

GOMOS Daily Report 12-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	14NOV2007 06:06:00
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (12NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (13NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	47
Nb of prods with errors	0

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

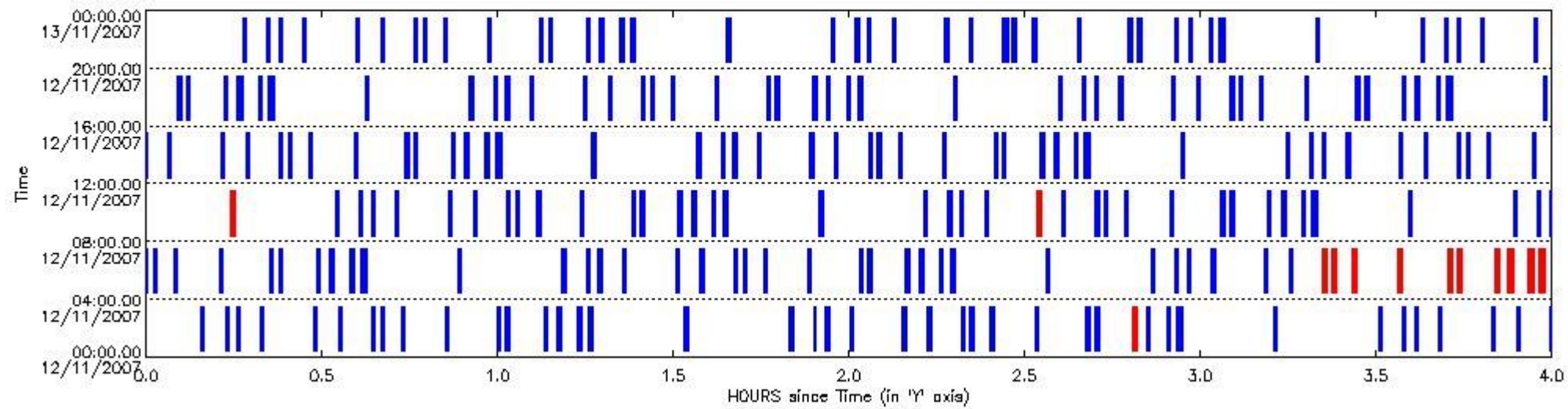
2.1 Level 0 products arrived in PCF (see template [here](#))

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).



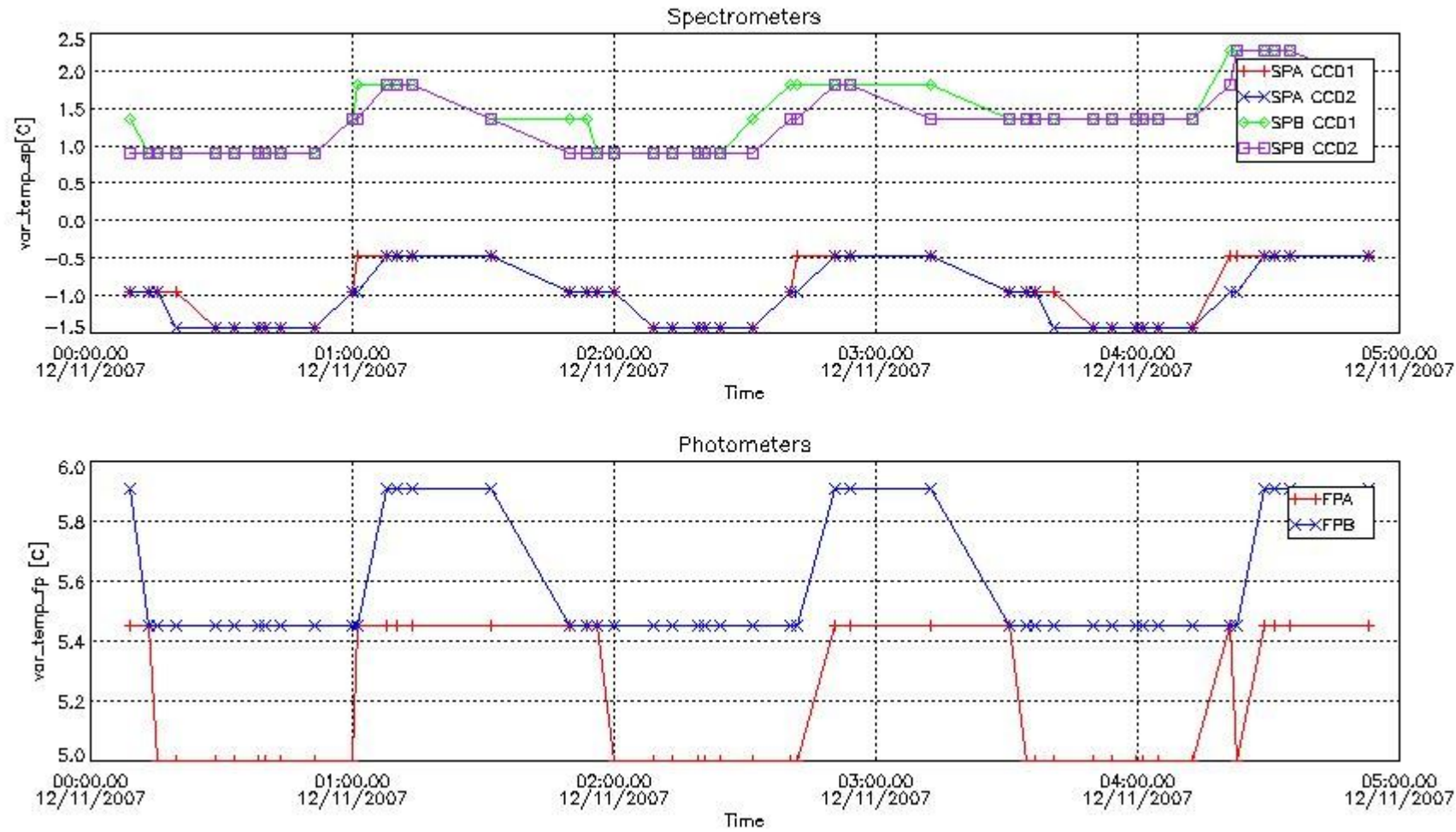
2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
12-NOV-2007 02:48:23	GamCen	64	29802
12-NOV-2007 07:20:51	77EpsUMa	32	29805
12-NOV-2007 07:22:24	85EtaUMa	39	29805
12-NOV-2007 07:25:54	12Alp2CVn	152	29805
12-NOV-2007 07:33:33	47EpsVir	138	29805
12-NOV-2007 07:42:14	4GamCrv	100	29805
12-NOV-2007 07:43:44	2EpsCrv	171	29805
12-NOV-2007 07:50:11	GamCen	64	29805
12-NOV-2007 07:52:29	GamCru	26	29805
12-NOV-2007 07:56:00	TheCar	124	29806
12-NOV-2007 07:57:45	DSA1029	0	29806
12-NOV-2007 08:14:15	The1Eri	157	29806
12-NOV-2007 10:32:06	1AlpUMi	49	29807

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_1PNPDE20071112_000912_000000372063_00188_29801_3420.N1	12-NOV-2007 00:09:12	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	29801	No
2	GOM_TRA_1PNPDE20071112_001331_000000362063_00188_29801_3421.N1	12-NOV-2007 00:13:31	Bright	36.000	53	43Bet And	2.0480	3300.0	72	29801	No
3	GOM_TRA_1PNPDE20071112_001522_000000382063_00188_29801_3422.N1	12-NOV-2007 00:15:22	Bright	38.000	73	57Gam1And	2.2600	13100.	76	29801	No
4	GOM_TRA_1PNPDE20071112_001929_000000342063_00188_29801_3423.N1	12-NOV-2007 00:19:29	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	29801	No
5	GOM_TRA_1PNPDE20071112_002832_000000332063_00188_29801_3424.N1	12-NOV-2007 00:28:32	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29801	No
6	GOM_TRA_1PNPDE20071112_003246_000000332063_00188_29801_3425.N1	12-NOV-2007 00:32:46	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	29801	No
7	GOM_TRA_1PNPDE20071112_003829_000000362063_00188_29801_3426.N1	12-NOV-2007 00:38:29	Bright	36.000	32	77Eps UMa	1.7630	11000.	72	29801	No
8	GOM_TRA_1PNPDE20071112_004002_000000362063_00188_29801_3427.N1	12-NOV-2007 00:40:02	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	29801	No
9	GOM_TRA_1PNPDE20071112_004332_000000362063_00188_29801_3428.N1	12-NOV-2007 00:43:32	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	29801	No
10	GOM_TRA_1PNPDE20071112_005110_000000332063_00188_29801_3429.N1	12-NOV-2007 00:51:10	Bright	32.500	138	47Eps Vir	2.8280	4700.0	65	29801	No
11	GOM_TRA_1PNPDE20071112_005951_000000412063_00188_29801_3430.N1	12-NOV-2007 00:59:51	Twilight	40.500	100	4Gam Crv	2.5800	13100.	81	29801	No
12	GOM_TRA_1PNPDE20071112_010121_000000442063_00188_29801_3568.N1	12-NOV-2007 01:01:21	Twilight	44.000	171	2Eps Crv	3.0010	4250.0	88	29801	No
13	GOM_TRA_1PNPDE20071112_010749_000000382063_00188_29801_3569.N1	12-NOV-2007 01:07:49	Dark	37.500	64	Gam Cen	2.2000	10600.	75	29801	No
14	GOM_TRA_1PNPDE20071112_011006_000000392063_00188_29801_3570.N1	12-NOV-2007 01:10:06	Dark	39.000	26	Gam Cru	1.6240	2900.0	78	29801	No
15	GOM_TRA_1PNPDE20071112_011337_000000382063_00189_29802_3571.N1	12-NOV-2007 01:13:37	Dark	38.000	124	The Car	2.7640	30000.	76	29802	No
16	GOM_TRA_1PNPDE20071112_013152_000000392063_00189_29802_3572.N1	12-NOV-2007 01:31:52	Straylight	38.500	157	The1Eri	2.9060	9300.0	77	29802	No
17	GOM_TRA_1PNPDE20071112_014948_000000372063_00189_29802_3573.N1	12-NOV-2007 01:49:48	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	29802	No
18	GOM_TRA_1PNPDE20071112_015354_000000252063_00189_29802_3574.N1	12-NOV-2007 01:53:54	Twilight	25.000	173	4Bet Tri	3.0040	8900.0	50	29802	No
19	GOM_TRA_1PNPDE20071112_015558_000000382063_00189_29802_3575.N1	12-NOV-2007 01:55:58	Bright	38.000	73	57Gam1And	2.2600	13100.	76	29802	No
20	GOM_TRA_1PNPDE20071112_020005_000000362063_00189_29802_3576.N1	12-NOV-2007 02:00:05	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29802	No
21	GOM_TRA_1PNPDE20071112_020908_000000342063_00189_29802_3577.N1	12-NOV-2007 02:09:08	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	29802	No
22	GOM_TRA_1PNPDE20071112_021322_000000372063_00189_29802_3727.N1	12-NOV-2007 02:13:22	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	29802	No
23	GOM_TRA_1PNPDE20071112_021905_000000372063_00189_29802_3728.N1	12-NOV-2007 02:19:05	Bright	36.500	32	77Eps UMa	1.7630	11000.	73	29802	No
24	GOM_TRA_1PNPDE20071112_022038_000000352063_00189_29802_3729.N1	12-NOV-2007 02:20:38	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	29802	No
25	GOM_TRA_1PNPDE20071112_022408_000000342063_00189_29802_3730.N1	12-NOV-2007 02:24:08	Bright	34.000	152	12Alp2CVn	2.8900	11000.	68	29802	No
26	GOM_TRA_1PNPDE20071112_023147_000000332063_00189_29802_3731.N1	12-NOV-2007 02:31:47	Bright	32.500	138	47Eps Vir	2.8280	4700.0	65	29802	No
27	GOM_TRA_1PNPDE20071112_024027_000000392063_00189_29802_3732.N1	12-NOV-2007 02:40:27	Twilight	39.000	100	4Gam Crv	2.5800	13100.	78	29802	No
28	GOM_TRA_1PNPDE20071112_024157_000000452063_00189_29802_3733.N1	12-NOV-2007 02:41:57	Twilight	44.500	171	2Eps Crv	3.0010	4250.0	89	29802	No
29	GOM_TRA_1PNPDE20071112_025043_000000432063_00189_29802_3734.N1	12-NOV-2007 02:50:43	Dark	42.500	26	Gam Cru	1.6240	2900.0	85	29802	No
30	GOM_TRA_1PNPDE20071112_025413_000000372063_00190_29803_3735.N1	12-NOV-2007 02:54:13	Dark	36.500	124	The Car	2.7640	30000.	73	29803	No
31	GOM_TRA_1PNPDE20071112_031228_000000392063_00190_29803_3736.N1	12-NOV-2007 03:12:28	Straylight	38.500	157	The1Eri	2.9060	9300.0	77	29803	No
32	GOM_TRA_1PNPDE20071112_033024_000000372063_00190_29803_3737.N1	12-NOV-2007 03:30:24	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	29803	No
33	GOM_TRA_1PNPDE20071112_033430_000000252063_00190_29803_3738.N1	12-NOV-2007 03:34:30	Twilight	25.000	173	4Bet Tri	3.0040	8900.0	50	29803	No
34	GOM_TRA_1PNPDE20071112_033634_000000382063_00190_29803_3739.N1	12-NOV-2007 03:36:34	Bright	37.500	73	57Gam1And	2.2600	13100.	75	29803	No
35	GOM_TRA_1PNPDE20071112_034041_000000372063_00190_29803_3740.N1	12-NOV-2007 03:40:41	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	29803	No
36	GOM_TRA_1PNPDE20071112_034944_000000342063_00190_29803_3741.N1	12-NOV-2007 03:49:44	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	29803	No
37	GOM_TRA_1PNPDE20071112_035359_000000372063_00190_29803_3920.N1	12-NOV-2007 03:53:59	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	29803	No
38	GOM_TRA_1PNPDE20071112_035941_000000362063_00190_29803_3921.N1	12-NOV-2007 03:59:41	Bright	36.000	32	77Eps UMa	1.7630	11000.	72	29803	No
39	GOM_TRA_1PNPDE20071112_040114_000000332063_00190_29803_3922.N1	12-NOV-2007 04:01:14	Bright	33.000	39	85Eta UMa	1.8540	24000.	66	29803	No
40	GOM_TRA_1PNPDE20071112_040444_000000332063_00190_29803_3923.N1	12-NOV-2007 04:04:44	Bright	33.000	152	12Alp2CVn	2.8900	11000.	66	29803	No
41	GOM_TRA_1PNPDE20071112_041223_000000332063_00190_29803_3924.N1	12-NOV-2007 04:12:23	Bright	32.500	138	47Eps Vir	2.8280	4700.0	65	29803	No
42	GOM_TRA_1PNPDE20071112_042104_000000402063_00190_29803_3925.N1	12-NOV-2007 04:21:04	Twilight	39.500	100	4Gam Crv	2.5800	13100.	79	29803	No
43	GOM_TRA_1PNPDE20071112_042233_000000422063_00190_29803_3926.N1	12-NOV-2007 04:22:33	Twilight	42.000	171	2Eps Crv	3.0010	4250.0	84	29803	No
44	GOM_TRA_1PNPDE20071112_042901_000000402063_00190_29803_3927.N1	12-NOV-2007 04:29:01	Dark	39.500	64	Gam Cen	2.2000	10600.	79	29803	No
45	GOM_TRA_1PNPDE20071112_043119_000000432063_00190_29803_3928.N1	12-NOV-2007 04:31:19	Dark	42.500	26	Gam Cru	1.6240	2900.0	85	29803	No
46	GOM_TRA_1PNPDE20071112_043450_000000362063_00191_29804_3929.N1	12-NOV-2007 04:34:50	Dark	36.000	124	The Car	2.7640	30000.	72	29804	No
47	GOM_TRA_1PNPDE20071112_045304_000000382063_00191_29804_3930.N1	12-NOV-2007 04:53:04	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	29804	No

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



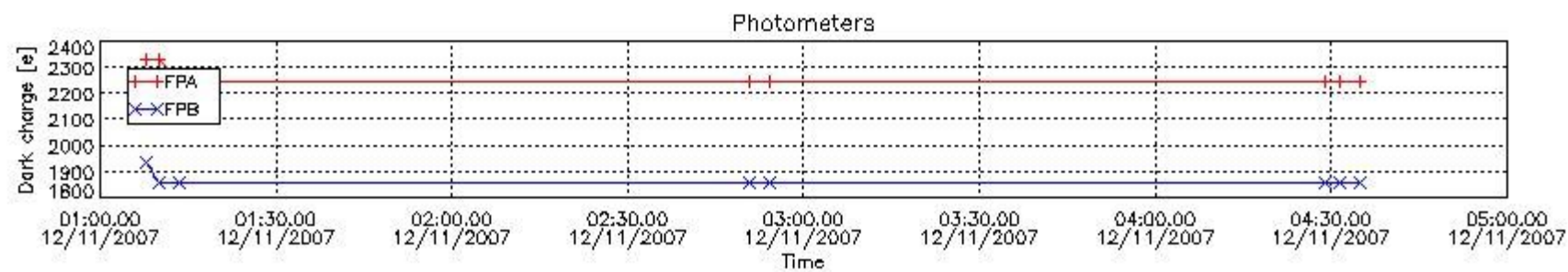
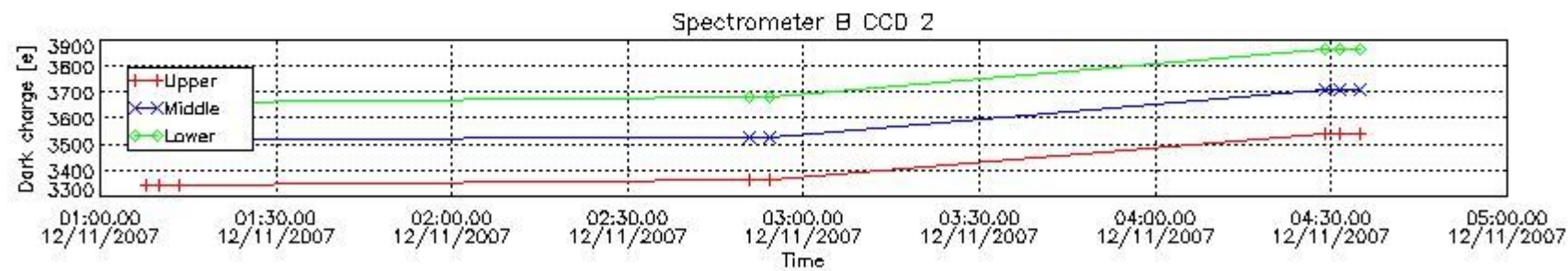
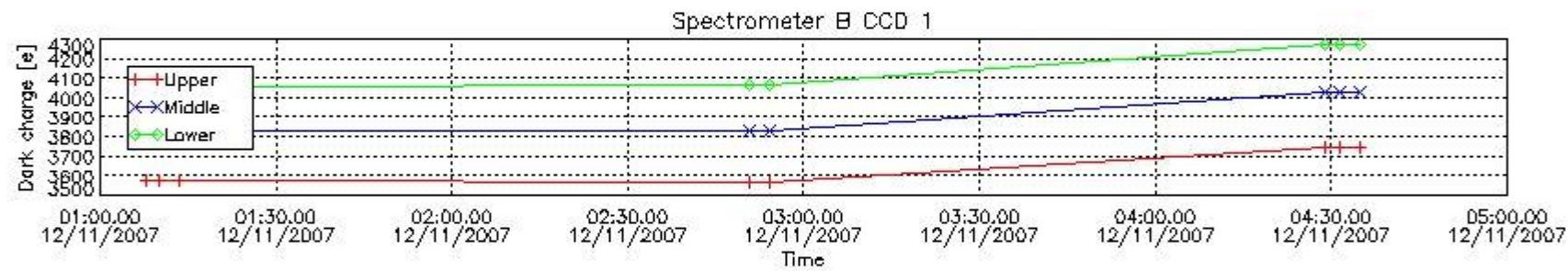
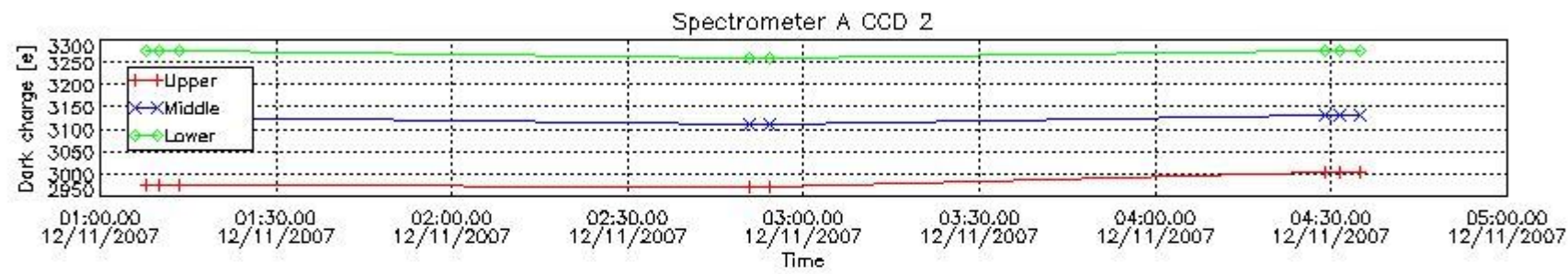
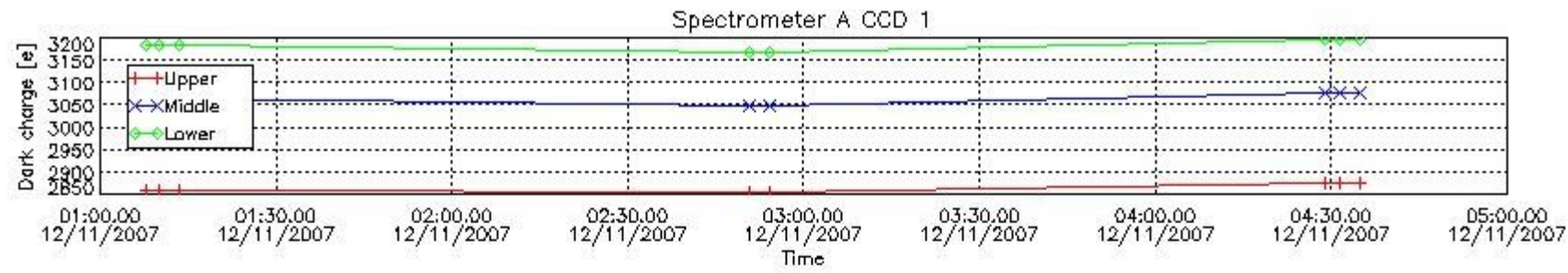
4. Overview of dark signal processing per product

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



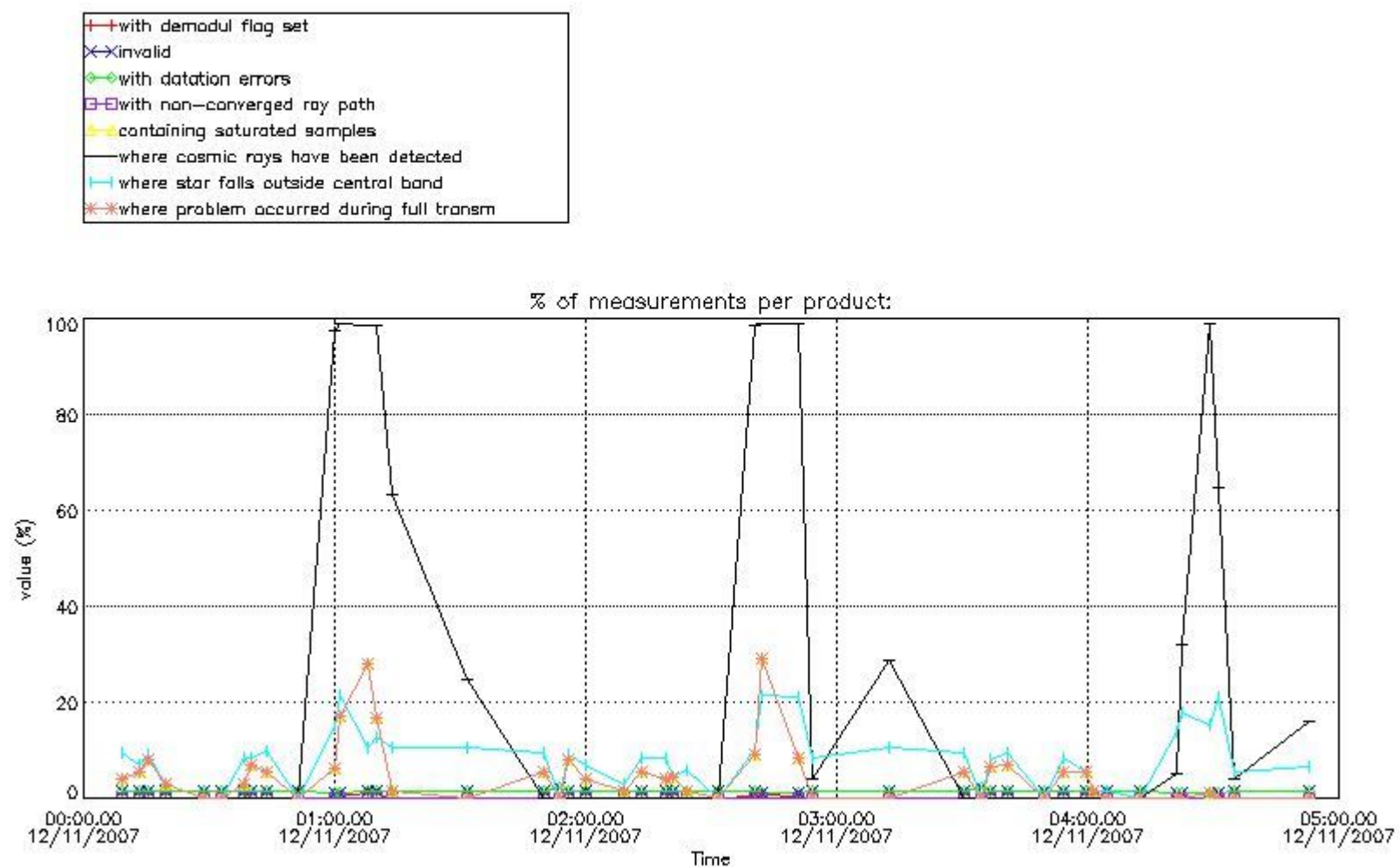
5. Demodulation flag and quality information monitoring

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.

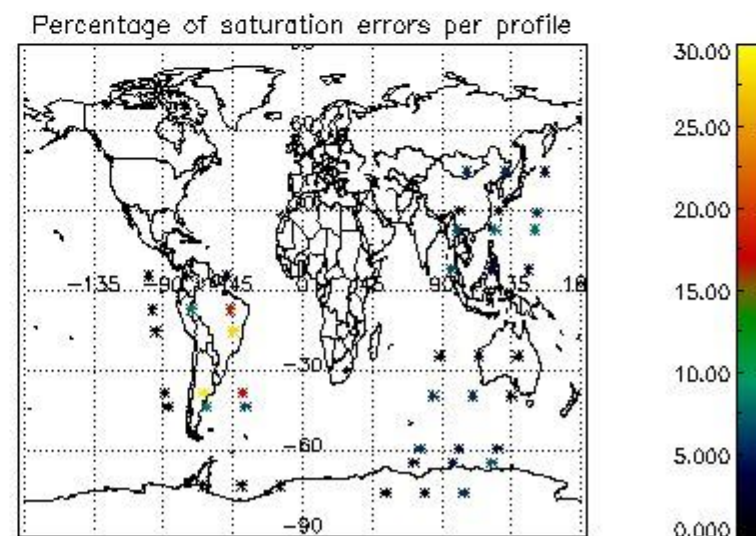
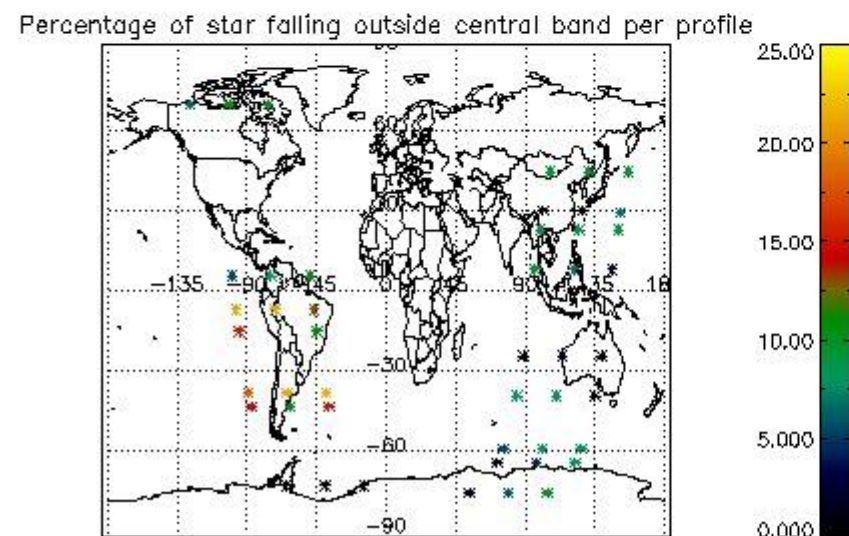
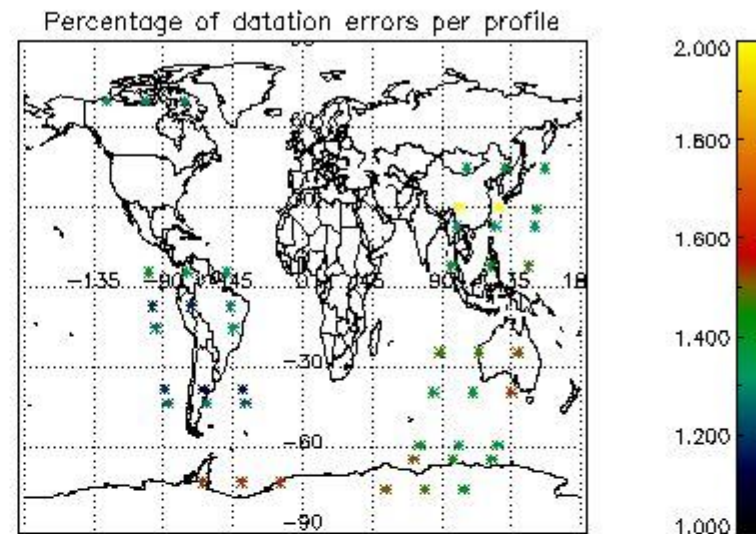
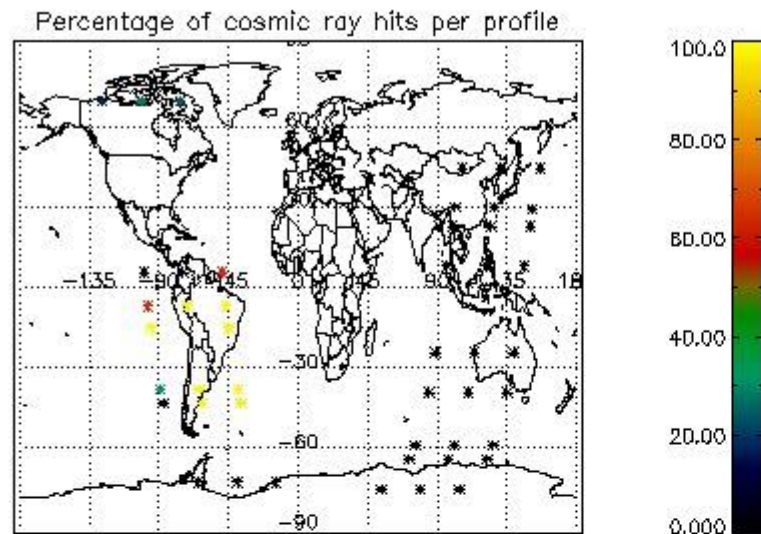
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	21.2766 %
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)



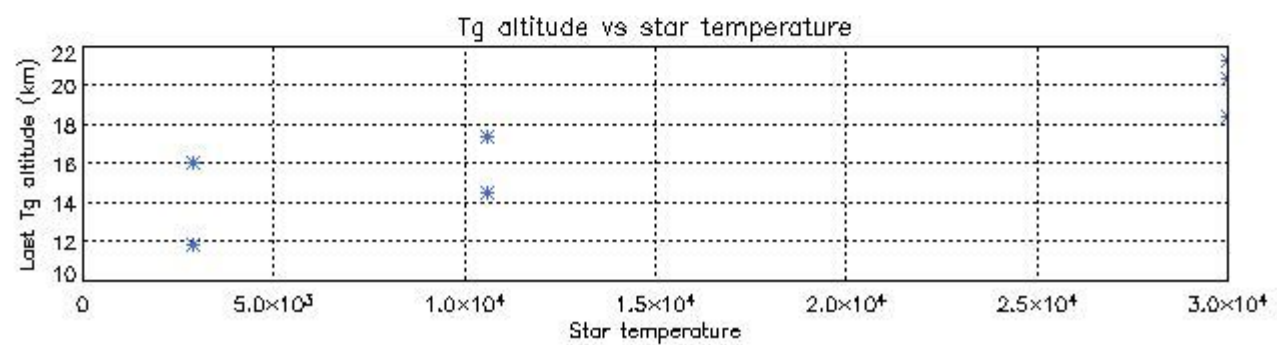
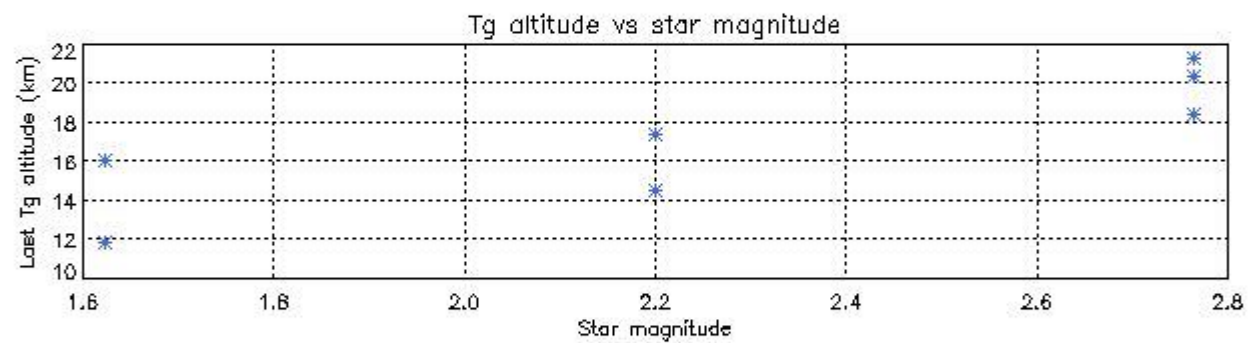
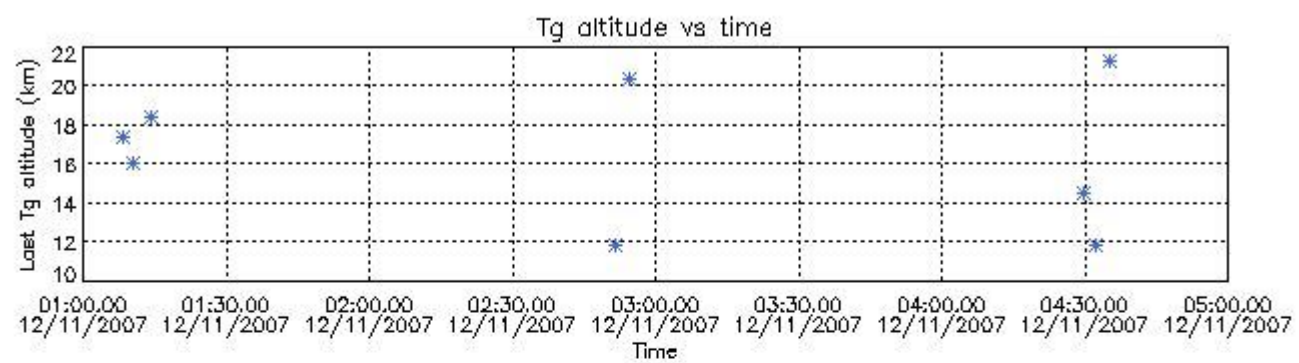
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.456	22.246	11.404
St. deviation:	3.5702	3.4435	1.1376
Maximum:	21.291	27.491	12.700
Minimum:	11.831	18.124	10.570
Number of data:	8.0000	28.000	3.0000

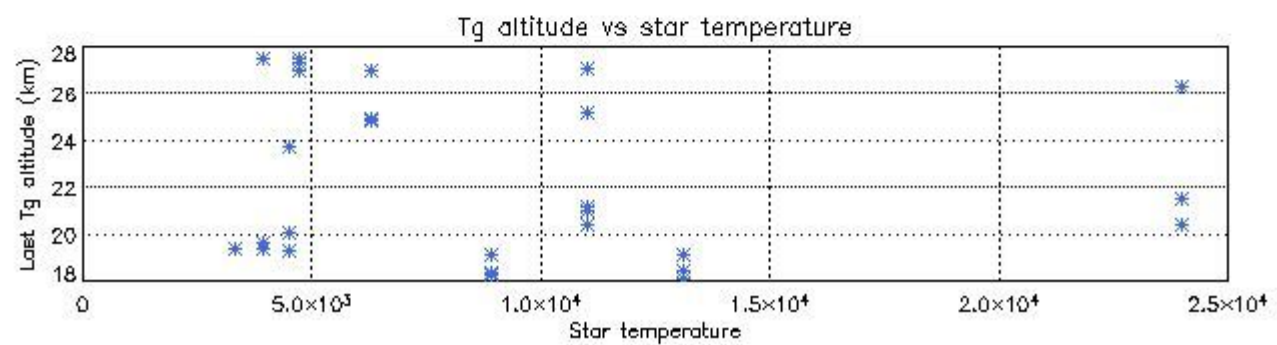
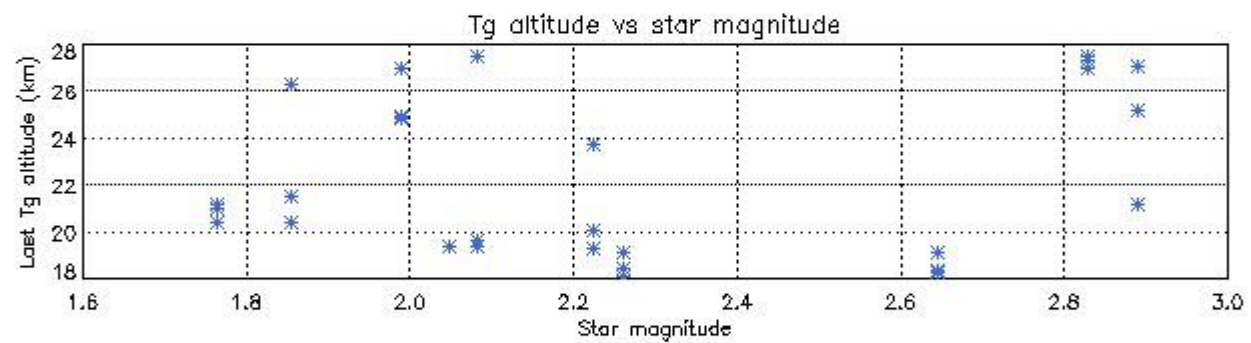
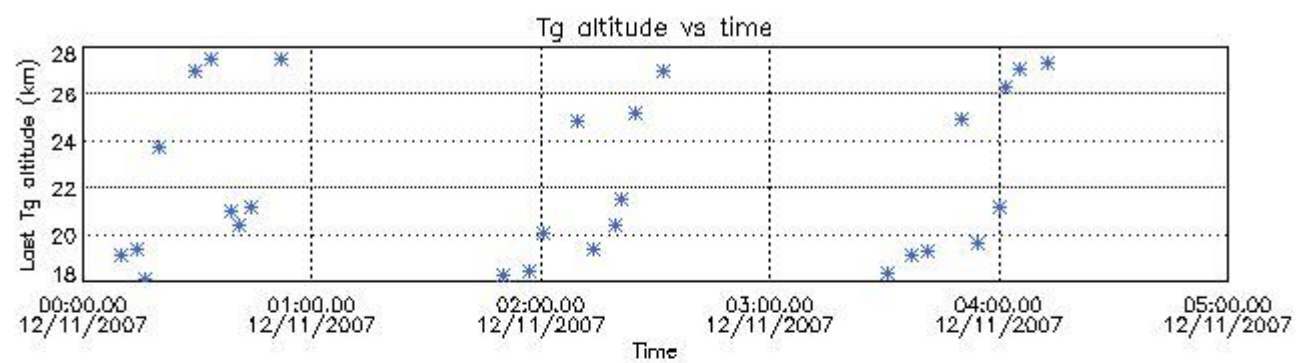
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



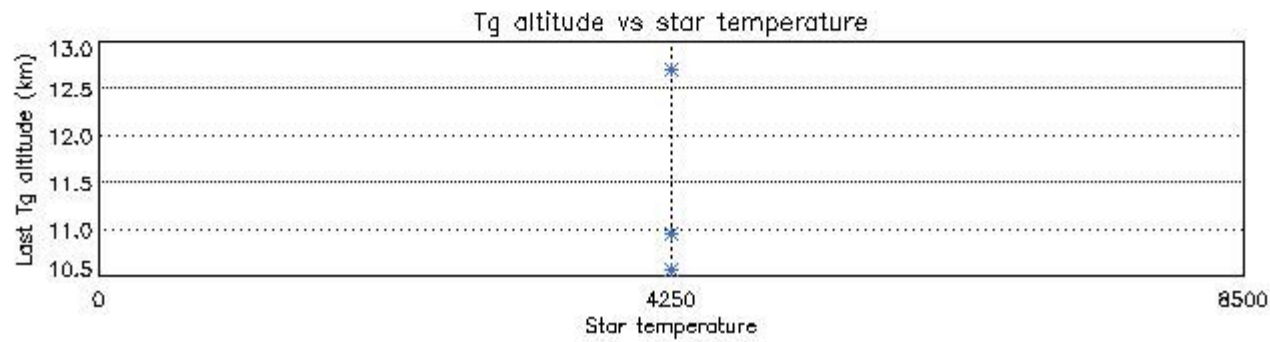
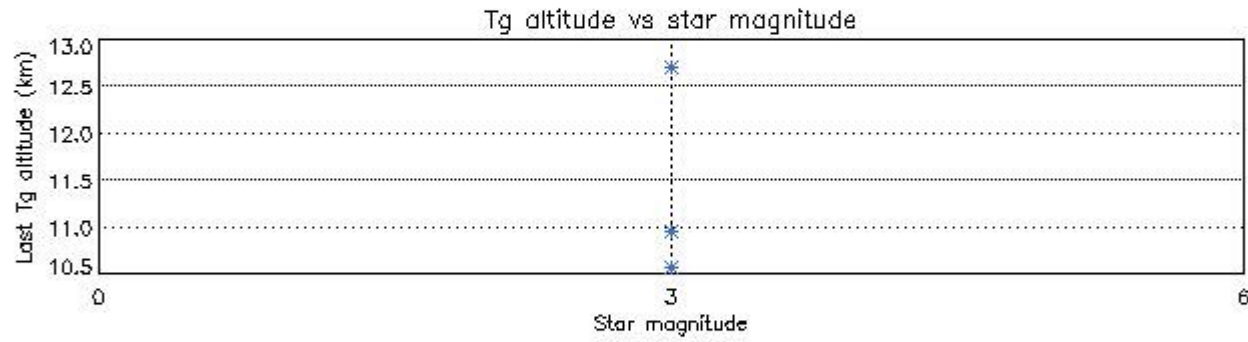
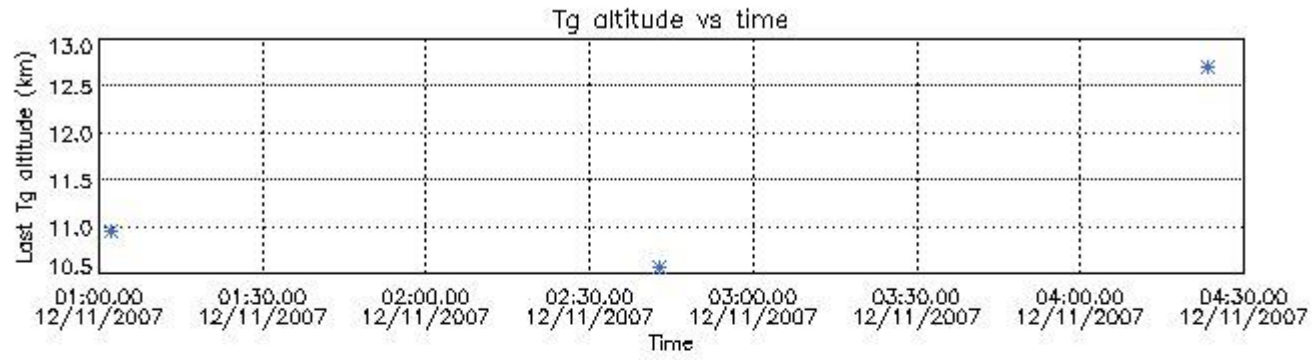
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

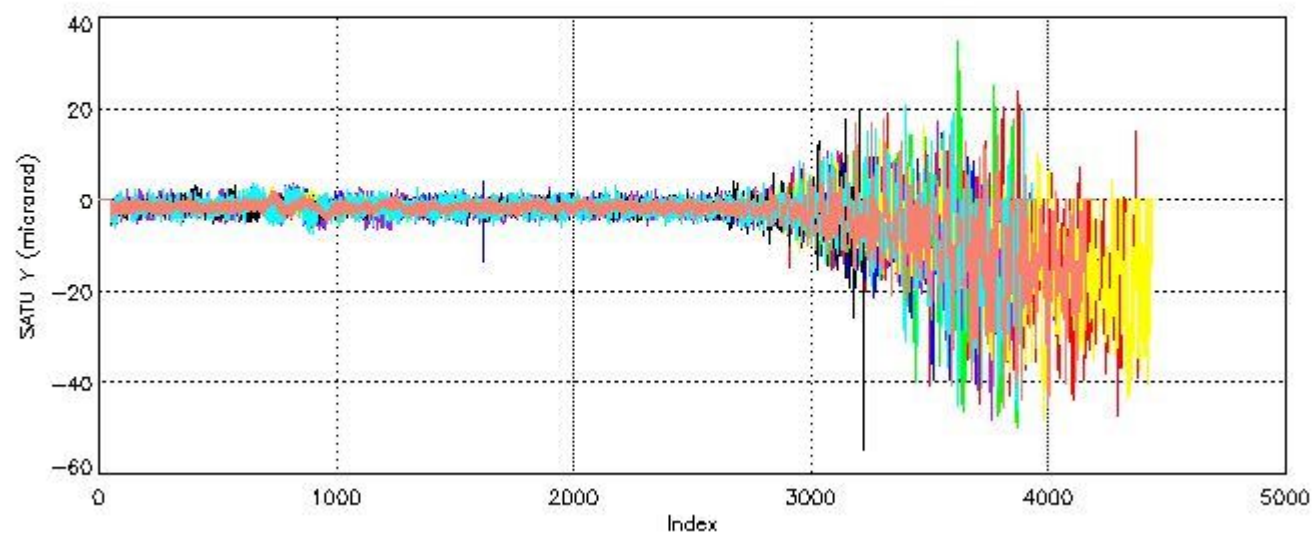
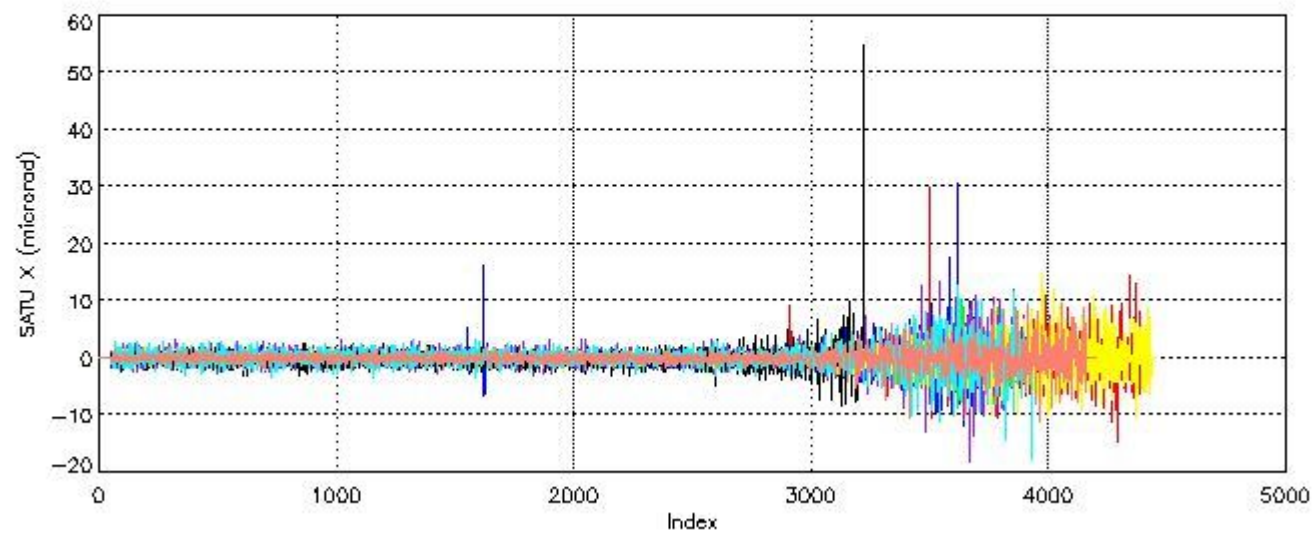


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.13297	-1.3779	-0.042871	-1.3405
St. deviation:	0.66017	1.2076	0.72015	1.2208
Maximum:	4.7000	4.2000	6.0000	7.6000
Minimum:	-4.4000	-7.2000	-6.1000	-8.2000

Number of data:	6750.0	6750.0	22650.	22650.
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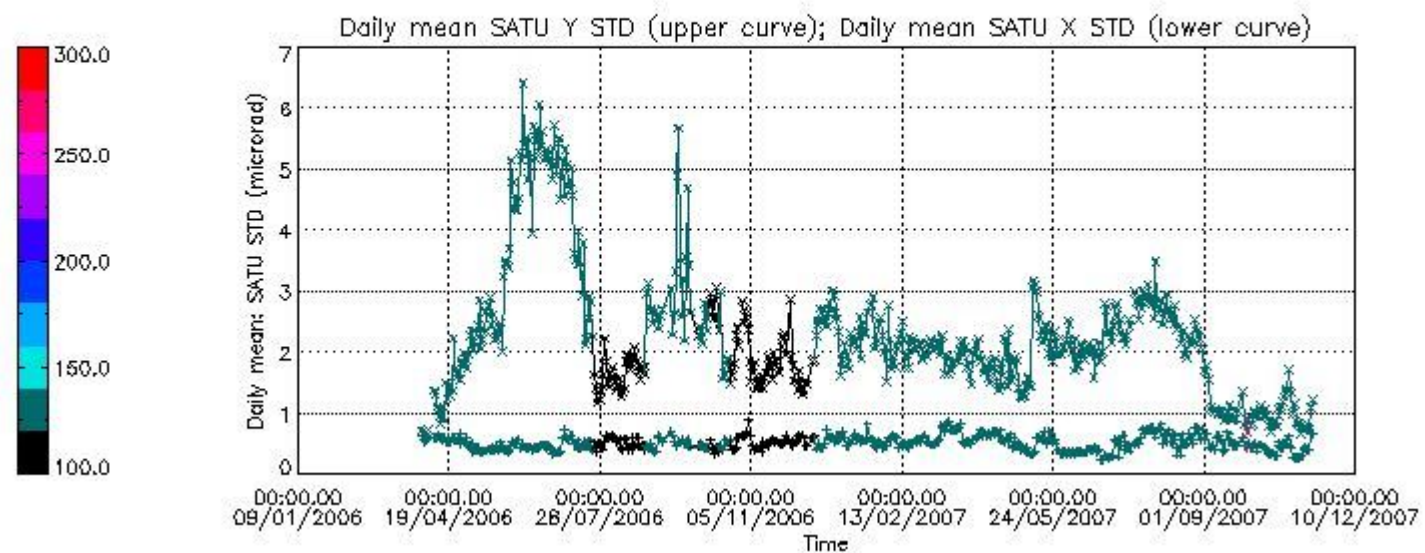
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

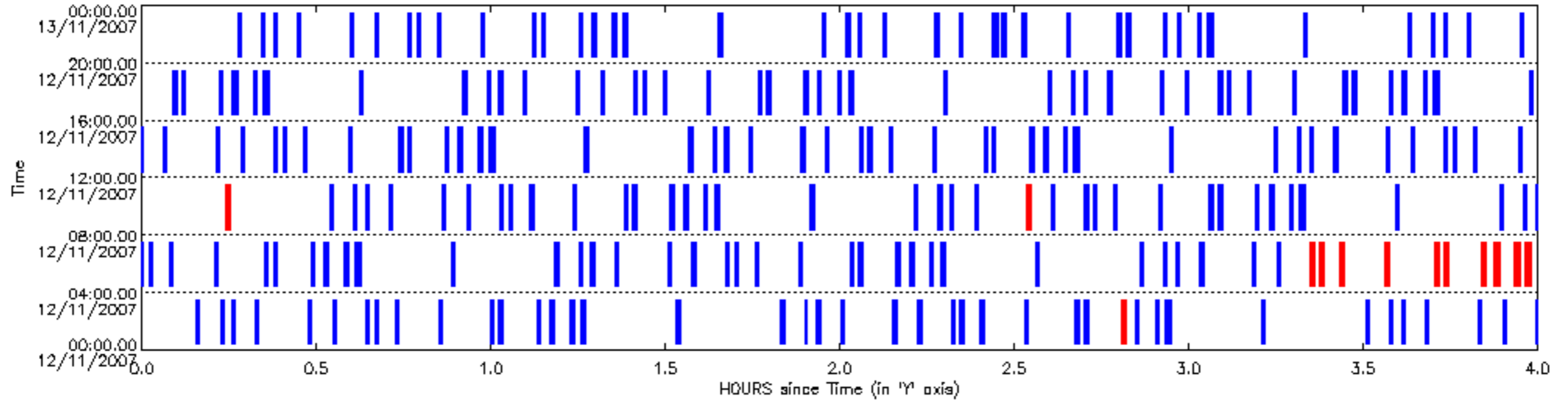
Lower curve: STD of SATU X axis

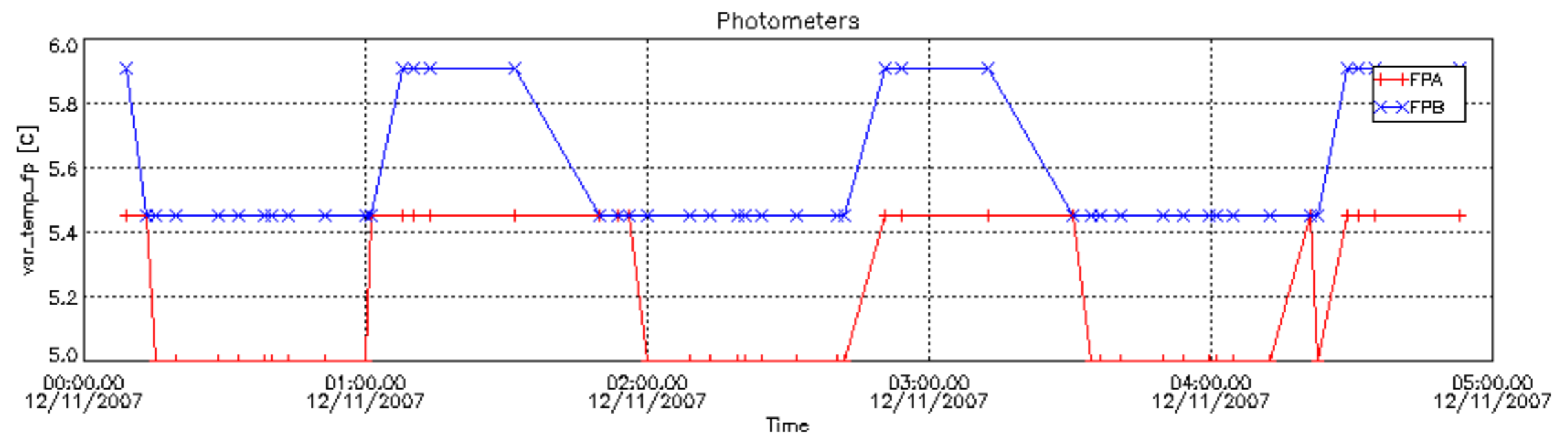
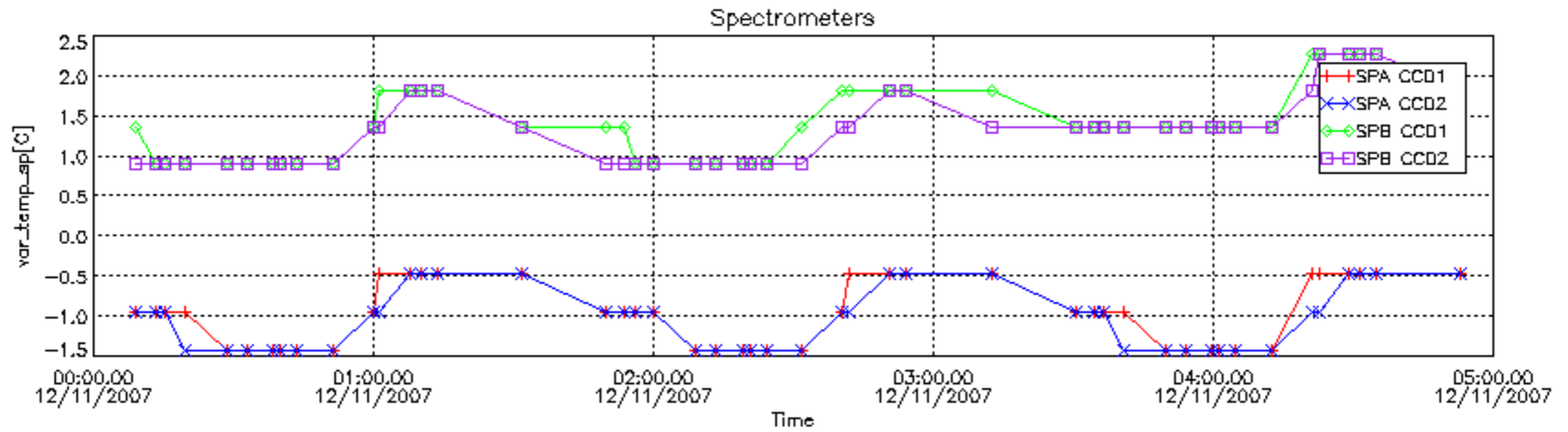


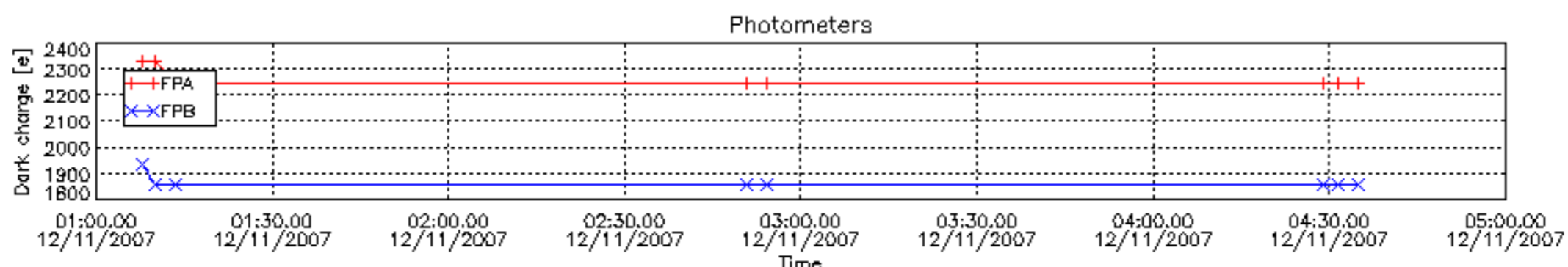
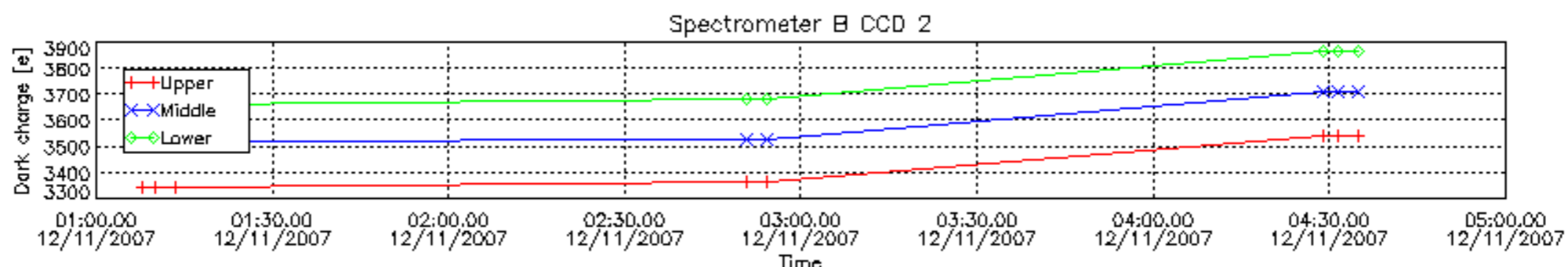
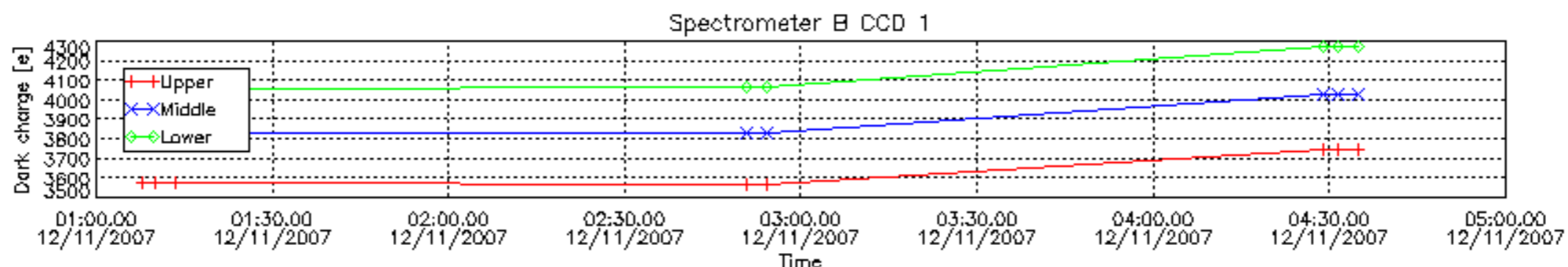
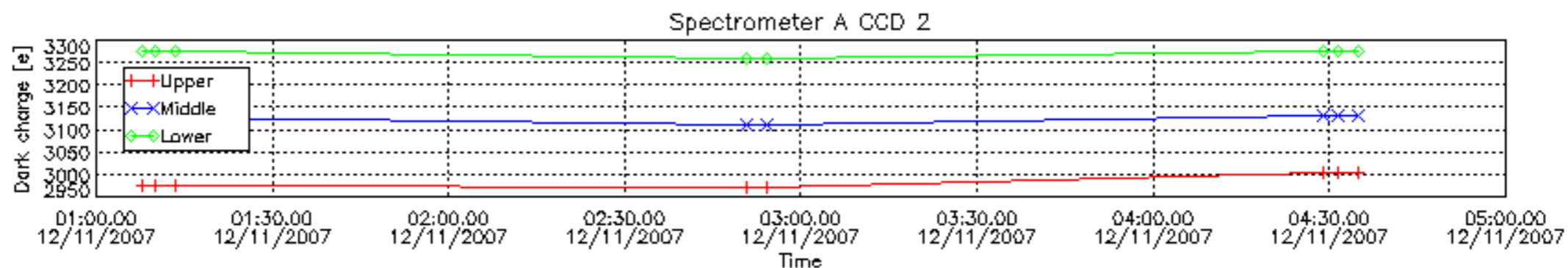
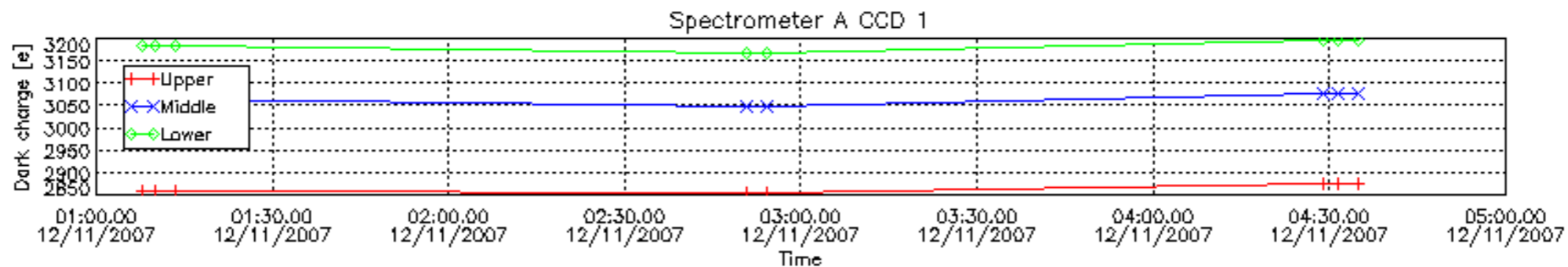
8. Auxiliary Data Files used for the production reported in section 2.4

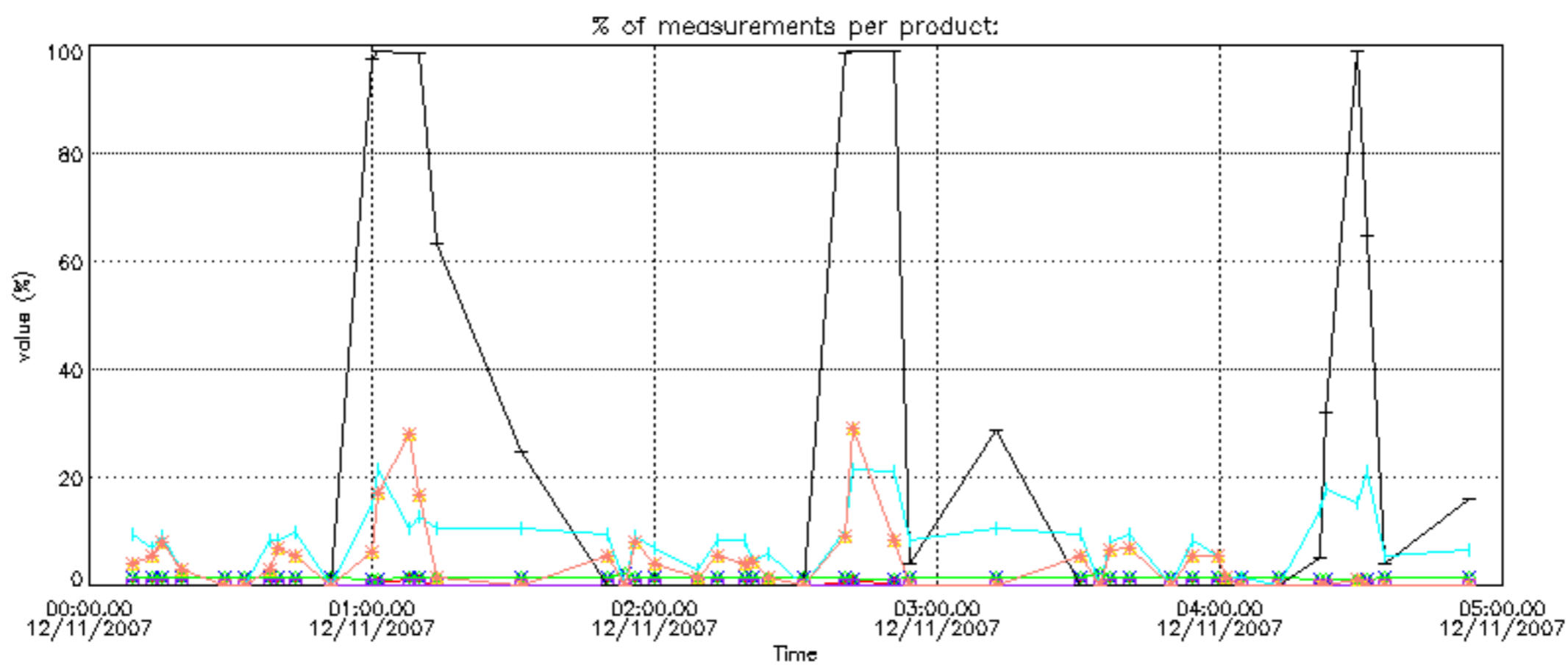
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	12-NOV-2007 00:09:12
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071029_132344_20071028_000000_20100101_000000	1	12-NOV-2007 00:09:12
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	12-NOV-2007 00:09:12
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-NOV-2007 00:09:12
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	12-NOV-2007 00:09:12
ECMWF_FILE	AUX_ECF_AXNECM20071111_063112_20071111_210000_20071112_090000	1	12-NOV-2007 00:09:12
ECMWF_FILE	AUX_ECF_AXNECM20071111_183113_20071112_030000_20071112_150000	37	12-NOV-2007 03:53:59
OPTIONAL_ECMWF_FILE	MISSING	1	12-NOV-2007 00:09:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071111_213625_000057382063_00186_29799_4541.N1	1	12-NOV-2007 00:09:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071111_231722_000057382063_00187_29800_4542.N1	12	12-NOV-2007 01:01:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071112_005819_000041442063_00188_29801_4543.N1	22	12-NOV-2007 02:13:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071112_021242_000057382063_00189_29802_4544.N1	37	12-NOV-2007 03:53:59

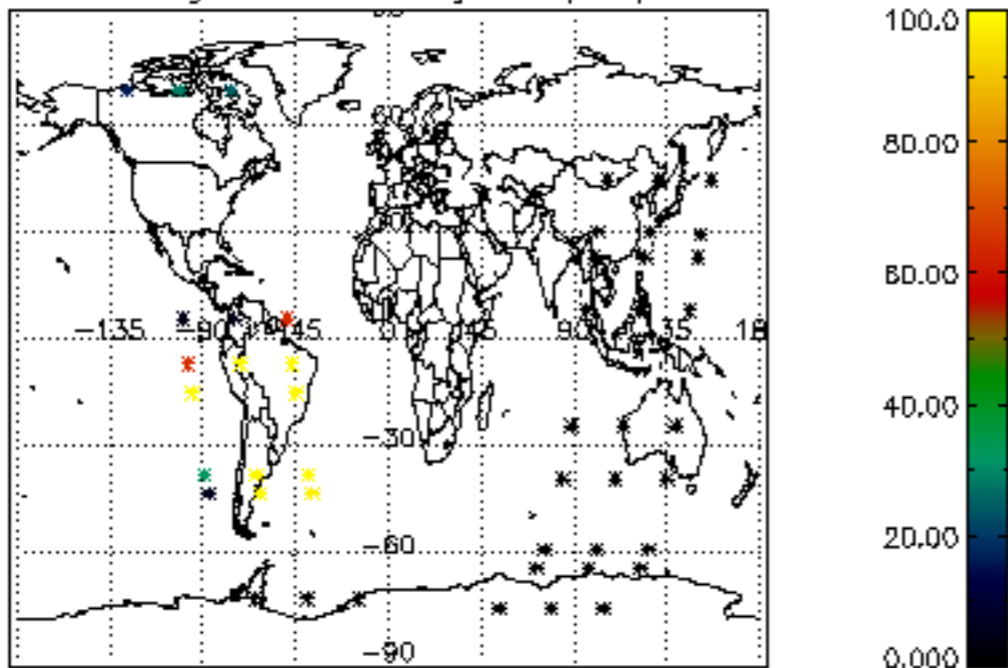




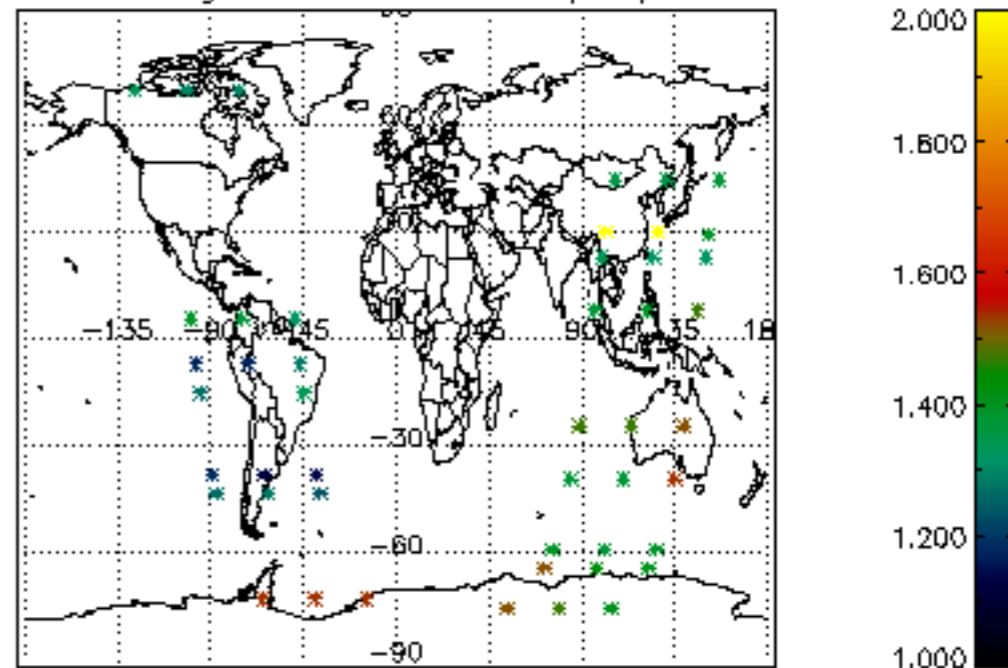




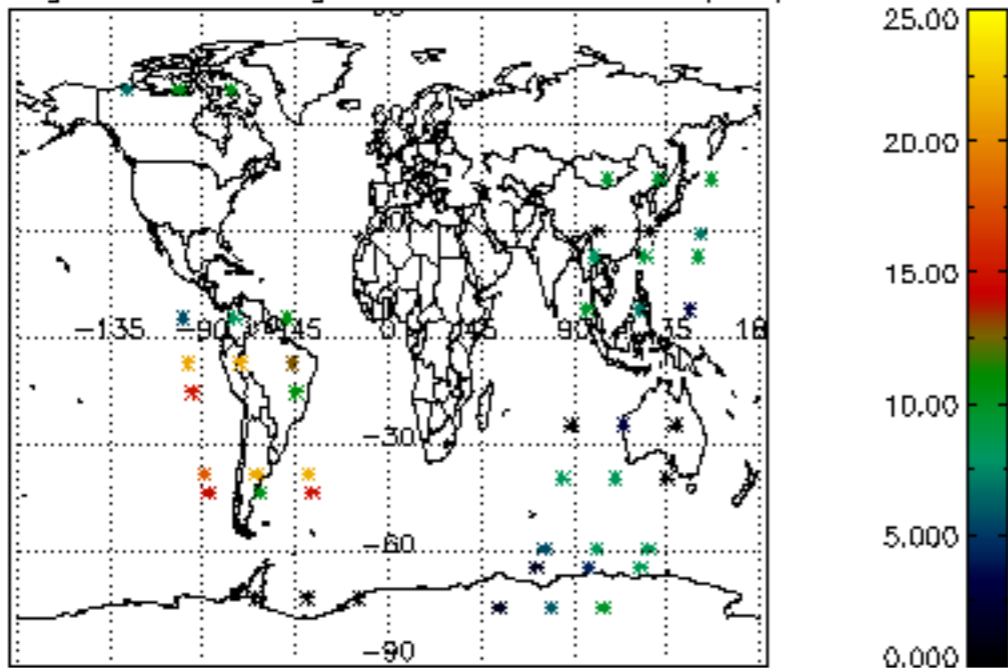
Percentage of cosmic ray hits per profile



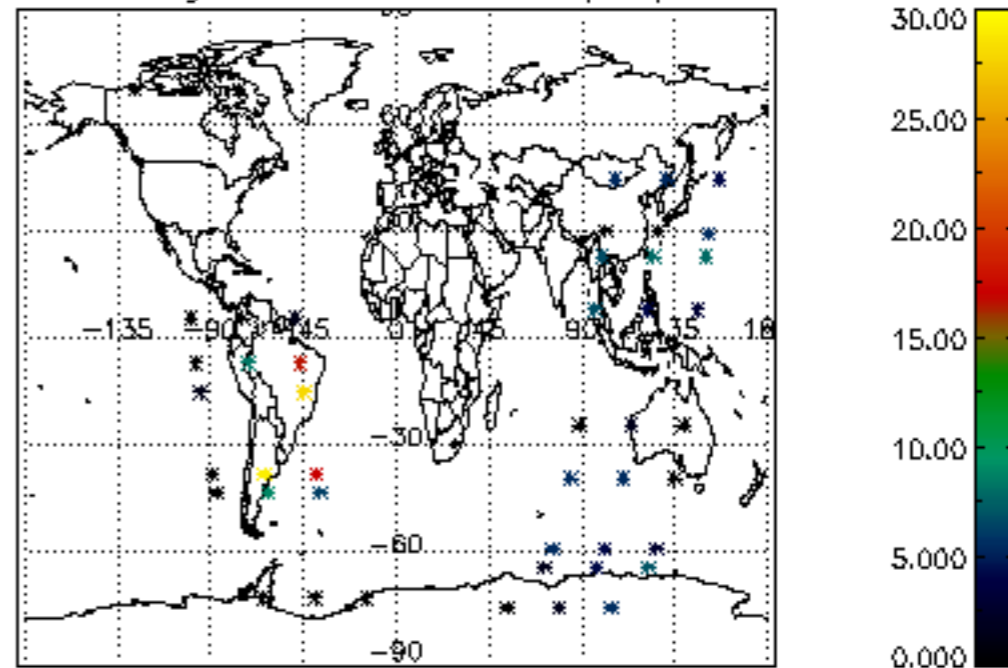
Percentage of datation errors per profile



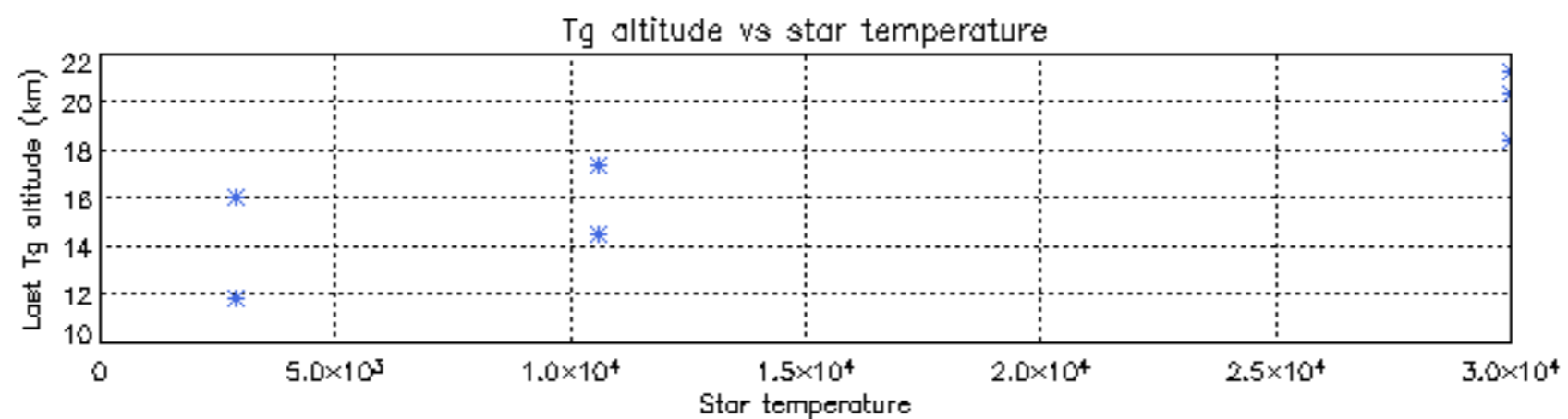
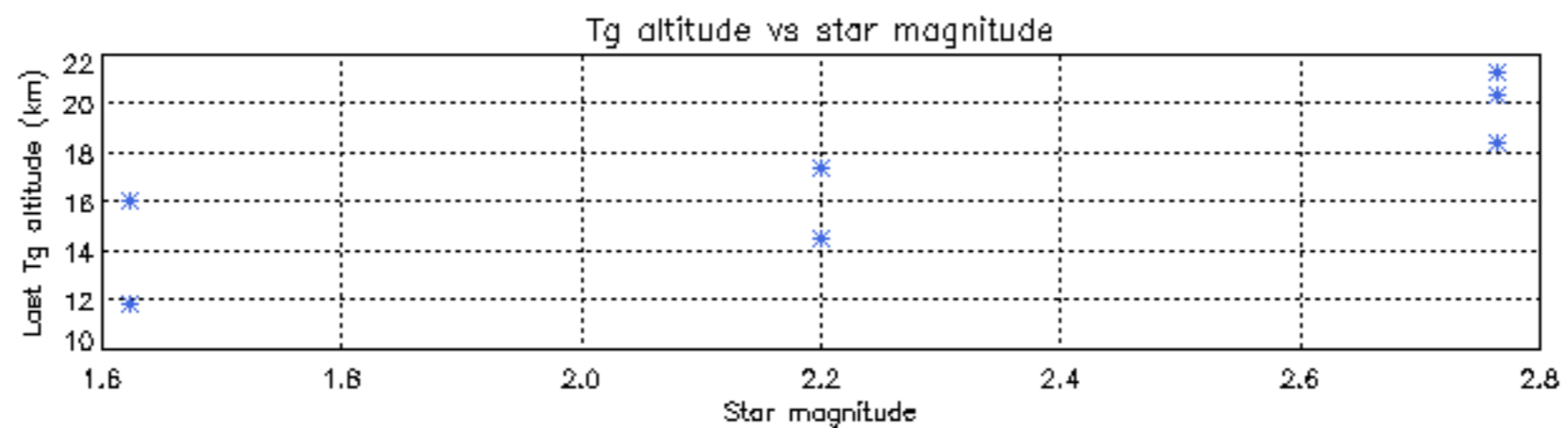
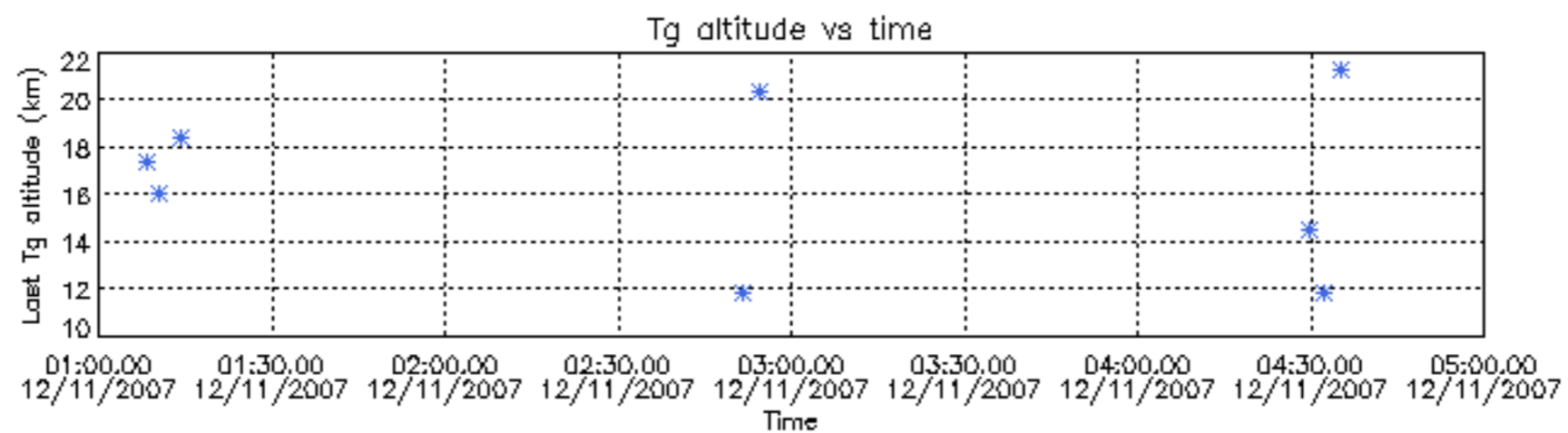
Percentage of star falling outside central band per profile



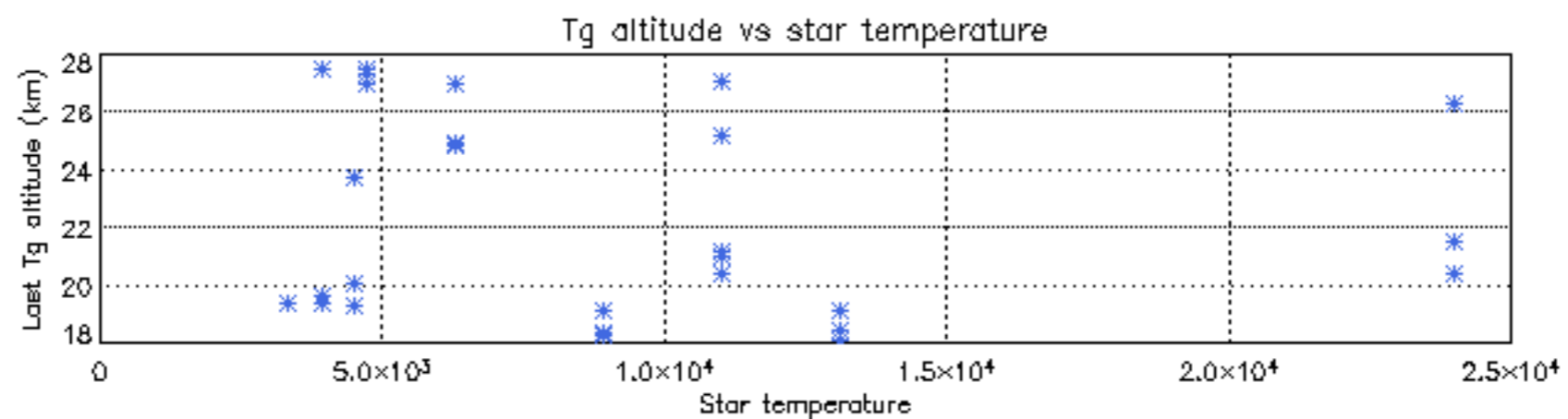
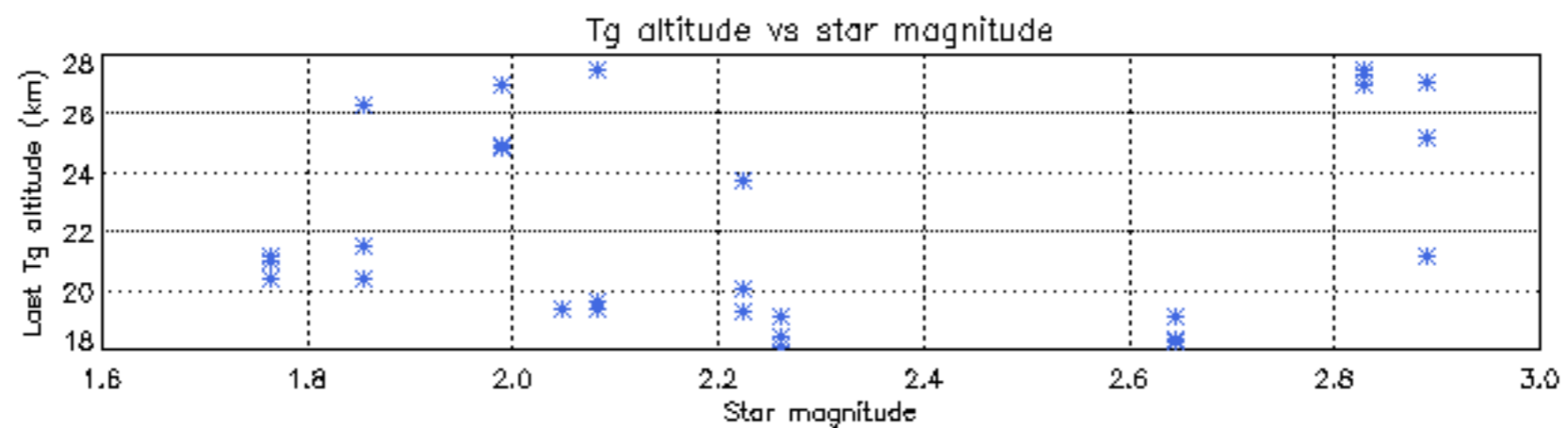
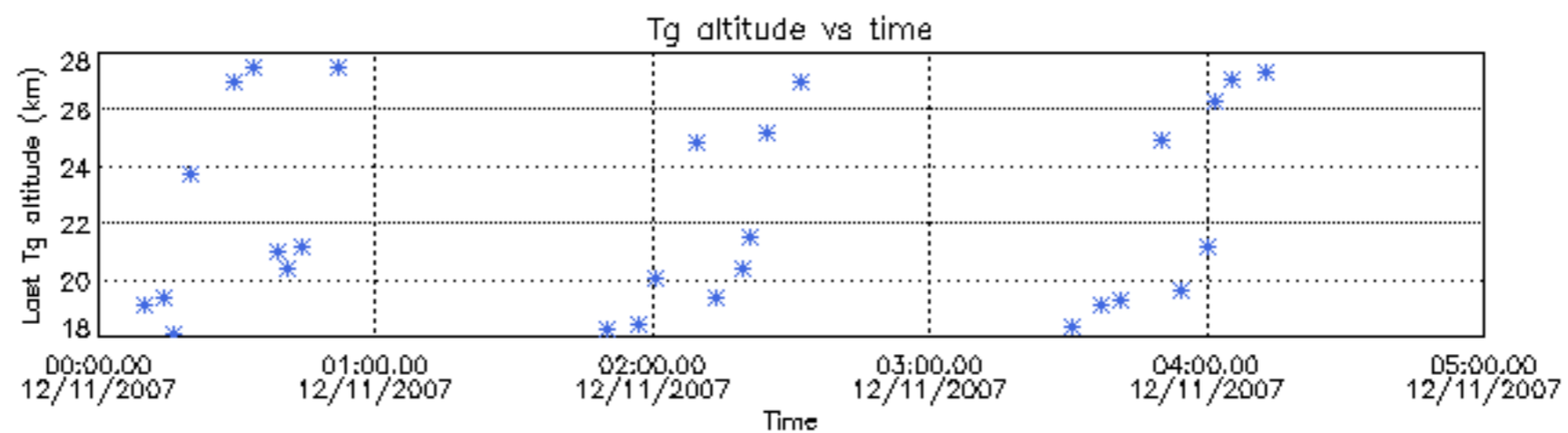
Percentage of saturation errors per profile



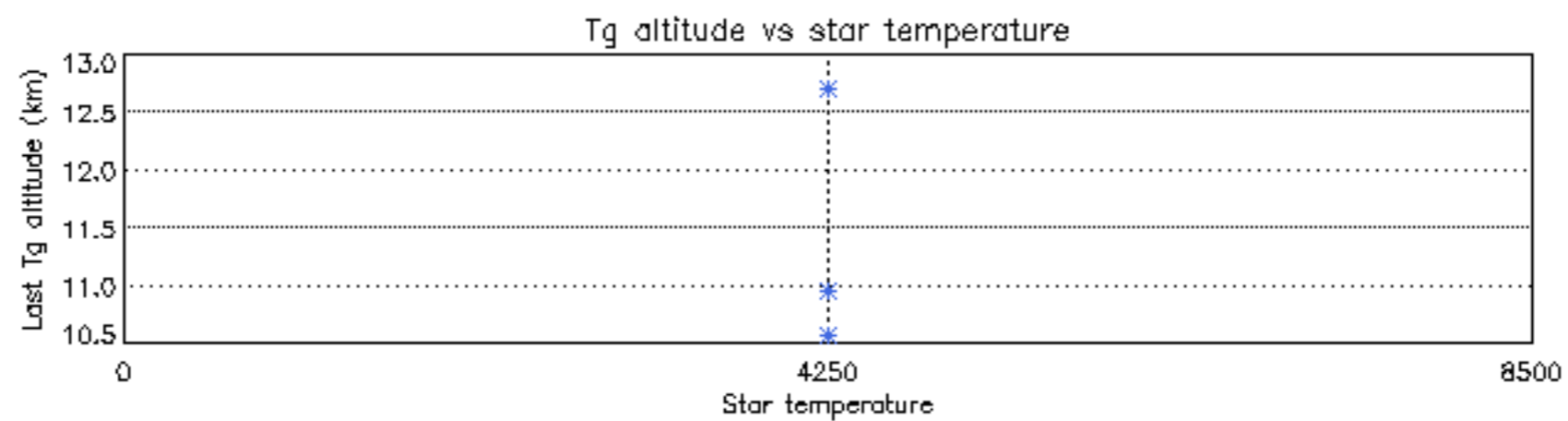
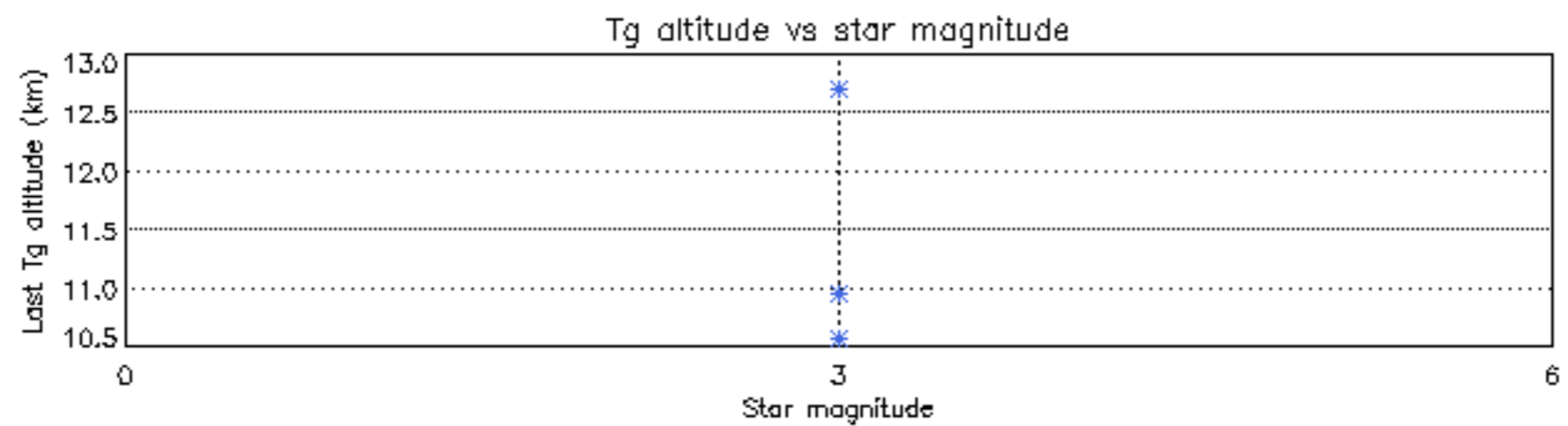
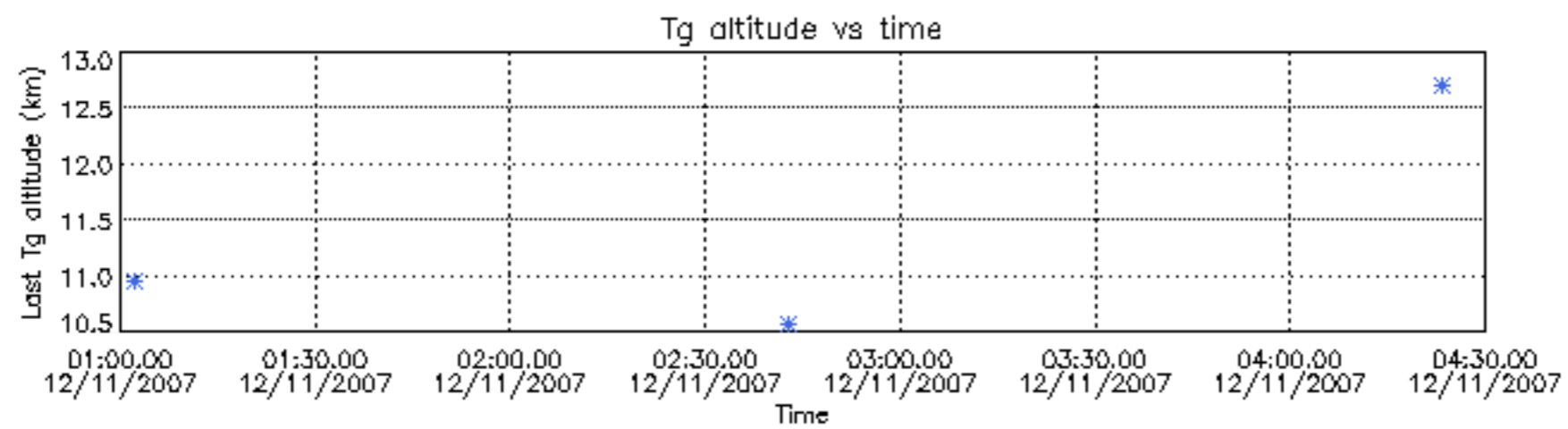
Tangent altitude at which the star is lost

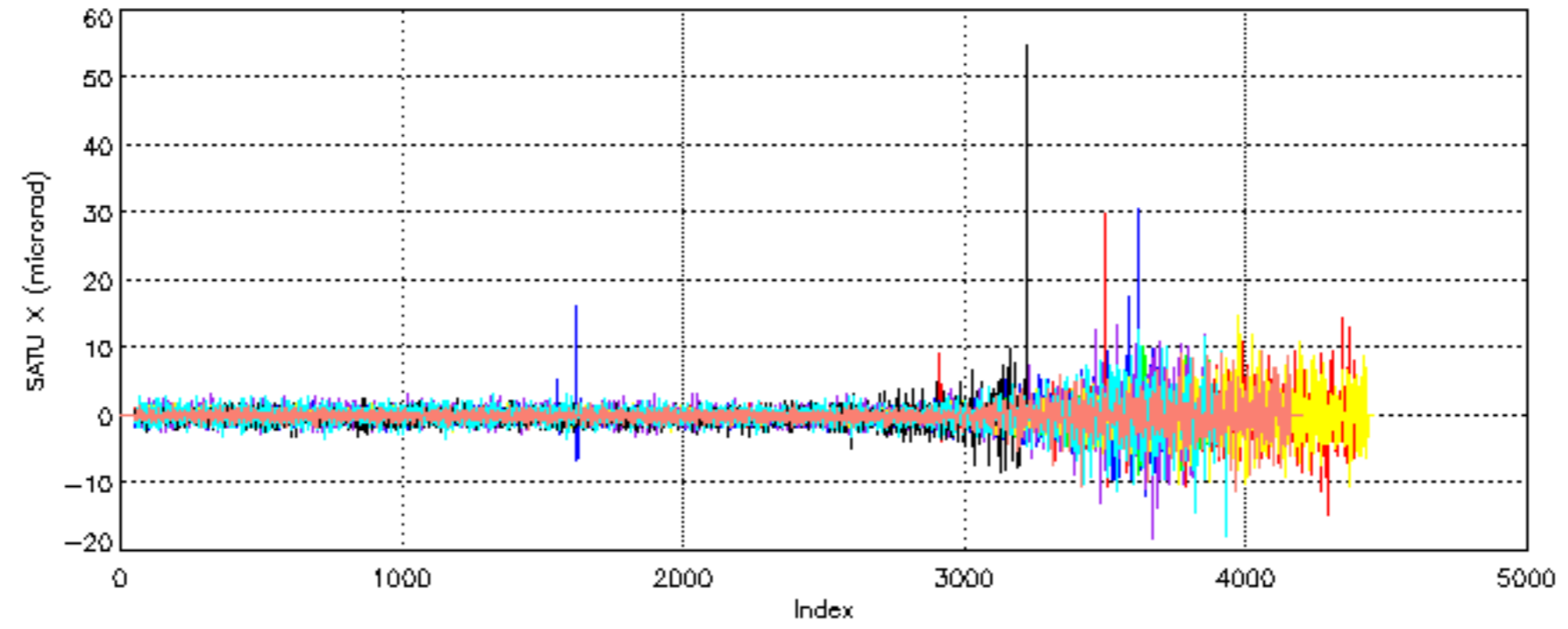


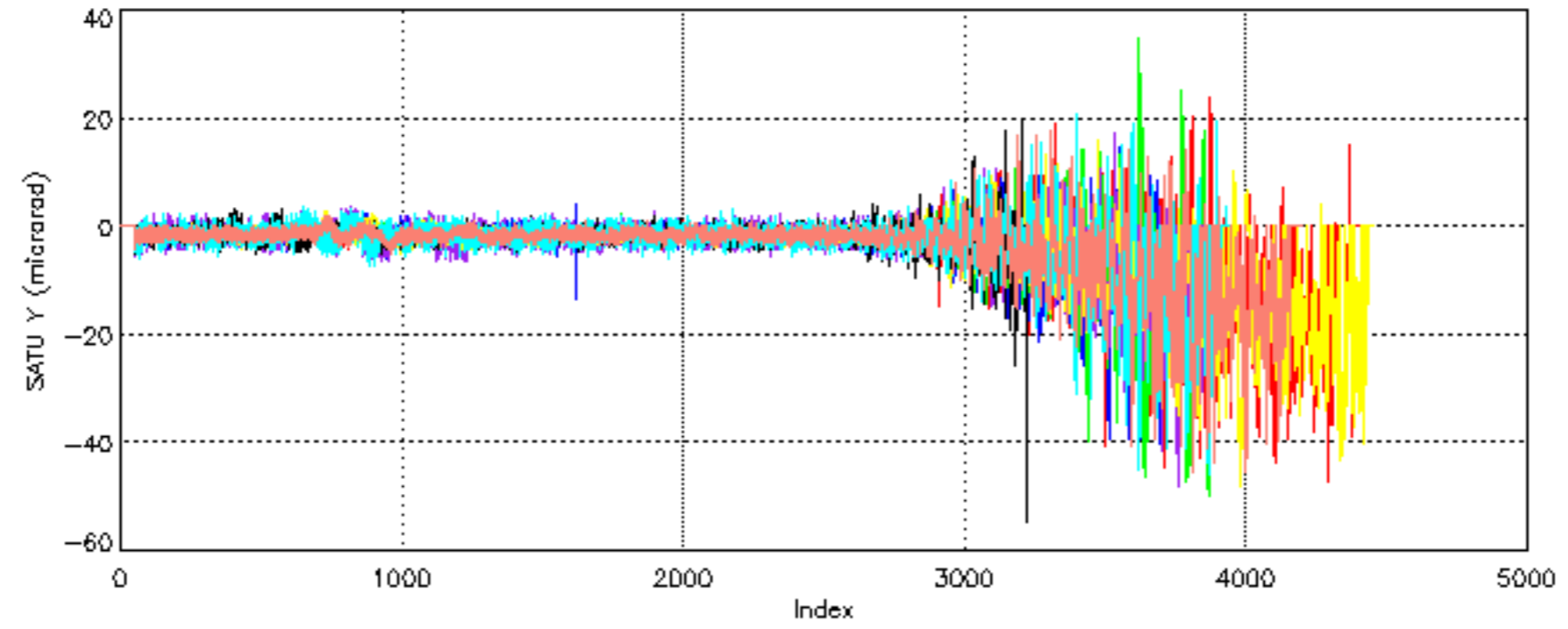
Tangent altitude at which the star is lost

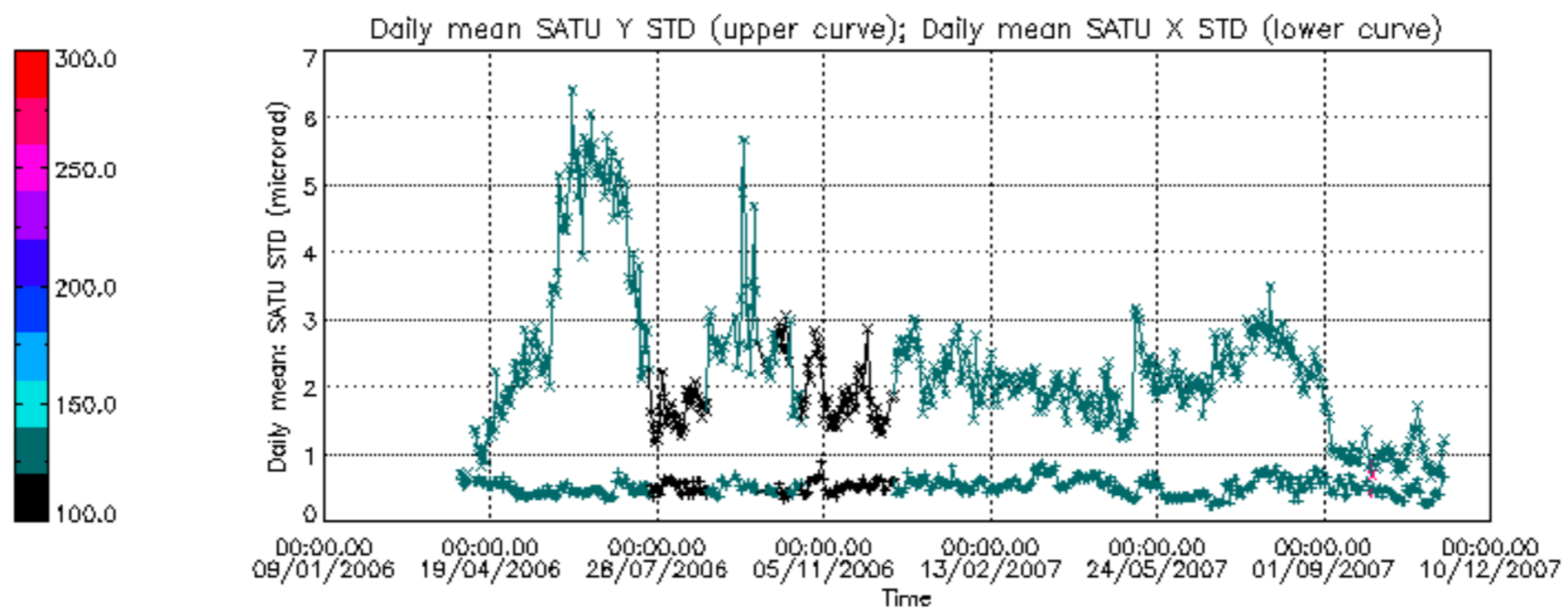


Tangent altitude at which the star is lost









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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
 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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 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
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 8; 2514.7; 01-NOV-2007 02:40:00; Bright; 35.5; 53; 43Bet And ; 2.05; 3300;occ; 71; 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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 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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 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
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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
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 3;-1806.6; 01-NOV-2007 04:49:11; Bright; 56.0; 174; 52Psi UMa ; 3.00; 4400;occ; 112; 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
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 9; 521.5; 01-NOV-2007 05:27:59; Dark ; 63.0; 2; Alp Car ;-0.74; 7000;occ; 126; 0;29647
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 2; 2272.6; 01-NOV-2007 21:02:34; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;29656
 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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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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3; -1806.4; 01-NOV-2007 06:29:47; Bright; 37.0; 174; 52Psi UMA ; 3.00; 4400;occ; 74; 0;29647
4; -1363.6; 01-NOV-2007 06:37:10; Bright; 45.5; 96; 68Del Leo ; 2.56; 9300;occ; 91; 0;29647
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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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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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6;	2938.8;	01-NOV-2007	19:33:04;	Bright;	;	36.0;	76;	27Gam Cas	;	2.30;	30000;occ;	72;	0;	29655
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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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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
11;	2938.6;	02-NOV-2007	02:15:27;	Bright;	;	36.0;	76;	27Gam Cas	;	2.30;	30000;occ;	72;	0;	29659
12;	3423.5;	02-NOV-2007	02:23:32;	Bright;	;	34.5;	49;	1Alp UMi	;	1.99;	6300;occ;	69;	0;	29659

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2;	-2027.9;	02-NOV-2007	02:33:17;	Bright;	;	39.0;	82;	48Bet UMa	;	2.37;	10600;occ;	78;	0;	29659
3;	-1806.2;	02-NOV-2007	02:36:58;	Bright;	;	37.5;	174;	52Psi UMa	;	3.00;	4400;occ;	75;	0;	29659

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6; 142.1; 02-NOV-2007 03:09:27; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29660
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8; 356.3; 02-NOV-2007 03:13:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29660
9; 531.5; 02-NOV-2007 03:15:56; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;29660
10; 1144.5; 02-NOV-2007 03:26:09; Dark ; 38.5; 157; The1Eri ; 2.91; 9300;occ; 77; 0;29660
11; 2272.2; 02-NOV-2007 03:44:57; Bright; 37.0; 105; 6Bet Ari ; 2.64; 8900;occ; 74; 0;29660
12; 2514.4; 02-NOV-2007 03:48:59; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29660
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14; 2868.0; 02-NOV-2007 03:54:53; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29660
15; 2938.6; 02-NOV-2007 03:56:03; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29660
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2;-2028.0; 02-NOV-2007 04:13:53; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;29660
3;-1806.2; 02-NOV-2007 04:17:34; Bright; 38.0; 174; 52Psi UMA ; 3.00; 4400;occ; 76; 0;29660
4;-1360.1; 02-NOV-2007 04:25:01; Bright; 37.0; 96; 68Del Leo ; 2.56; 9300;occ; 74; 0;29660
5; -10.8; 02-NOV-2007 04:47:30; Dark ; 55.0; 65; Lam Vel ; 2.20; 4400;occ; 110; 0;29660
6; 142.7; 02-NOV-2007 04:50:03; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;29661
7; 222.5; 02-NOV-2007 04:51:23; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;29661
8; 357.2; 02-NOV-2007 04:53:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29661
9; 532.3; 02-NOV-2007 04:56:33; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;29661
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11; 2272.0; 02-NOV-2007 05:25:33; Bright; 38.0; 105; 6Bet Ari ; 2.64; 8900;occ; 76; 0;29661
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13; 2658.4; 02-NOV-2007 05:31:59; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;29661
14; 2867.9; 02-NOV-2007 05:35:29; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;29661
15; 2938.6; 02-NOV-2007 05:36:39; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29661
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3; 2514.0; 02-NOV-2007 20:34:58; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29670
4; 2655.9; 02-NOV-2007 20:37:20; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;29670
5; 2868.2; 02-NOV-2007 20:40:52; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;29670
6; 2938.4; 02-NOV-2007 20:42:02; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29670
7; 3423.6; 02-NOV-2007 20:50:08; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29670
8; 3910.3; 02-NOV-2007 20:58:14; Bright; 39.5; 36; 50Alp UMA ; 1.80; 6300;occ; 79; 0;29670
9; 4007.1; 02-NOV-2007 20:59:51; Bright; 38.0; 82; 48Bet UMA ; 2.37; 10600;occ; 76; 0;29670
10; 4229.7; 02-NOV-2007 21:03:34; Bright; 38.0; 174; 52Psi UMA ; 3.00; 4400;occ; 76; 0;29670
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2; 149.4; 02-NOV-2007 21:36:09; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;29672
3; 228.5; 02-NOV-2007 21:37:28; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;29672
4; 366.6; 02-NOV-2007 21:39:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29672
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6; 1148.1; 02-NOV-2007 21:52:48; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29672
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8; 2514.0; 02-NOV-2007 22:15:34; Bright; 35.5; 53; 43Bet And ; 2.05; 3300;occ; 71; 0;29672
9; 2655.7; 02-NOV-2007 22:17:56; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;29672
10; 2868.3; 02-NOV-2007 22:21:28; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;29672
11; 2938.4; 02-NOV-2007 22:22:38; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29672
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13; 3910.2; 02-NOV-2007 22:38:50; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29672
14; 4006.9; 02-NOV-2007 22:40:27; Bright; 56.0; 82; 48Bet UMA ; 2.37; 10600;occ; 112; 0;29672
15; 4229.9; 02-NOV-2007 22:44:10; Bright; 39.0; 174; 52Psi UMA ; 3.00; 4400;occ; 78; 0;29672
16; 4678.6; 02-NOV-2007 22:51:39; Bright; 38.5; 96; 68Del Leo ; 2.56; 9300;occ; 77; 0;29672
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3;-1806.2; 02-NOV-2007 05:58:10; Bright; 37.0; 174; 52Psi UMA ; 3.00; 4400;occ; 74; 0;29661
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6; 143.3; 02-NOV-2007 06:30:40; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;29662
7; 223.1; 02-NOV-2007 06:32:00; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;29662
8; 358.2; 02-NOV-2007 06:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29662

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3; 2658.1; 02-NOV-2007 07:12:35; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;29662
4; 2868.0; 02-NOV-2007 07:16:05; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;29662
5; 2938.6; 02-NOV-2007 07:17:15; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29662
6; 3423.7; 02-NOV-2007 07:25:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29662
7; 3911.1; 02-NOV-2007 07:33:28; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;29662
8; 4007.7; 02-NOV-2007 07:35:04; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;29662
9; 4229.9; 02-NOV-2007 07:38:47; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;29662
10; 4676.2; 02-NOV-2007 07:46:13; Bright; 46.5; 96; 68Del Leo ; 2.56; 9300;occ; 93; 0;29662
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3; 2657.8; 02-NOV-2007 08:53:10; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;29663
4; 2868.0; 02-NOV-2007 08:56:41; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;29663
5; 2938.5; 02-NOV-2007 08:57:51; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;29663
6; 3423.7; 02-NOV-2007 09:05:56; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;29663
7; 3911.0; 02-NOV-2007 09:14:04; Bright; 40.5; 36; 50Alp UMa ; 1.80; 6300;occ; 81; 0;29663
8; 4007.7; 02-NOV-2007 09:15:40; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;29663
9; 4229.8; 02-NOV-2007 09:19:22; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;29663
10; 4676.5; 02-NOV-2007 09:26:49; Bright; 41.0; 96; 68Del Leo ; 2.56; 9300;occ; 82; 0;29663
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13; 6260.3; 02-NOV-2007 09:53:13; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;29663
14; 6395.9; 02-NOV-2007 09:55:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29663
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3; 2657.5; 02-NOV-2007 10:33:46; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;29664
4; 2868.0; 02-NOV-2007 10:37:16; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29664
5; 2938.6; 02-NOV-2007 10:38:27; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29664
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9; 4229.8; 02-NOV-2007 10:59:58; Bright; 57.0; 174; 52Psi UMa ; 3.00; 4400;occ; 114; 0;29664
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9; 4229.7; 02-NOV-2007 12:40:34; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;29665
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13; 6261.4; 02-NOV-2007 13:14:26; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;29665
14; 6397.8; 02-NOV-2007 13:16:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29665

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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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12; 4636.9; 28-NOV-2007 09:08:51; Bright; 33.0; 3; 16Alp Boo ; -0.05; 4250;occ; 66; 0;30035
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14; 5095.6; 28-NOV-2007 09:16:30; Bright; 41.5; 121; 29Gam Vir ; 2.74; 7200;occ; 83; 0;30035
15; 5190.1; 28-NOV-2007 09:18:04; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;30035
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21; 6390.1; 28-NOV-2007 09:38:05; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30035
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6; 2747.9; 28-NOV-2007 10:17:58; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;30036
7; 3421.8; 28-NOV-2007 10:29:12; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30036
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9; 4018.0; 28-NOV-2007 10:39:08; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;30036
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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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6; 2747.6; 28-NOV-2007 11:58:34; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;30037
7; 3421.8; 28-NOV-2007 12:09:48; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30037
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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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12; 4637.2; 28-NOV-2007 12:30:03; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 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
18; 5869.4; 28-NOV-2007 12:50:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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5; 2608.6; 28-NOV-2007 13:36:51; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;30038
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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18; 5607.8; 28-NOV-2007 14:26:50; Dark ; 38.0; 123; Iot Cen ; 2.75; 10200;occ; 76; 0;30038
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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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5; 2608.5; 28-NOV-2007 15:17:26; Bright; 37.5; 79; 26Bet Per ; 2.31; 13100;occ; 75; 0;30039
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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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9; 4017.9; 28-NOV-2007 15:40:56; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 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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