

GOMOS Daily Report 27-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	29NOV2007 08:58:30
Data source version	GOMOS/5.00
Start time of products	27-11-2007 (27NOV2007 00:00:00)
Stop time of products	28-11-2007 (28NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

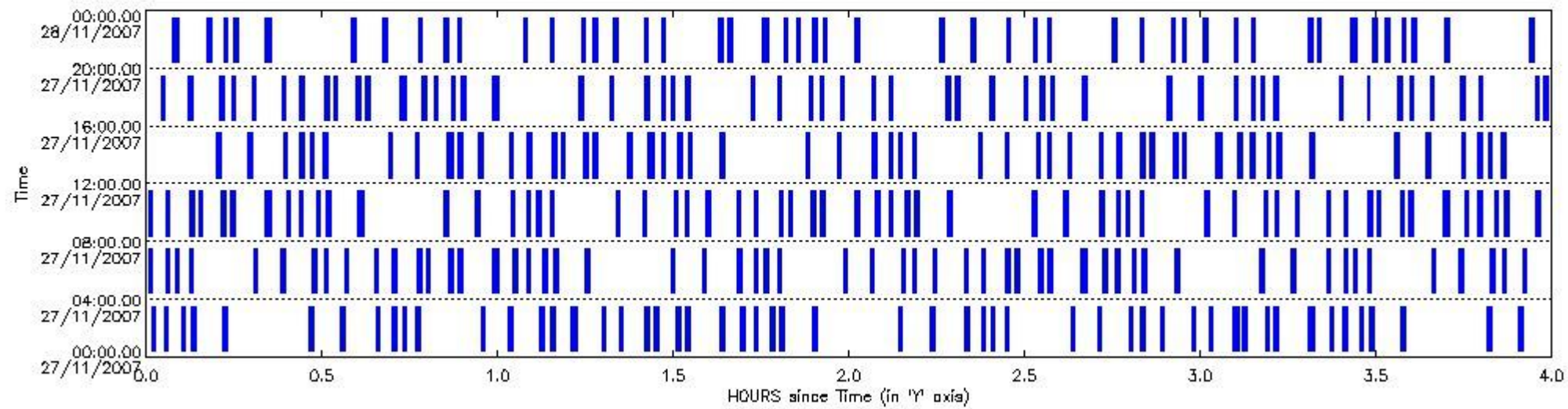
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



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

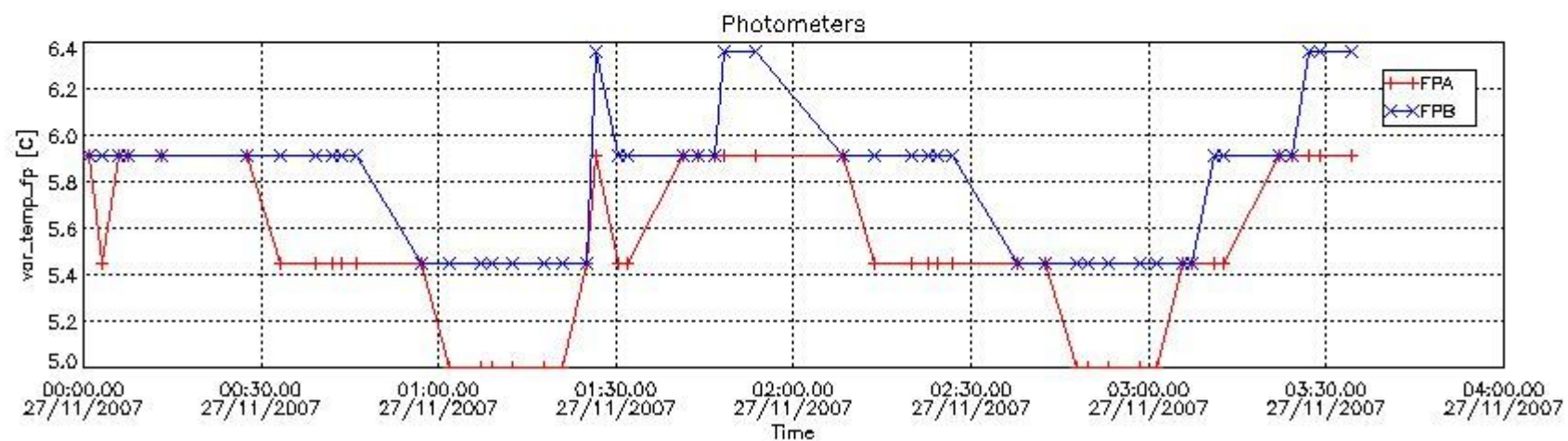
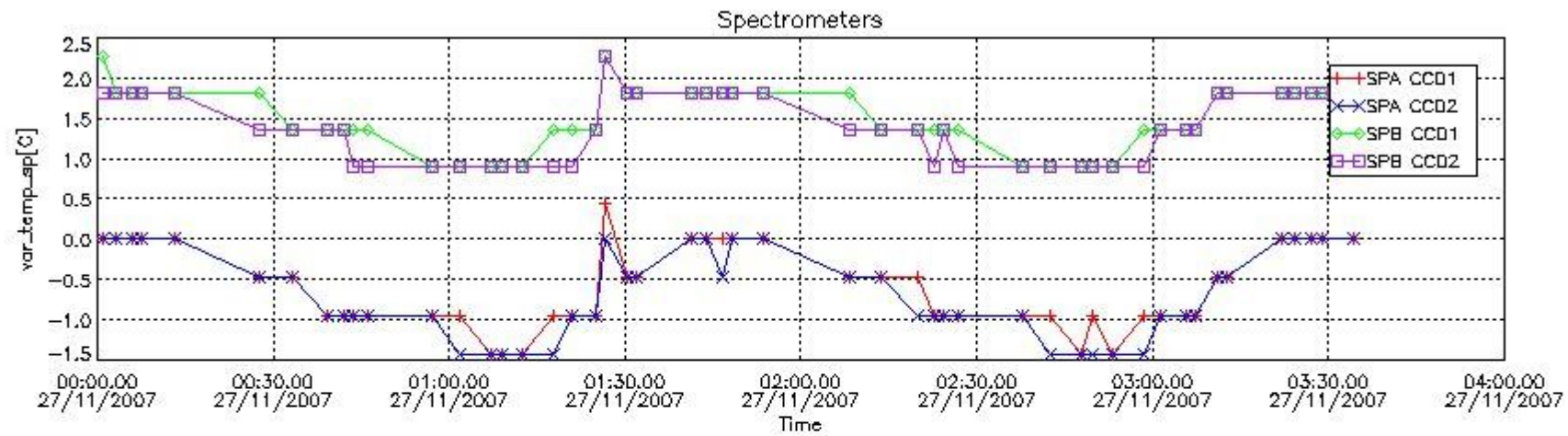
No missing products.

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_1PNPDE20071127_000051_000000402063_00403_30016_3680.N1	27-NOV-2007 00:00:51	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	30016	No
2	GOM_TRA_1PNPDE20071127_000308_000000382063_00403_30016_3681.N1	27-NOV-2007 00:03:08	Dark	37.500	124	The Car	2.7640	30000.	75	30016	No
3	GOM_TRA_1PNPDE20071127_000558_000000382063_00403_30016_3682.N1	27-NOV-2007 00:05:58	Dark	37.500	29	Bet Car	1.6720	10200.	75	30016	No
4	GOM_TRA_1PNPDE20071127_000737_000000482063_00403_30016_3683.N1	27-NOV-2007 00:07:37	Dark	48.000	41	Eps Car	1.8600	4100.0	96	30016	No
5	GOM_TRA_1PNPDE20071127_001304_000000512063_00403_30016_3684.N1	27-NOV-2007 00:13:04	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	30016	No
6	GOM_TRA_1PNPDE20071127_002745_000000452063_00403_30016_3685.N1	27-NOV-2007 00:27:45	Straylight	44.500	165	34Gam Eri	2.9500	3200.0	89	30016	No
7	GOM_TRA_1PNPDE20071127_003308_000000452063_00403_30016_3686.N1	27-NOV-2007 00:33:08	Twilight_stray	45.000	94	92Alp Cet	2.5260	3100.0	90	30016	No
8	GOM_TRA_1PNPDE20071127_003913_000000392063_00403_30016_3687.N1	27-NOV-2007 00:39:13	Bright	39.000	146	25Eta Tau	2.8730	15200.	78	30016	No
9	GOM_TRA_1PNPDE20071127_004202_000000352063_00403_30016_3688.N1	27-NOV-2007 00:42:02	Bright	35.000	173	4Bet Tri	3.0040	8900.0	70	30016	No
10	GOM_TRA_1PNPDE20071127_004343_000000372063_00403_30016_3689.N1	27-NOV-2007 00:43:43	Bright	37.000	79	26Bet Per	2.3100	13100.	74	30016	No
11	GOM_TRA_1PNPDE20071127_004605_000000372063_00403_30016_3690.N1	27-NOV-2007 00:46:05	Bright	36.500	175	39Del Per	3.0100	19400.	73	30016	No
12	GOM_TRA_1PNPDE20071127_005714_000000362063_00403_30016_3691.N1	27-NOV-2007 00:57:14	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30016	No

13	GOM_TRA_1PNPDE20071127_010150_000000372063_00403_30016_3692.N1	27-NOV-2007 01:01:50	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30016	No
14	GOM_TRA_1PNPDE20071127_010711_000000392063_00403_30016_3693.N1	27-NOV-2007 01:07:11	Bright	39.000	32	77Eps UMa	1.7630	11000.	78	30016	No
15	GOM_TRA_1PNPDE20071127_010907_000000372063_00403_30016_3694.N1	27-NOV-2007 01:09:07	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	30016	No
16	GOM_TRA_1PNPDE20071127_011235_000000562063_00403_30016_3695.N1	27-NOV-2007 01:12:35	Bright	56.000	152	12Alp2CVn	2.8900	11000.	112	30016	No
17	GOM_TRA_1PNPDE20071127_011753_000000342063_00403_30016_3696.N1	27-NOV-2007 01:17:53	Bright	33.500	111	8Eta Boo	2.6800	6000.0	67	30016	No
18	GOM_TRA_1PNPDE20071127_012049_000000382063_00403_30016_3697.N1	27-NOV-2007 01:20:49	Bright	37.500	138	47Eps Vir	2.8280	4700.0	75	30016	No
19	GOM_TRA_1PNPDE20071127_012458_000000582063_00403_30016_3698.N1	27-NOV-2007 01:24:58	Bright	58.000	121	29Gam Vir	2.7400	7200.0	116	30016	No
20	GOM_TRA_1PNPDE20071127_012635_000000532063_00403_30016_3807.N1	27-NOV-2007 01:26:35	Bright	53.000	15	67Alp Vir	0.97600	28000.	106	30016	No
21	GOM_TRA_1PNPDE20071127_013025_000000432063_00403_30016_3808.N1	27-NOV-2007 01:30:25	Twilight	43.000	100	4Gam Crv	2.5800	13100.	86	30016	No
22	GOM_TRA_1PNPDE20071127_013159_000000442063_00403_30016_3809.N1	27-NOV-2007 01:31:59	Dark	44.000	171	2Eps Crv	3.0010	4250.0	88	30016	No
23	GOM_TRA_1PNPDE20071127_014128_000000462063_00404_30017_3810.N1	27-NOV-2007 01:41:28	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	30017	No
24	GOM_TRA_1PNPDE20071127_014344_000000372063_00404_30017_3811.N1	27-NOV-2007 01:43:44	Dark	36.500	124	The Car	2.7640	30000.	73	30017	No
25	GOM_TRA_1PNPDE20071127_014634_000000392063_00404_30017_3812.N1	27-NOV-2007 01:46:34	Dark	38.500	29	Bet Car	1.6720	10200.	77	30017	No
26	GOM_TRA_1PNPDE20071127_014814_000000462063_00404_30017_3813.N1	27-NOV-2007 01:48:14	Dark	45.500	41	Eps Car	1.8600	4100.0	91	30017	No
27	GOM_TRA_1PNPDE20071127_015341_000000492063_00404_30017_3814.N1	27-NOV-2007 01:53:41	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	30017	No
28	GOM_TRA_1PNPDE20071127_020821_000000442063_00404_30017_3815.N1	27-NOV-2007 02:08:21	Straylight	43.500	165	34Gam Eri	2.9500	3200.0	87	30017	No
29	GOM_TRA_1PNPDE20071127_021343_000000482063_00404_30017_3816.N1	27-NOV-2007 02:13:43	Twilight	47.500	94	92Alp Cet	2.5260	3100.0	95	30017	No
30	GOM_TRA_1PNPDE20071127_021949_000000412063_00404_30017_3817.N1	27-NOV-2007 02:19:49	Bright	40.500	146	25Eta Tau	2.8730	15200.	81	30017	No
31	GOM_TRA_1PNPDE20071127_022239_000000352063_00404_30017_3818.N1	27-NOV-2007 02:22:39	Bright	34.500	173	4Bet Tri	3.0040	8900.0	69	30017	No
32	GOM_TRA_1PNPDE20071127_022419_000000382063_00404_30017_3819.N1	27-NOV-2007 02:24:19	Bright	37.500	79	26Bet Per	2.3100	13100.	75	30017	No
33	GOM_TRA_1PNPDE20071127_022641_000000382063_00404_30017_3820.N1	27-NOV-2007 02:26:41	Bright	37.500	175	39Del Per	3.0100	19400.	75	30017	No
34	GOM_TRA_1PNPDE20071127_023750_000000332063_00404_30017_3821.N1	27-NOV-2007 02:37:50	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	30017	No
35	GOM_TRA_1PNPDE20071127_024226_000000382063_00404_30017_3957.N1	27-NOV-2007 02:42:26	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30017	No
36	GOM_TRA_1PNPDE20071127_024747_000000352063_00404_30017_3958.N1	27-NOV-2007 02:47:47	Bright	35.000	32	77Eps UMa	1.7630	11000.	70	30017	No
37	GOM_TRA_1PNPDE20071127_024943_000000532063_00404_30017_3959.N1	27-NOV-2007 02:49:43	Bright	53.000	39	85Eta UMa	1.8540	24000.	106	30017	No
38	GOM_TRA_1PNPDE20071127_025312_000000392063_00404_30017_3960.N1	27-NOV-2007 02:53:12	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	30017	No
39	GOM_TRA_1PNPDE20071127_025829_000000342063_00404_30017_3961.N1	27-NOV-2007 02:58:29	Bright	34.000	111	8Eta Boo	2.6800	6000.0	68	30017	No
40	GOM_TRA_1PNPDE20071127_030126_000000382063_00404_30017_3962.N1	27-NOV-2007 03:01:26	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	30017	No
41	GOM_TRA_1PNPDE20071127_030534_000000582063_00404_30017_3963.N1	27-NOV-2007 03:05:34	Bright	58.000	121	29Gam Vir	2.7400	7200.0	116	30017	No
42	GOM_TRA_1PNPDE20071127_030712_000000382063_00404_30017_3964.N1	27-NOV-2007 03:07:12	Bright	38.000	15	67Alp Vir	0.97600	28000.	76	30017	No
43	GOM_TRA_1PNPDE20071127_031101_000000442063_00404_30017_3965.N1	27-NOV-2007 03:11:01	Twilight	44.000	100	4Gam Crv	2.5800	13100.	88	30017	No
44	GOM_TRA_1PNPDE20071127_031236_000000432063_00404_30017_3966.N1	27-NOV-2007 03:12:36	Dark	42.500	171	2Eps Crv	3.0010	4250.0	85	30017	No
45	GOM_TRA_1PNPDE20071127_032204_000000422063_00405_30018_3967.N1	27-NOV-2007 03:22:04	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	30018	No
46	GOM_TRA_1PNPDE20071127_032421_000000382063_00405_30018_3968.N1	27-NOV-2007 03:24:21	Dark	38.000	124	The Car	2.7640	30000.	76	30018	No
47	GOM_TRA_1PNPDE20071127_032711_000000392063_00405_30018_3969.N1	27-NOV-2007 03:27:11	Dark	38.500	29	Bet Car	1.6720	10200.	77	30018	No
48	GOM_TRA_1PNPDE20071127_032850_000000432063_00405_30018_3970.N1	27-NOV-2007 03:28:50	Dark	42.500	41	Eps Car	1.8600	4100.0	85	30018	No
49	GOM_TRA_1PNPDE20071127_033417_000000512063_00405_30018_3971.N1	27-NOV-2007 03:34:17	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	30018	No

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



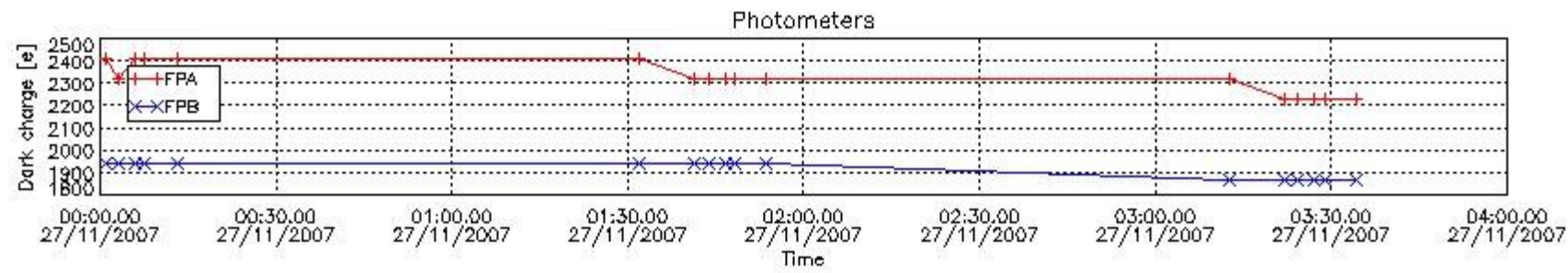
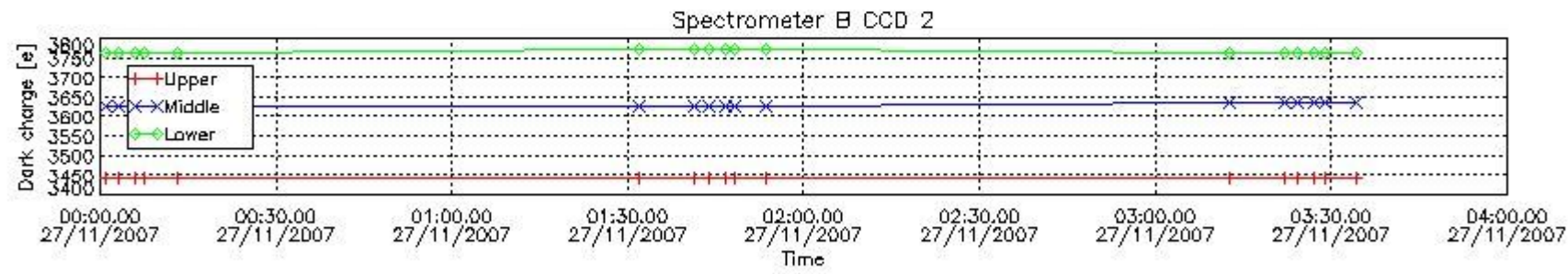
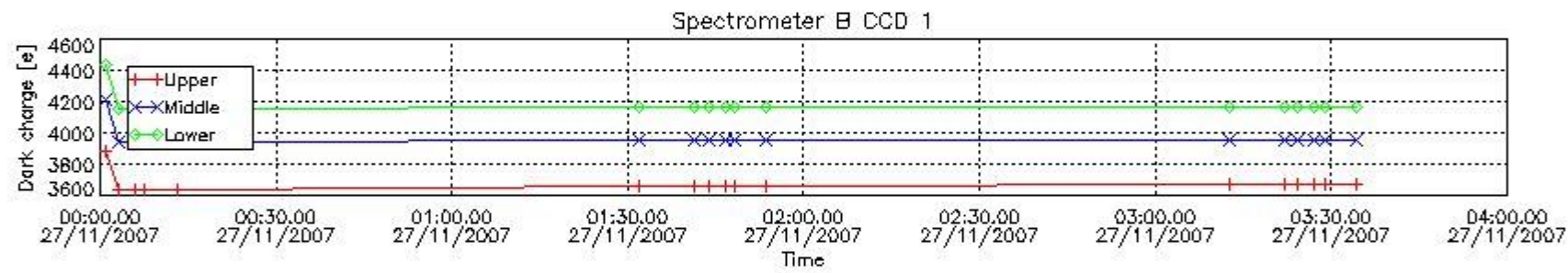
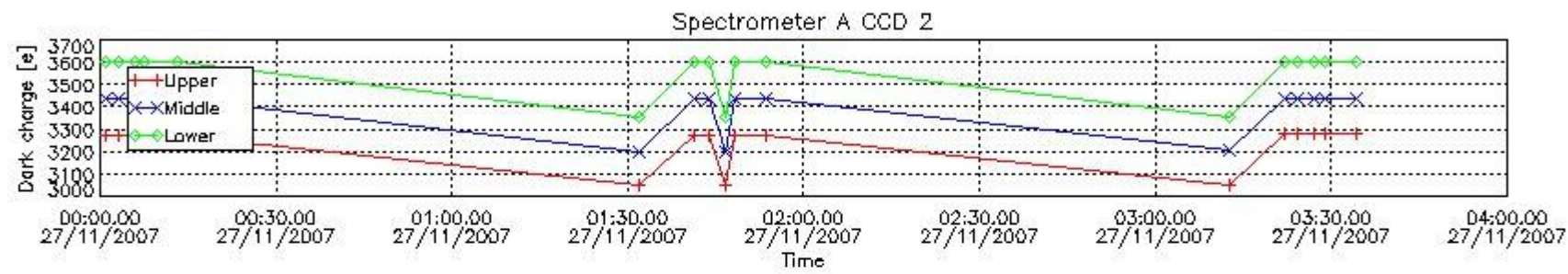
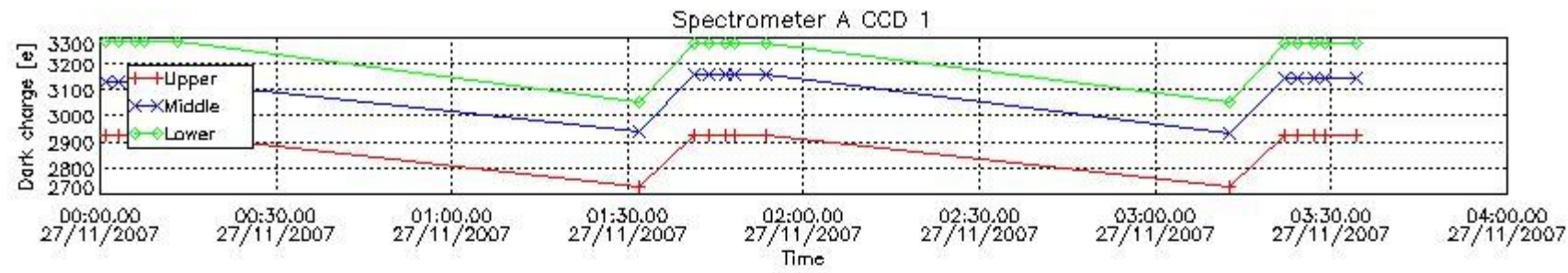
4. Overview of dark signal processing per product

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



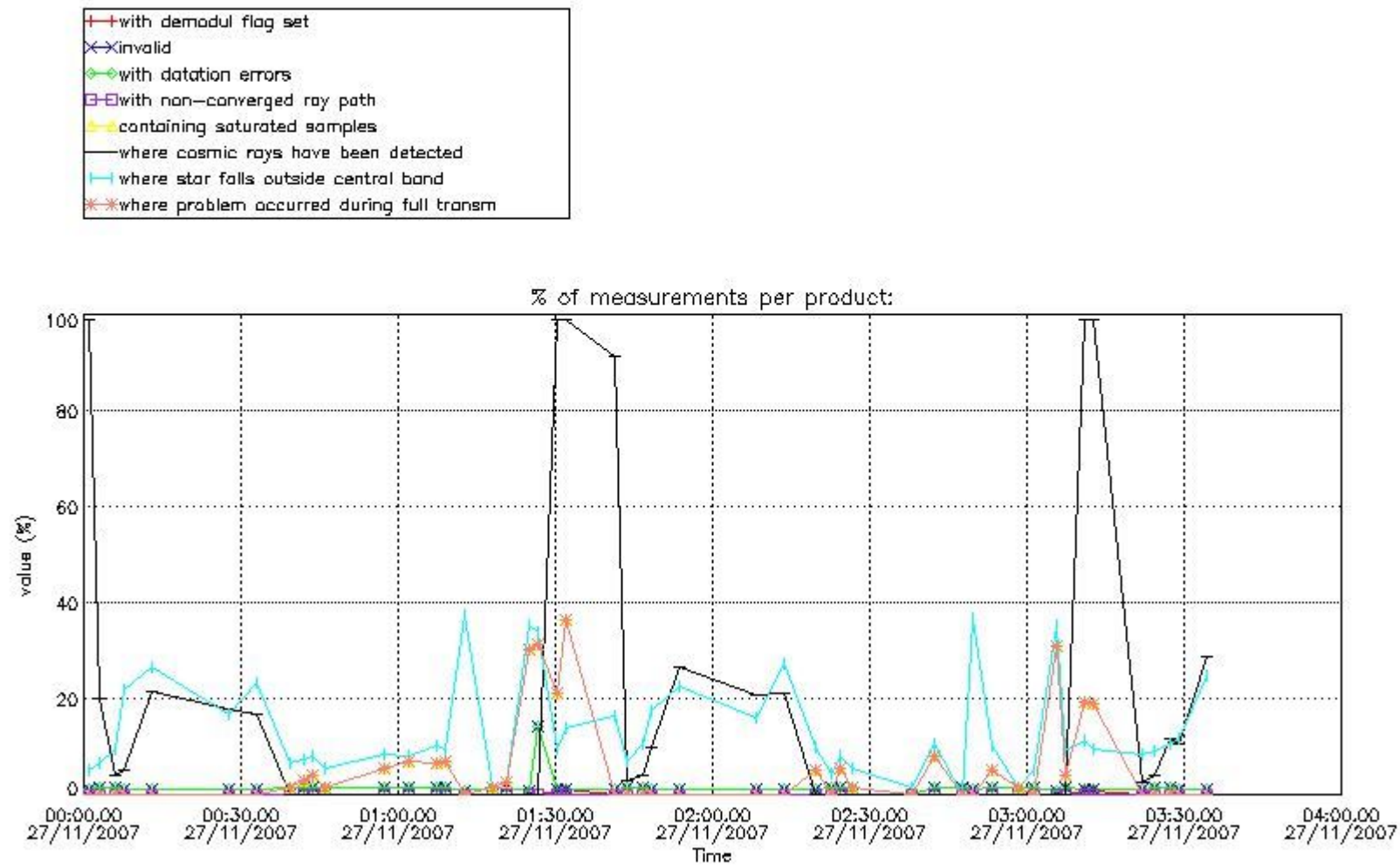
5. Demodulation flag and quality information monitoring

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.

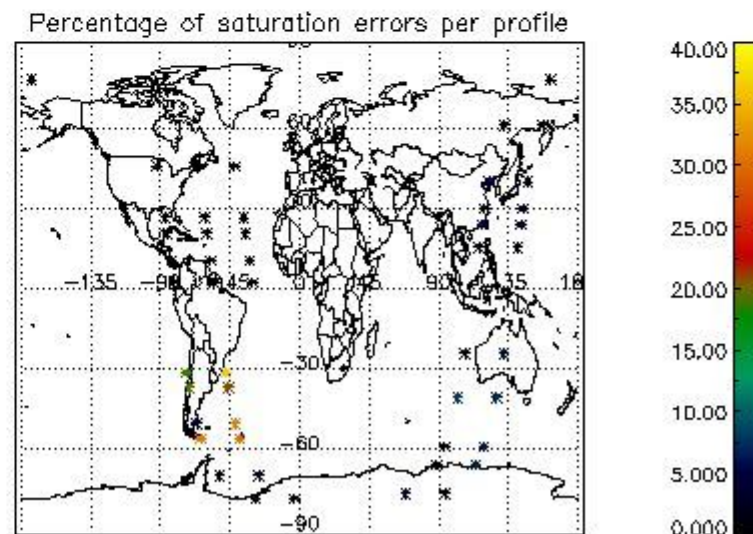
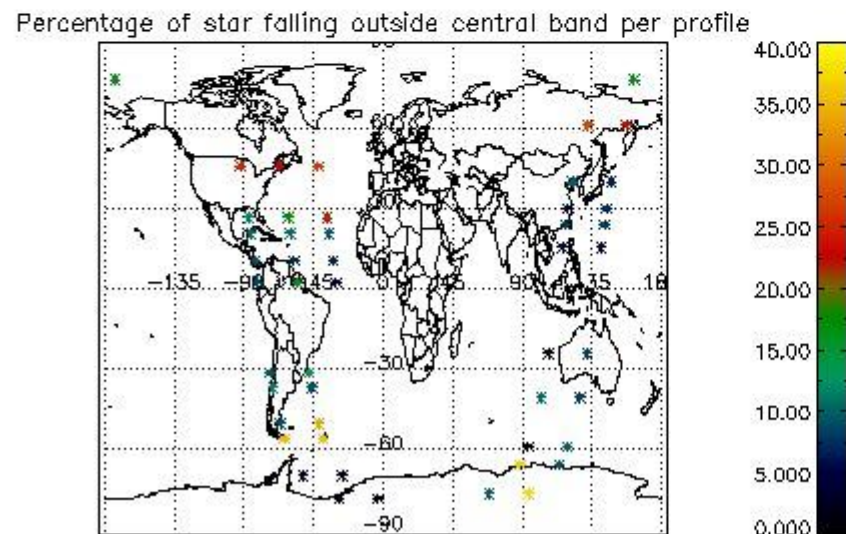
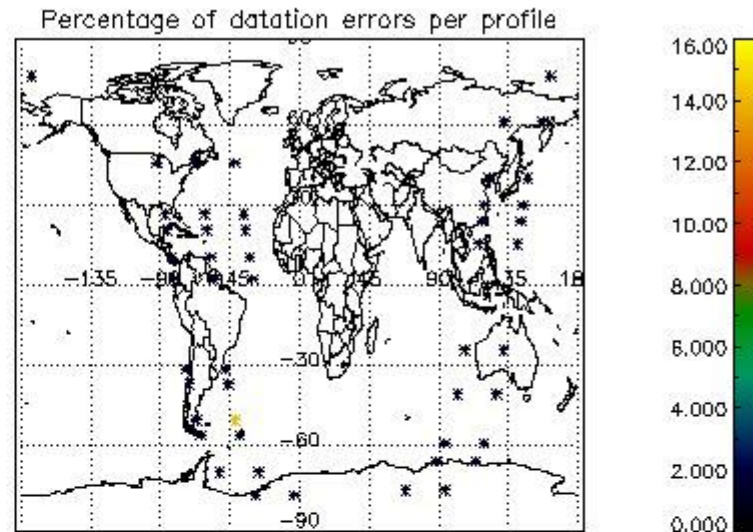
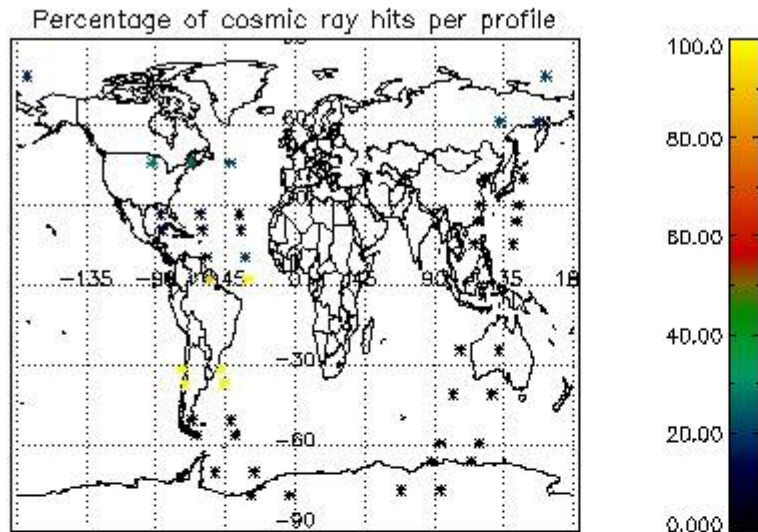
5.1 Percentage of products during reporting period with:

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



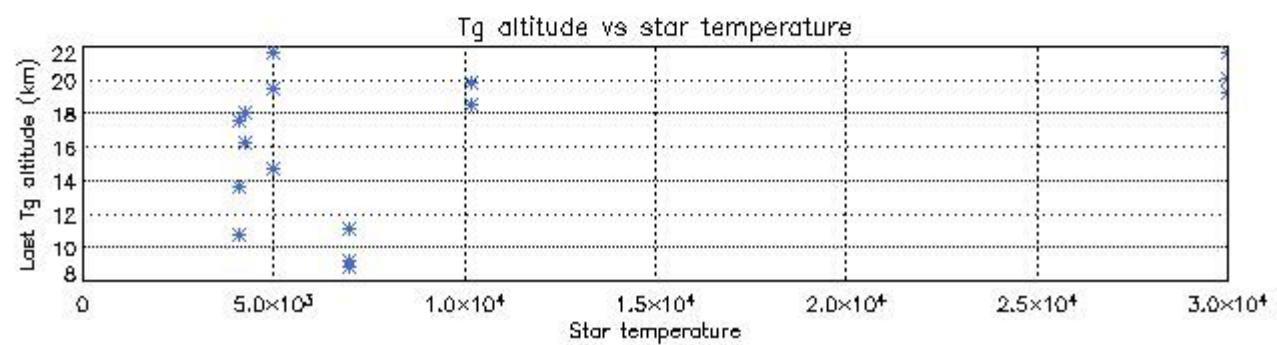
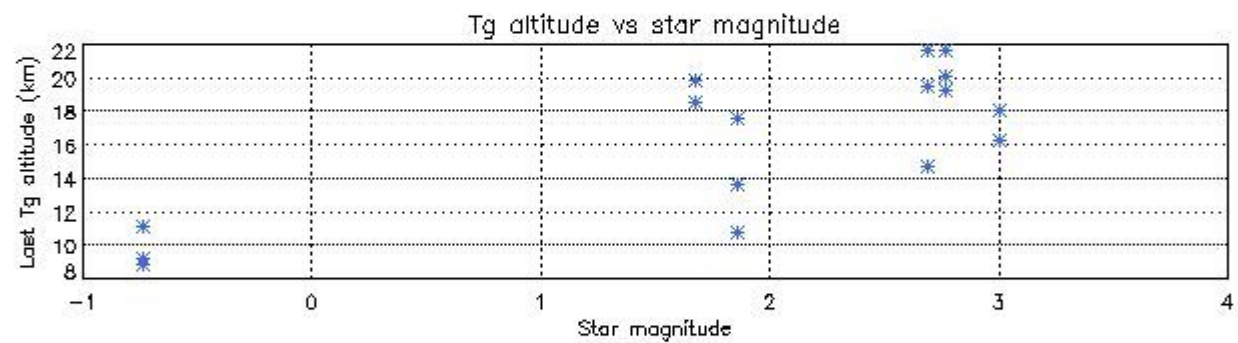
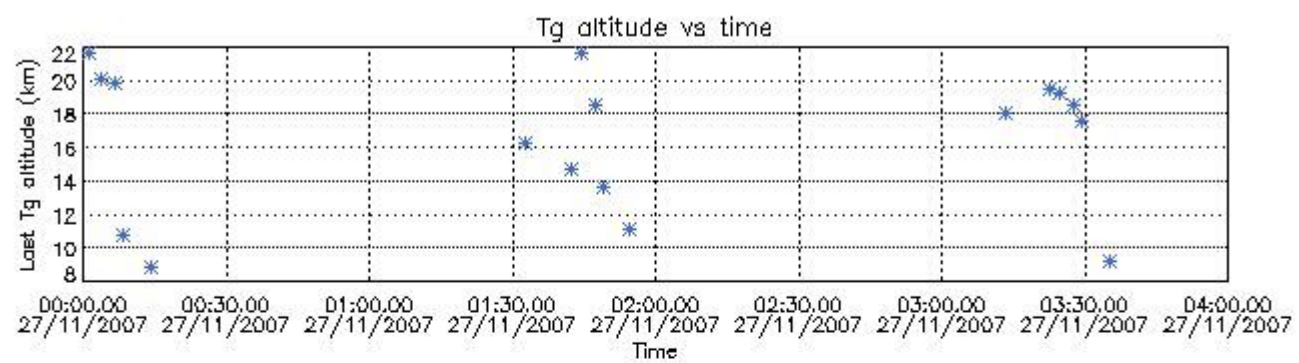
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.417	18.063	NaN
St. deviation:	4.2653	7.4677	NaN
Maximum:	21.674	27.402	NaN
Minimum:	8.8553	3.7140	NaN
Number of data:	17.000	26.000	NaN

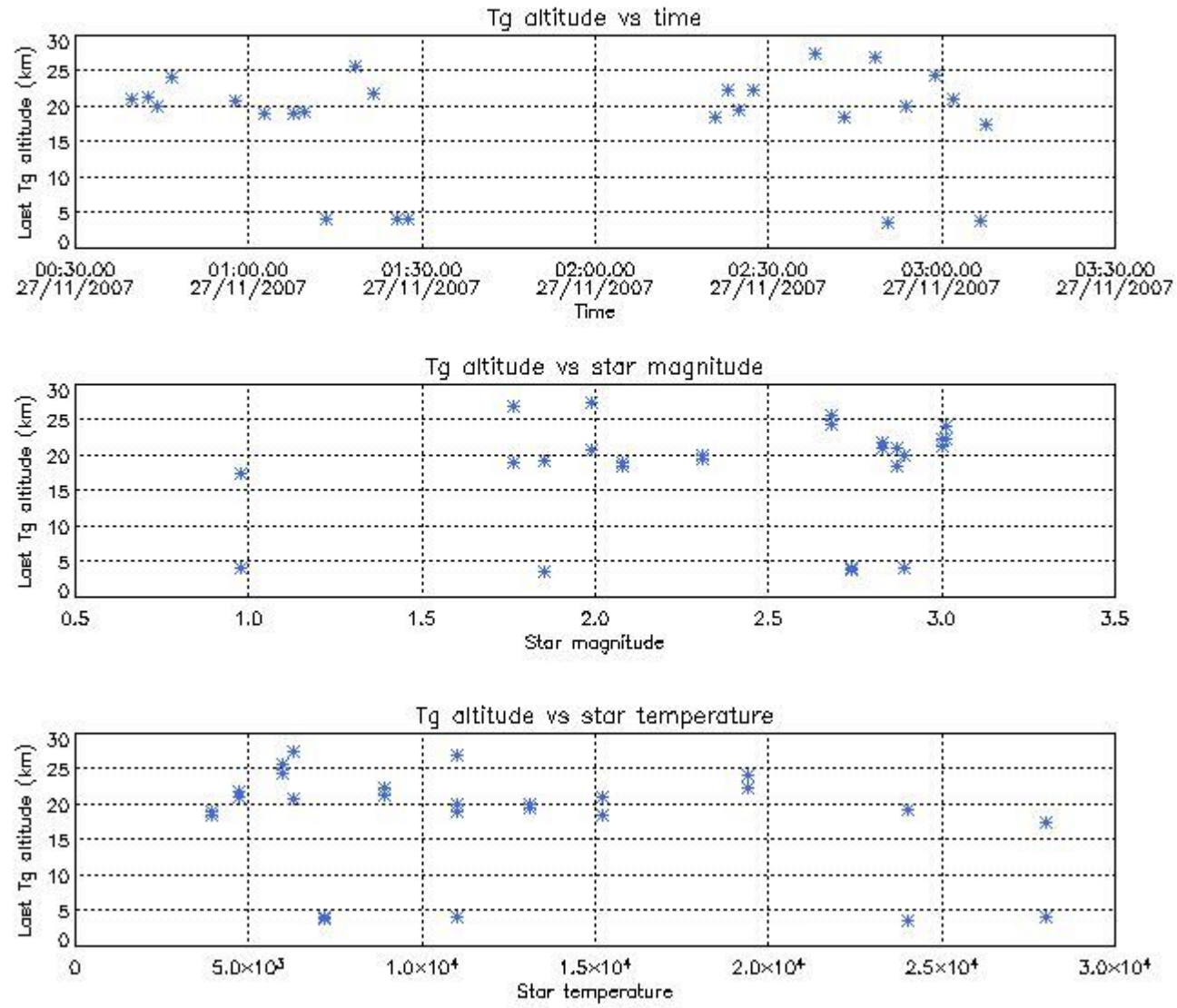
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

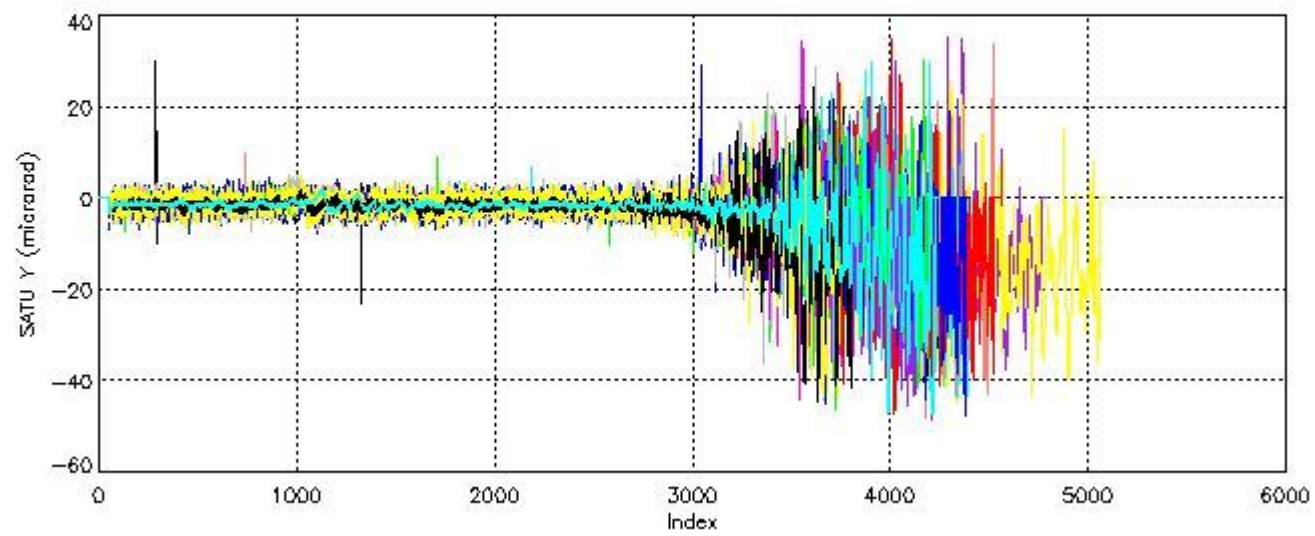
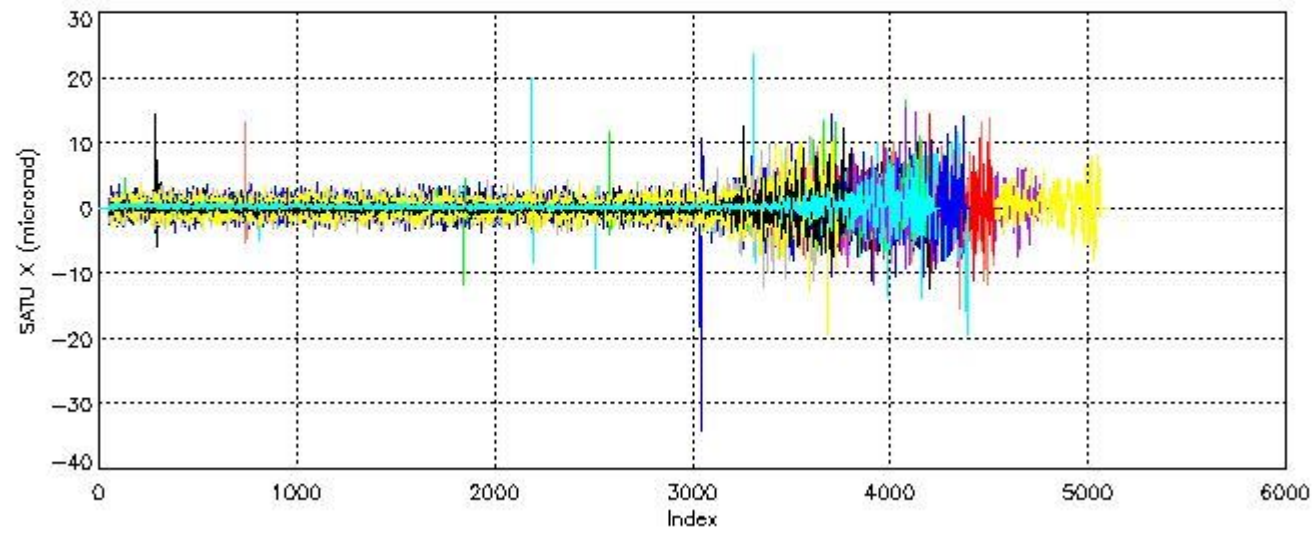


7. Star Acquisition and Tracking Unit (SATU)

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:	0.14957	-1.3084	0.064396	-1.1771
St. deviation:	0.51243	0.94287	0.93568	1.3927
Maximum:	13.200	9.6000	7.2000	5.9000
Minimum:	-5.2000	-7.6000	-6.1000	-9.2000

Number of data:	15900.	15900.	22200.	22200.
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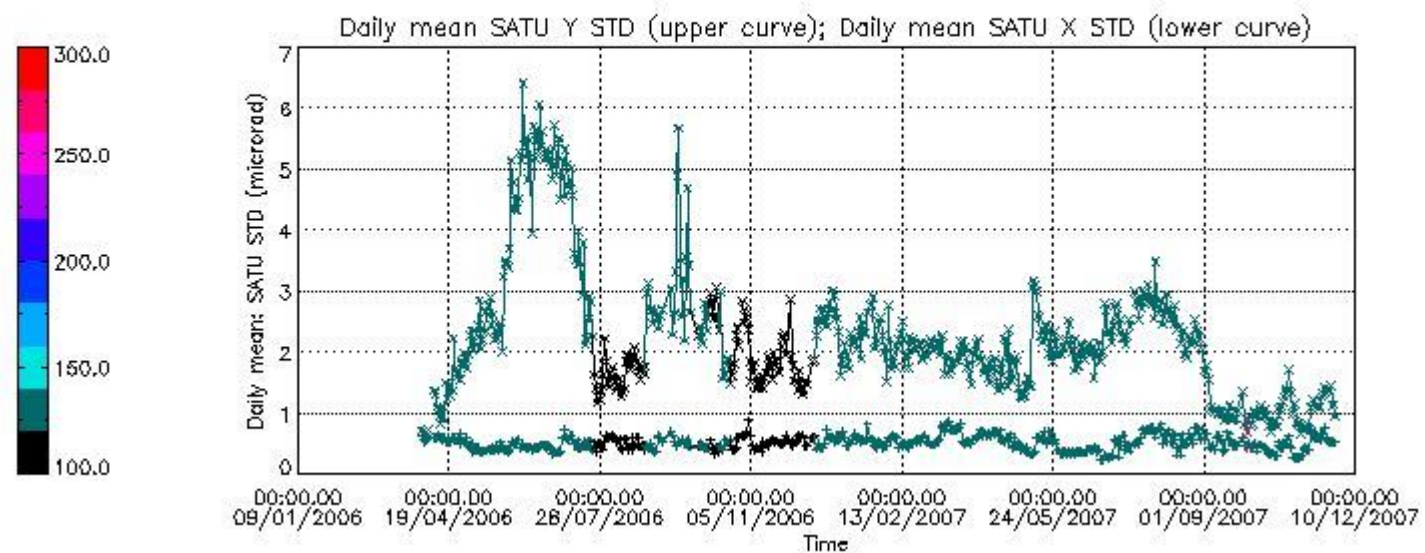
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

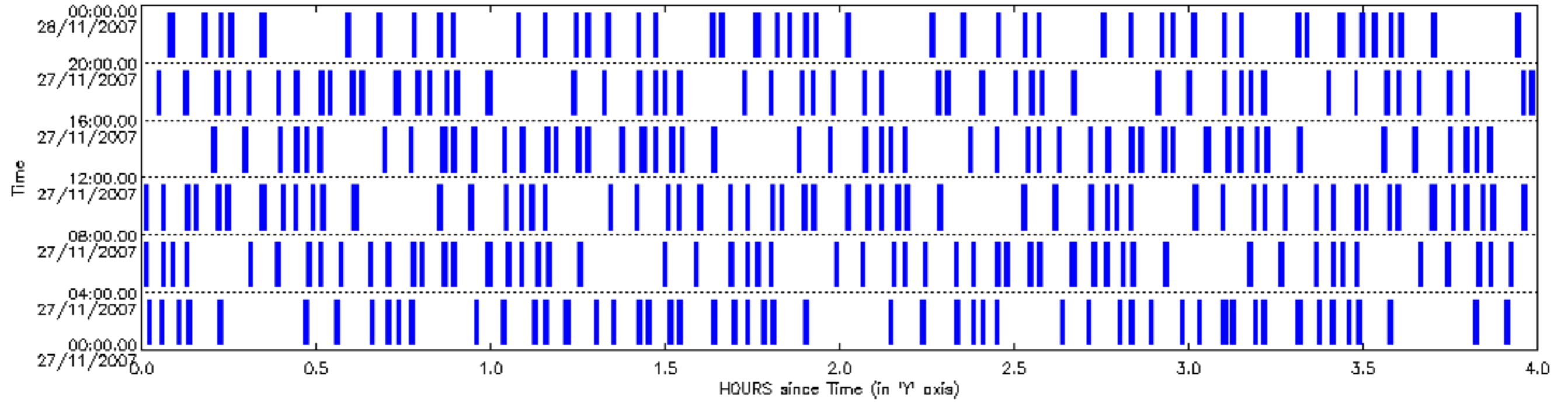
Lower curve: STD of SATU X axis

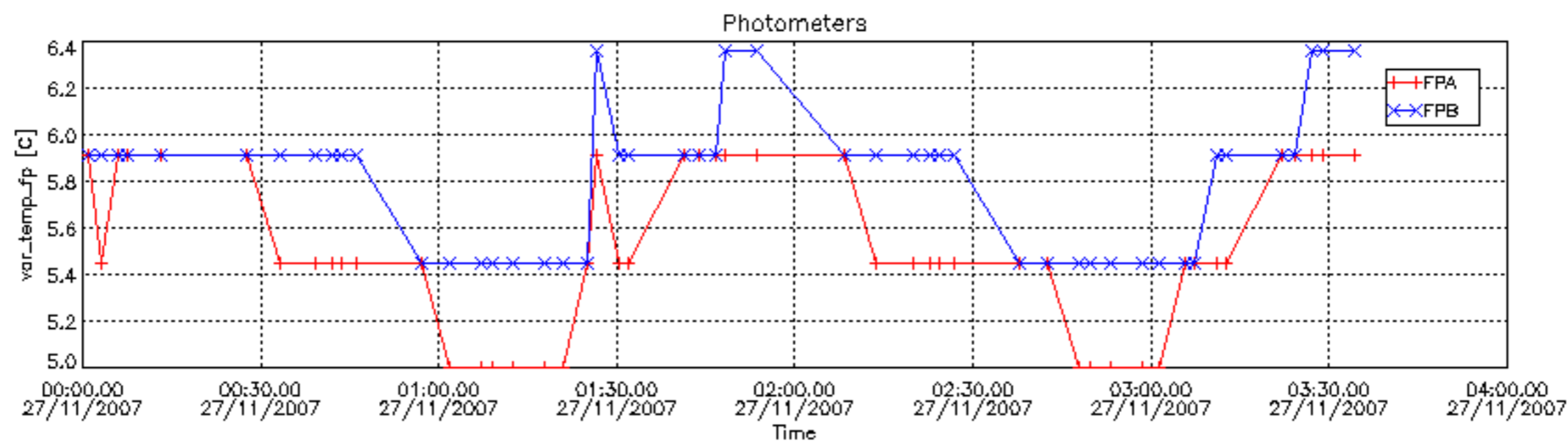
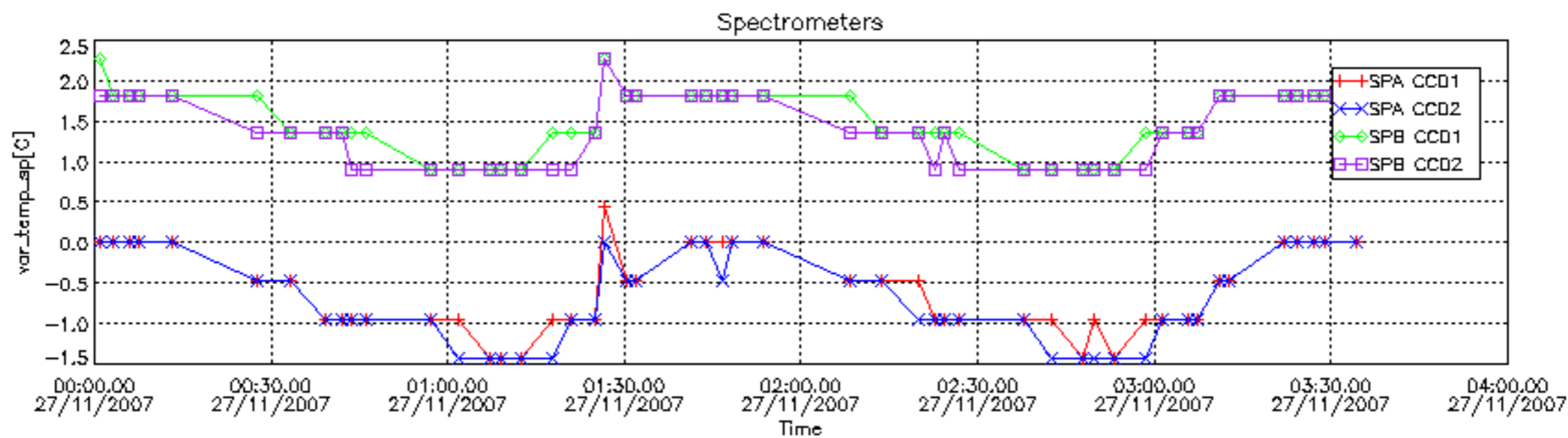


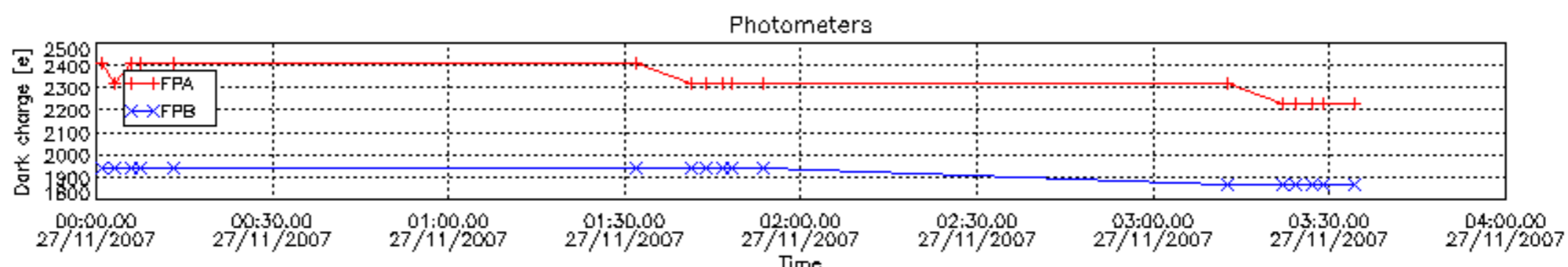
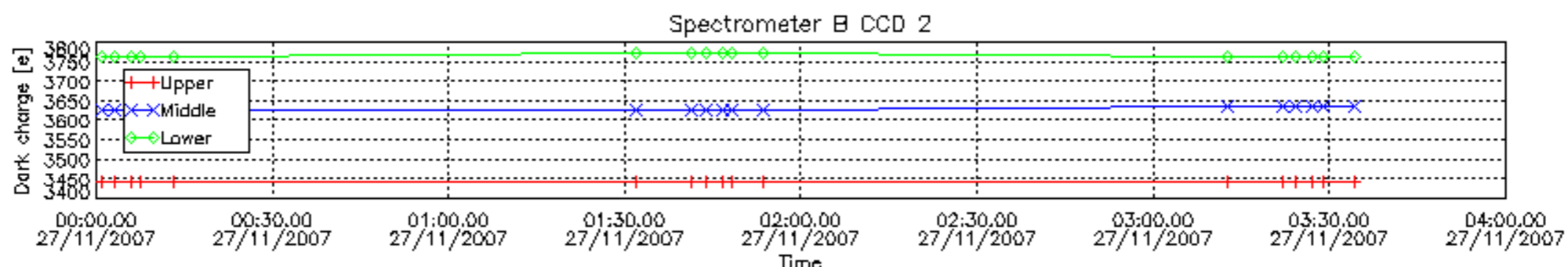
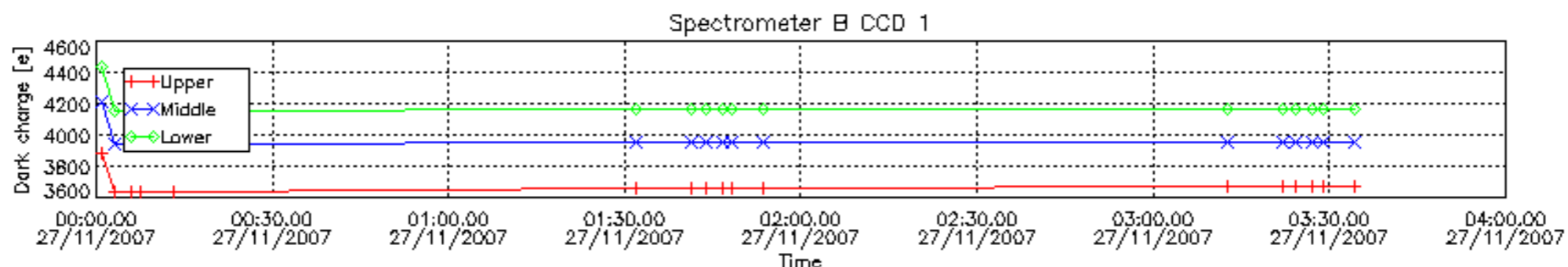
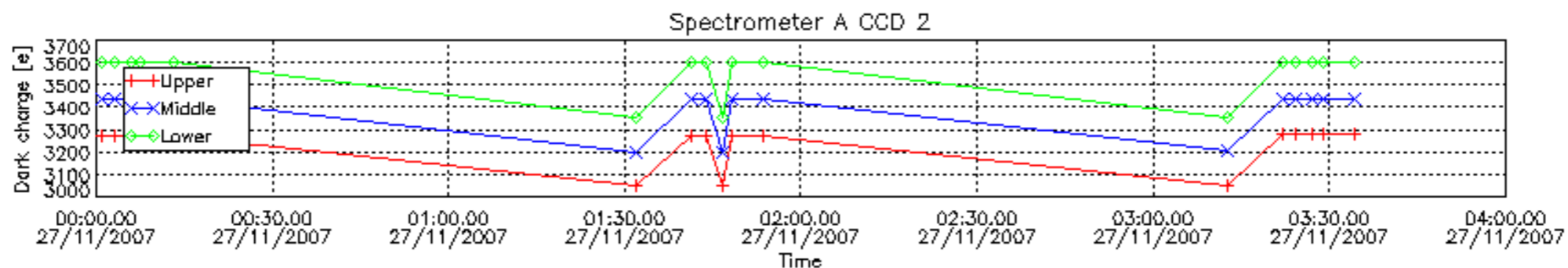
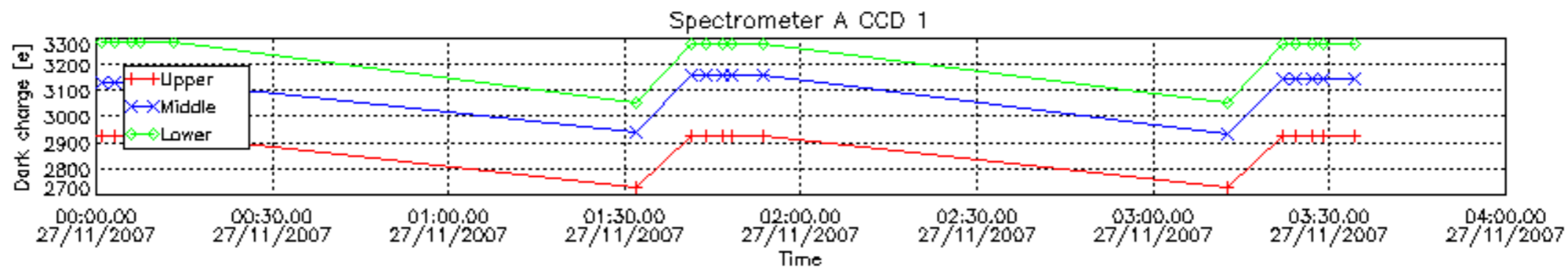
8. Auxiliary Data Files used for the production reported in section 2.4

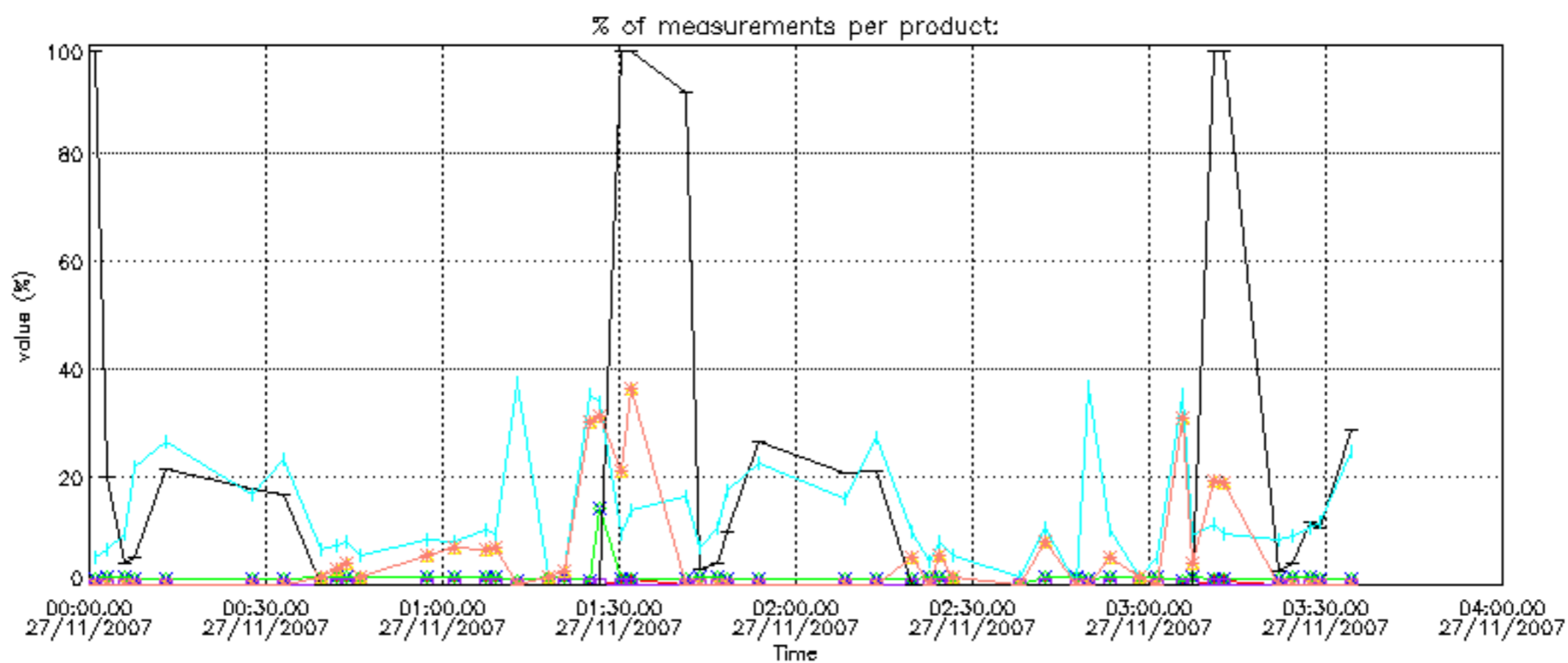
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-NOV-2007 00:00:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071123_091259_20071121_000000_20100101_000000	1	27-NOV-2007 00:00:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-NOV-2007 00:00:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-NOV-2007 00:00:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-NOV-2007 00:00:51
ECMWF_FILE	AUX_ECF_AXNECM20071126_063112_20071126_210000_20071127_090000	1	27-NOV-2007 00:00:51
OPTIONAL_ECMWF_FILE	MISSING	1	27-NOV-2007 00:00:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071126_220629_000057382063_00401_30014_4640.N1	1	27-NOV-2007 00:00:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071126_234726_000054192063_00402_30015_4641.N1	20	27-NOV-2007 01:26:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071127_012304_000041442063_00403_30016_4642.N1	35	27-NOV-2007 02:42:26

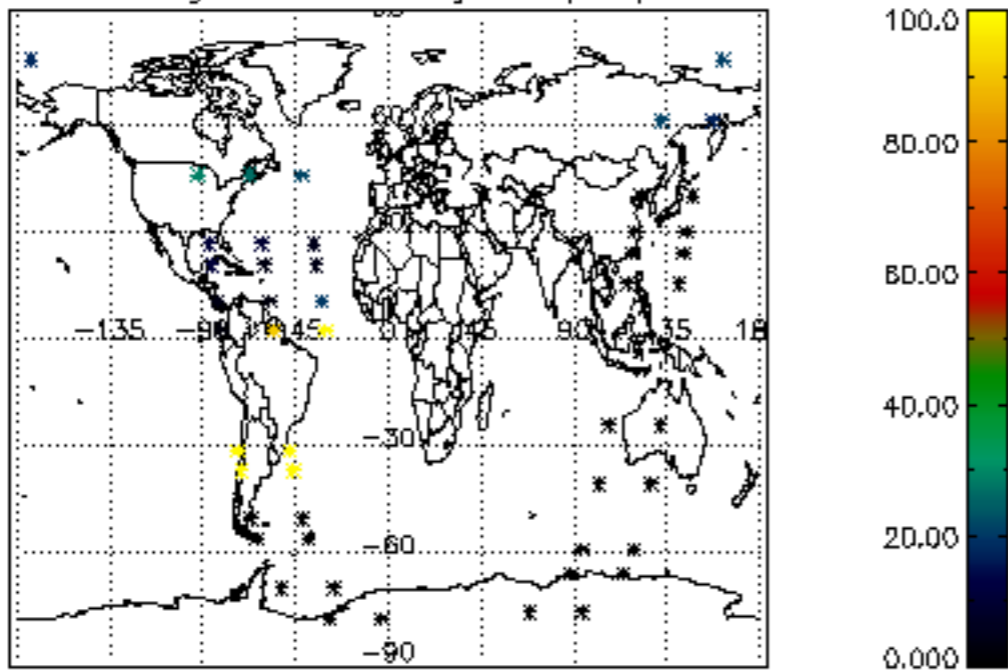




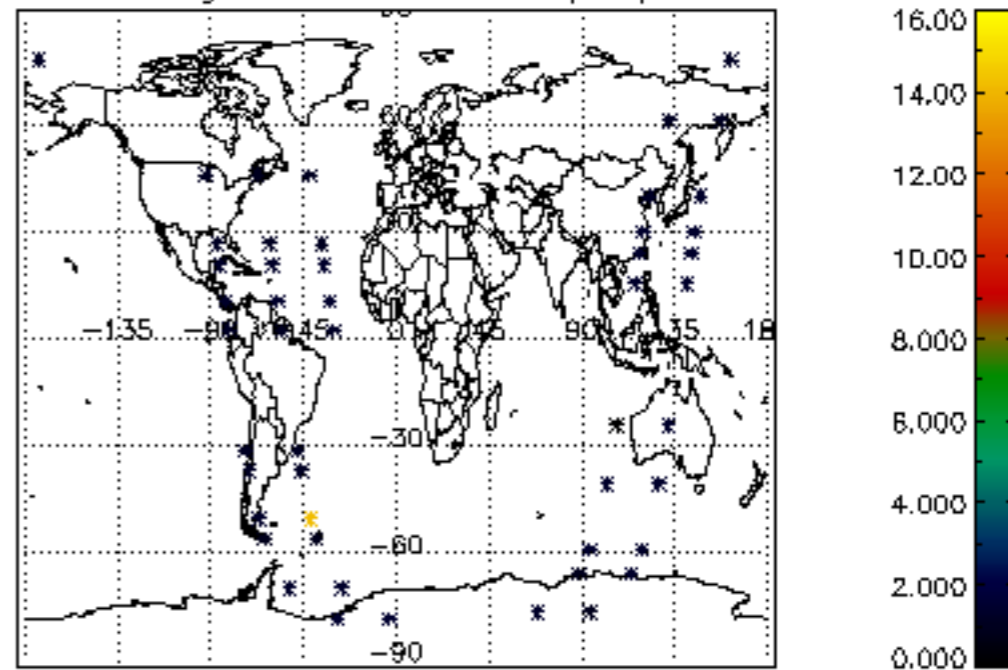




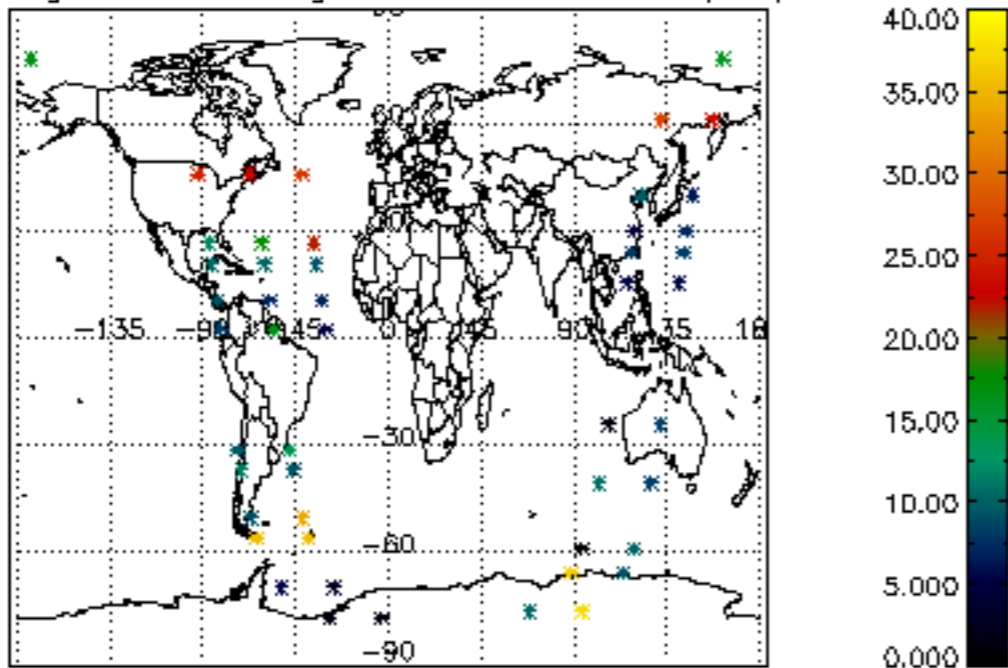
Percentage of cosmic ray hits per profile



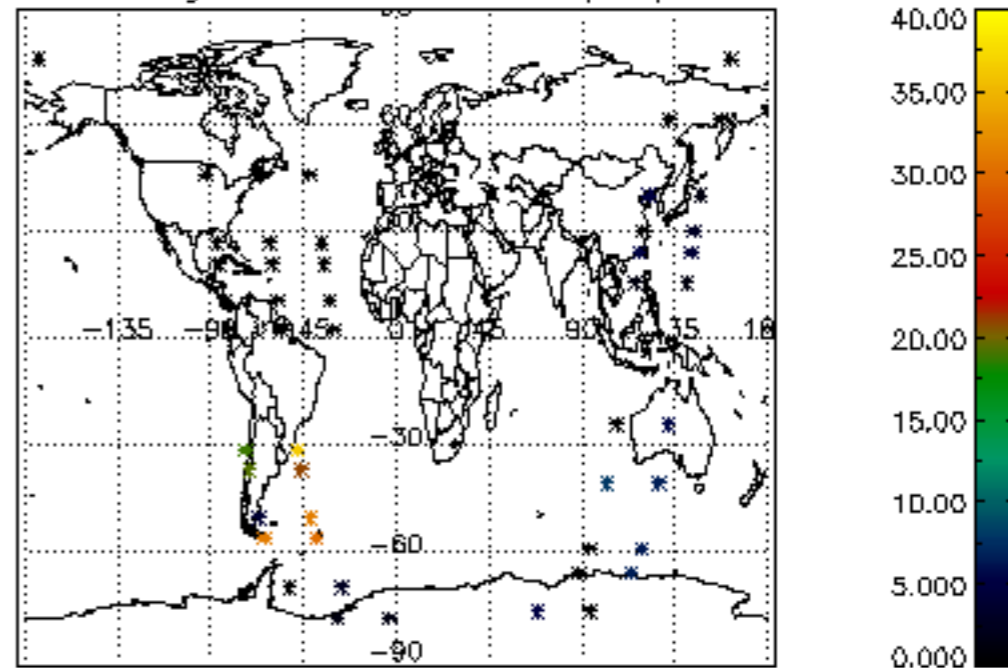
Percentage of datation errors per profile



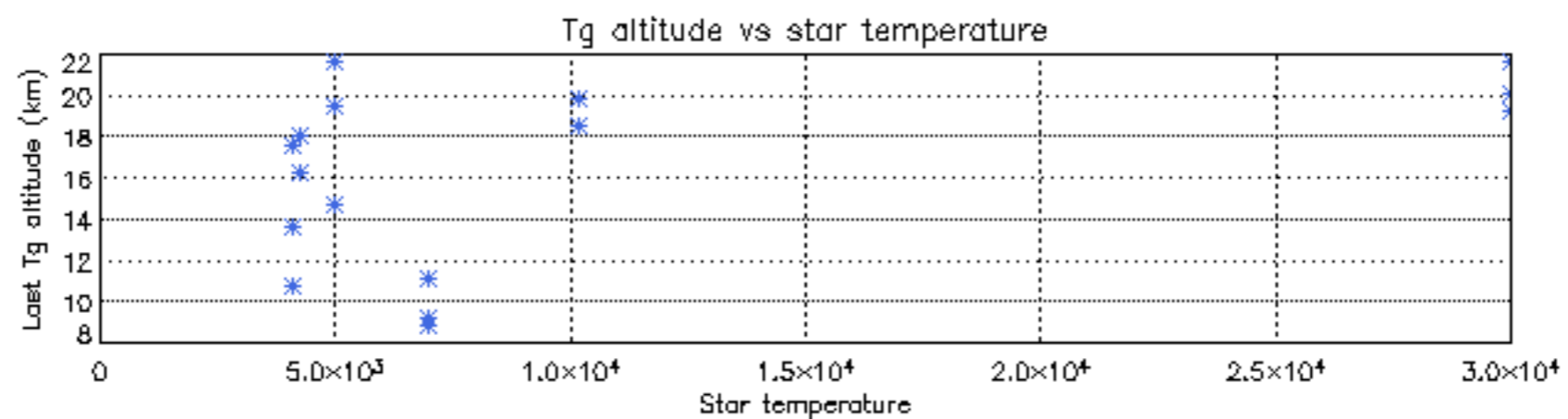
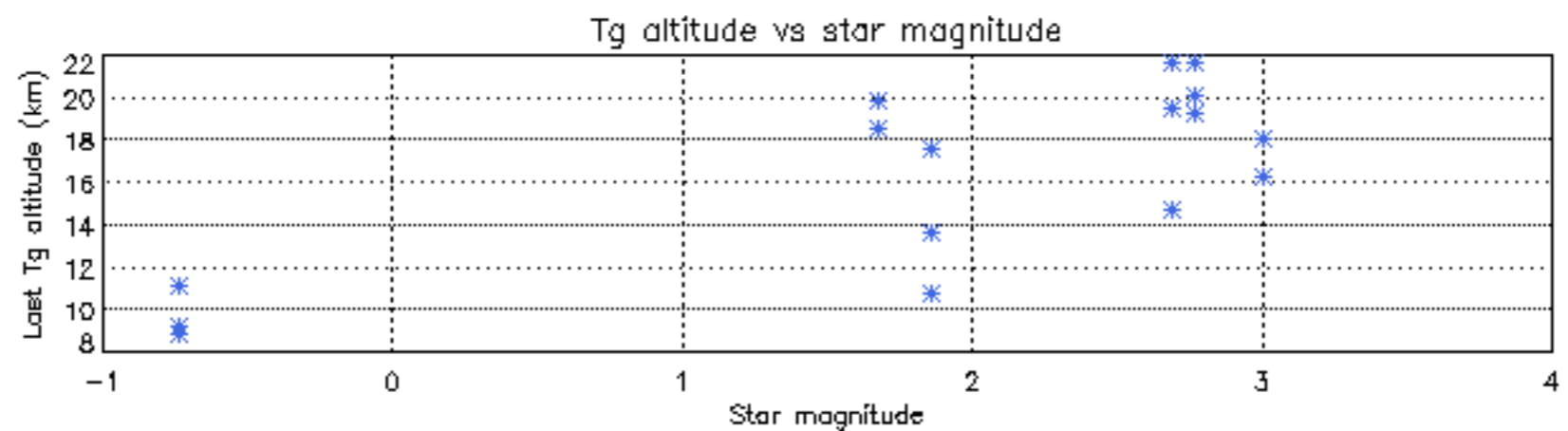
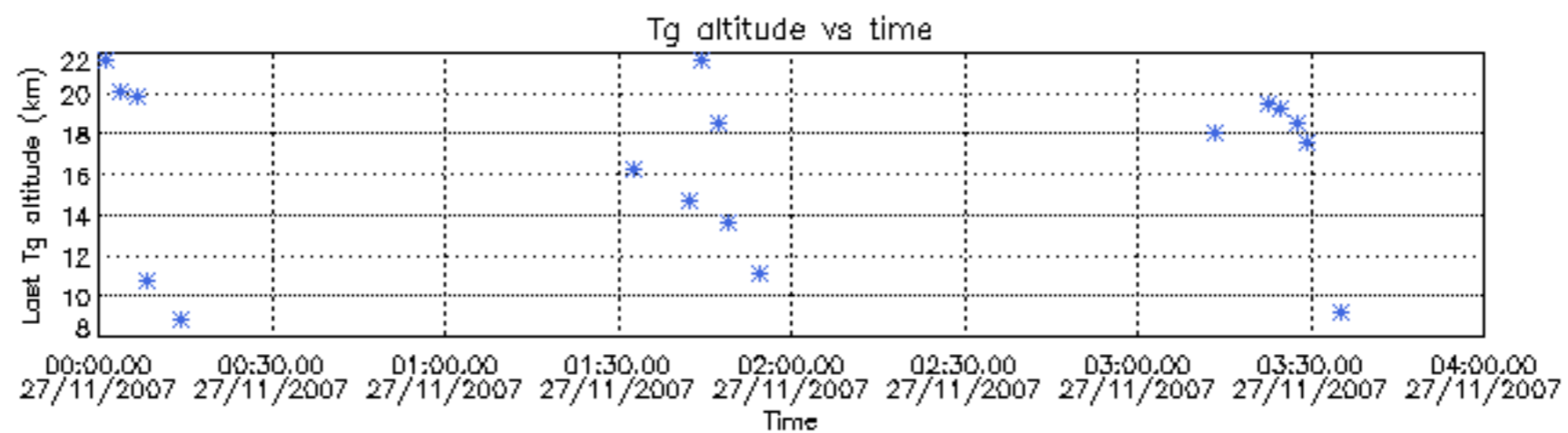
Percentage of star falling outside central band per profile



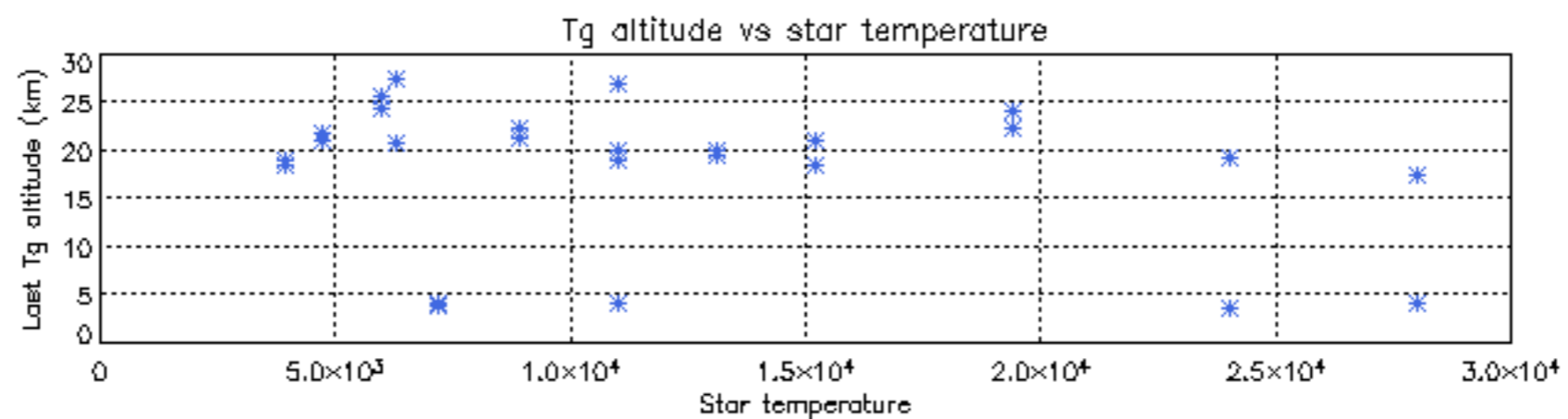
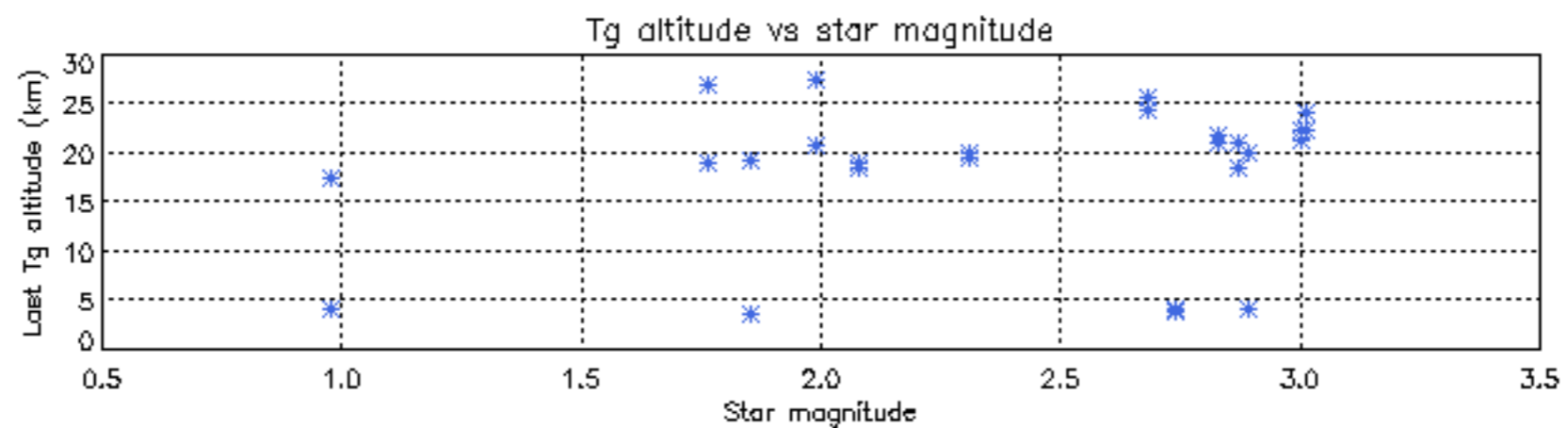
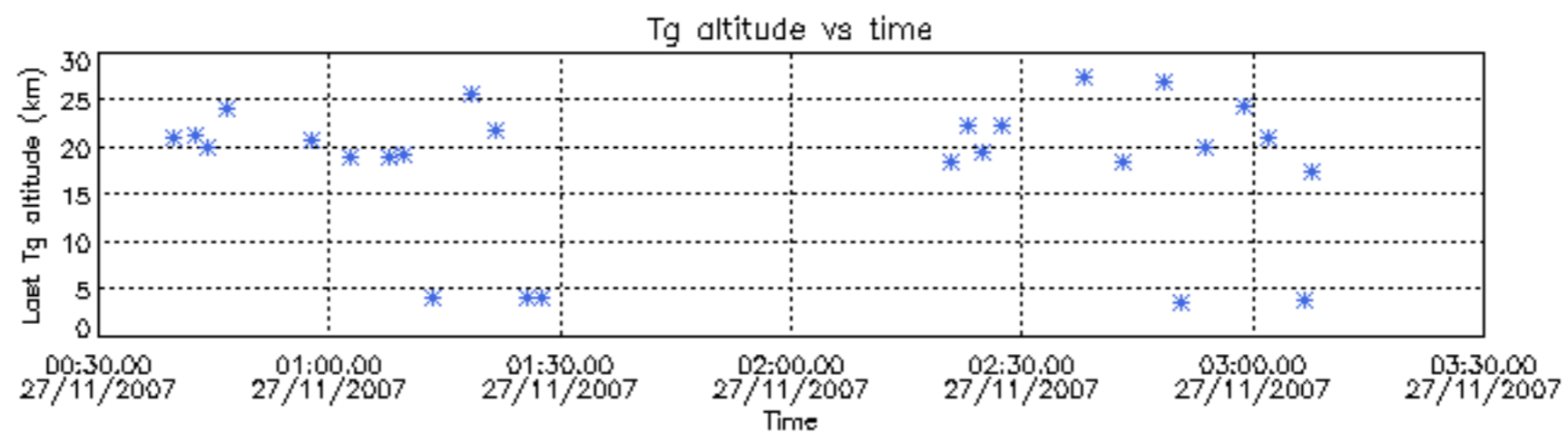
Percentage of saturation errors per profile

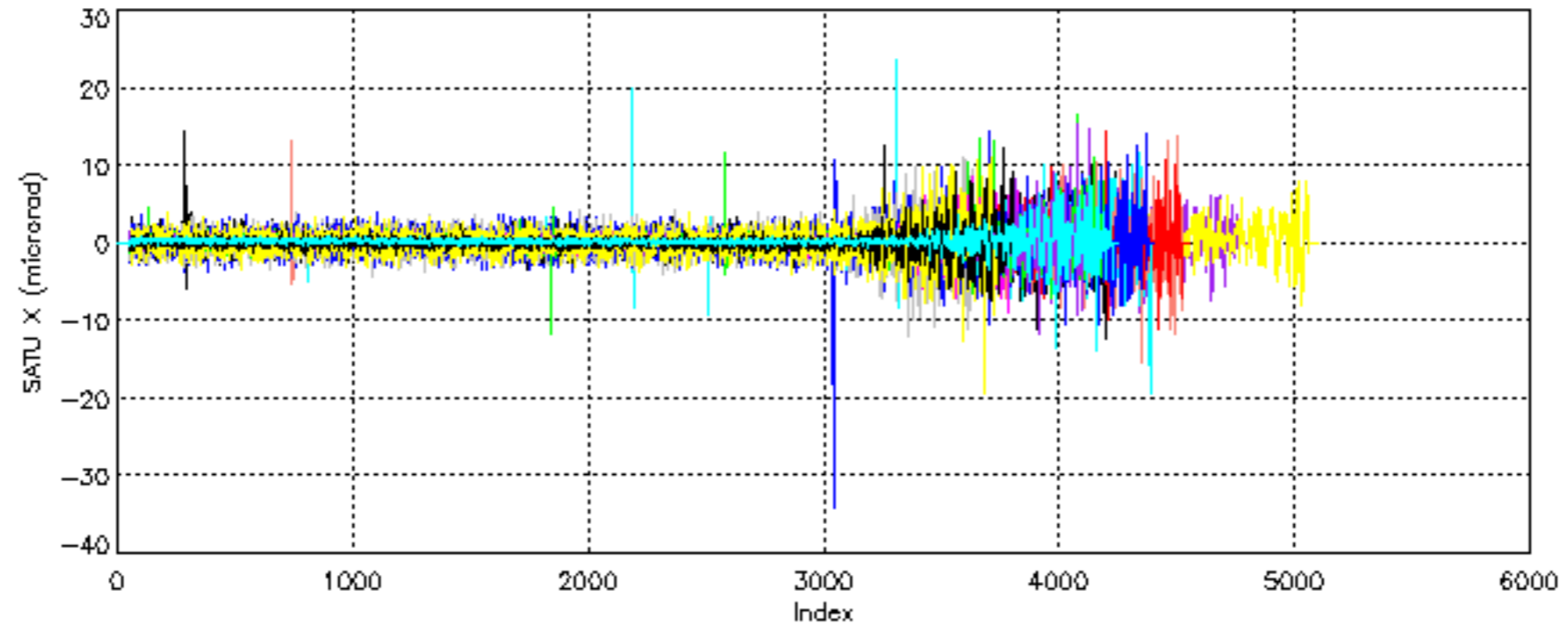


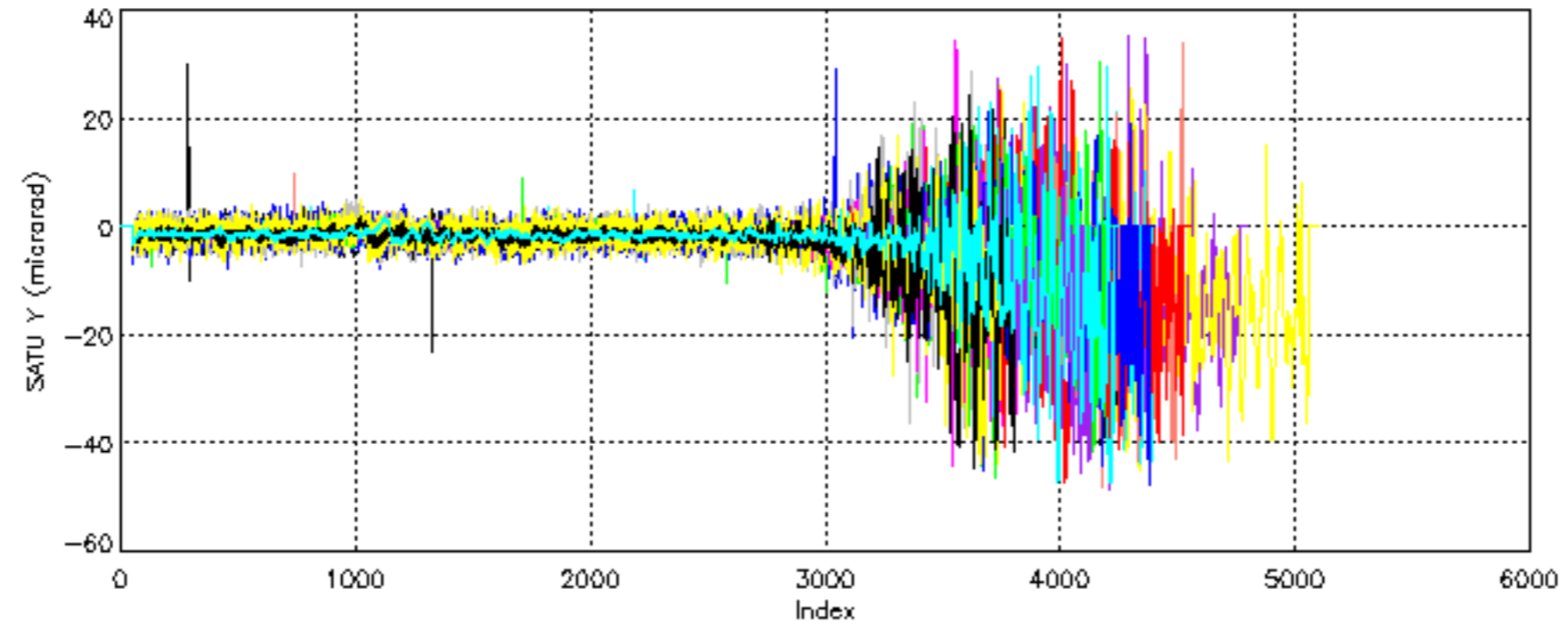
Tangent altitude at which the star is lost

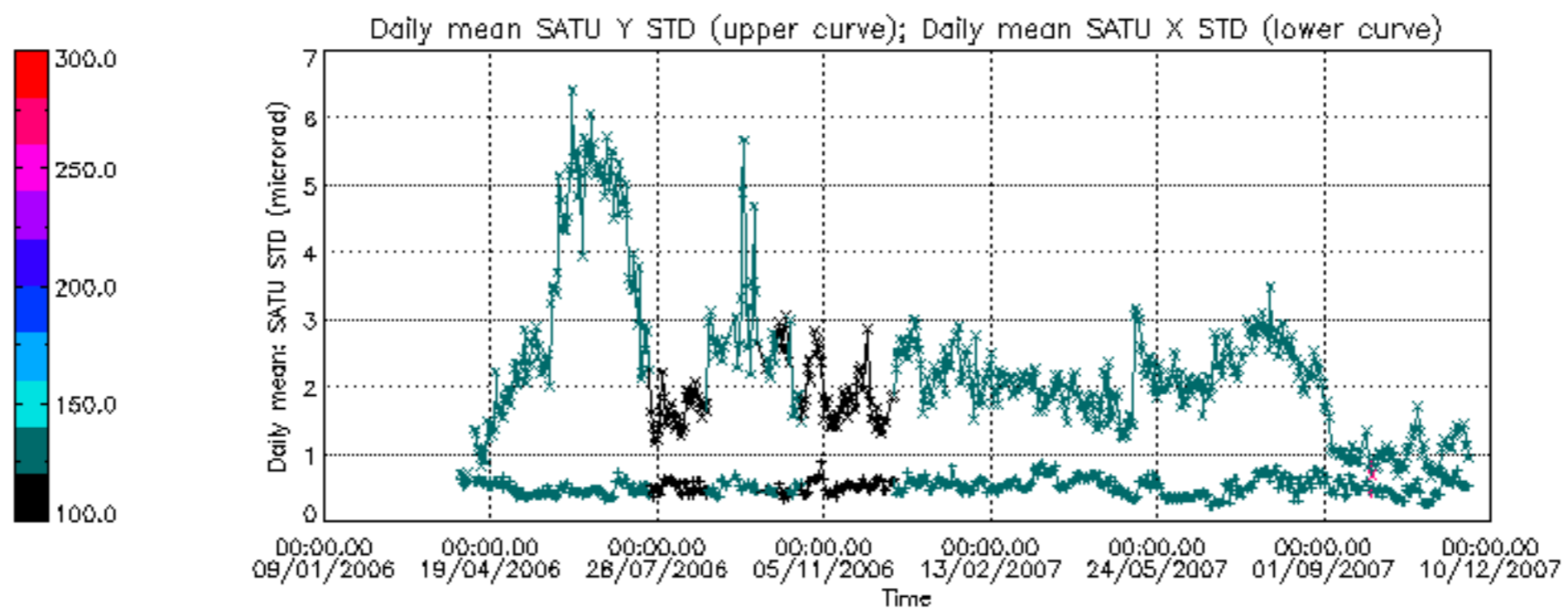


Tangent altitude at which the star is lost









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 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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 2; 131.9; 01-NOV-2007 02:00:18; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29645
 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
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 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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 2;-2026.9; 01-NOV-2007 03:04:55; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;29645
 3;-1806.6; 01-NOV-2007 03:08:35; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;29645
 4;-1364.1; 01-NOV-2007 03:15:58; Bright; 38.5; 96; 68Del Leo ; 2.56; 9300;occ; 77; 0;29645
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 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
 12; 2514.8; 01-NOV-2007 04:20:36; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;29646
 13; 2662.4; 01-NOV-2007 04:23:04; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;29646
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 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
 11; 2274.2; 01-NOV-2007 05:57:12; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;29647
 12; 2514.7; 01-NOV-2007 06:01:12; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 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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5; 2867.7; 01-NOV-2007 21:12:29; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29656
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
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
7; 214.8; 01-NOV-2007 07:03:28; Dark ; 40.5; 41; Eps Car ; 1.86; 4100;occ; 81; 0;29648
8; 345.0; 01-NOV-2007 07:05:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29648
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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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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5; 2939.0; 01-NOV-2007 07:48:53; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29648
6; 3423.7; 01-NOV-2007 07:56:57; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 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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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;	2659.9;	01-NOV-2007	19:28:25;	Bright;	;	39.5;	73;	57Gam1And	;	2.26;	13100;occ;	79;	0;	29655
5;	2867.7;	01-NOV-2007	19:31:53;	Bright;	;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	29655
6;	2938.8;	01-NOV-2007	19:33:04;	Bright;	;	36.0;	76;	27Gam Cas	;	2.30;	30000;occ;	72;	0;	29655
7;	3423.6;	01-NOV-2007	19:41:09;	Bright;	;	37.5;	49;	1Alp UMi	;	1.99;	6300;occ;	75;	0;	29655
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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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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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16;	4674.9;	01-NOV-2007	23:23:12;	Bright;	;	38.0;	96;	68Del Leo	;	2.56;	9300;occ;	76;	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
4;	354.4;	01-NOV-2007	23:51:47;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	29658
5;	529.9;	01-NOV-2007	23:54:43;	Dark	;	49.5;	2;	Alp Car	;	-0.74;	7000;occ;	99;	0;	29658
6;	1143.6;	02-NOV-2007	00:04:56;	Dark	;	40.0;	157;	The1Eri	;	2.91;	9300;occ;	80;	0;	29658
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
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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
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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
16;	4675.0;	02-NOV-2007	01:03:48;	Bright;	;	38.0;	96;	68Del Leo	;	2.56;	9300;occ;	76;	0;	29658

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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
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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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 21; 4638.5; 29-NOV-2007 00:14:16; Bright; 33.5; 3; 16Alp Boo ;-0.05; 4250;occ; 67; 0;30044
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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
5; 2607.3; 29-NOV-2007 14:45:48; Bright; 36.0; 79; 26Bet Per ; 2.31; 13100; occ; 72; 0; 30053
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
10; 4017.1; 29-NOV-2007 15:09:18; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000; occ; 77; 0; 30053
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13; 4640.5; 29-NOV-2007 15:19:41; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250; occ; 67; 0; 30053
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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16; 5196.9; 29-NOV-2007 15:28:58; Bright; 54.0; 15; 67Alp Vir ; 0.98; 28000; occ; 108; 0; 30053
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19; 5613.1; 29-NOV-2007 15:35:54; Dark ; 36.5; 123; Iot Cen ; 2.75; 10200; occ; 73; 0; 30053
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21; 6025.7; 29-NOV-2007 15:42:46; Dark ; 37.0; 129; Del Cru ; 2.79; 26000; occ; 74; 0; 30053
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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 22; 4138.1; 29-NOV-2007 23:34:19; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;30058
 23; 4310.2; 29-NOV-2007 23:37:11; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;30058
 24; 4641.3; 29-NOV-2007 23:42:42; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 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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 7; 71.4; 30-NOV-2007 00:07:08; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30059
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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
 23; 4641.5; 30-NOV-2007 01:23:18; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30059
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4; -145.8; 30-NOV-2007 23:31:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30072
5; -47.0; 30-NOV-2007 23:33:32; Dark ; 42.0; 26; Gam Cru ; 1.62; 2900;occ; 84; 0;30072
6; 82.4; 30-NOV-2007 23:35:42; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;30073
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
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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
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