-2007 14:43:38; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;30053
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6; 2744.0; 29-NOV-2007 14:48:05; Bright; 35.5; 175; 39Del Per ; 3.01; 19400;occ; 71; 0;30053
7; 2820.3; 29-NOV-2007 14:49:21; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;30053
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9; 3700.7; 29-NOV-2007 15:04:01; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30053
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14; 4850.5; 29-NOV-2007 15:23:11; Bright; 39.0; 138; 47Eps Vir ; 2.83; 4700;occ; 78; 0;30053
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22; 6229.4; 29-NOV-2007 15:46:10; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30053
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9; 3700.6; 29-NOV-2007 16:44:37; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30054
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11; 4137.9; 29-NOV-2007 16:51:55; Bright; 35.5; 39; 85Eta UMa ; 1.85; 24000;occ; 71; 0;30054
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13; 4640.7; 29-NOV-2007 17:00:17; Bright; 34.0; 3; 16Alp Boo ; -0.05; 4250;occ; 68; 0;30054
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 19; 5613.3; 29-NOV-2007 17:16:30; Dark ; 38.0; 123; Iot Cen ; 2.75; 10200;occ; 76; 0;30054
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 7; 70.6; 29-NOV-2007 22:26:31; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;30058
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 27; 5198.5; 29-NOV-2007 23:51:59; Bright; 38.5; 15; 67Alp Vir ; 0.98; 28000;occ; 77; 0;30058

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 22; 4138.1; 30-NOV-2007 01:14:54; Bright; 35.0; 39; 85Eta UMa ; 1.85; 24000;occ; 70; 0;30059
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7; 201.9; 30-NOV-2007 23:37:41; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30073
8; 369.2; 30-NOV-2007 23:40:29; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30073
9; 481.0; 30-NOV-2007 23:42:20; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30073
10; 803.3; 30-NOV-2007 23:47:43; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;30073
11; 1658.7; 01-DEC-2007 00:01:58; Dark ; 44.5; 165; 34Gam Eri ; 2.95; 3200;occ; 89; 0;30073
12; 1980.2; 01-DEC-2007 00:07:20; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;30073
13; 2330.1; 01-DEC-2007 00:13:09; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;30073
14; 2472.6; 01-DEC-2007 00:15:32; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30073
15; 2605.9; 01-DEC-2007 00:17:45; Bright; 36.5; 79; 26Bet Per ; 2.31; 13100;occ; 73; 0;30073
16; 2739.7; 01-DEC-2007 00:19:59; Bright; 35.5; 175; 39Del Per ; 3.01; 19400;occ; 71; 0;30073
17; 2818.8; 01-DEC-2007 00:21:18; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;30073
18; 3421.8; 01-DEC-2007 00:31:21; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30073
19; 3701.5; 01-DEC-2007 00:36:01; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30073
20; 4015.4; 01-DEC-2007 00:41:15; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;30073
21; 4138.7; 01-DEC-2007 00:43:18; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;30073
22; 4312.4; 01-DEC-2007 00:46:12; Bright; 33.5; 180; 27Gam Boo ; 3.04; 8000;occ; 67; 0;30073
23; 4644.1; 01-DEC-2007 00:51:43; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30073
24; 4857.3; 01-DEC-2007 00:55:17; Bright; 40.0; 138; 47Eps Vir ; 2.83; 4700;occ; 80; 0;30073
25; 5204.5; 01-DEC-2007 01:01:04; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;30073

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