

GOMOS Daily Report 28-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	30NOV2007 06:03:05
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (28NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (29NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

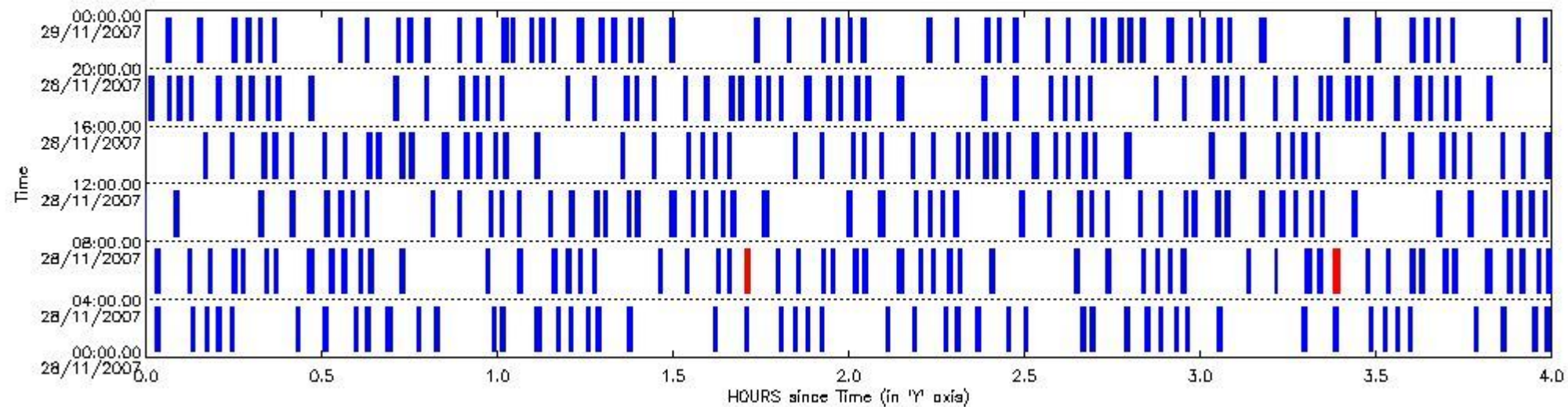
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

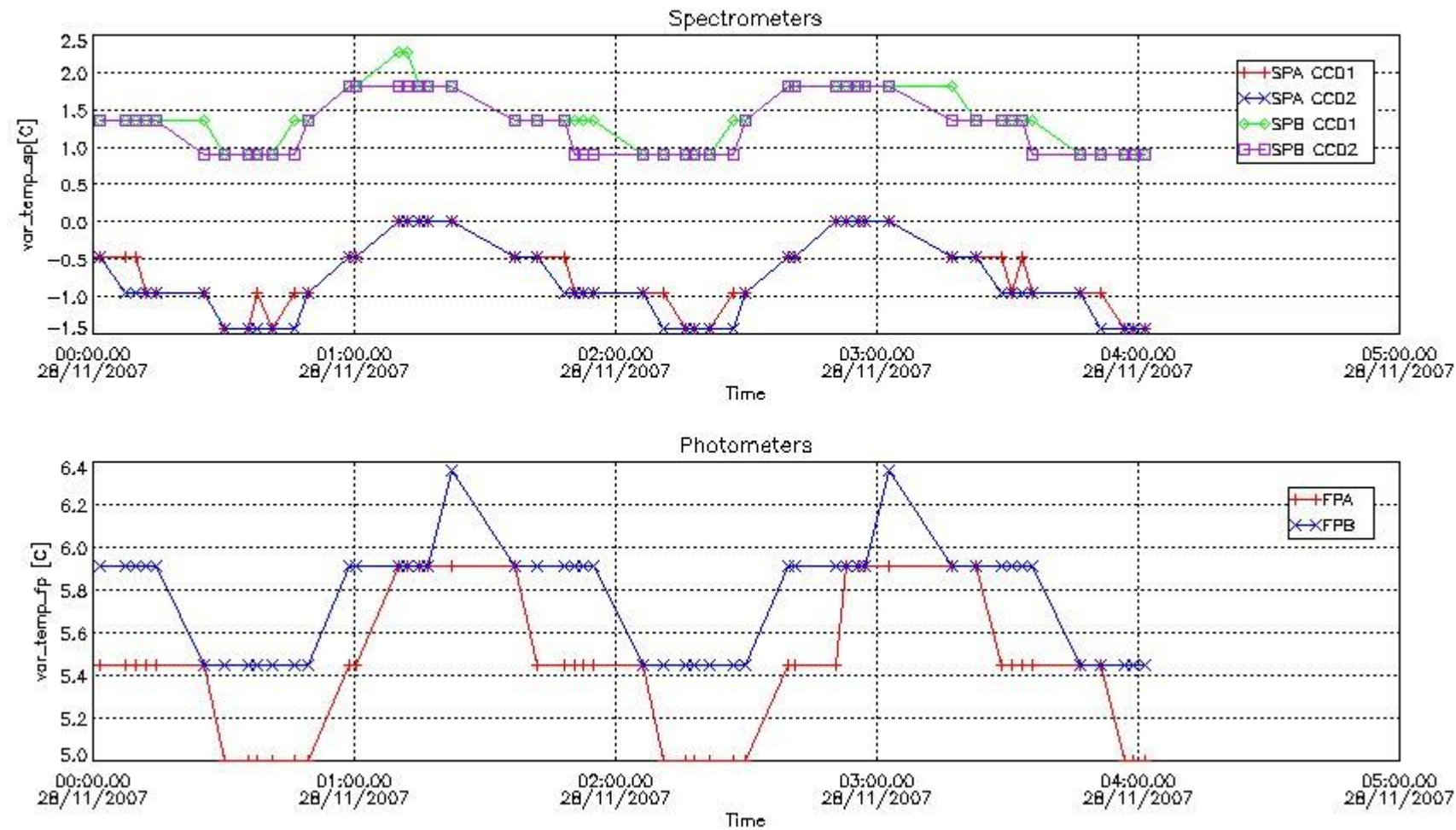
UTC start time	Star name	Star ID	Orbit
28-NOV-2007 05:42:09	27GamBoo	180	30033
28-NOV-2007 07:22:46	27GamBoo	180	30034

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_1PNPDE20071128_000131_000000482063_00417_30030_4836.N1	28-NOV-2007 00:01:31	Twilight_and_stray	47.500	94	92Alp Cet	2.5260	3100.0	95	30030	No
2	GOM_TRA_1PNPDE20071128_000733_000000392063_00417_30030_4837.N1	28-NOV-2007 00:07:33	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	30030	No
3	GOM_TRA_1PNPDE20071128_000959_000000302063_00417_30030_4838.N1	28-NOV-2007 00:09:59	Bright	30.000	150	44Zet Per	2.8900	28000.	60	30030	No
4	GOM_TRA_1PNPDE20071128_001204_000000362063_00417_30030_4839.N1	28-NOV-2007 00:12:04	Bright	36.000	79	26Bet Per	2.3100	13100.	72	30030	No
5	GOM_TRA_1PNPDE20071128_001424_000000362063_00417_30030_4840.N1	28-NOV-2007 00:14:24	Bright	36.000	175	39Del Per	3.0100	19400.	72	30030	No
6	GOM_TRA_1PNPDE20071128_002537_000000342063_00417_30030_4841.N1	28-NOV-2007 00:25:37	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	30030	No
7	GOM_TRA_1PNPDE20071128_003014_000000372063_00417_30030_4842.N1	28-NOV-2007 00:30:14	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30030	No
8	GOM_TRA_1PNPDE20071128_003533_000000382063_00417_30030_4843.N1	28-NOV-2007 00:35:33	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	30030	No
9	GOM_TRA_1PNPDE20071128_003731_000000362063_00417_30030_4844.N1	28-NOV-2007 00:37:31	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	30030	No

10	GOM_TRA_1PNPDE20071128_004059_000000572063_00417_30030_4845.N1	28-NOV-2007 00:40:59	Bright	57.000	152	12Alp2CVn	2.8900	11000.	114	30030	No
11	GOM_TRA_1PNPDE20071128_004619_000000342063_00417_30030_4846.N1	28-NOV-2007 00:46:19	Bright	33.500	111	8Eta Boo	2.6800	6000.0	67	30030	No
12	GOM_TRA_1PNPDE20071128_004917_000000362063_00417_30030_4847.N1	28-NOV-2007 00:49:17	Bright	36.000	138	47Eps Vir	2.8280	4700.0	72	30030	No
13	GOM_TRA_1PNPDE20071128_005857_000000442063_00417_30030_4971.N1	28-NOV-2007 00:58:57	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	30030	No
14	GOM_TRA_1PNPDE20071128_010032_000000472063_00417_30030_4972.N1	28-NOV-2007 01:00:32	Dark	46.500	171	2Eps Crv	3.0010	4250.0	93	30030	No
15	GOM_TRA_1PNPDE20071128_011001_000000422063_00418_30031_4973.N1	28-NOV-2007 01:10:01	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	30031	No
16	GOM_TRA_1PNPDE20071128_011214_000000382063_00418_30031_4974.N1	28-NOV-2007 01:12:14	Dark	38.000	124	The Car	2.7640	30000.	76	30031	No
17	GOM_TRA_1PNPDE20071128_011503_000000392063_00418_30031_4975.N1	28-NOV-2007 01:15:03	Dark	39.000	29	Bet Car	1.6720	10200.	78	30031	No
18	GOM_TRA_1PNPDE20071128_011645_000000432063_00418_30031_4976.N1	28-NOV-2007 01:16:45	Dark	43.000	41	Eps Car	1.8600	4100.0	86	30031	No
19	GOM_TRA_1PNPDE20071128_012211_000000492063_00418_30031_4977.N1	28-NOV-2007 01:22:11	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	30031	No
20	GOM_TRA_1PNPDE20071128_013645_000000432063_00418_30031_4978.N1	28-NOV-2007 01:36:45	Straylight	43.000	165	34Gam Eri	2.9500	3200.0	86	30031	No
21	GOM_TRA_1PNPDE20071128_014207_000000462063_00418_30031_4979.N1	28-NOV-2007 01:42:07	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	30031	No
22	GOM_TRA_1PNPDE20071128_014809_000000392063_00418_30031_4980.N1	28-NOV-2007 01:48:09	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	30031	No
23	GOM_TRA_1PNPDE20071128_015034_000000302063_00418_30031_4981.N1	28-NOV-2007 01:50:34	Bright	30.000	150	44Zet Per	2.8900	28000.	60	30031	No
24	GOM_TRA_1PNPDE20071128_015240_000000382063_00418_30031_4982.N1	28-NOV-2007 01:52:40	Bright	38.000	79	26Bet Per	2.3100	13100.	76	30031	No
25	GOM_TRA_1PNPDE20071128_015500_000000362063_00418_30031_4983.N1	28-NOV-2007 01:55:00	Bright	36.000	175	39Del Per	3.0100	19400.	72	30031	No
26	GOM_TRA_1PNPDE20071128_020612_000000362063_00418_30031_4984.N1	28-NOV-2007 02:06:12	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	30031	No
27	GOM_TRA_1PNPDE20071128_021050_000000382063_00418_30031_5149.N1	28-NOV-2007 02:10:50	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30031	No
28	GOM_TRA_1PNPDE20071128_021609_000000392063_00418_30031_5150.N1	28-NOV-2007 02:16:09	Bright	39.000	32	77Eps UMa	1.7630	11000.	78	30031	No
29	GOM_TRA_1PNPDE20071128_021807_000000532063_00418_30031_5151.N1	28-NOV-2007 02:18:07	Bright	53.000	39	85Eta UMa	1.8540	24000.	106	30031	No
30	GOM_TRA_1PNPDE20071128_022136_000000572063_00418_30031_5152.N1	28-NOV-2007 02:21:36	Bright	57.000	152	12Alp2CVn	2.8900	11000.	114	30031	No
31	GOM_TRA_1PNPDE20071128_022655_000000342063_00418_30031_5153.N1	28-NOV-2007 02:26:55	Bright	33.500	111	8Eta Boo	2.6800	6000.0	67	30031	No
32	GOM_TRA_1PNPDE20071128_022953_000000392063_00418_30031_5154.N1	28-NOV-2007 02:29:53	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	30031	No
33	GOM_TRA_1PNPDE20071128_023934_000000432063_00418_30031_5155.N1	28-NOV-2007 02:39:34	Twilight	43.000	100	4Gam Crv	2.5800	13100.	86	30031	No
34	GOM_TRA_1PNPDE20071128_024109_000000452063_00418_30031_5156.N1	28-NOV-2007 02:41:09	Dark	45.000	171	2Eps Crv	3.0010	4250.0	90	30031	No
35	GOM_TRA_1PNPDE20071128_025038_000000422063_00419_30032_5157.N1	28-NOV-2007 02:50:38	Dark	42.000	113	Mu Vel	2.6920	5000.0	84	30032	No
36	GOM_TRA_1PNPDE20071128_025250_000000372063_00419_30032_5158.N1	28-NOV-2007 02:52:50	Dark	37.000	124	The Car	2.7640	30000.	74	30032	No
37	GOM_TRA_1PNPDE20071128_025539_000000382063_00419_30032_5159.N1	28-NOV-2007 02:55:39	Dark	38.000	29	Bet Car	1.6720	10200.	76	30032	No
38	GOM_TRA_1PNPDE20071128_025722_000000462063_00419_30032_5160.N1	28-NOV-2007 02:57:22	Dark	45.500	41	Eps Car	1.8600	4100.0	91	30032	No
39	GOM_TRA_1PNPDE20071128_030248_000000552063_00419_30032_5161.N1	28-NOV-2007 03:02:48	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	30032	No
40	GOM_TRA_1PNPDE20071128_031721_000000432063_00419_30032_5162.N1	28-NOV-2007 03:17:21	Straylight	43.000	165	34Gam Eri	2.9500	3200.0	86	30032	No
41	GOM_TRA_1PNPDE20071128_032243_000000442063_00419_30032_5163.N1	28-NOV-2007 03:22:43	Twilight	43.500	94	92Alp Cet	2.5260	3100.0	87	30032	No
42	GOM_TRA_1PNPDE20071128_032844_000000392063_00419_30032_5164.N1	28-NOV-2007 03:28:44	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	30032	No
43	GOM_TRA_1PNPDE20071128_033110_000000392063_00419_30032_5165.N1	28-NOV-2007 03:31:10	Bright	39.000	150	44Zet Per	2.8900	28000.	78	30032	No
44	GOM_TRA_1PNPDE20071128_033316_000000372063_00419_30032_5166.N1	28-NOV-2007 03:33:16	Bright	37.000	79	26Bet Per	2.3100	13100.	74	30032	No
45	GOM_TRA_1PNPDE20071128_033535_000000372063_00419_30032_5167.N1	28-NOV-2007 03:35:35	Bright	36.500	175	39Del Per	3.0100	19400.	73	30032	No
46	GOM_TRA_1PNPDE20071128_034648_000000332063_00419_30032_5168.N1	28-NOV-2007 03:46:48	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30032	No
47	GOM_TRA_1PNPDE20071128_035126_000000362063_00419_30032_5296.N1	28-NOV-2007 03:51:26	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	30032	No
48	GOM_TRA_1PNPDE20071128_035645_000000462063_00419_30032_5297.N1	28-NOV-2007 03:56:45	Bright	46.000	32	77Eps UMa	1.7630	11000.	92	30032	No
49	GOM_TRA_1PNPDE20071128_035843_000000532063_00419_30032_5298.N1	28-NOV-2007 03:58:43	Bright	53.000	39	85Eta UMa	1.8540	24000.	106	30032	No
50	GOM_TRA_1PNPDE20071128_040133_000000492063_00419_30032_5299.N1	28-NOV-2007 04:01:33	Bright	48.500	180	27Gam Boo	3.0400	8000.0	97	30032	No

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



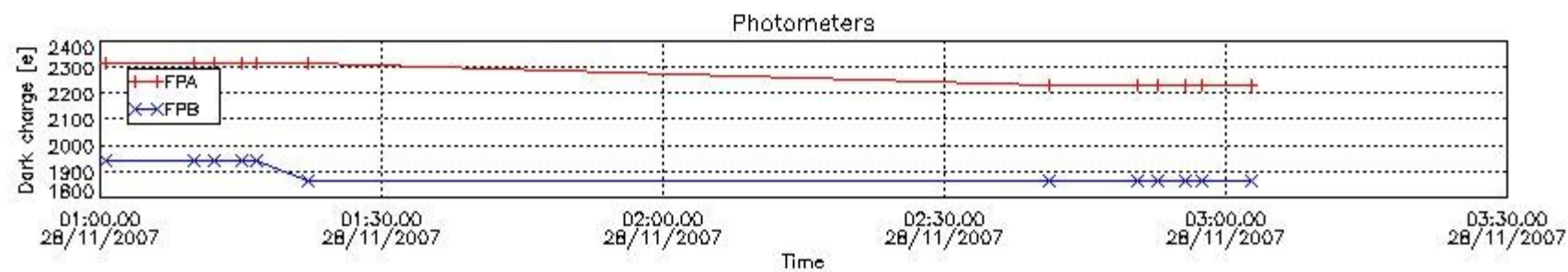
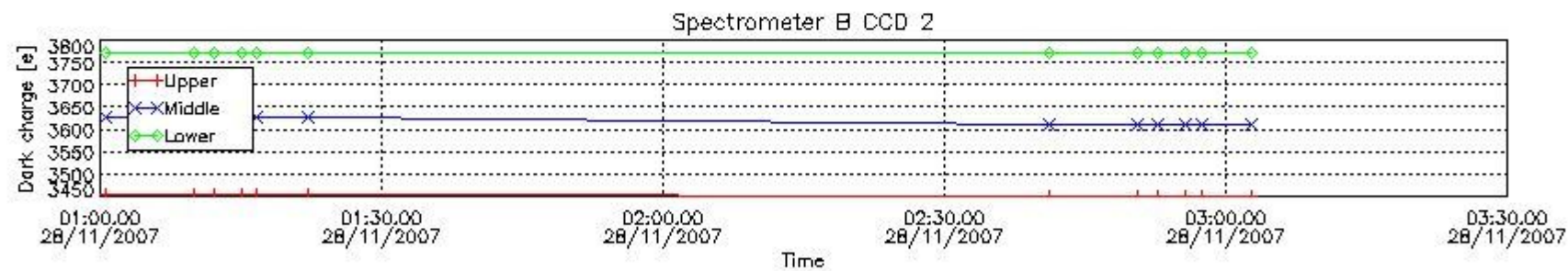
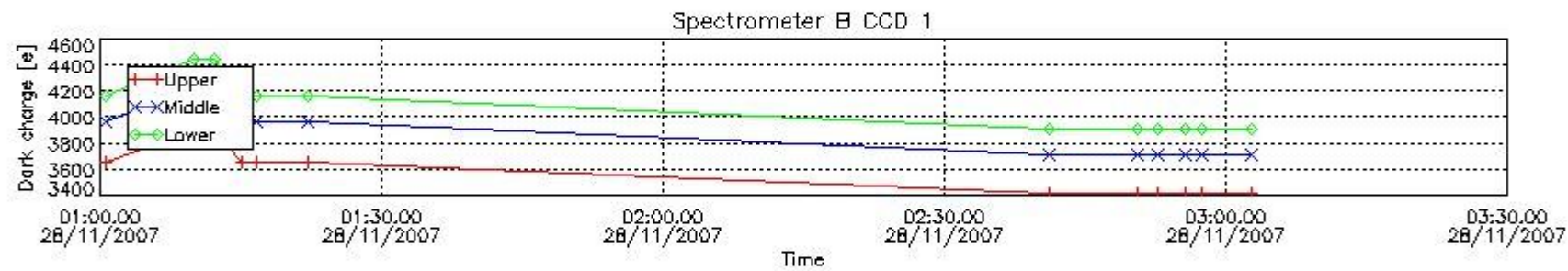
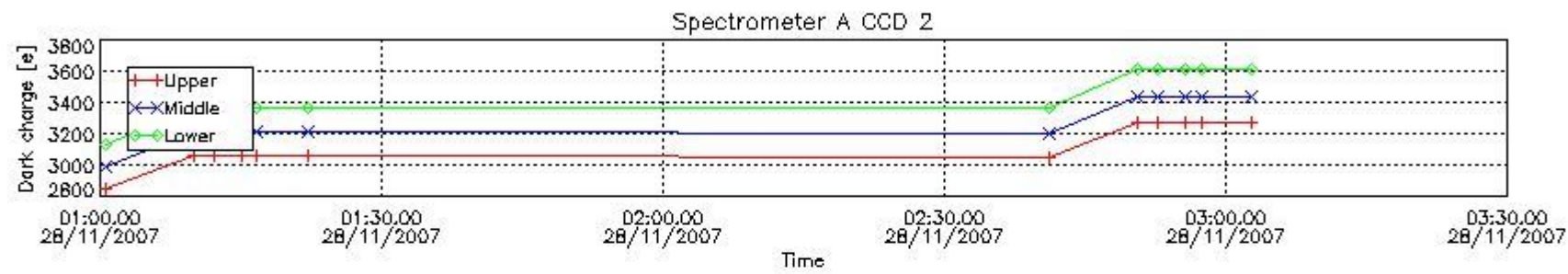
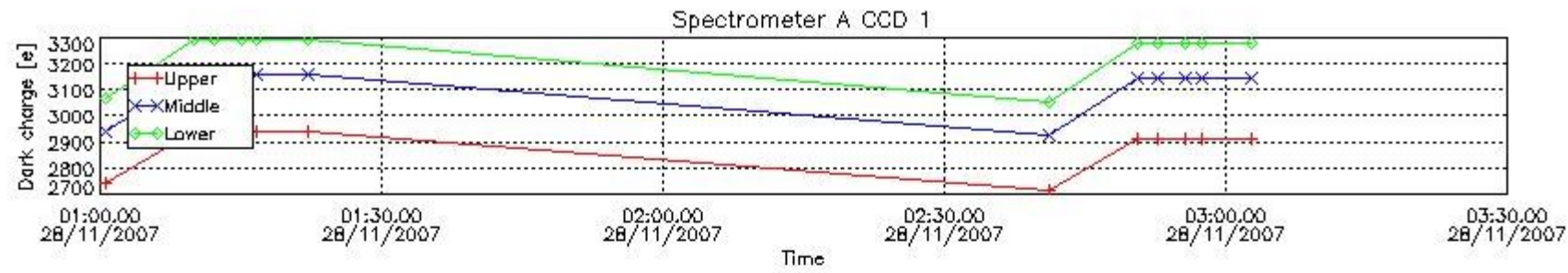
4. Overview of dark signal processing per product

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



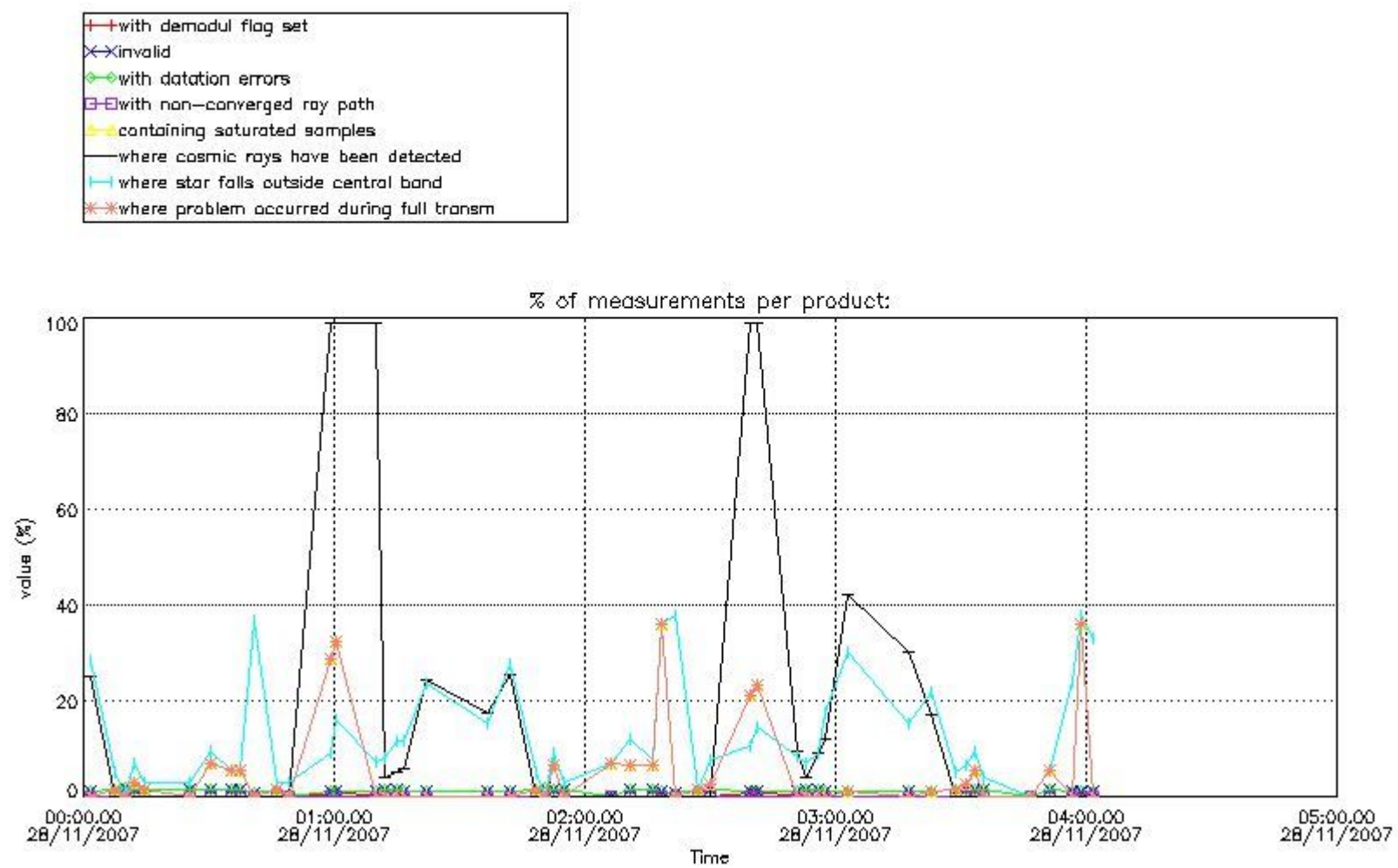
5. Demodulation flag and quality information monitoring

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.

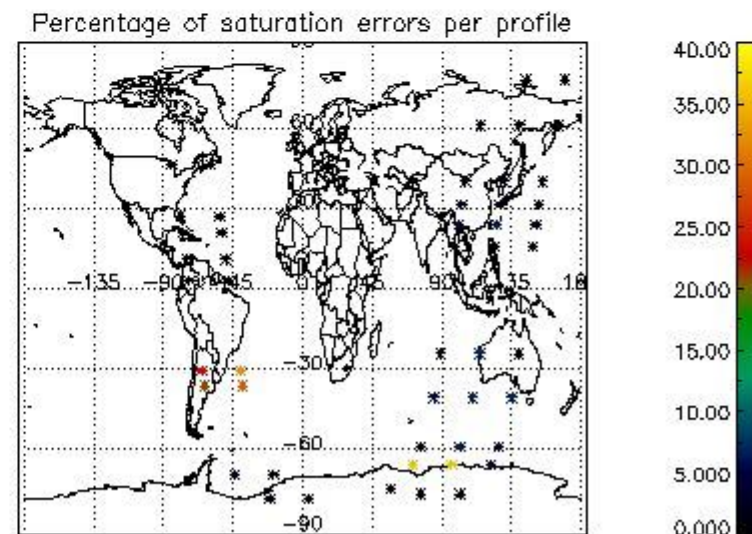
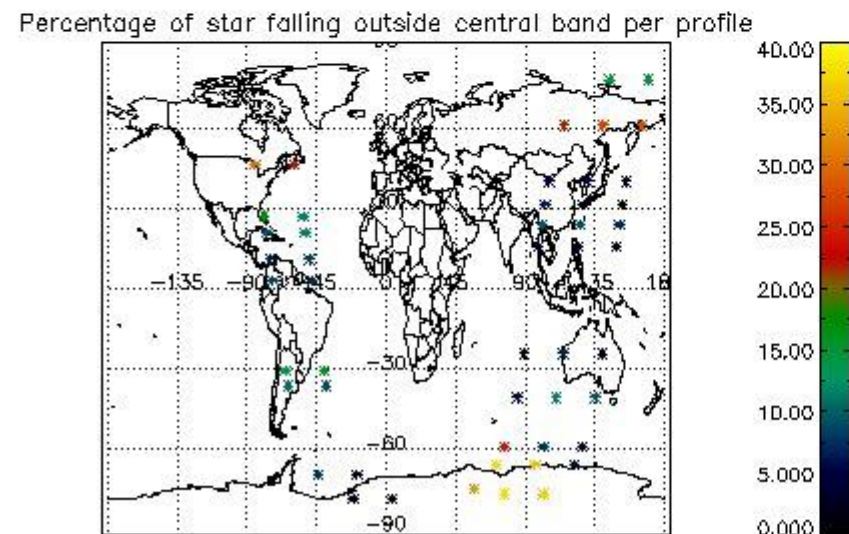
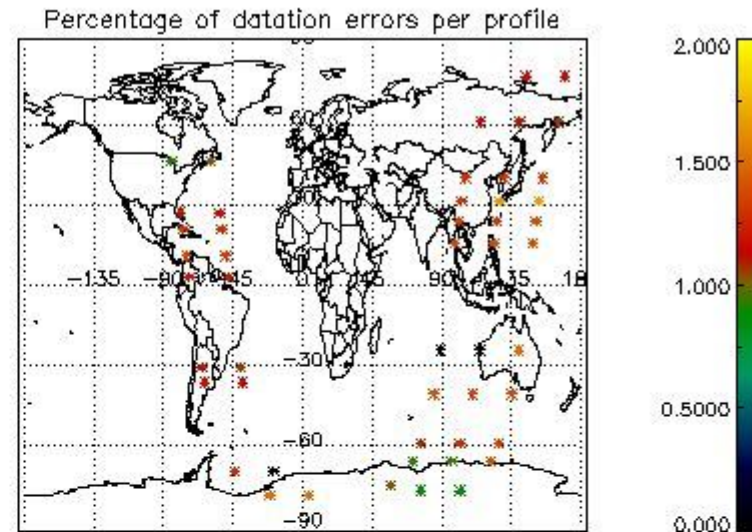
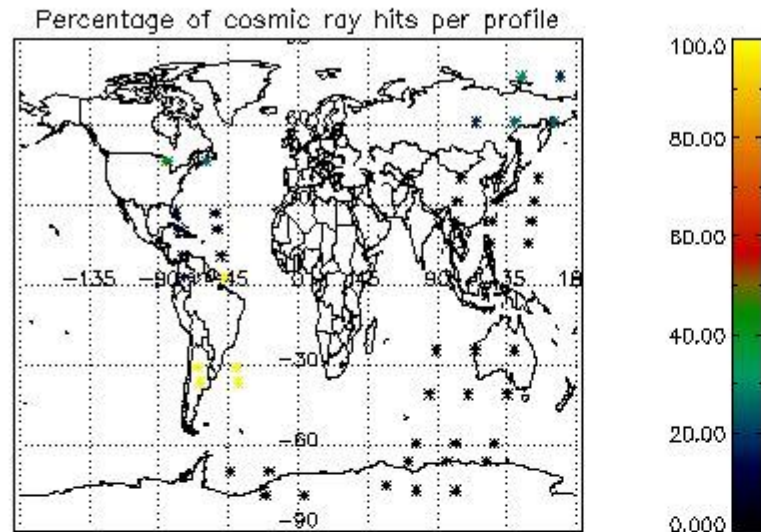
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



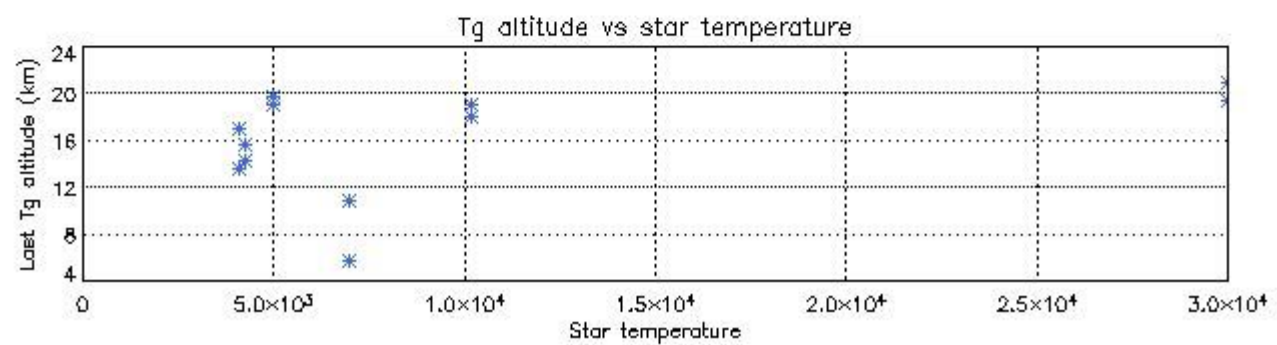
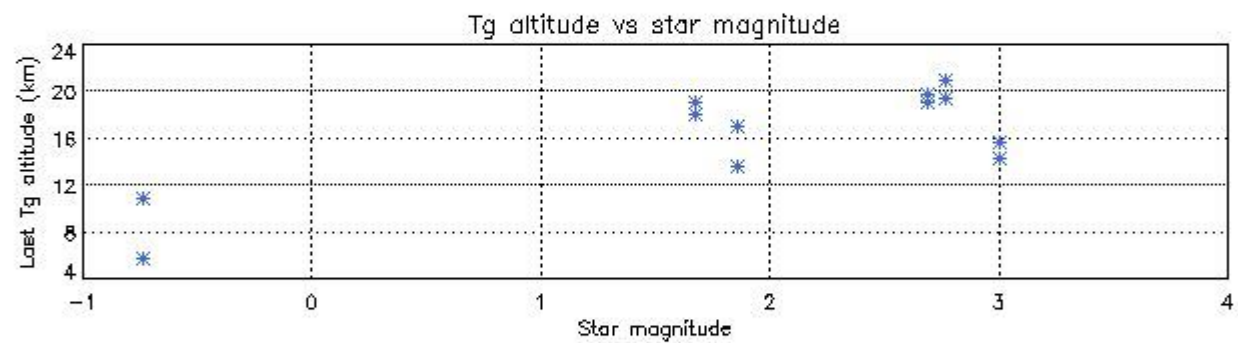
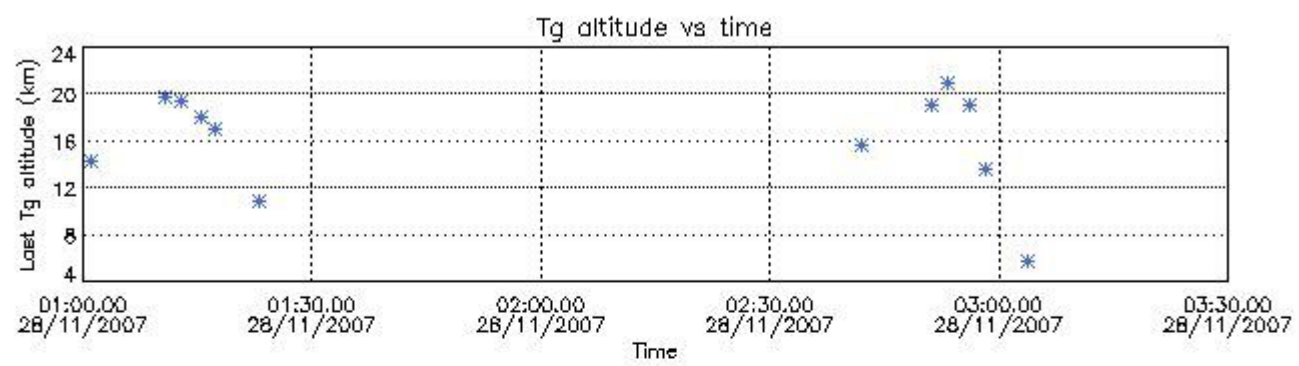
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.094	20.460	NaN
St. deviation:	4.4097	9.7136	NaN
Maximum:	20.890	44.761	NaN
Minimum:	5.7306	3.6400	NaN
Number of data:	12.000	31.000	NaN

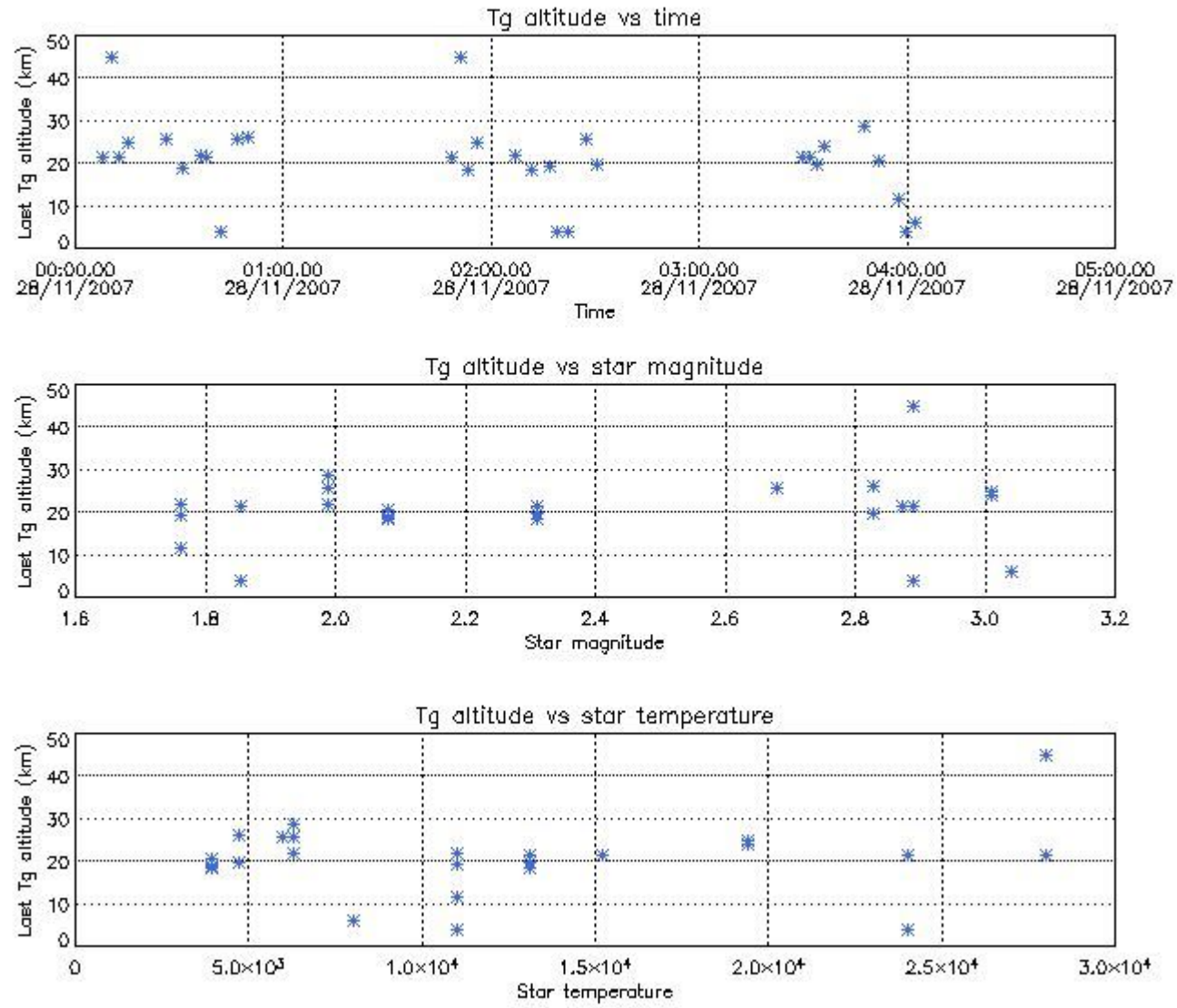
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

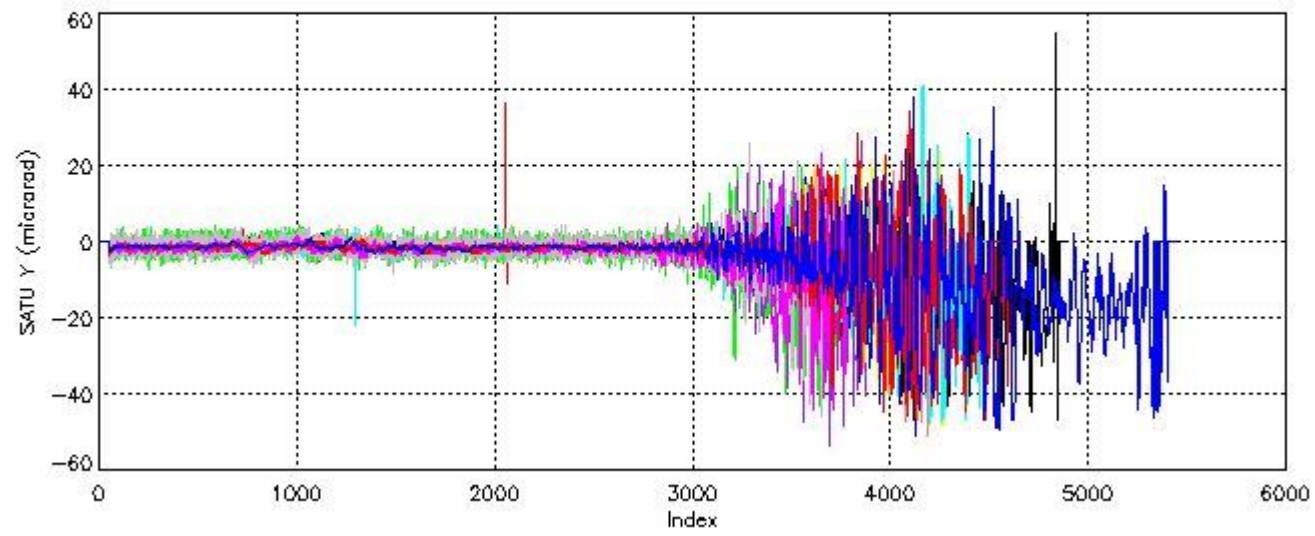
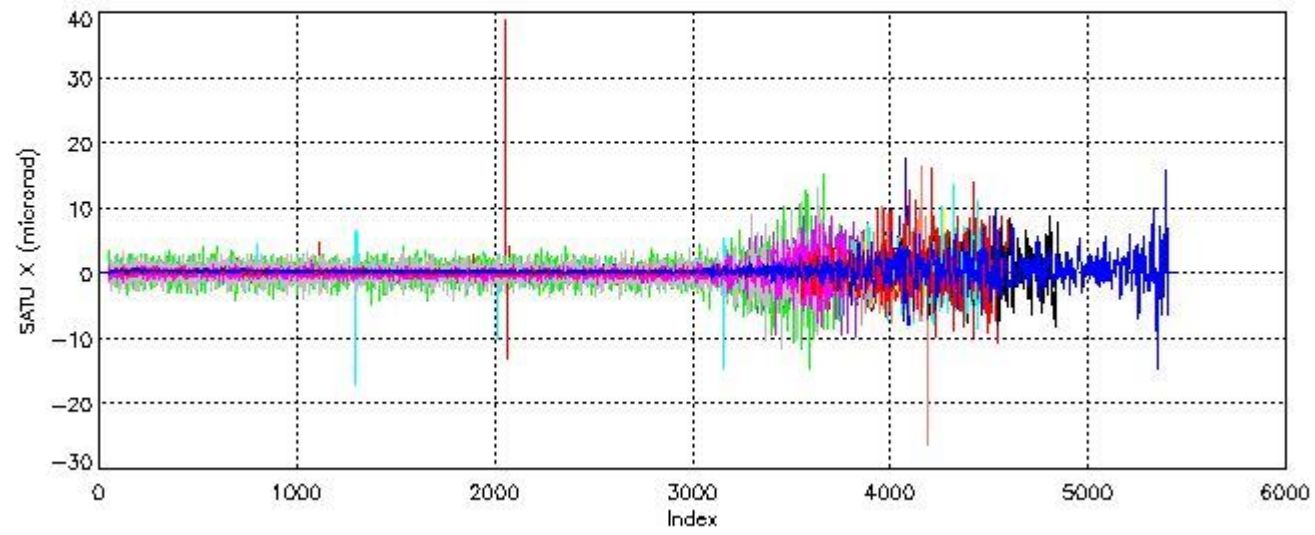


7. Star Acquisition and Tracking Unit (SATU)

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:	0.13171	-1.2333	0.14384	-1.1719
St. deviation:	0.51146	0.98064	1.0028	1.4586
Maximum:	4.5000	4.0000	7.9000	6.4000
Minimum:	-4.2000	-7.6000	-6.5000	-8.8000

Number of data:	11350.	11350.	26150.	26150.
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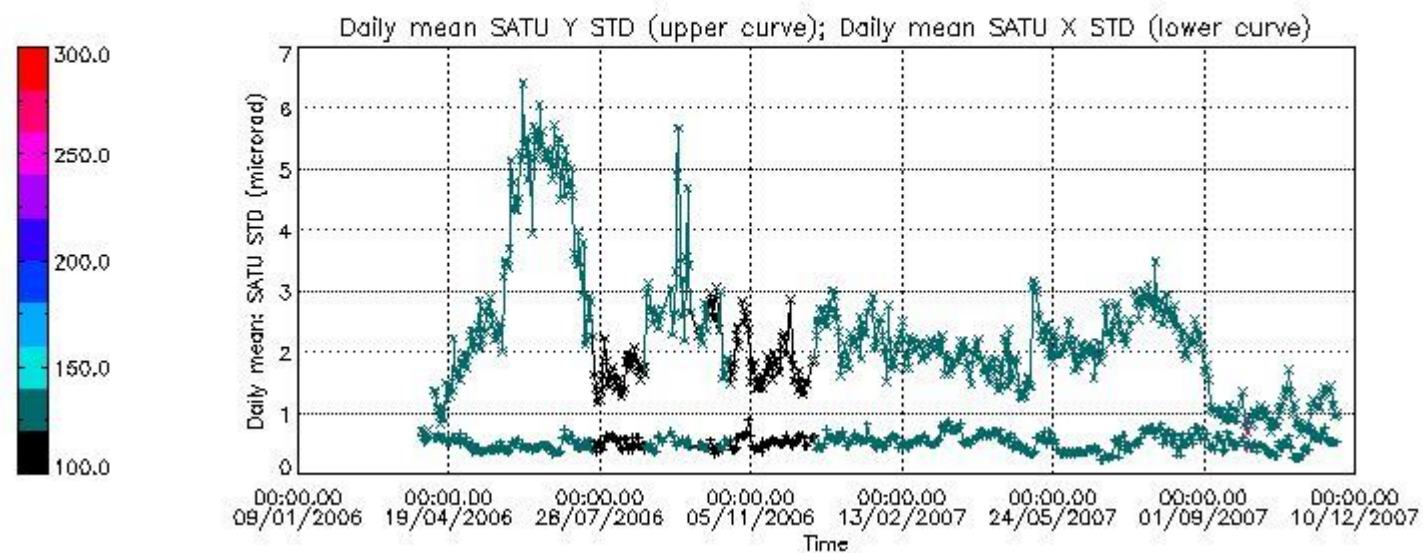
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

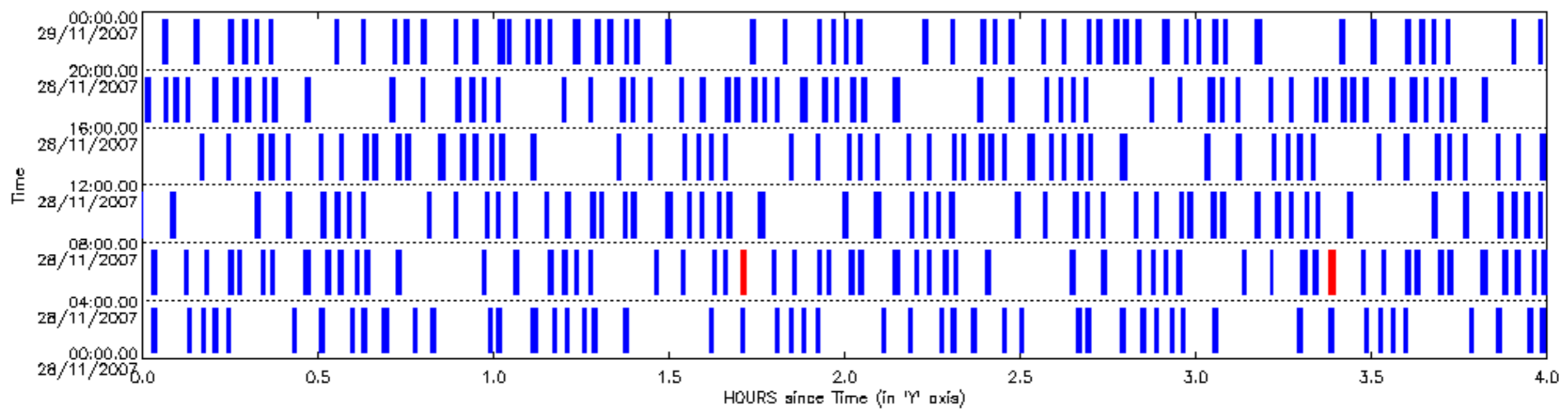
Lower curve: STD of SATU X axis

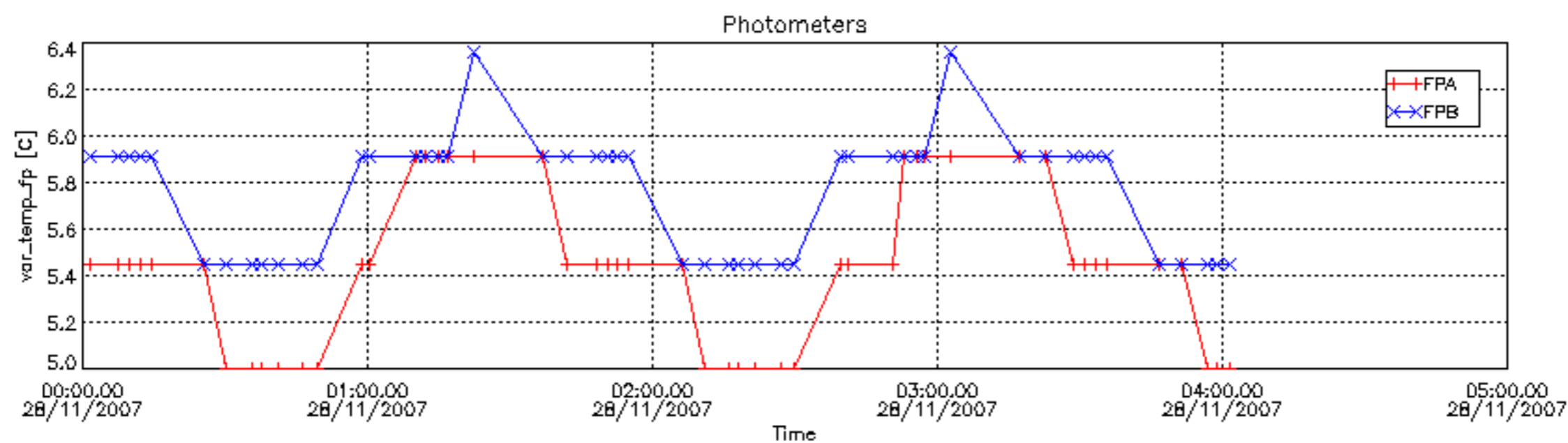
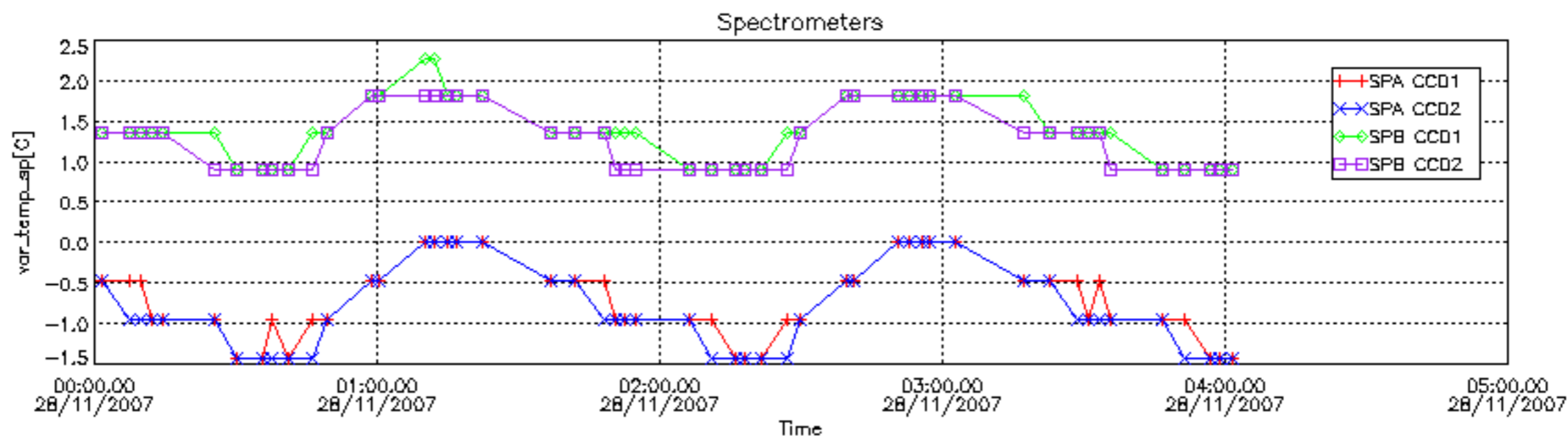


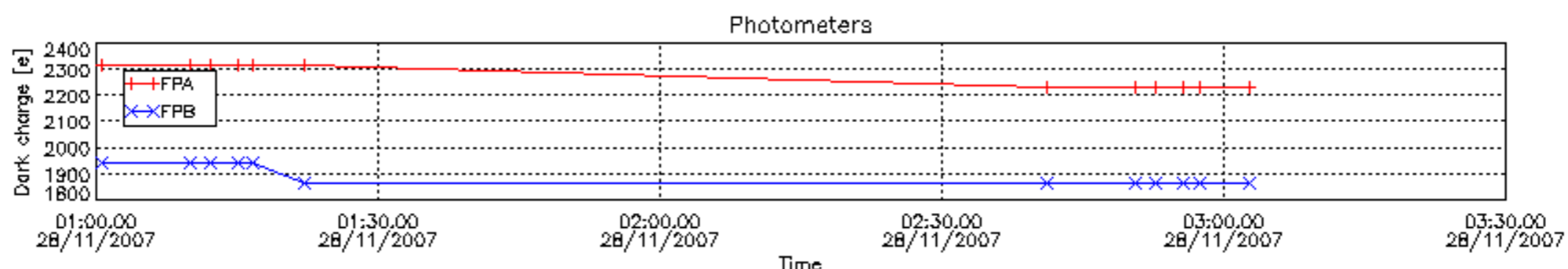
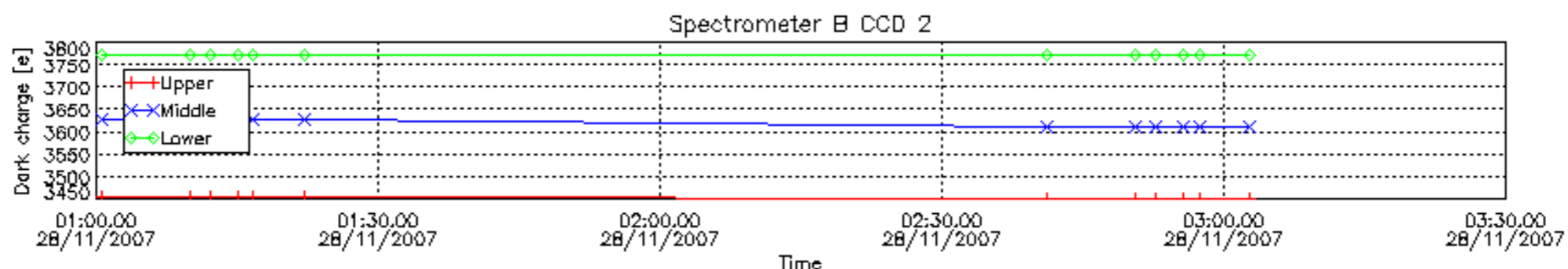
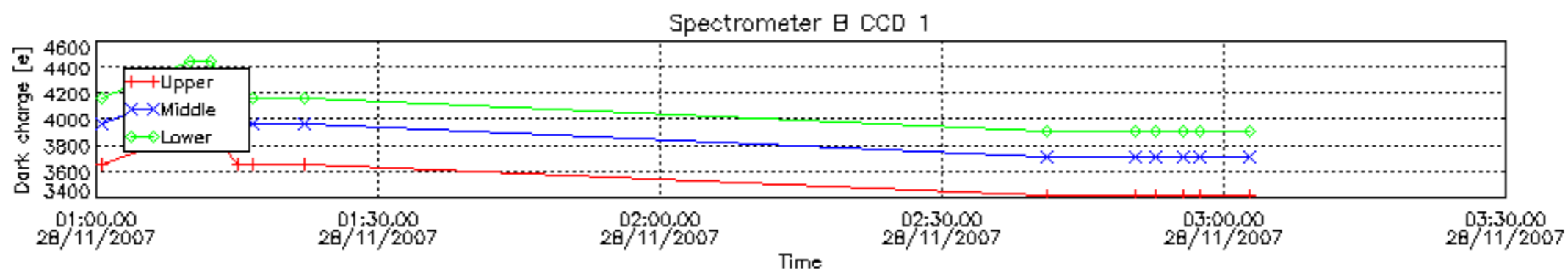
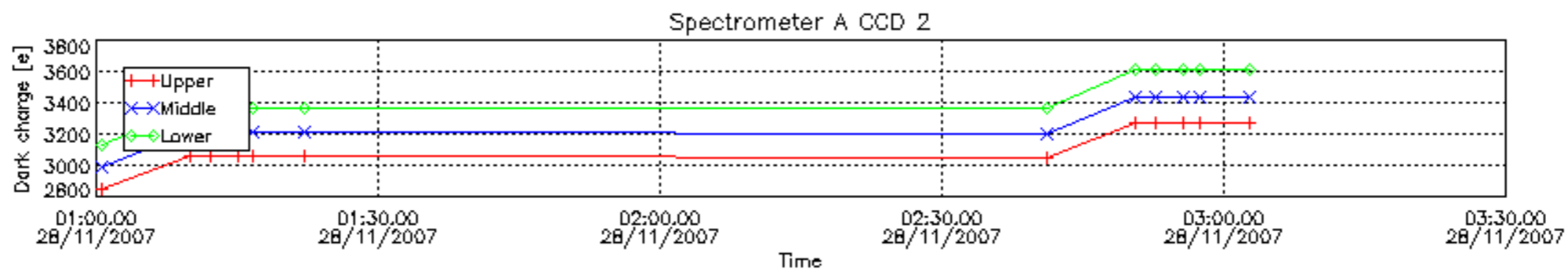
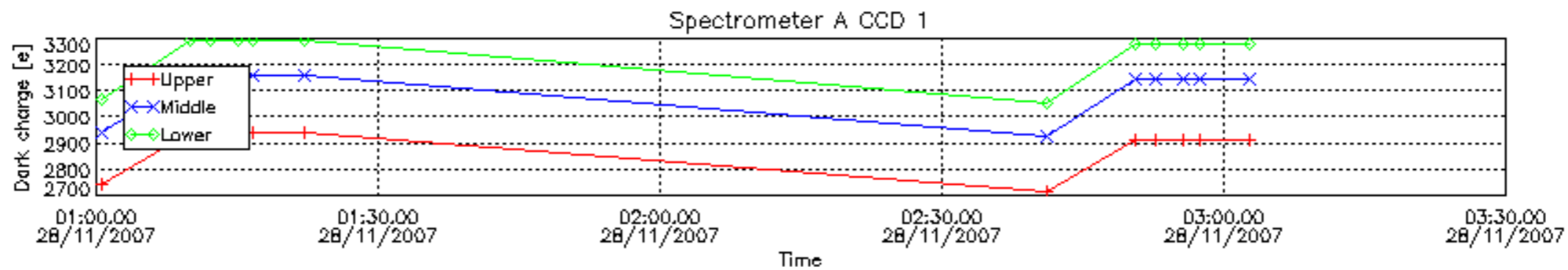
8. Auxiliary Data Files used for the production reported in section 2.4

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.

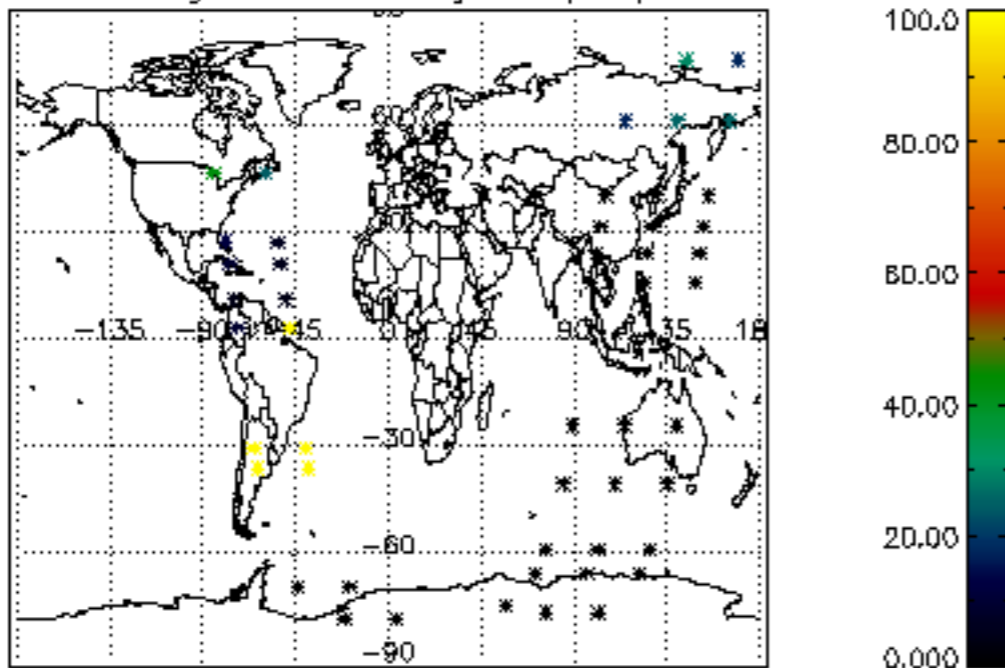
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	28-NOV-2007 00:01:31
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071123_091259_20071121_000000_20100101_000000	1	28-NOV-2007 00:01:31
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	28-NOV-2007 00:01:31
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-NOV-2007 00:01:31
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	28-NOV-2007 00:01:31
ECMWF_FILE	AUX_ECF_AXNECM20071127_063111_20071127_210000_20071128_090000	1	28-NOV-2007 00:01:31
ECMWF_FILE	AUX_ECF_AXNECM20071127_183111_20071128_030000_20071128_150000	47	28-NOV-2007 03:51:26
OPTIONAL_ECMWF_FILE	MISSING	1	28-NOV-2007 00:01:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071127_213429_000057382063_00415_30028_4646.N1	1	28-NOV-2007 00:01:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071127_231526_000057382063_00416_30029_4647.N1	13	28-NOV-2007 00:58:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071128_005623_000038262063_00417_30030_4648.N1	27	28-NOV-2007 02:10:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071128_020527_000057382063_00418_30031_4649.N1	47	28-NOV-2007 03:51:26



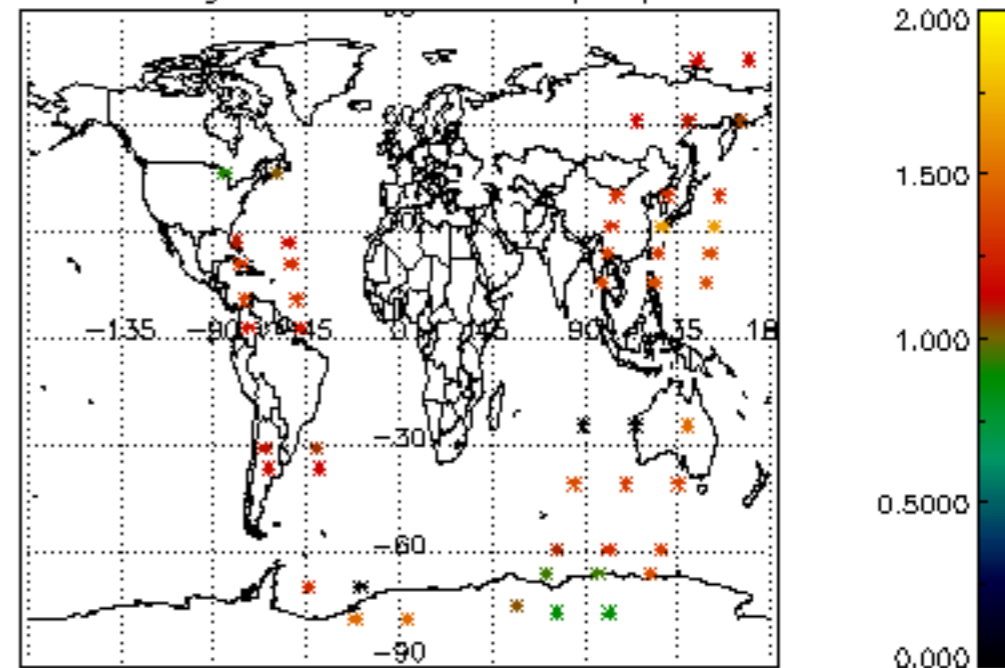




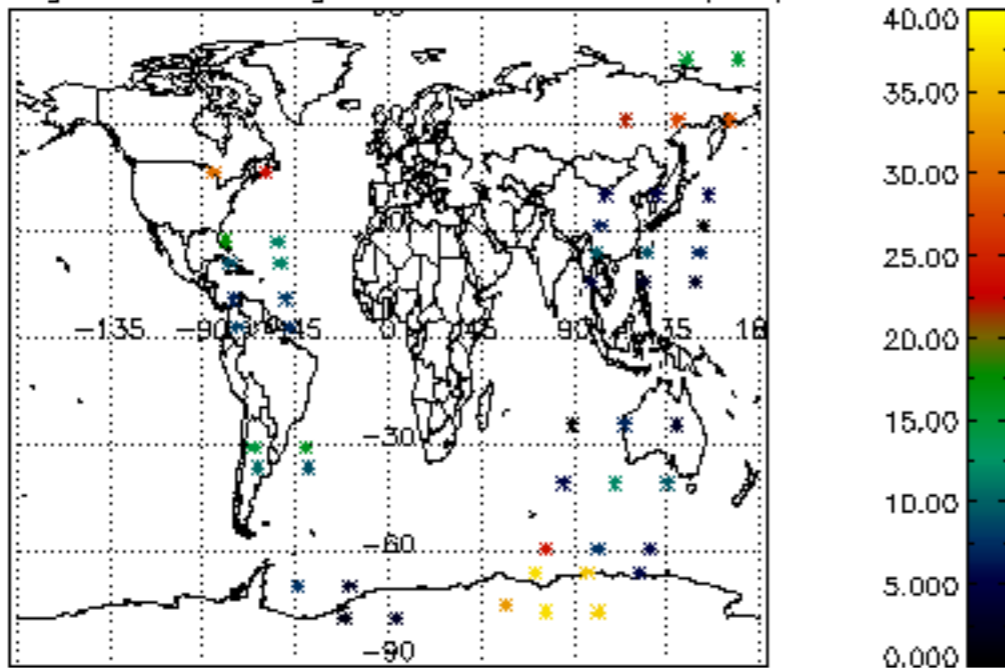
Percentage of cosmic ray hits per profile



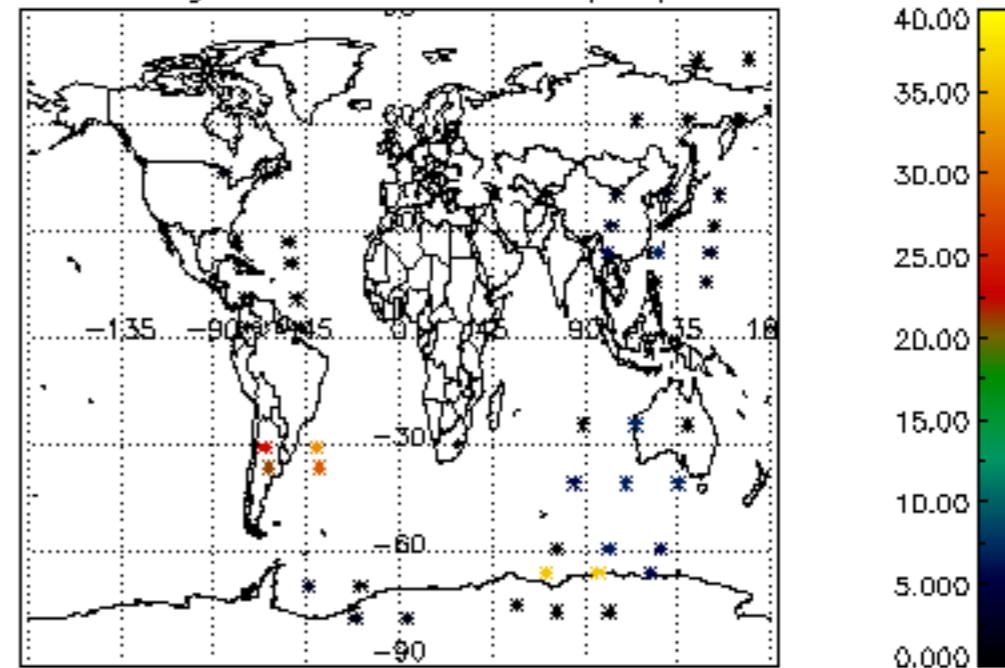
Percentage of datation errors per profile



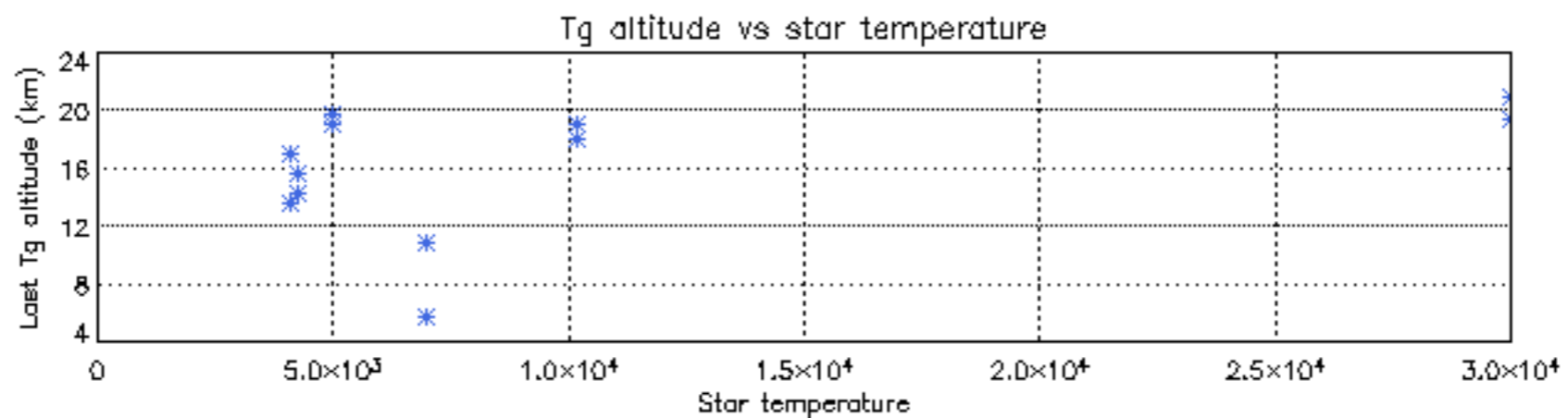
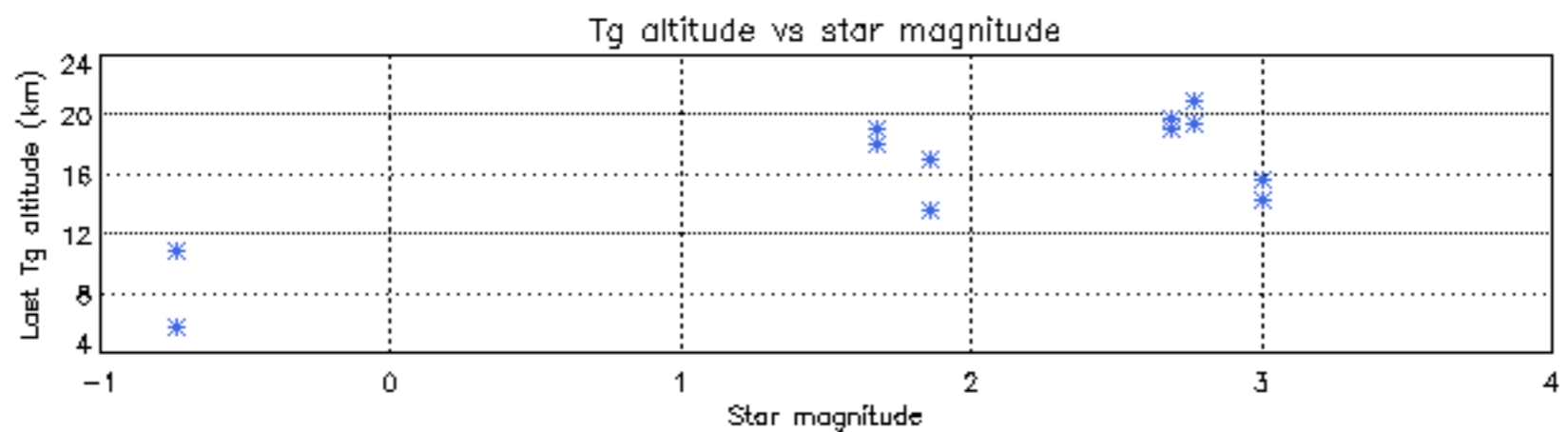
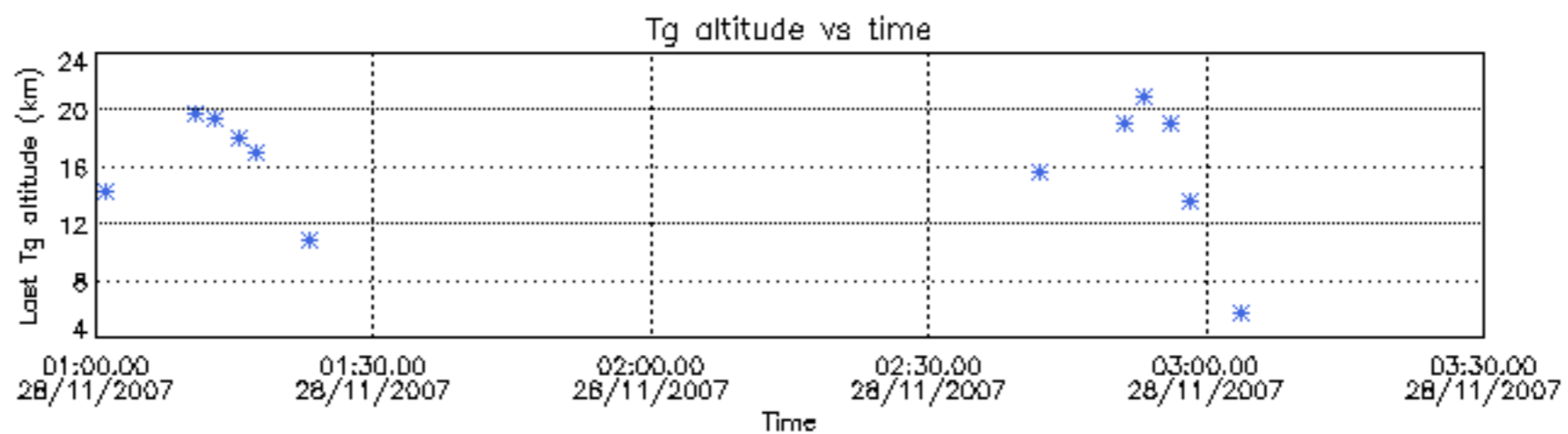
Percentage of star falling outside central band per profile



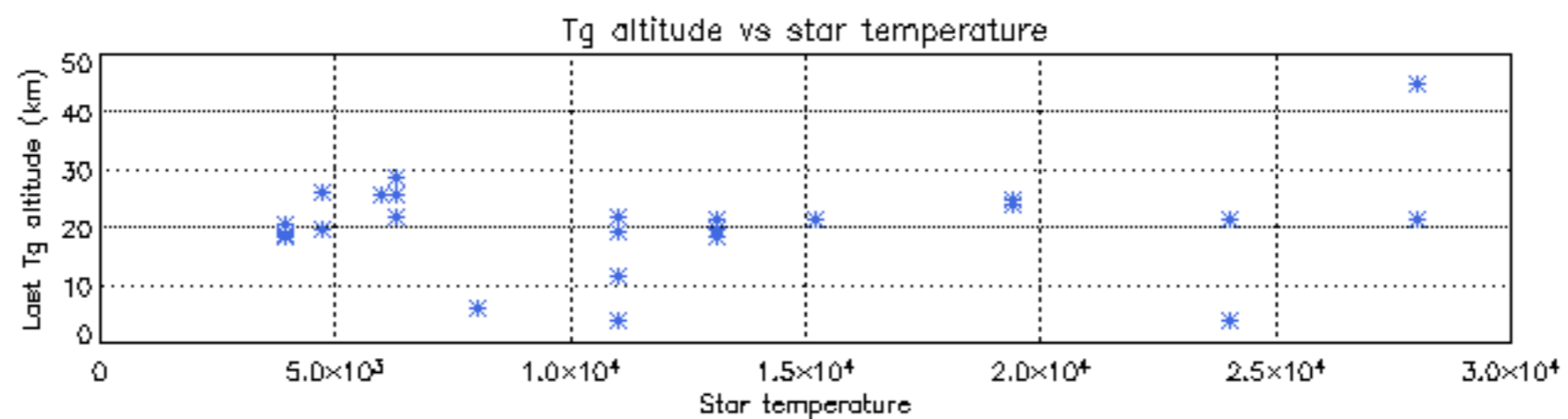
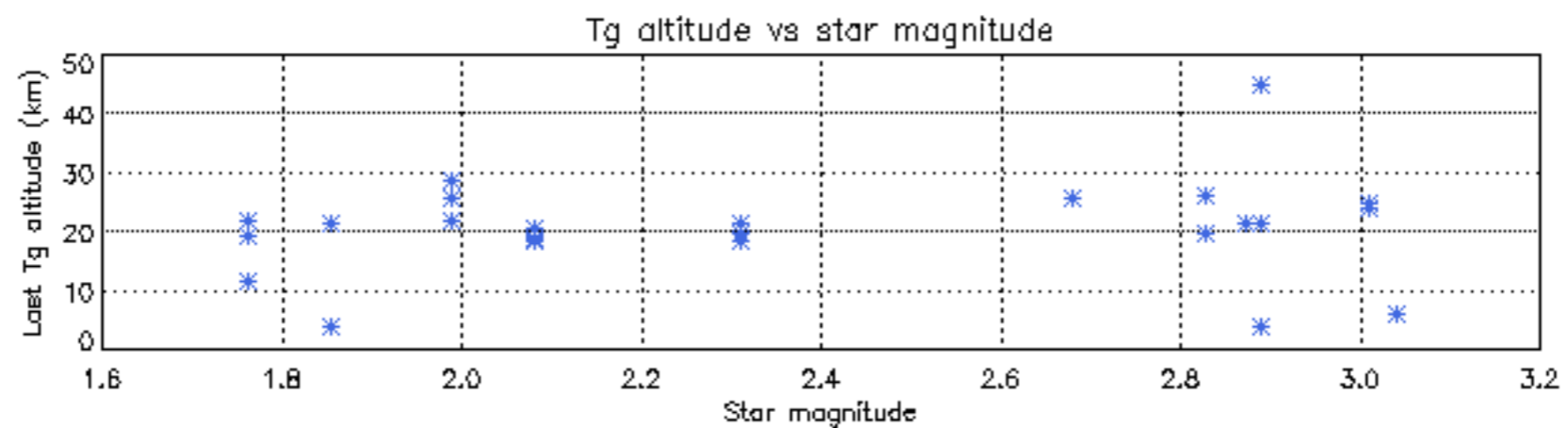
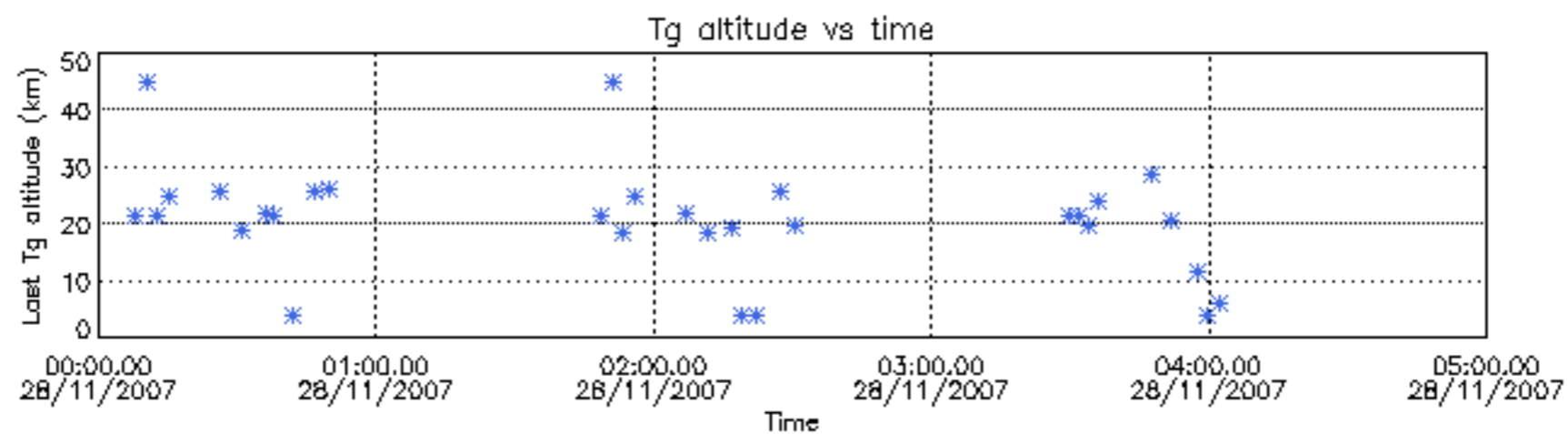
Percentage of saturation errors per profile

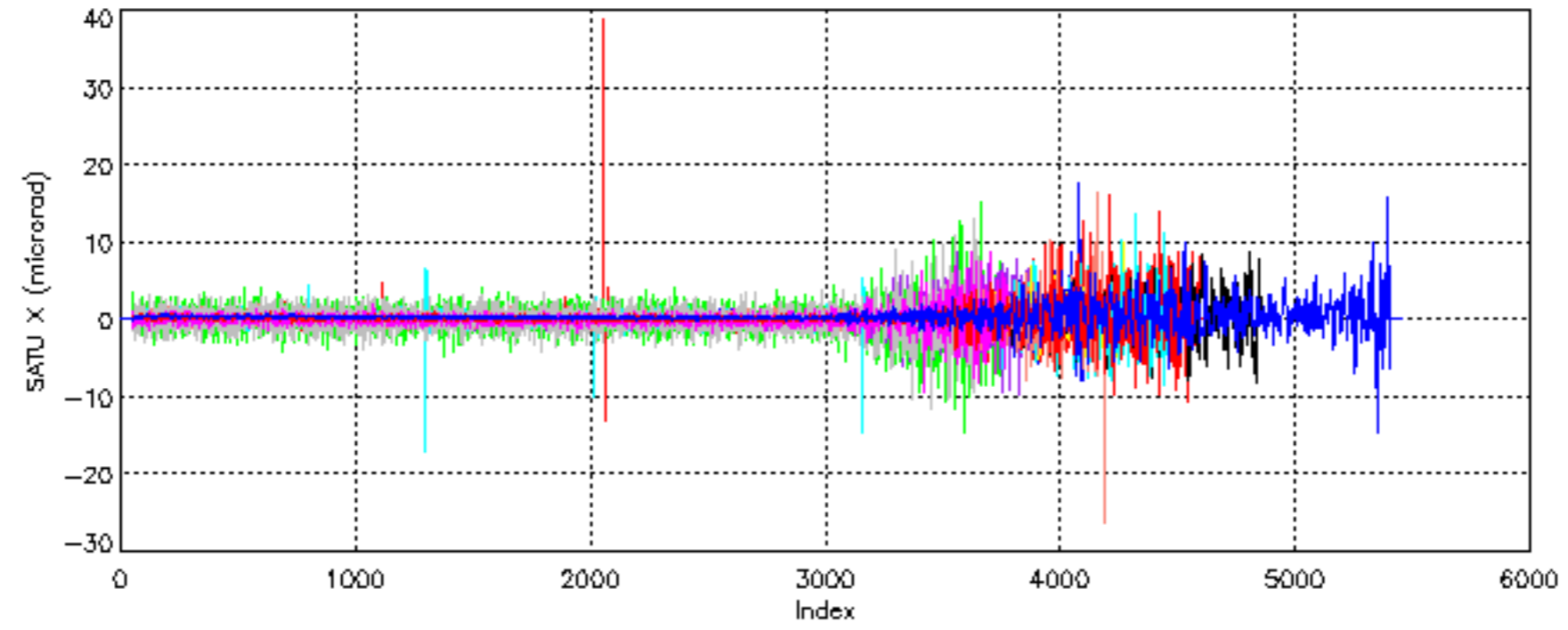


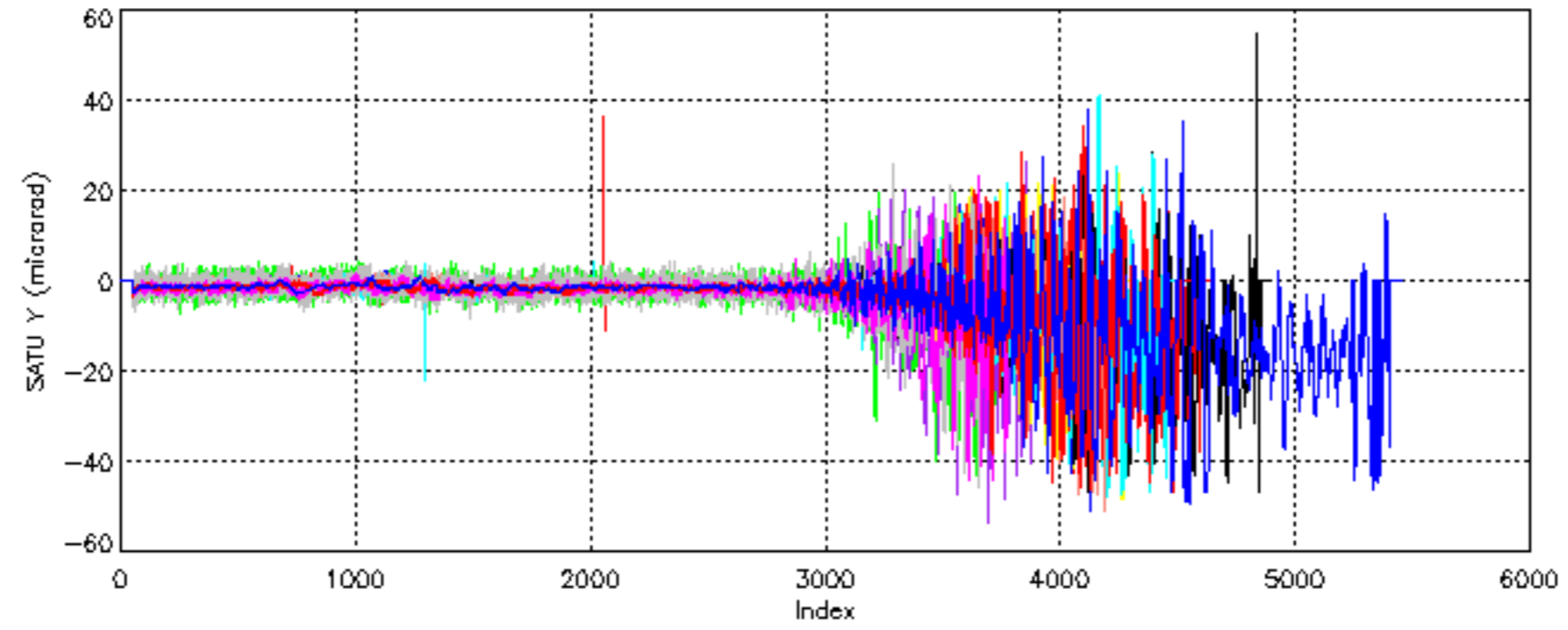
Tangent altitude at which the star is lost

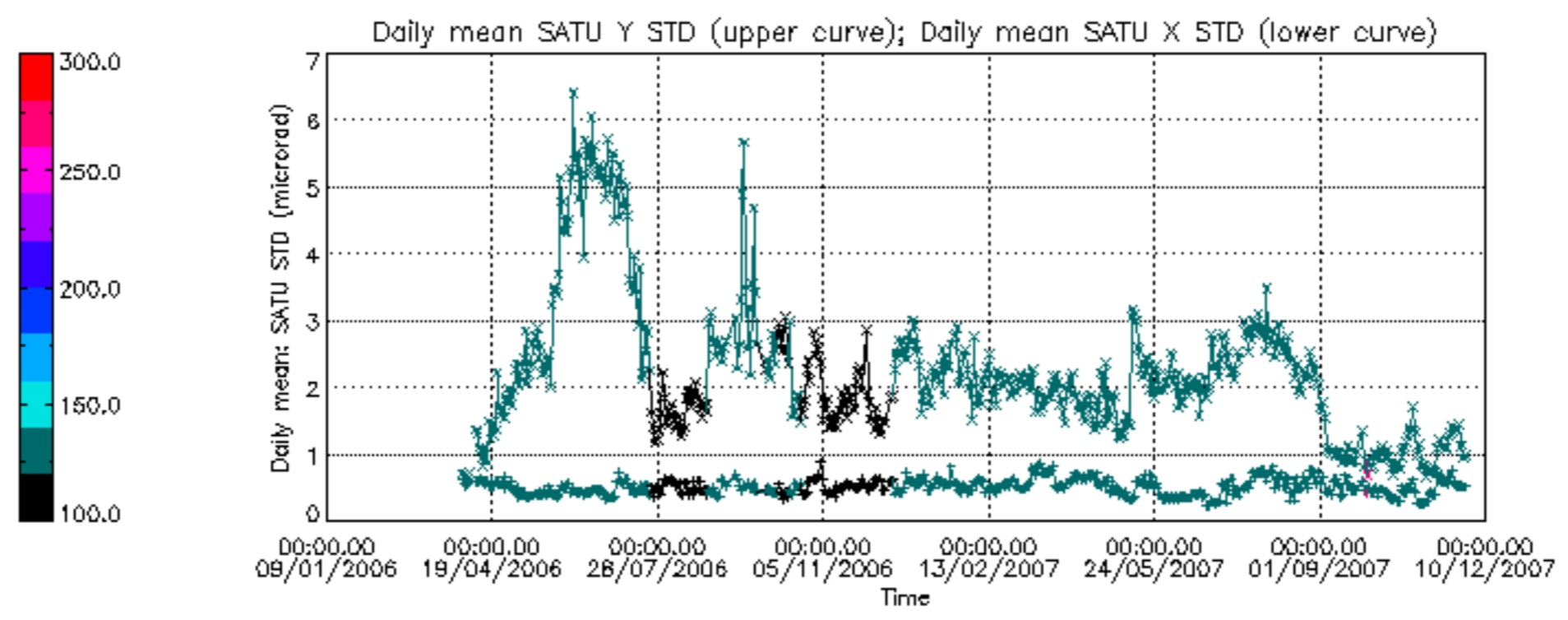


Tangent altitude at which the star is lost









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 3; 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
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 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
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 10; 1139.7; 01-NOV-2007 03:57:41; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29646
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 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
 8; 344.1; 01-NOV-2007 05:25:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29647
 9; 521.5; 01-NOV-2007 05:27:59; Dark ; 63.0; 2; Alp Car ;-0.74; 7000;occ; 126; 0;29647
 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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 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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6; 2938.7; 01-NOV-2007 21:13:40; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29656
7; 3423.7; 01-NOV-2007 21:21:45; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29656
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
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6; 134.0; 01-NOV-2007 07:02:08; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;29648
7; 214.8; 01-NOV-2007 07:03:28; Dark ; 40.5; 41; Eps Car ; 1.86; 4100;occ; 81; 0;29648
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9; 522.3; 01-NOV-2007 07:08:36; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;29648
10; 1140.5; 01-NOV-2007 07:18:54; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;29648
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3; 2661.8; 01-NOV-2007 07:44:15; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;29648
4; 2867.6; 01-NOV-2007 07:47:41; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29648
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13; 6251.3; 01-NOV-2007 08:44:05; Dark ; 53.0; 41; Eps Car ; 1.86; 4100;occ; 106; 0;29648
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6; 3423.7; 01-NOV-2007 09:37:33; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29649
7; 3912.3; 01-NOV-2007 09:45:42; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29649
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13; 6251.9; 01-NOV-2007 10:24:41; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0;29649
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4;	353.5;	01-NOV-2007	22:11:10;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	29657
5;	529.1;	01-NOV-2007	22:14:06;	Dark	;	61.0;	2;	Alp Car	;	-0.74;	7000;occ;	122;	0;	29657
6;	1143.4;	01-NOV-2007	22:24:20;	Dark	;	40.0;	157;	The1Eri	;	2.91;	9300;occ;	80;	0;	29657
7;	2272.5;	01-NOV-2007	22:43:10;	Bright;	;	38.0;	105;	6Bet Ari	;	2.64;	8900;occ;	76;	0;	29657
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11;	2938.7;	01-NOV-2007	22:54:16;	Bright;	;	35.0;	76;	27Gam Cas	;	2.30;	30000;occ;	70;	0;	29657
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14;	4008.1;	01-NOV-2007	23:12:05;	Bright;	;	37.0;	82;	48Bet UMa	;	2.37;	10600;occ;	74;	0;	29657
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3;	220.7;	01-NOV-2007	23:49:34;	Dark	;	44.5;	41;	Eps Car	;	1.86;	4100;occ;	89;	0;	29658
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7;	2272.3;	02-NOV-2007	00:23:45;	Bright;	;	38.0;	105;	6Bet Ari	;	2.64;	8900;occ;	76;	0;	29658
8;	2514.3;	02-NOV-2007	00:27:47;	Bright;	;	38.5;	53;	43Bet And	;	2.05;	3300;occ;	77;	0;	29658
9;	2658.9;	02-NOV-2007	00:30:12;	Bright;	;	39.5;	73;	57Gam1And	;	2.26;	13100;occ;	79;	0;	29658
10;	2867.8;	02-NOV-2007	00:33:41;	Bright;	;	33.5;	68;	18Alp Cas	;	2.22;	4500;occ;	67;	0;	29658
11;	2938.5;	02-NOV-2007	00:34:51;	Bright;	;	36.0;	76;	27Gam Cas	;	2.30;	30000;occ;	72;	0;	29658
12;	3423.5;	02-NOV-2007	00:42:56;	Bright;	;	35.0;	49;	1Alp UMi	;	1.99;	6300;occ;	70;	0;	29658
13;	3911.3;	02-NOV-2007	00:51:04;	Bright;	;	40.0;	36;	50Alp UMa	;	1.80;	6300;occ;	80;	0;	29658
14;	4008.0;	02-NOV-2007	00:52:41;	Bright;	;	37.5;	82;	48Bet UMa	;	2.37;	10600;occ;	75;	0;	29658
15;	4229.8;	02-NOV-2007	00:56:23;	Bright;	;	36.5;	174;	52Psi UMa	;	3.00;	4400;occ;	73;	0;	29658
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2;	141.3;	02-NOV-2007	01:28:50;	Dark	;	40.0;	46;	Del Vel	;	1.95;	10600;occ;	80;	0;	29659
3;	221.3;	02-NOV-2007	01:30:10;	Dark	;	41.5;	41;	Eps Car	;	1.86;	4100;occ;	83;	0;	29659
4;	355.4;	02-NOV-2007	01:32:24;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	29659
5;	530.6;	02-NOV-2007	01:35:19;	Dark	;	49.5;	2;	Alp Car	;	-0.74;	7000;occ;	99;	0;	29659
6;	1143.9;	02-NOV-2007	01:45:33;	Dark	;	40.0;	157;	The1Eri	;	2.91;	9300;occ;	80;	0;	29659
7;	2272.2;	02-NOV-2007	02:04:21;	Bright;	;	39.0;	105;	6Bet Ari	;	2.64;	8900;occ;	78;	0;	29659
8;	2514.3;	02-NOV-2007	02:08:23;	Bright;	;	37.0;	53;	43Bet And	;	2.05;	3300;occ;	74;	0;	29659
9;	2658.7;	02-NOV-2007	02:10:47;	Bright;	;	40.0;	73;	57Gam1And	;	2.26;	13100;occ;	80;	0;	29659
10;	2867.8;	02-NOV-2007	02:14:16;	Bright;	;	36.5;	68;	18Alp Cas	;	2.22;	4500;occ;	73;	0;	29659
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 4; 2482.5; 28-NOV-2007 08:32:57; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;30035
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 6; 2748.1; 28-NOV-2007 08:37:23; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;30035
 7; 3421.8; 28-NOV-2007 08:48:36; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30035
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 11; 4306.8; 28-NOV-2007 10:43:57; Bright; 33.0; 180; 27Gam Boo ; 3.04; 8000;occ; 66; 0;30036
 12; 4637.0; 28-NOV-2007 10:49:27; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30036
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9; 4017.9; 28-NOV-2007 12:19:44; Bright; 48.5; 32; 77Eps UMa ; 1.76; 11000;occ; 97; 0;30037
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17; 5522.5; 28-NOV-2007 12:44:49; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;30037
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23; 6820.4; 28-NOV-2007 13:06:27; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30037

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6; 2747.4; 28-NOV-2007 13:39:09; Bright; 42.5; 175; 39Del Per ; 3.01; 19400;occ; 85; 0;30038
7; 3421.9; 28-NOV-2007 13:50:24; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30038
8; 3699.7; 28-NOV-2007 13:55:02; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;30038
9; 4017.9; 28-NOV-2007 14:00:20; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;30038
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21; 6222.4; 28-NOV-2007 14:37:04; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30038
22; 6391.4; 28-NOV-2007 14:39:53; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;30038
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7; 3422.0; 28-NOV-2007 15:31:00; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30039
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22; 4138.6; 30-NOV-2007 23:02:42; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;30072
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