

GOMOS Daily Report 11-OCT-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	15OCT2007 10:37:06
Data source version	GOMOS/5.00
Start time of products	11-10-2007 (11OCT2007 00:00:00)
Stop time of products	12-10-2007 (12OCT2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	40
Nb of prods with errors	0

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

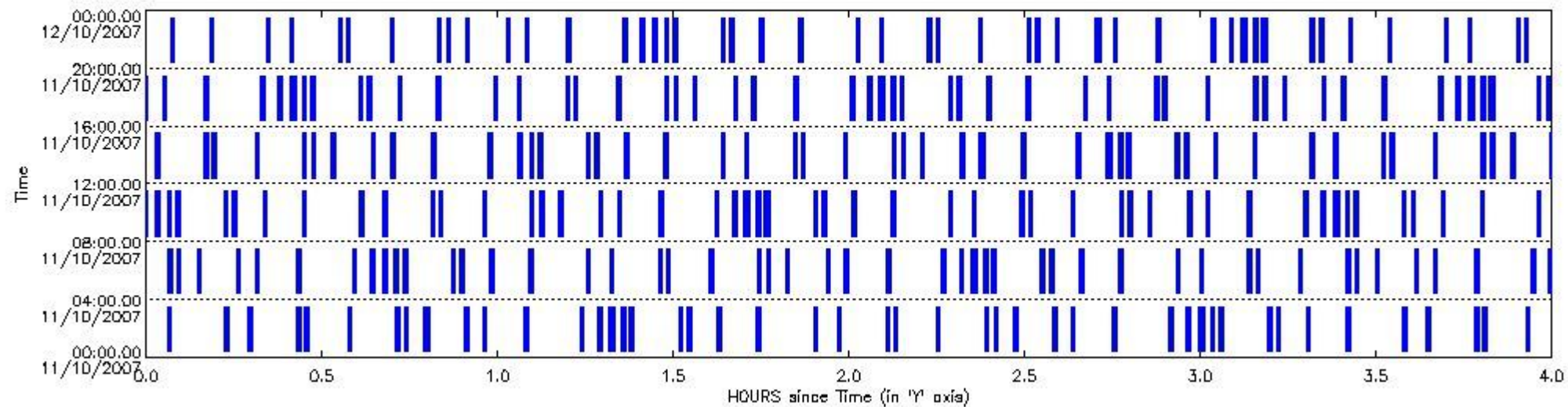
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

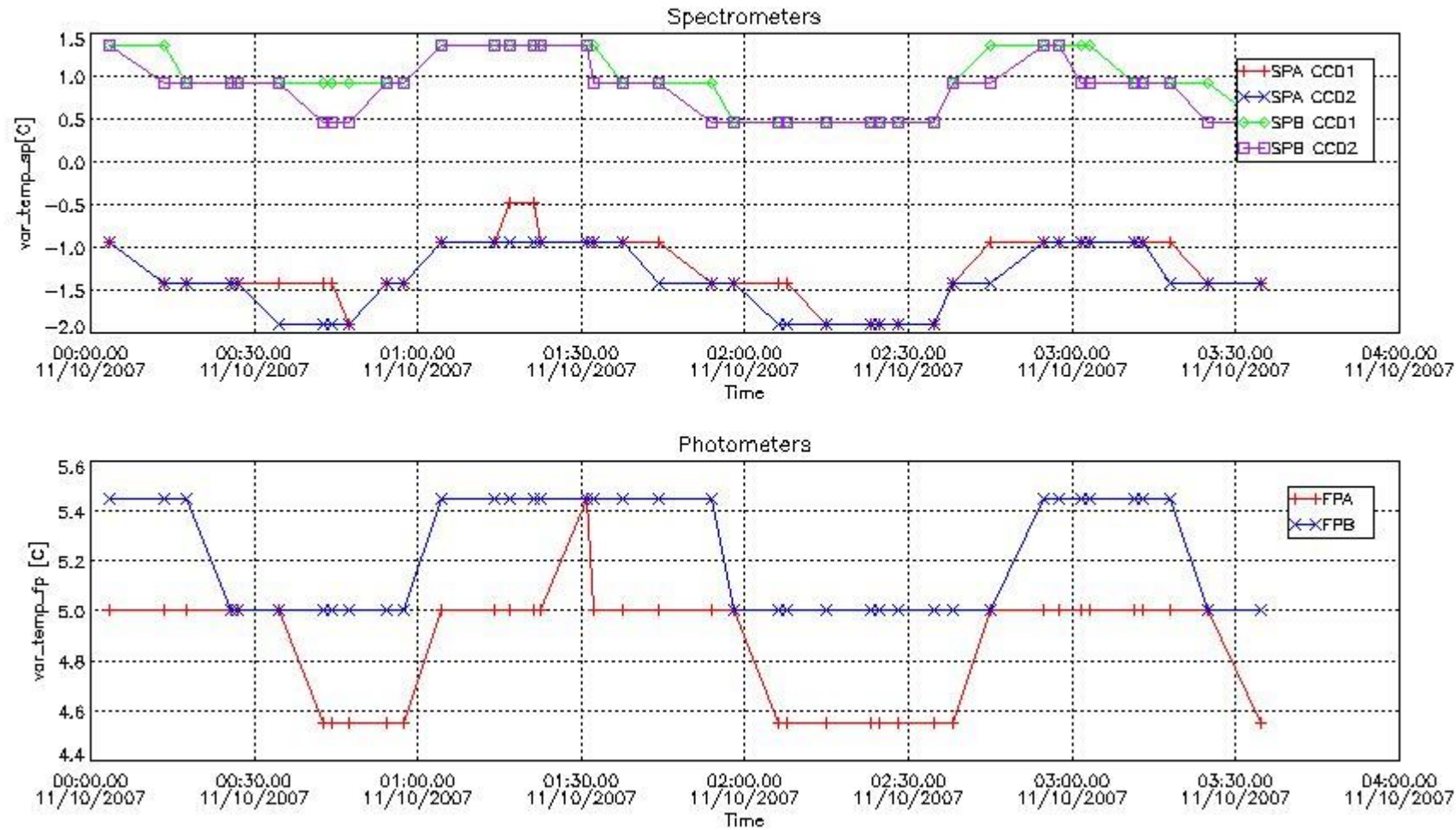
No missing products.

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_1PNPDE20071011_000332_000000422062_00231_29343_9666.N1	11-OCT-2007 00:03:32	Straylight	41.500	52	16Bet Cet	2.0370	4500.0	83	29343	No
2	GOM_TRA_1PNPDE20071011_001324_000000372062_00231_29343_9667.N1	11-OCT-2007 00:13:24	Bright	37.000	140	88Gam Peg	2.8340	26000.	74	29343	No
3	GOM_TRA_1PNPDE20071011_001725_000000382062_00231_29343_9668.N1	11-OCT-2007 00:17:25	Bright	37.500	58	21Alp And	2.0730	11000.	75	29343	No
4	GOM_TRA_1PNPDE20071011_002539_000000392062_00231_29343_9669.N1	11-OCT-2007 00:25:39	Bright	39.000	68	18Alp Cas	2.2250	4500.0	78	29343	No
5	GOM_TRA_1PNPDE20071011_002702_000000392062_00231_29343_9670.N1	11-OCT-2007 00:27:02	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	29343	No
6	GOM_TRA_1PNPDE20071011_003423_000000372062_00231_29343_9671.N1	11-OCT-2007 00:34:23	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29343	No
7	GOM_TRA_1PNPDE20071011_004233_000000382062_00231_29343_9672.N1	11-OCT-2007 00:42:33	Bright	38.000	36	50Alp UMa	1.8000	6300.0	76	29343	No
8	GOM_TRA_1PNPDE20071011_004405_000000352062_00231_29343_9673.N1	11-OCT-2007 00:44:05	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	29343	No
9	GOM_TRA_1PNPDE20071011_004724_000000522062_00231_29343_9674.N1	11-OCT-2007 00:47:24	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29343	No
10	GOM_TRA_1PNPDE20071011_005412_000000582062_00231_29343_9675.N1	11-OCT-2007 00:54:12	Bright	58.000	166	17Eps Leo	2.9800	6000.0	116	29343	No
11	GOM_TRA_1PNPDE20071011_005722_000000382062_00231_29343_9676.N1	11-OCT-2007 00:57:22	Bright	38.000	22	32Alp Leo	1.3600	15200.	76	29343	No
12	GOM_TRA_1PNPDE20071011_010422_000000482062_00231_29343_9677.N1	11-OCT-2007 01:04:22	Twilight	48.000	48	30Alp Hya	1.9770	4100.0	96	29343	No

13	GOM_TRA_1PNPDE20071011_011400_000000422062_00231_29343_9799.N1	11-OCT-2007 01:14:00	Dark	42.000	65	Lam Vel	2.2040	4400.0	84	29343	No
14	GOM_TRA_1PNPDE20071011_011658_000000502062_00231_29343_9800.N1	11-OCT-2007 01:16:58	Dark	49.500	34	Gam2Vel	1.7930	23000.	99	29343	No
15	GOM_TRA_1PNPDE20071011_012106_000000432062_00232_29344_9801.N1	11-OCT-2007 01:21:06	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	29344	No
16	GOM_TRA_1PNPDE20071011_012229_000000482062_00232_29344_9802.N1	11-OCT-2007 01:22:29	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	29344	No
17	GOM_TRA_1PNPDE20071011_013053_000000382062_00232_29344_9803.N1	11-OCT-2007 01:30:53	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	29344	No
18	GOM_TRA_1PNPDE20071011_013220_000000422062_00232_29344_9804.N1	11-OCT-2007 01:32:20	Dark	42.000	9	Alp Eri	0.45300	24000.	84	29344	No
19	GOM_TRA_1PNPDE20071011_013728_000000432062_00232_29344_9805.N1	11-OCT-2007 01:37:28	Straylight	43.000	84	Alp Phe	2.3970	4500.0	86	29344	No
20	GOM_TRA_1PNPDE20071011_014408_000000452062_00232_29344_9806.N1	11-OCT-2007 01:44:08	Straylight	45.000	52	16Bet Cet	2.0370	4500.0	90	29344	No
21	GOM_TRA_1PNPDE20071011_015400_000000352062_00232_29344_9807.N1	11-OCT-2007 01:54:00	Bright	35.000	140	88Gam Peg	2.8340	26000.	70	29344	No
22	GOM_TRA_1PNPDE20071011_015800_000000382062_00232_29344_9808.N1	11-OCT-2007 01:58:00	Bright	37.500	58	21Alp And	2.0730	11000.	75	29344	No
23	GOM_TRA_1PNPDE20071011_020614_000000372062_00232_29344_9809.N1	11-OCT-2007 02:06:14	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	29344	No
24	GOM_TRA_1PNPDE20071011_020738_000000392062_00232_29344_9810.N1	11-OCT-2007 02:07:38	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	29344	No
25	GOM_TRA_1PNPDE20071011_021459_000000352062_00232_29344_9811.N1	11-OCT-2007 02:14:59	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29344	No
26	GOM_TRA_1PNPDE20071011_022309_000000362062_00232_29344_0035.N1	11-OCT-2007 02:23:09	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	29344	No
27	GOM_TRA_1PNPDE20071011_022441_000000432062_00232_29344_9991.N1	11-OCT-2007 02:24:41	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	29344	No
28	GOM_TRA_1PNPDE20071011_022800_000000522062_00232_29344_9992.N1	11-OCT-2007 02:28:00	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	29344	No
29	GOM_TRA_1PNPDE20071011_023448_000000402062_00232_29344_0038.N1	11-OCT-2007 02:34:48	Bright	39.500	166	17Eps Leo	2.9800	6000.0	79	29344	No
30	GOM_TRA_1PNPDE20071011_023759_000000382062_00232_29344_9994.N1	11-OCT-2007 02:37:59	Bright	38.000	22	32Alp Leo	1.3600	15200.	76	29344	No
31	GOM_TRA_1PNPDE20071011_024459_000000492062_00232_29344_9995.N1	11-OCT-2007 02:44:59	Twilight	48.500	48	30Alp Hya	1.9770	4100.0	97	29344	No
32	GOM_TRA_1PNPDE20071011_025436_000000522062_00232_29344_9996.N1	11-OCT-2007 02:54:36	Dark	51.500	65	Lam Vel	2.2040	4400.0	103	29344	No
33	GOM_TRA_1PNPDE20071011_025735_000000422062_00232_29344_9997.N1	11-OCT-2007 02:57:35	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	29344	No
34	GOM_TRA_1PNPDE20071011_030143_000000432062_00233_29345_0043.N1	11-OCT-2007 03:01:43	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	29345	No
35	GOM_TRA_1PNPDE20071011_030306_000000472062_00233_29345_9999.N1	11-OCT-2007 03:03:06	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	29345	No
36	GOM_TRA_1PNPDE20071011_031129_000000382062_00233_29345_0045.N1	11-OCT-2007 03:11:29	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	29345	No
37	GOM_TRA_1PNPDE20071011_031256_000000462062_00233_29345_0046.N1	11-OCT-2007 03:12:56	Dark	46.000	9	Alp Eri	0.45300	24000.	92	29345	No
38	GOM_TRA_1PNPDE20071011_031804_000000382062_00233_29345_0047.N1	11-OCT-2007 03:18:04	Straylight	38.000	84	Alp Phe	2.3970	4500.0	76	29345	No
39	GOM_TRA_1PNPDE20071011_032445_000000472062_00233_29345_0048.N1	11-OCT-2007 03:24:45	Straylight	46.500	52	16Bet Cet	2.0370	4500.0	93	29345	No
40	GOM_TRA_1PNPDE20071011_033435_000000372062_00233_29345_0049.N1	11-OCT-2007 03:34:35	Bright	37.000	140	88Gam Peg	2.8340	26000.	74	29345	No

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



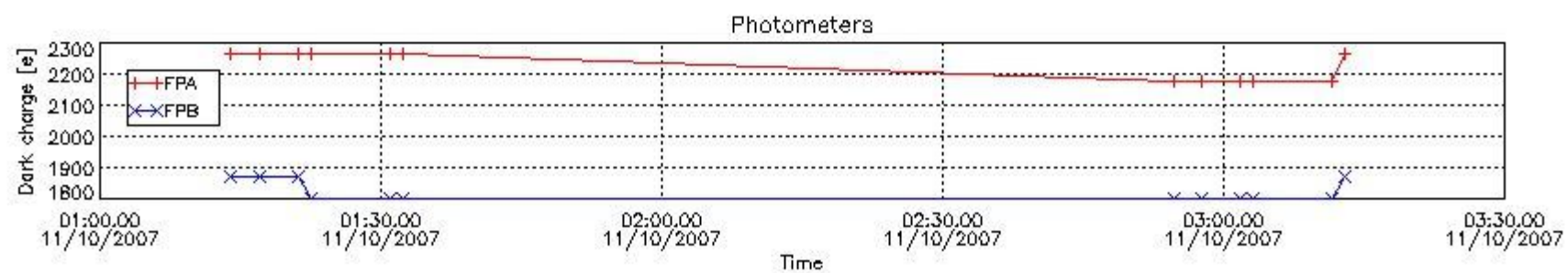
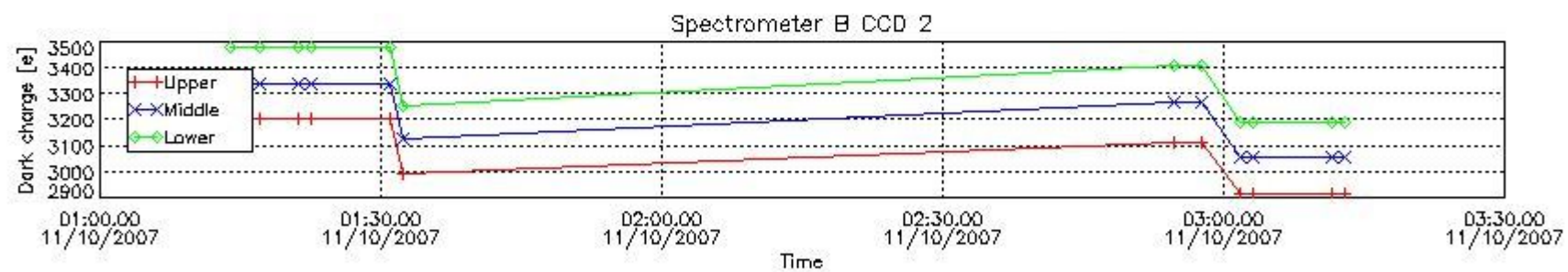
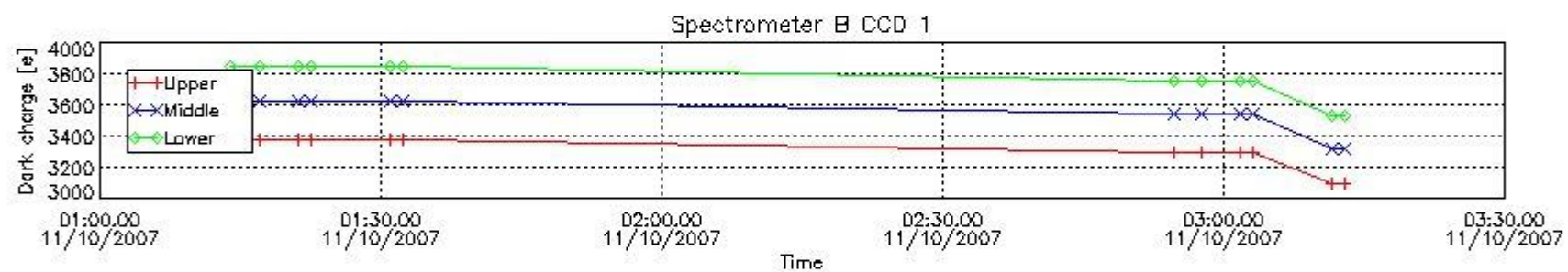
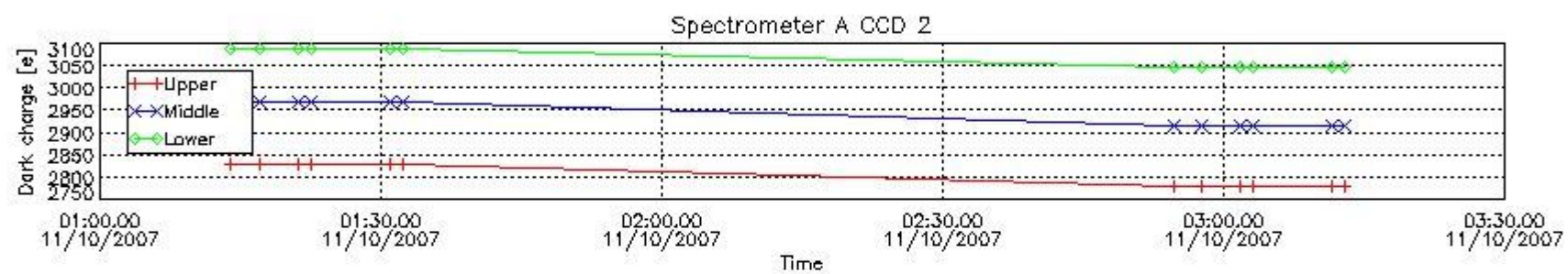
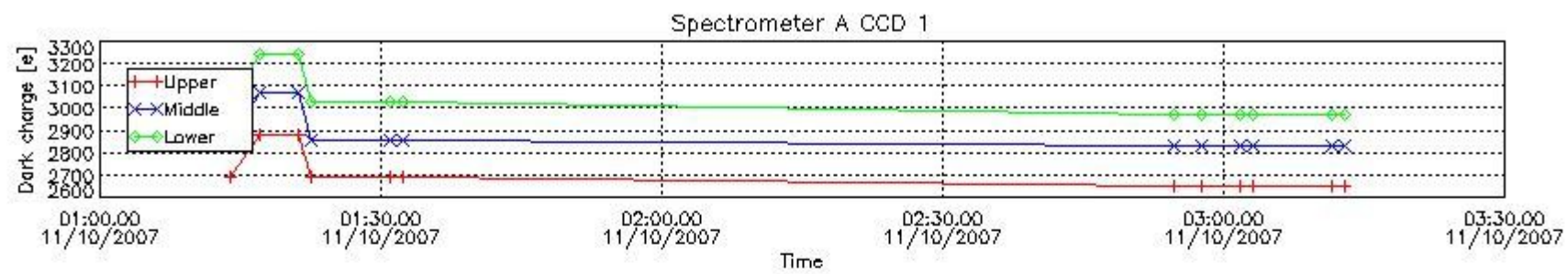
4. Overview of dark signal processing per product

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



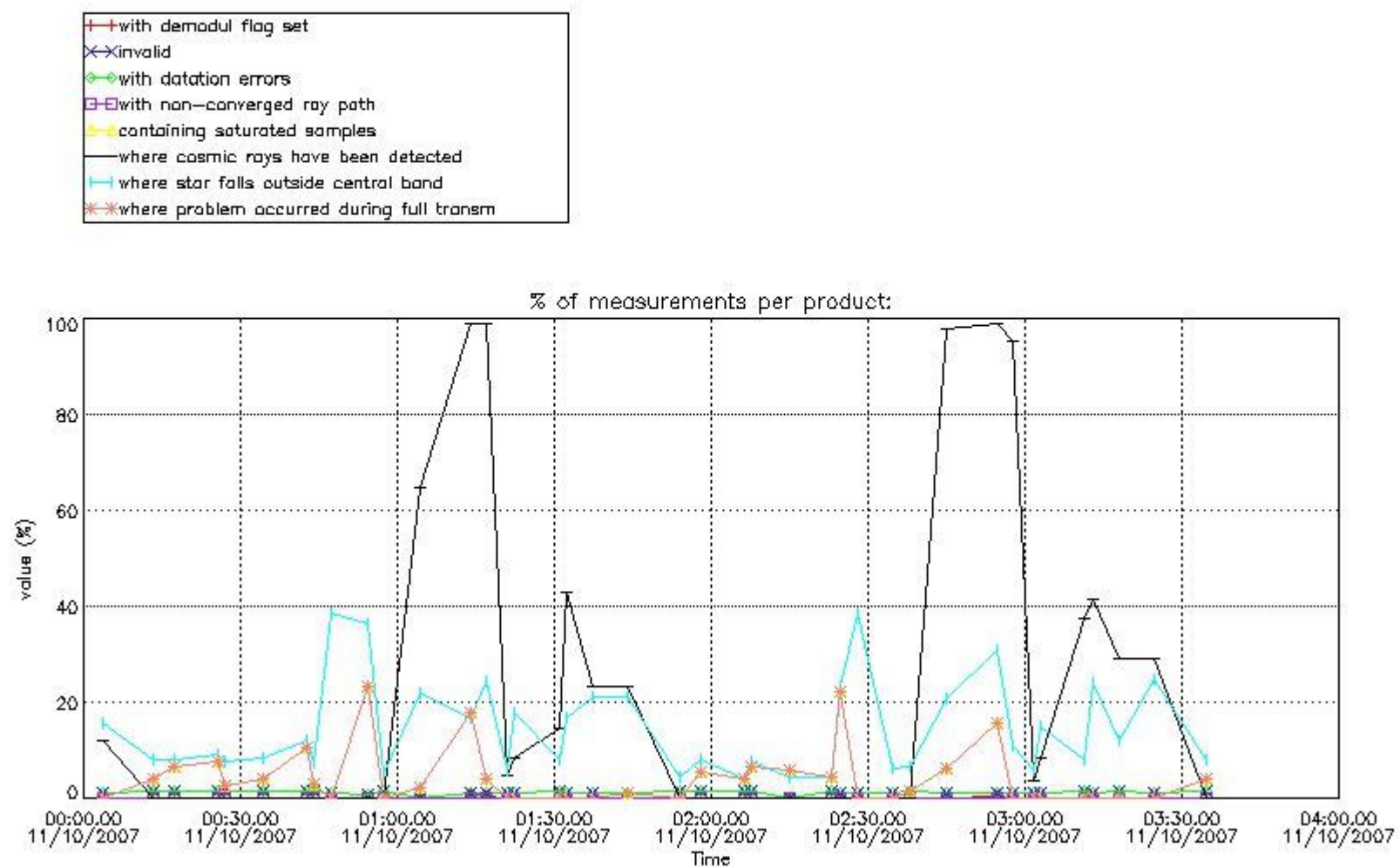
5. Demodulation flag and quality information monitoring

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.

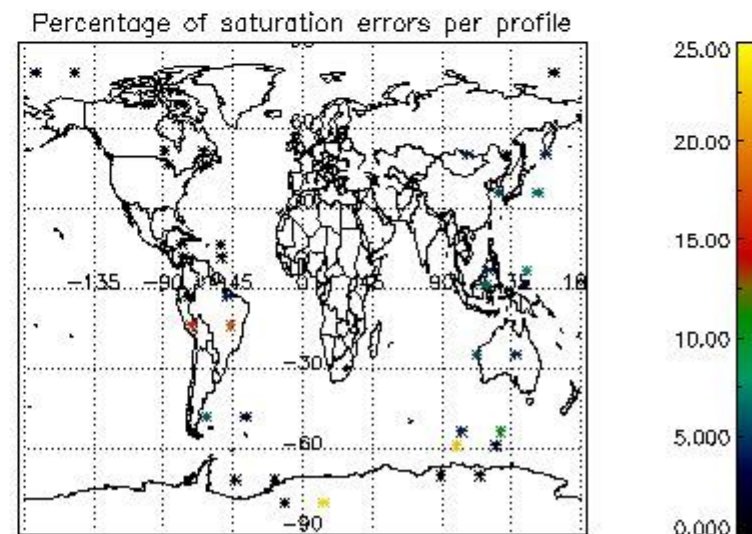
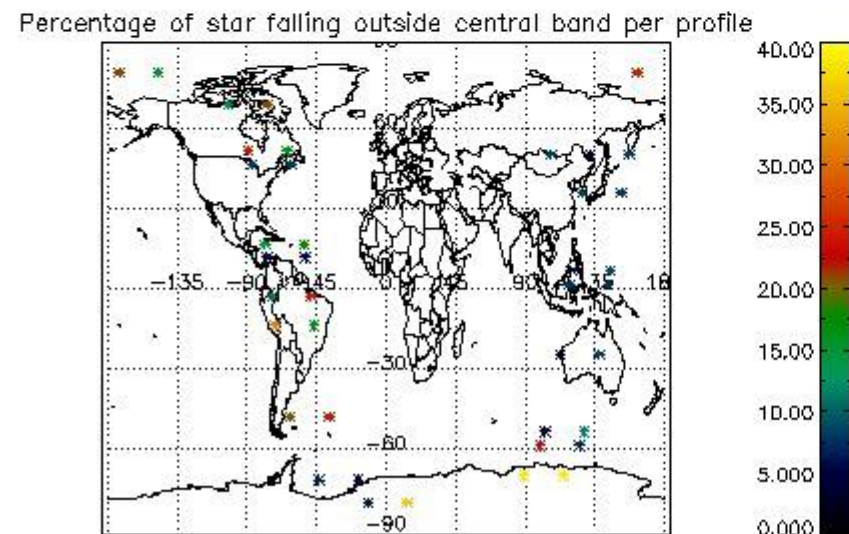
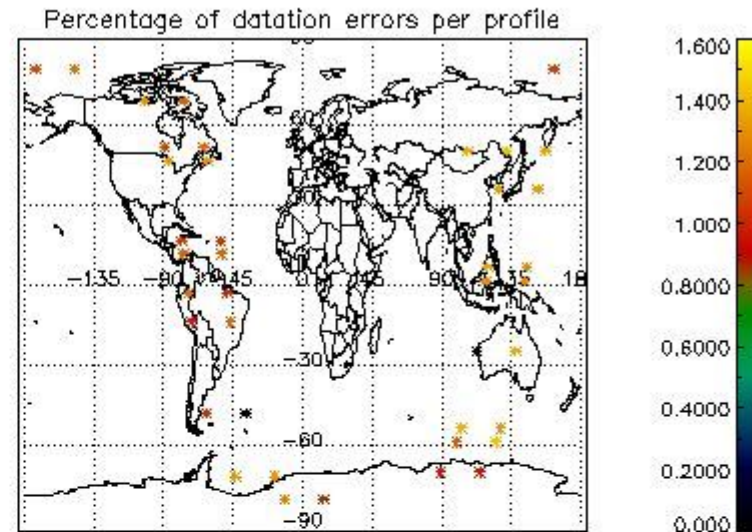
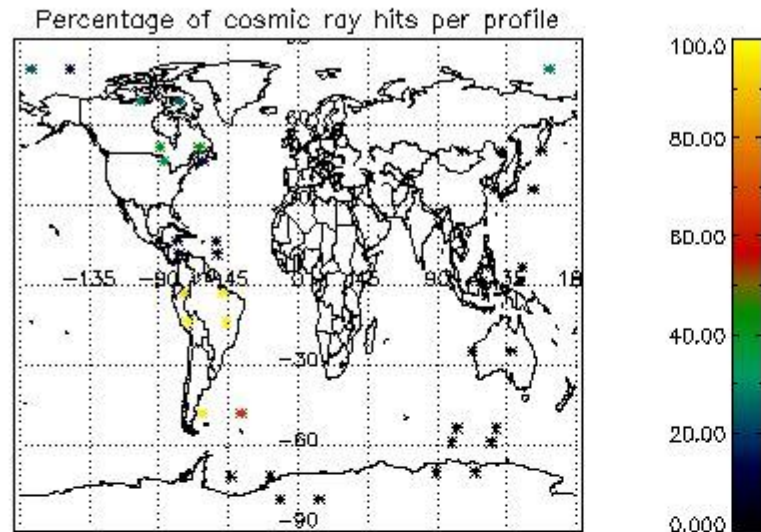
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	17.5000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



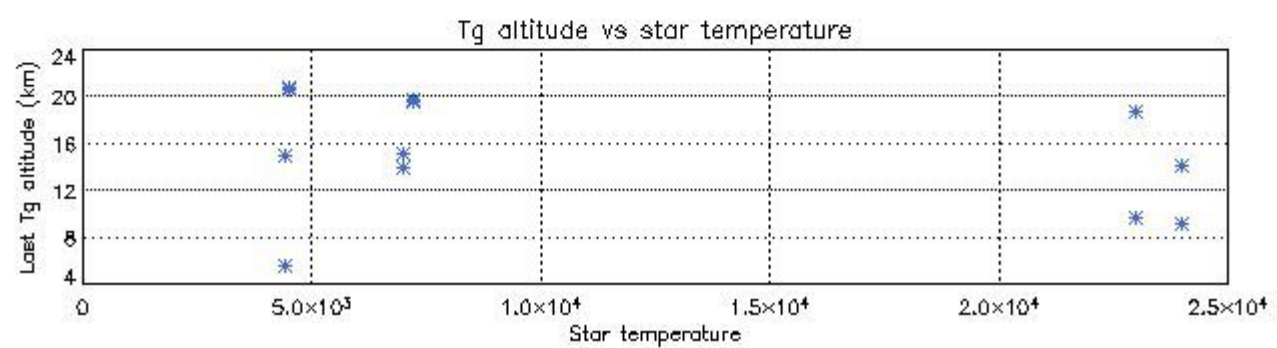
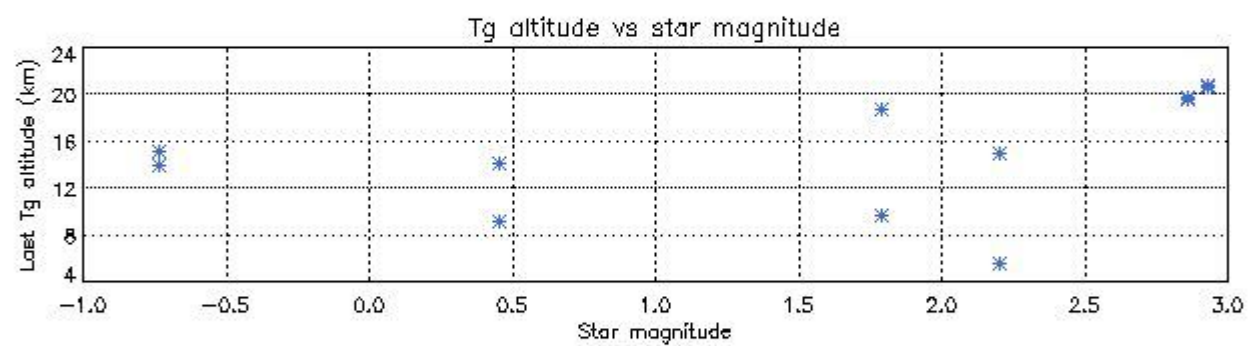
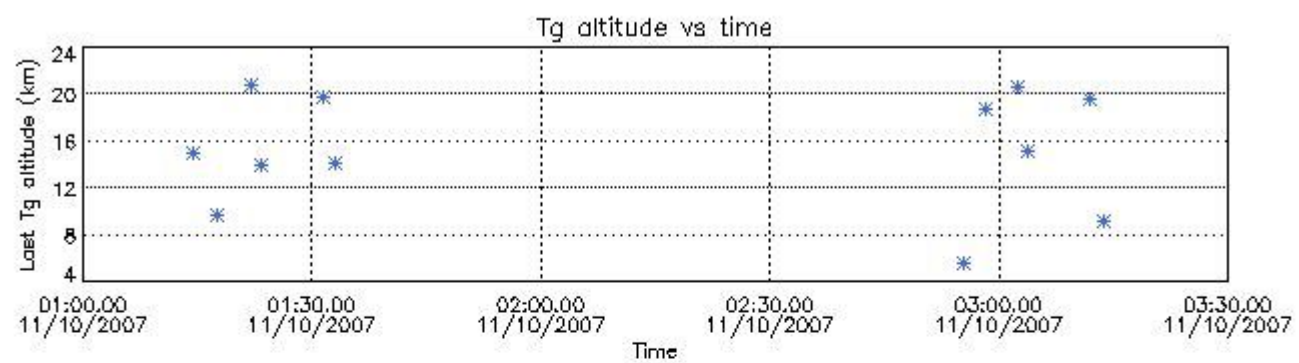
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.142	17.844	11.085
St. deviation:	5.0017	6.2772	0.28332
Maximum:	20.735	24.317	11.285
Minimum:	5.6011	3.8294	10.885
Number of data:	12.000	21.000	2.0000

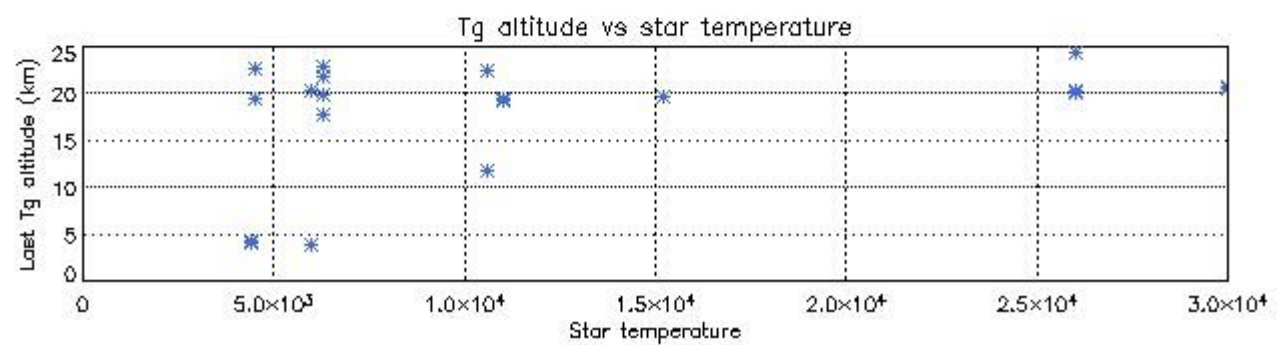
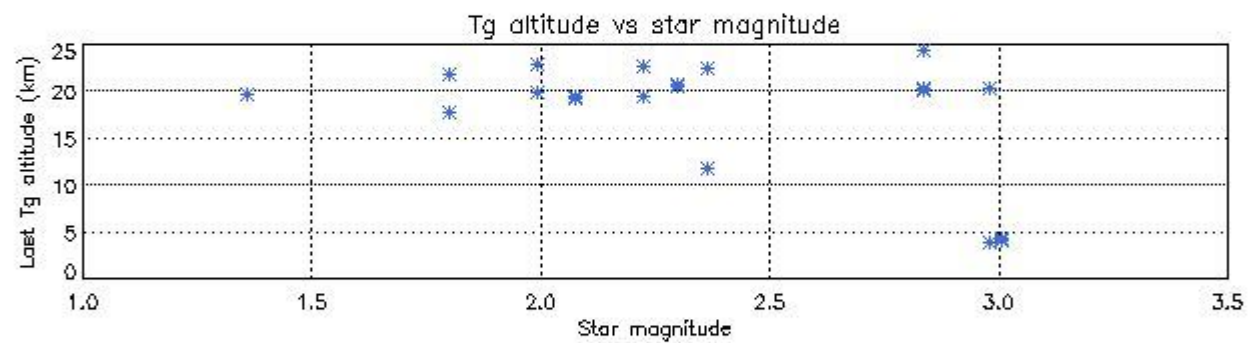
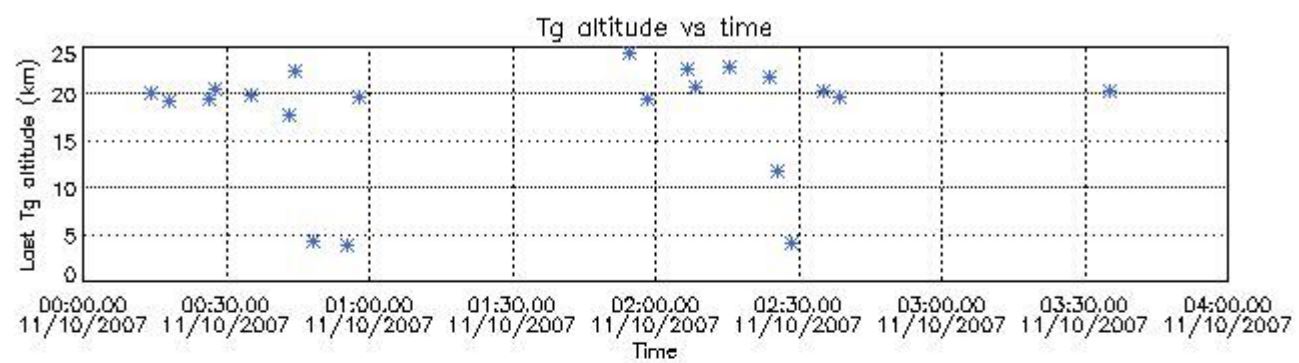
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



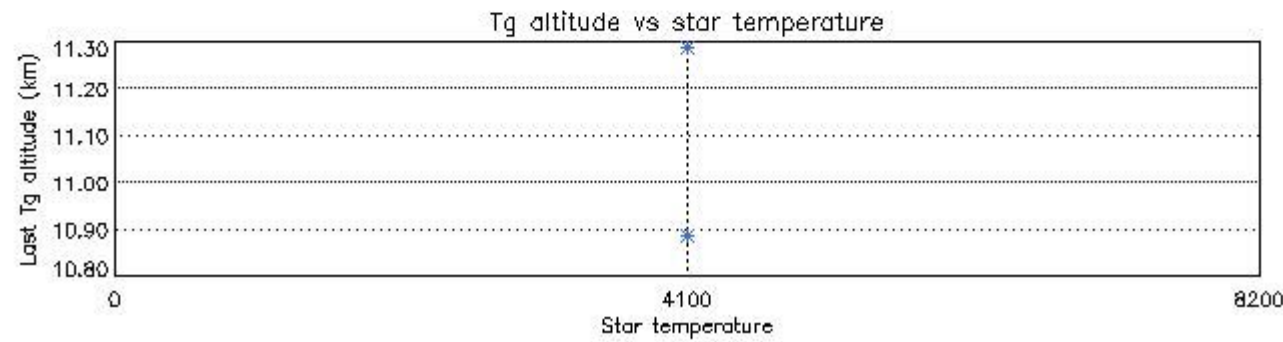
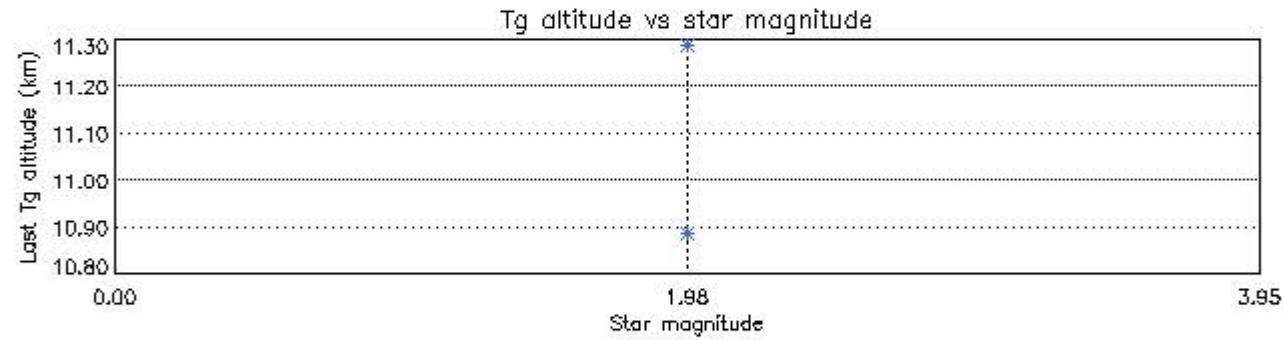
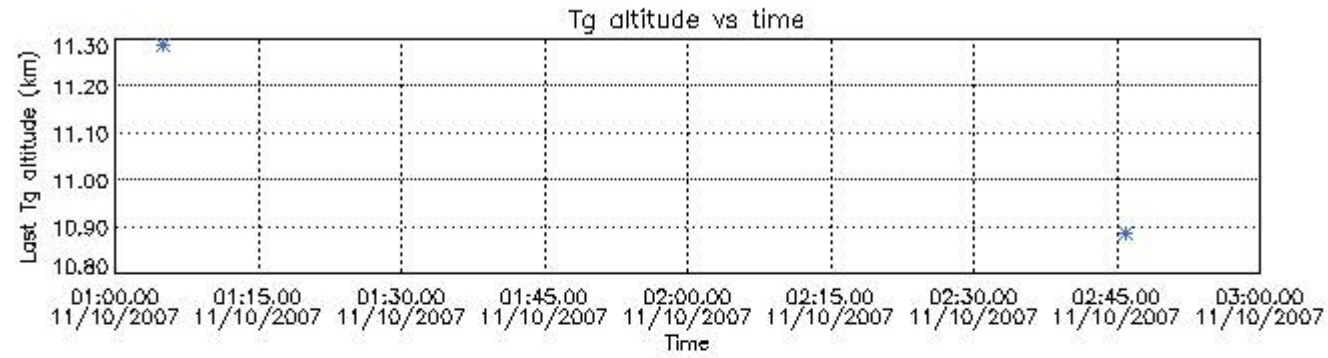
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

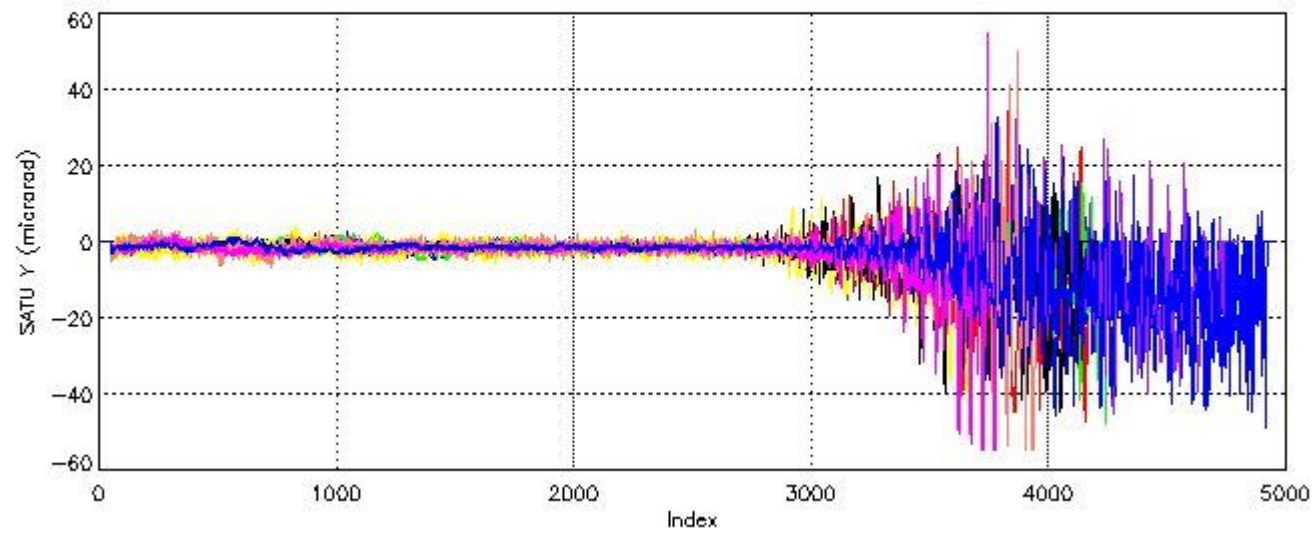
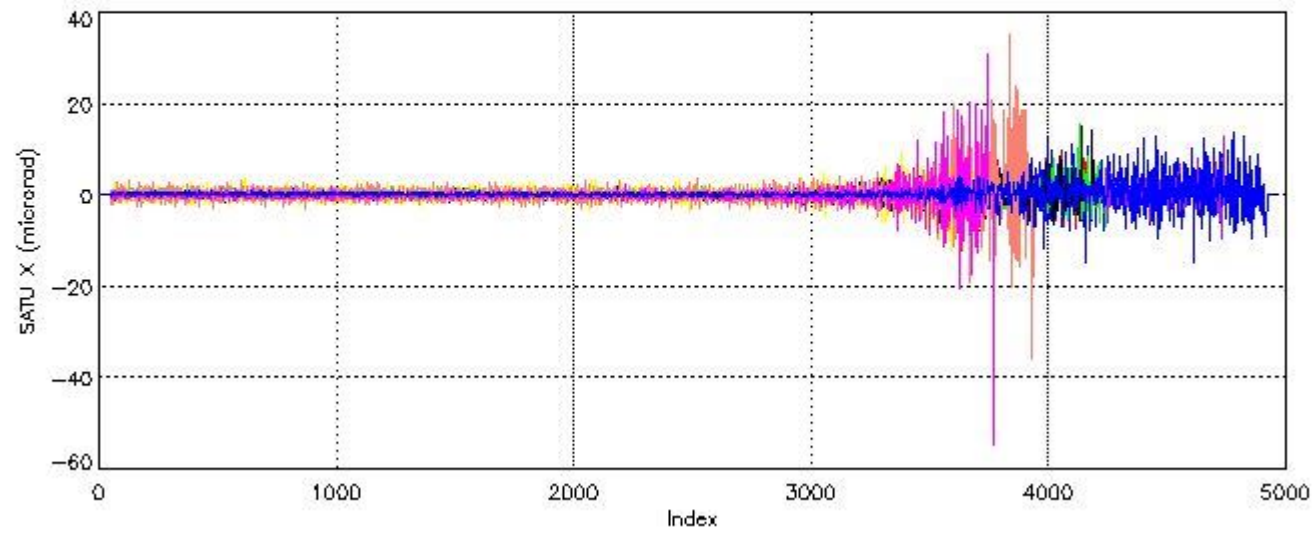


7. Star Acquisition and Tracking Unit (SATU)

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:	0.18436	-1.1533	0.062009	-1.2707
St. deviation:	0.43377	0.94811	0.80068	1.4143
Maximum:	3.8000	4.2000	5.3000	5.4000
Minimum:	-2.7000	-6.2000	-6.2000	-8.2000

Number of data:	11550.	11550.	17600.	17600.
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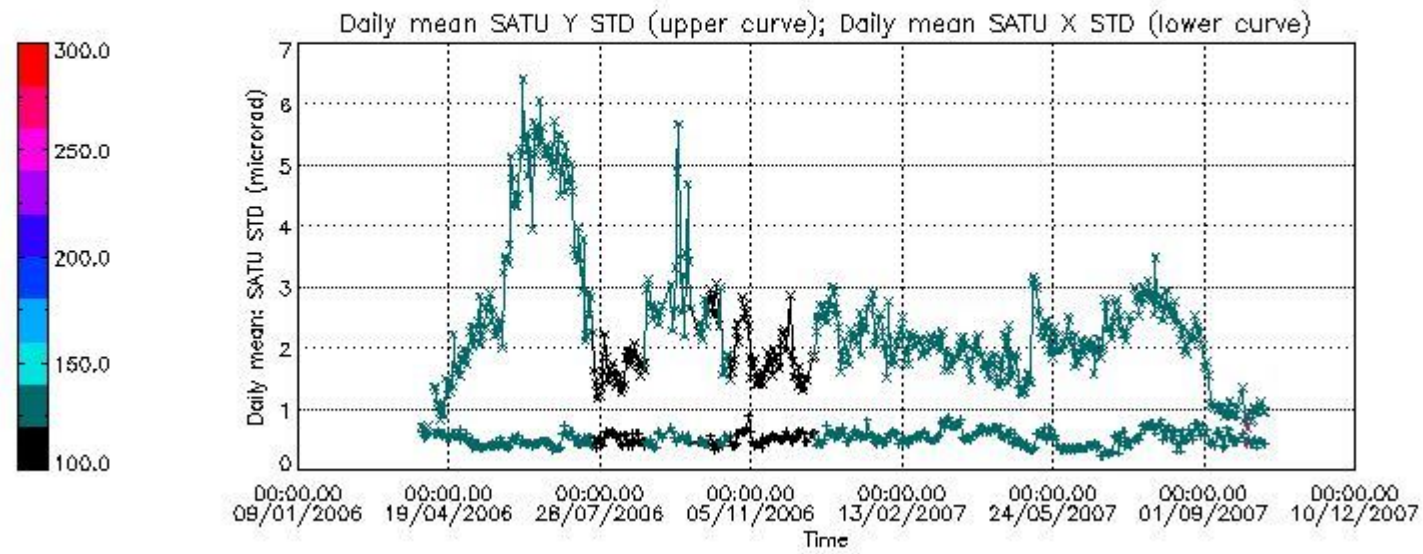
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

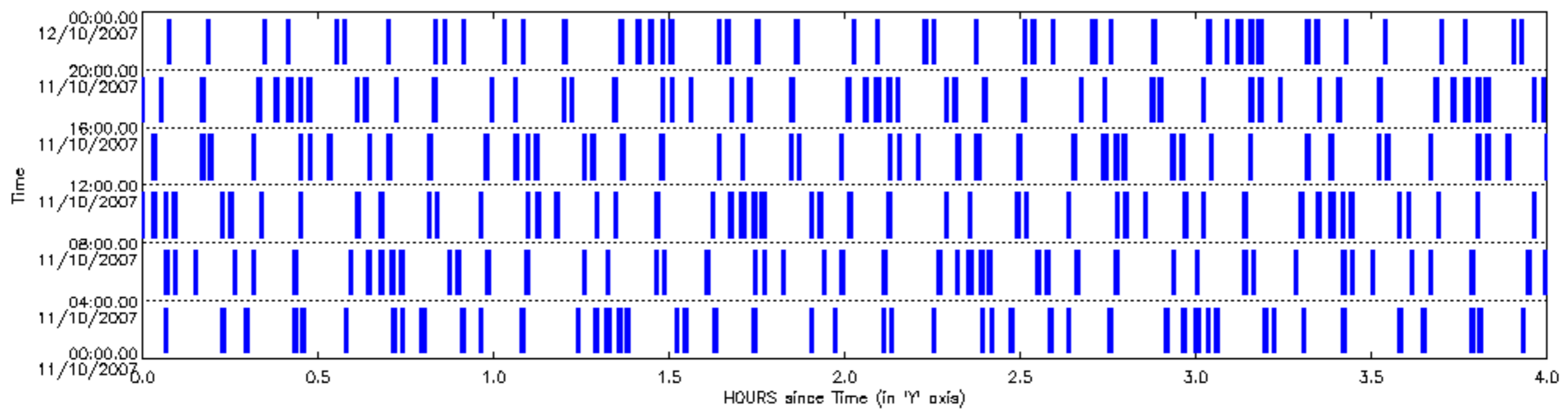
Lower curve: STD of SATU X axis

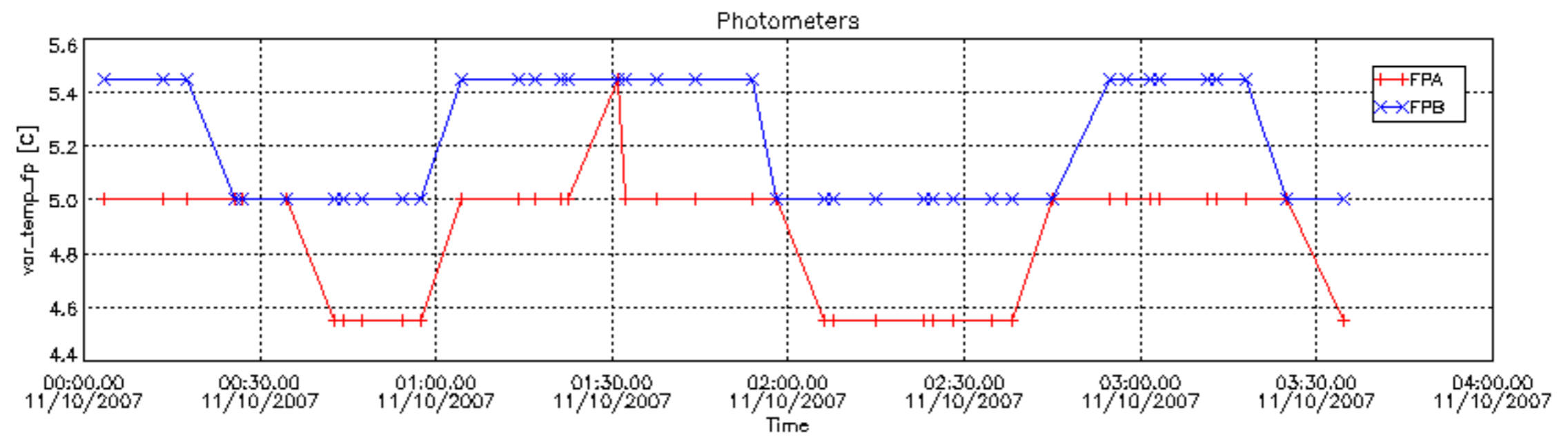
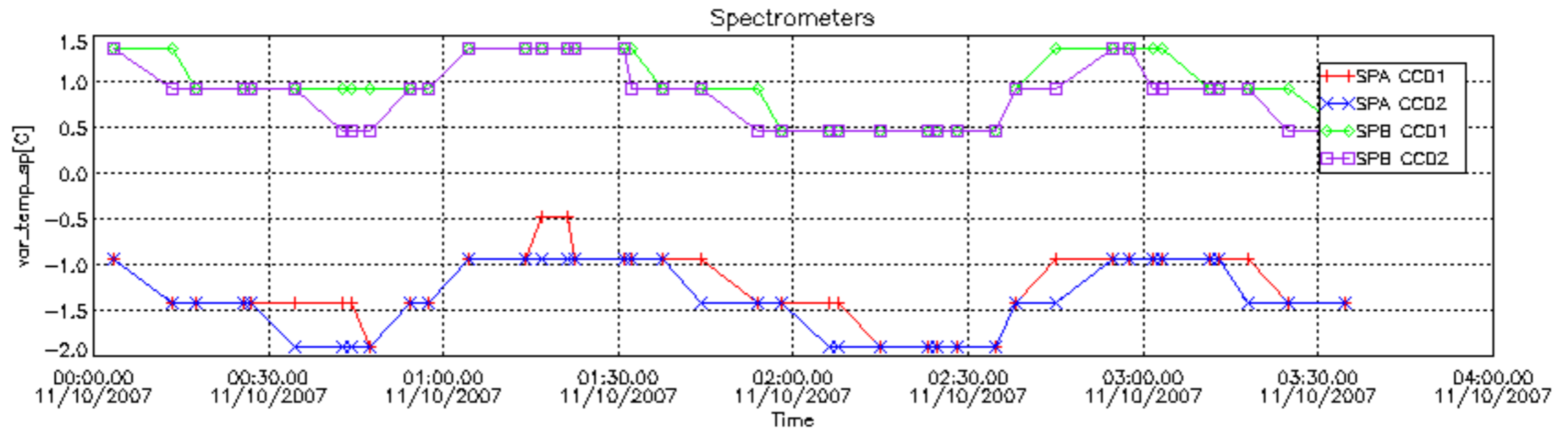


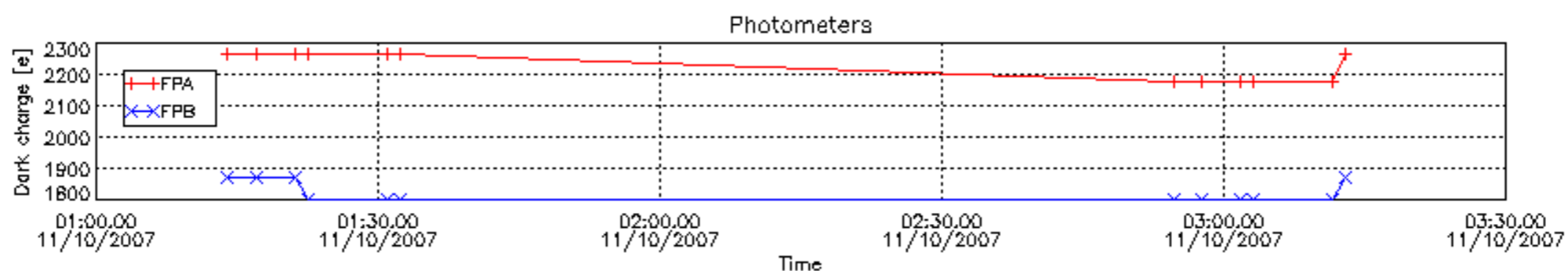
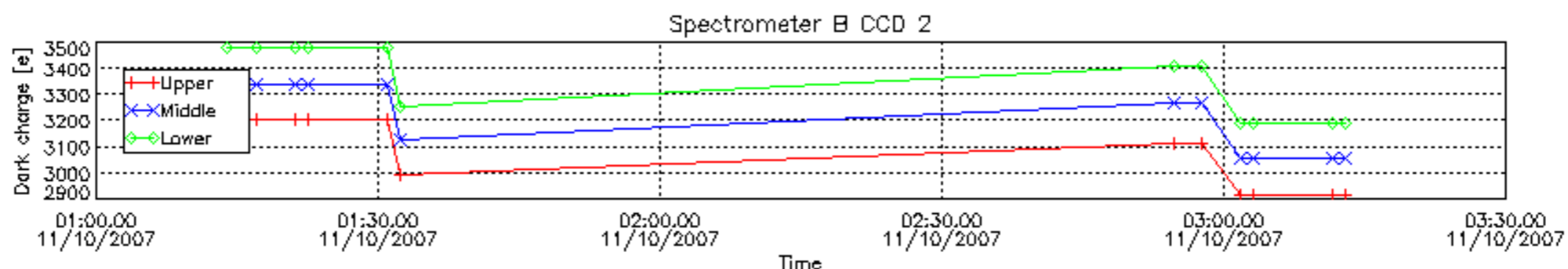
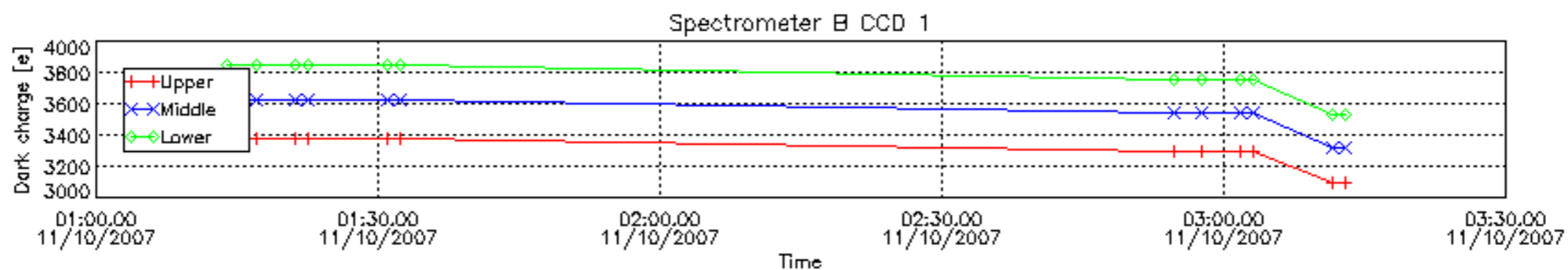
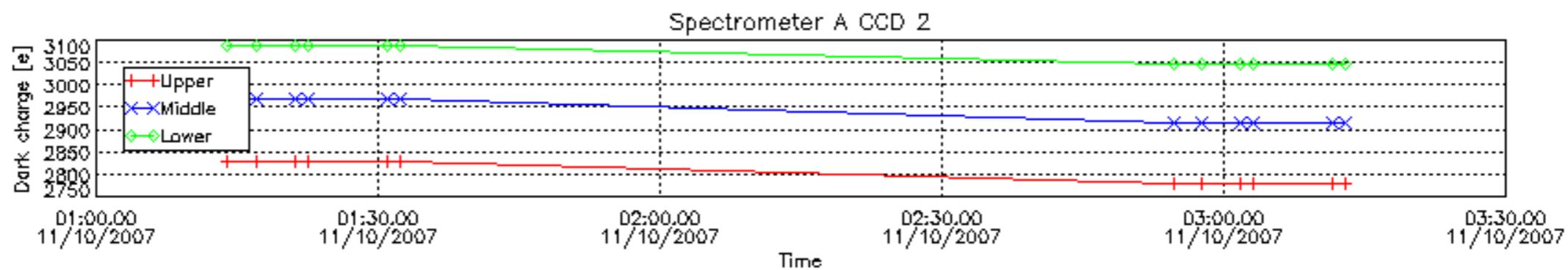
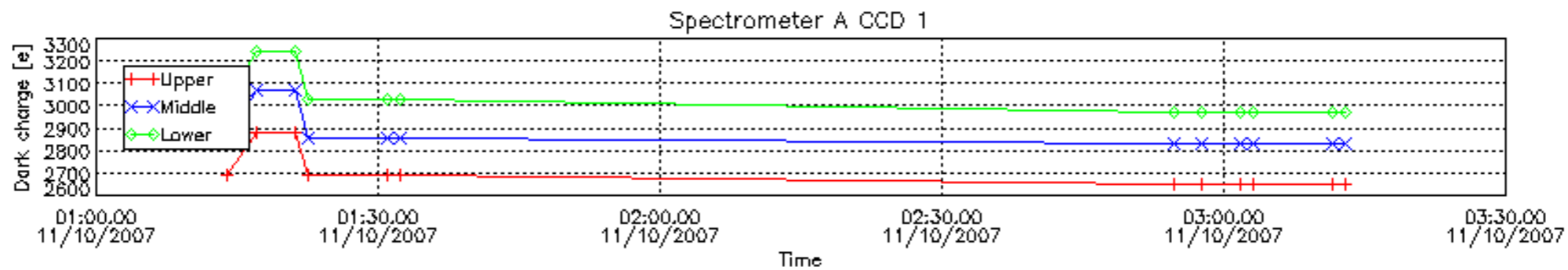
8. Auxiliary Data Files used for the production reported in section 2.4

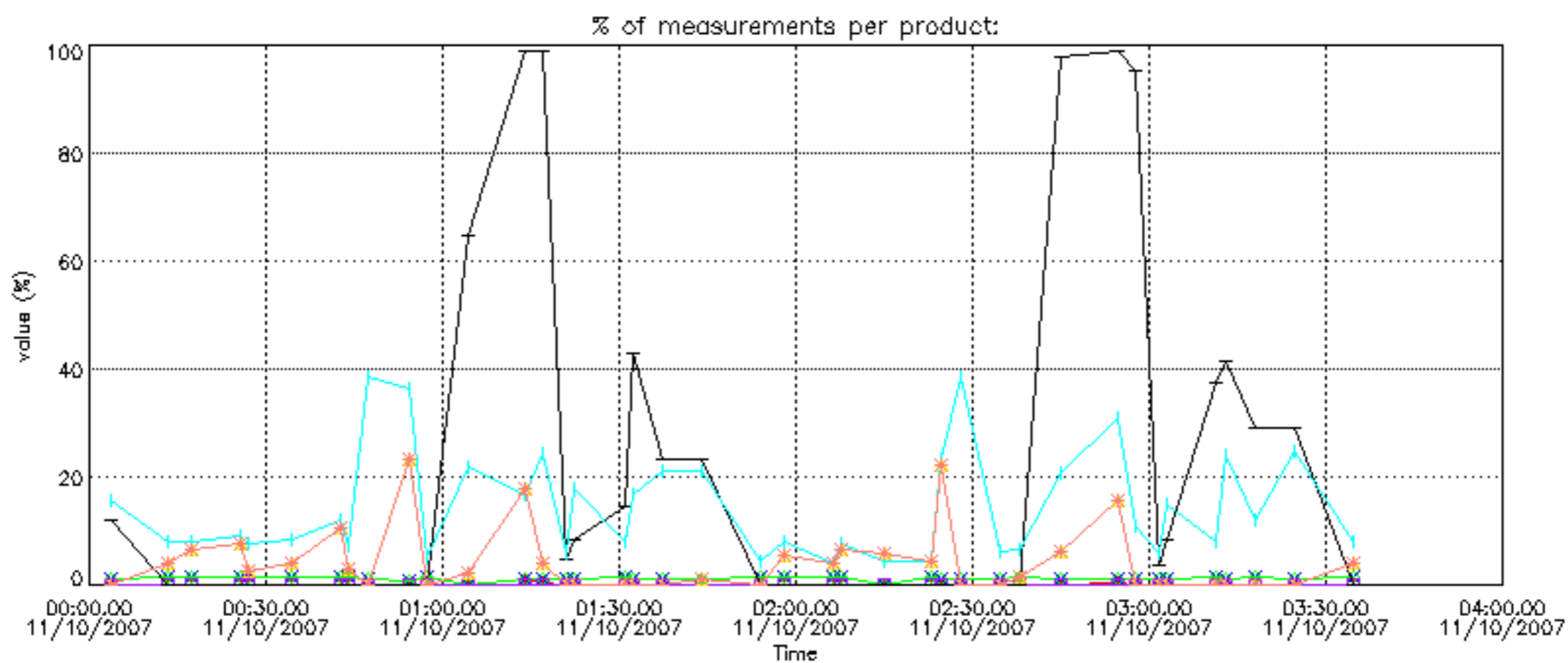
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071009_085337_20071008_000000_20100101_000000	1	11-OCT-2007 00:03:32
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STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-OCT-2007 00:03:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	11-OCT-2007 00:03:32
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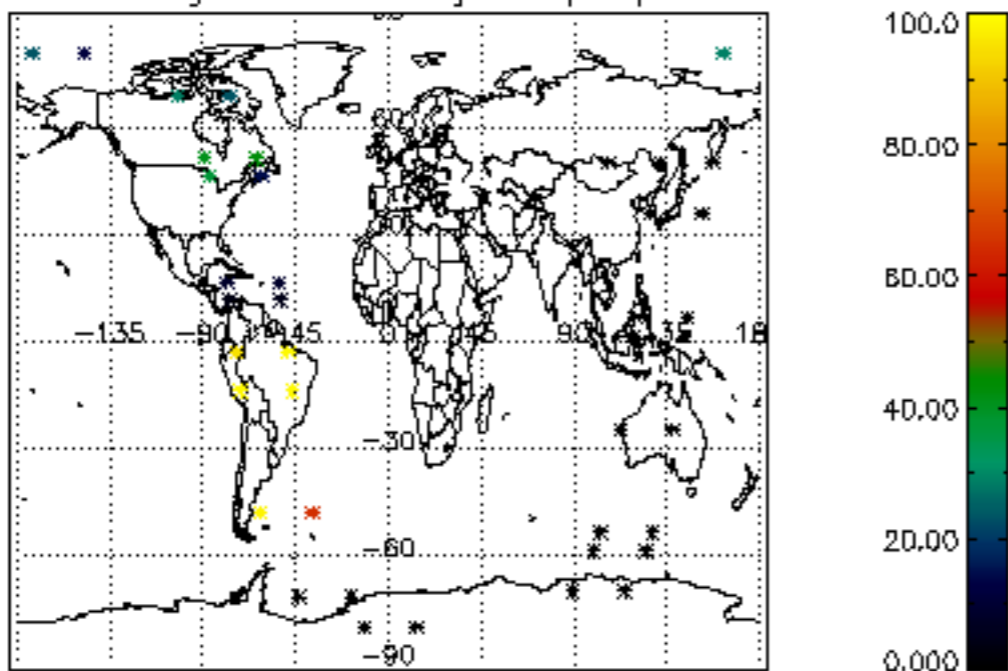




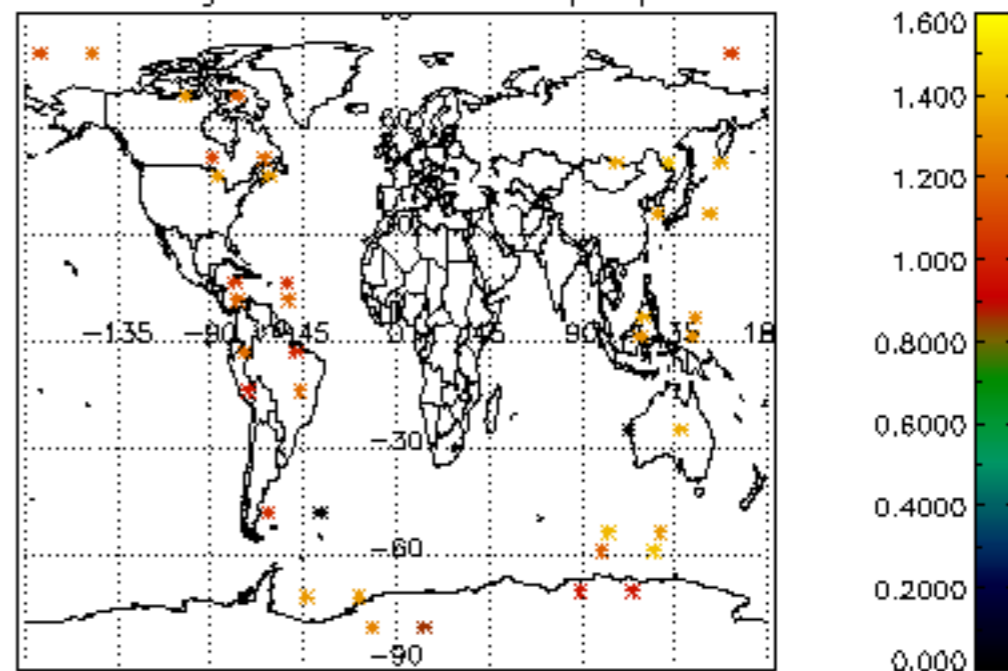




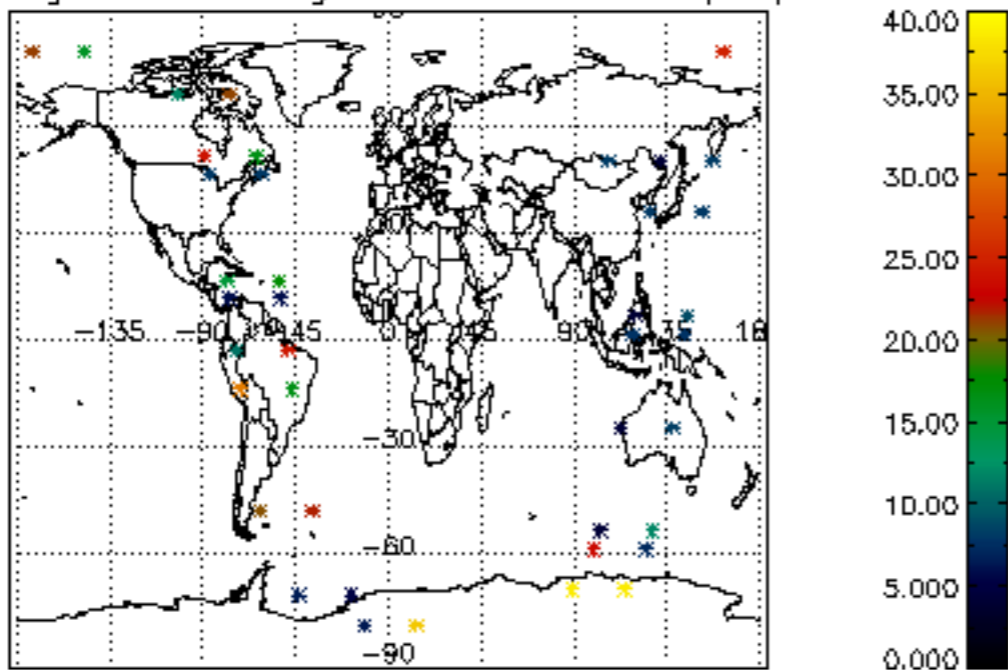
Percentage of cosmic ray hits per profile



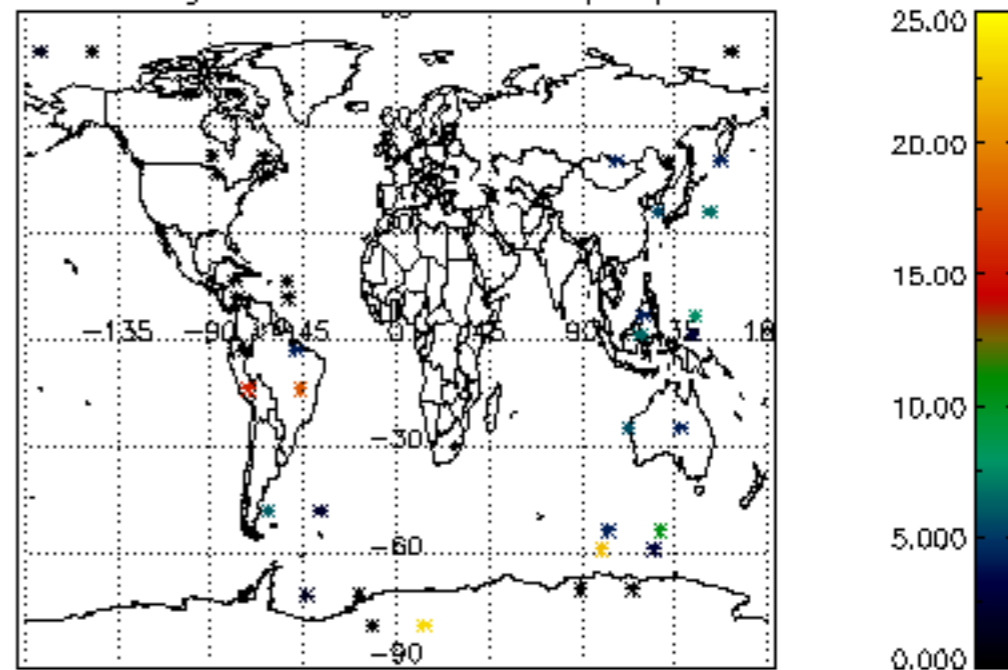
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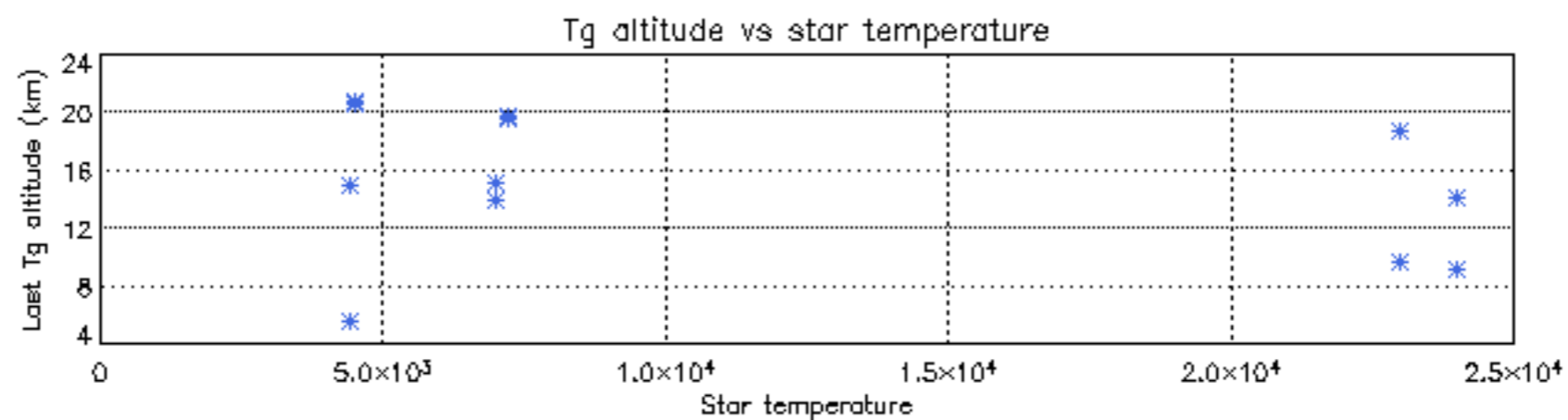
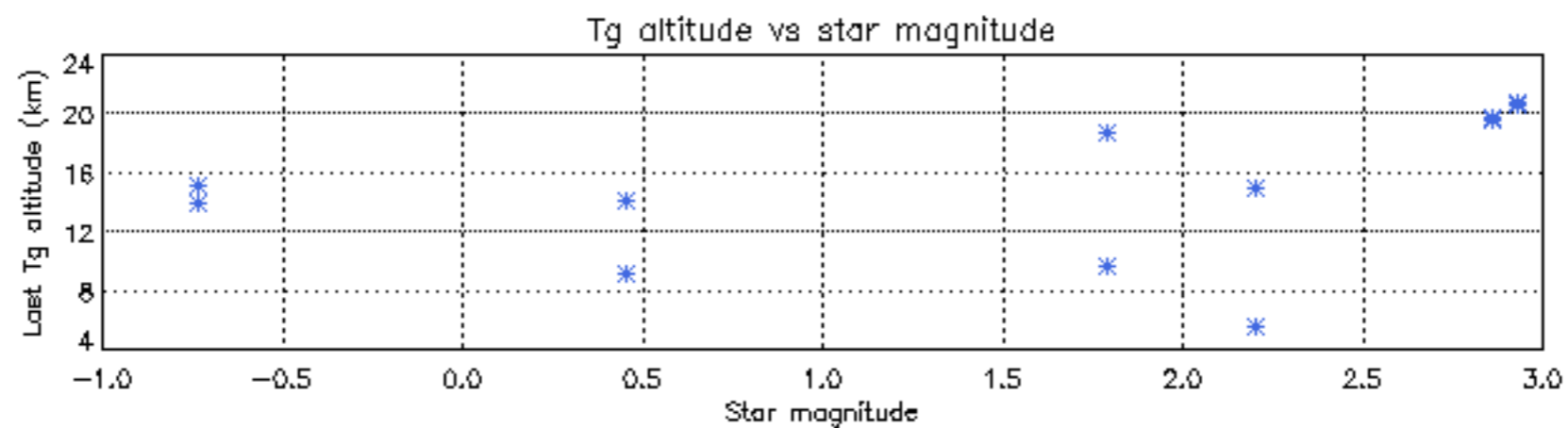
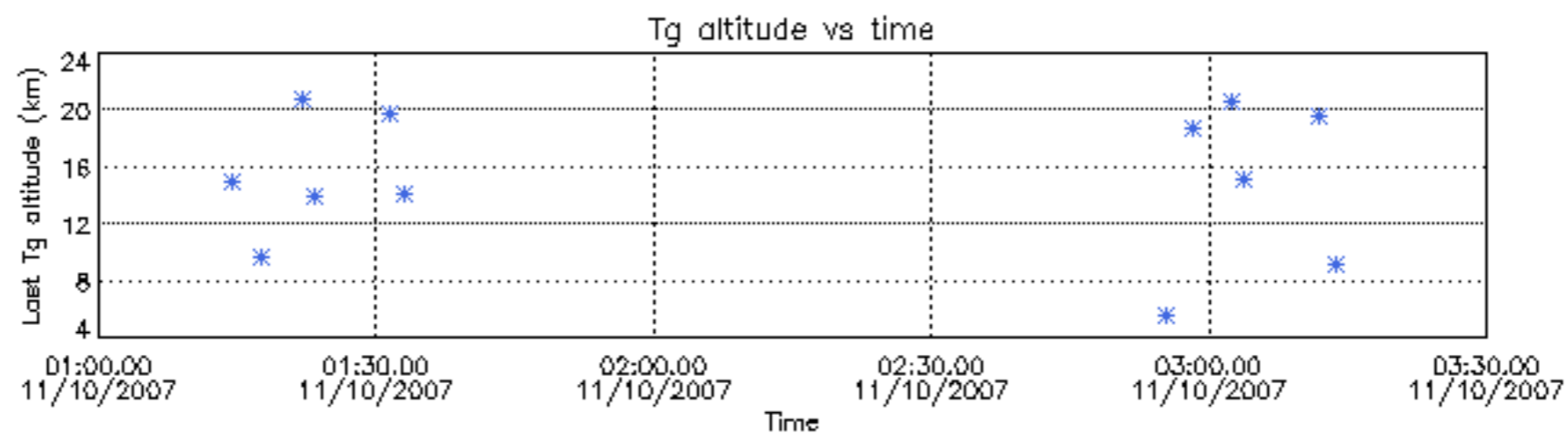
Percentage of star falling outside central band per profile



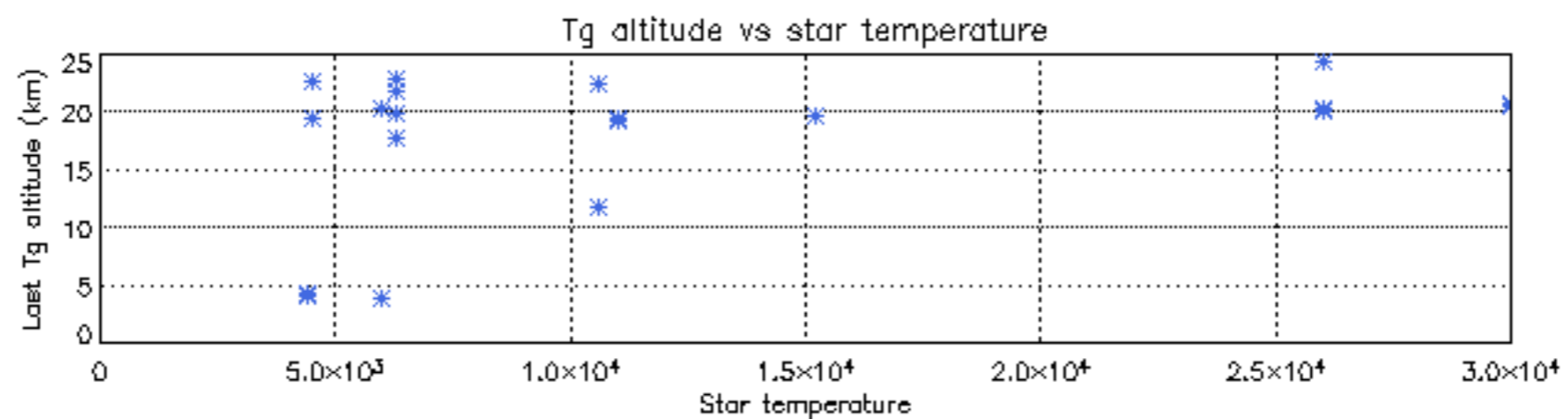
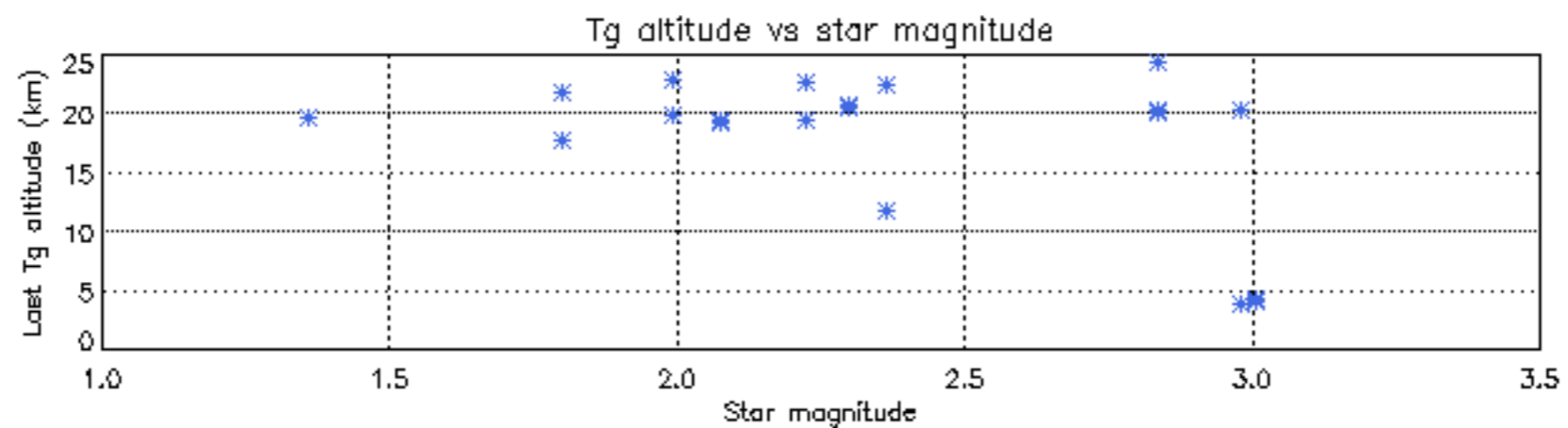
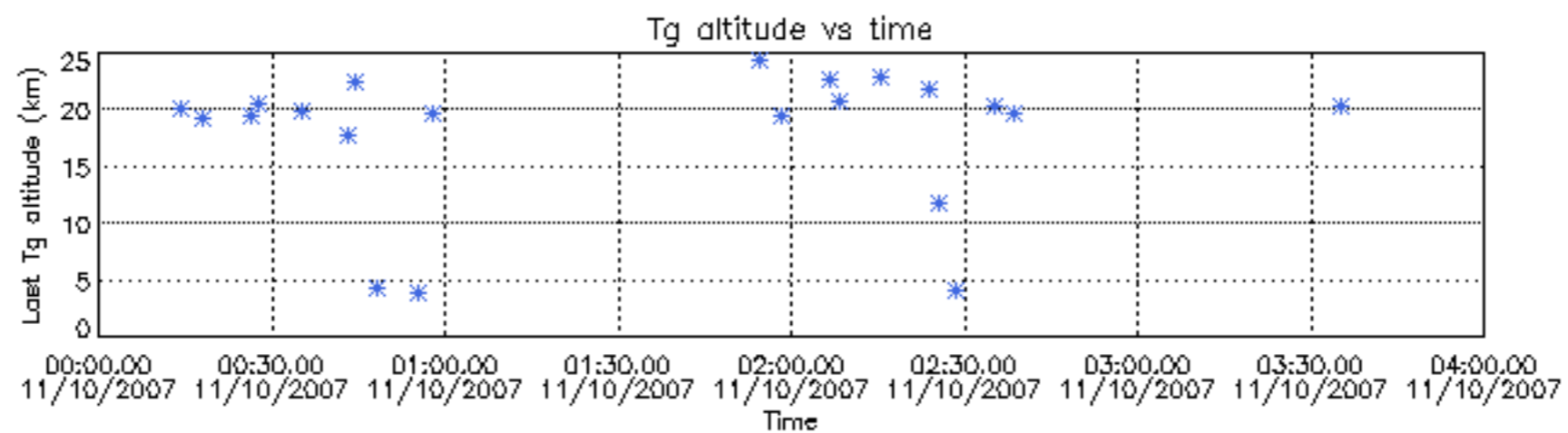
Percentage of saturation errors per profile



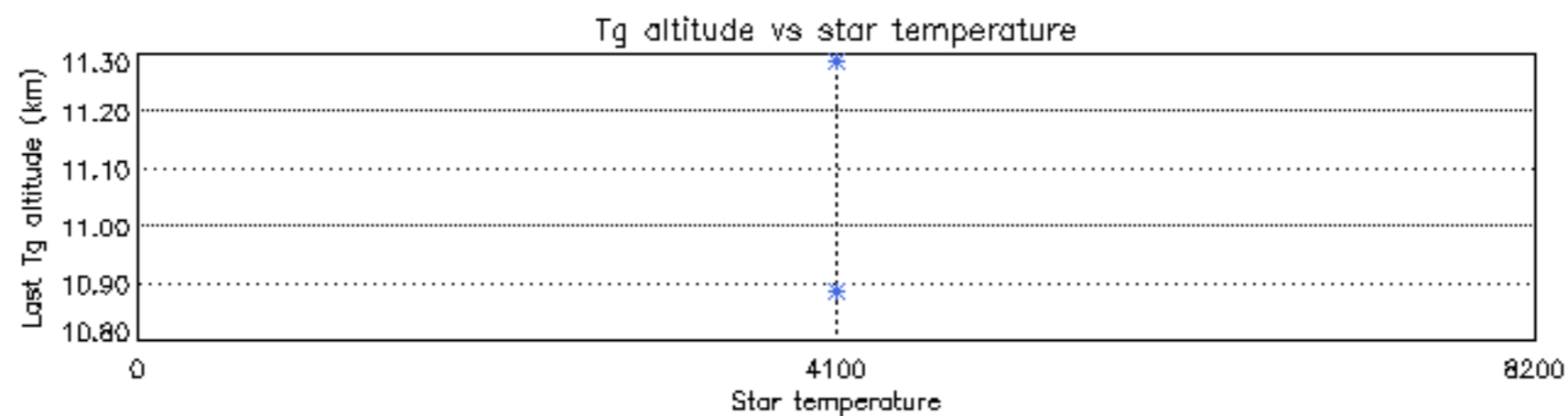
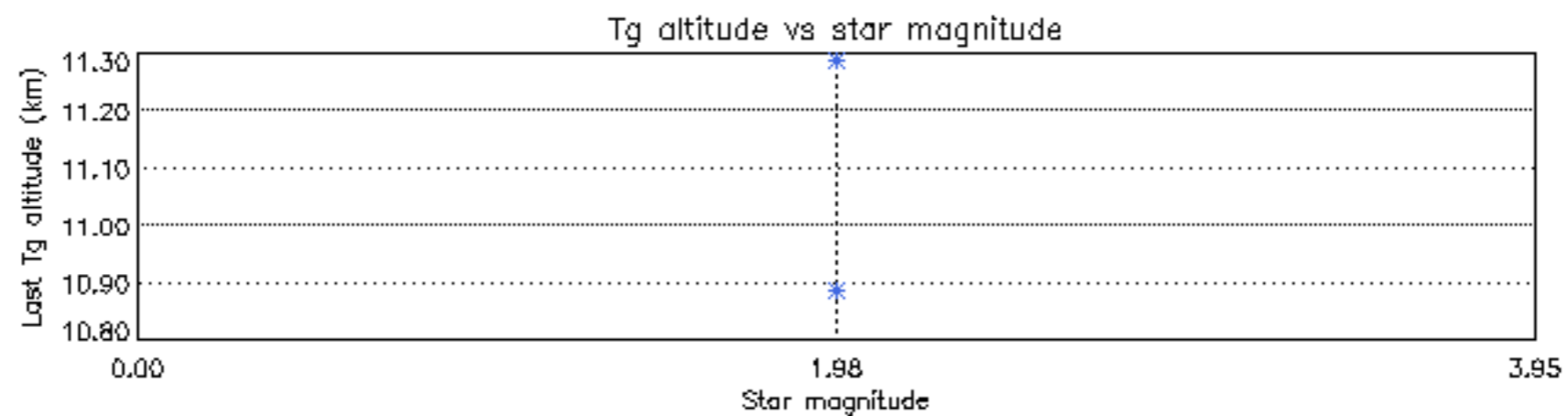
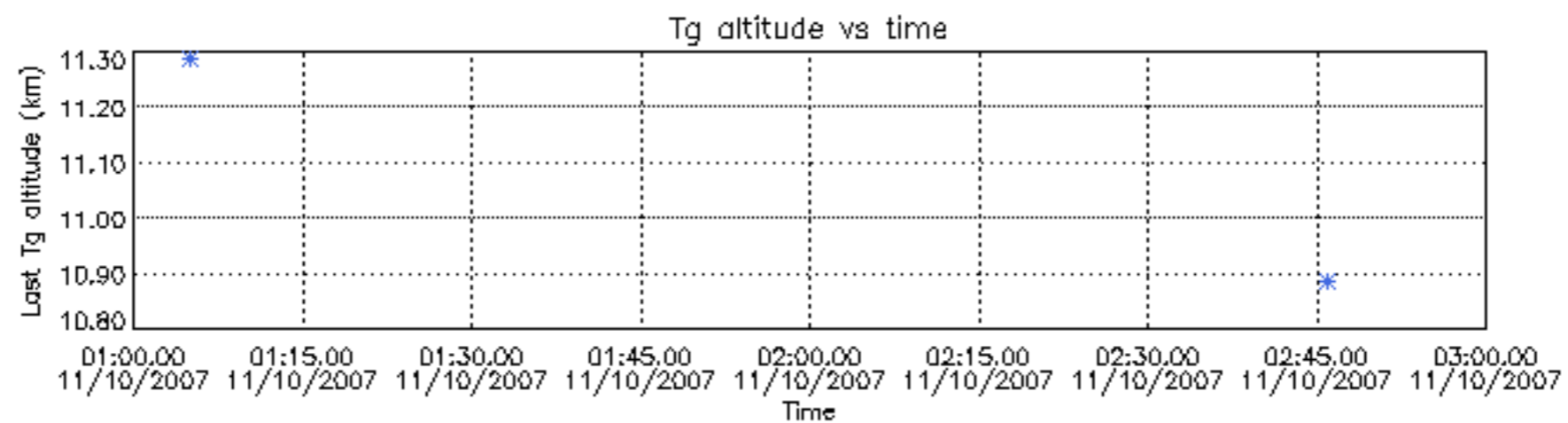
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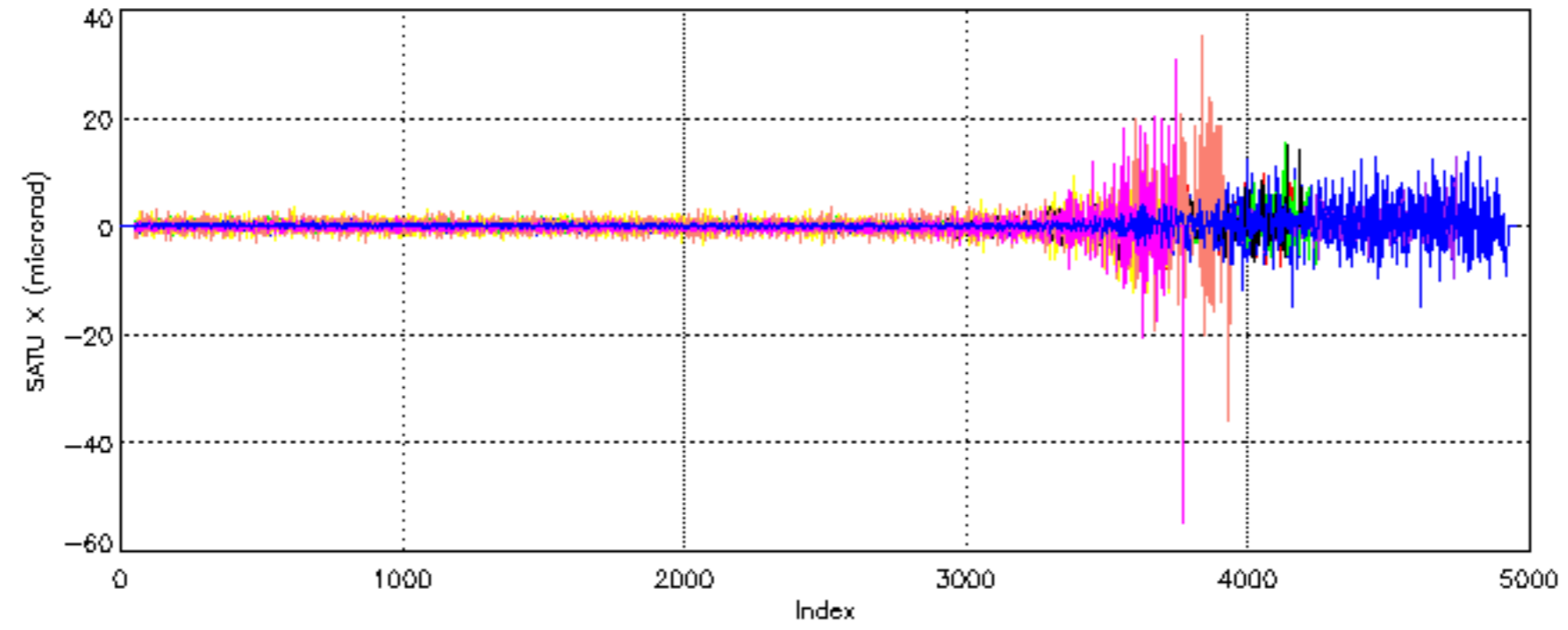


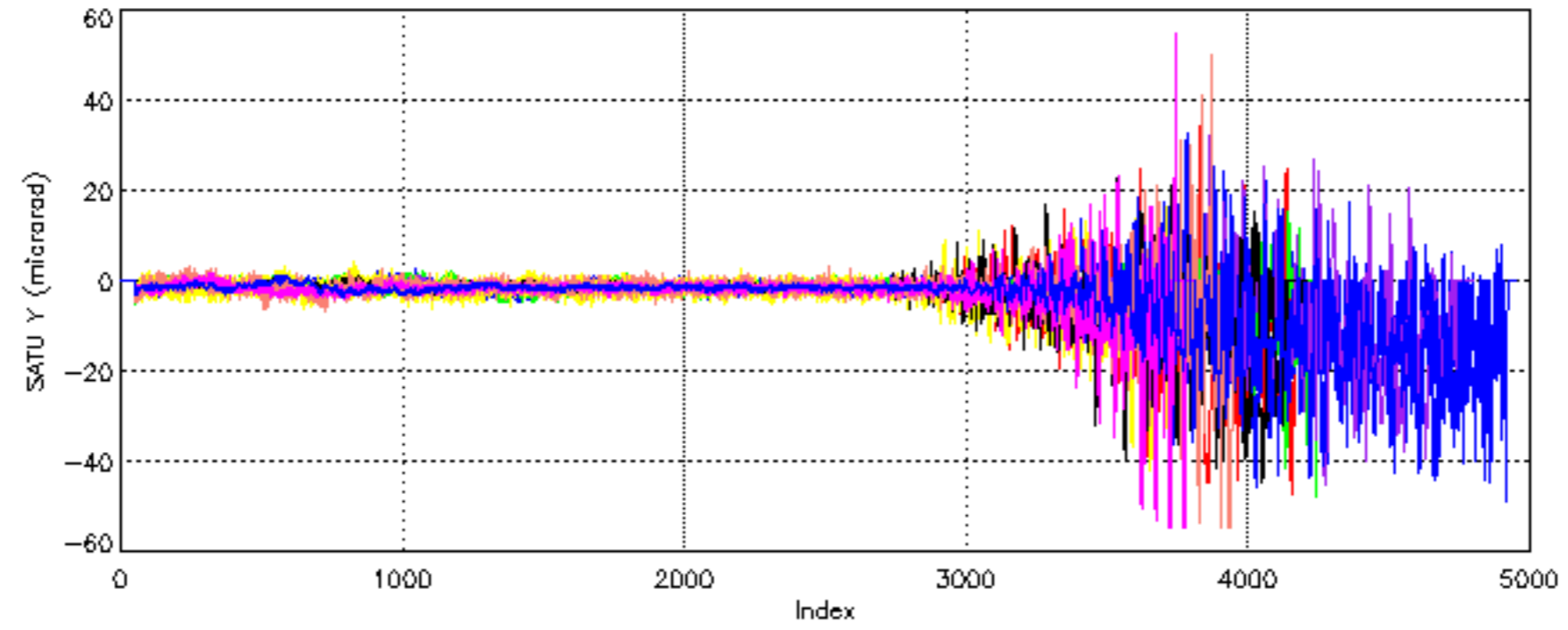
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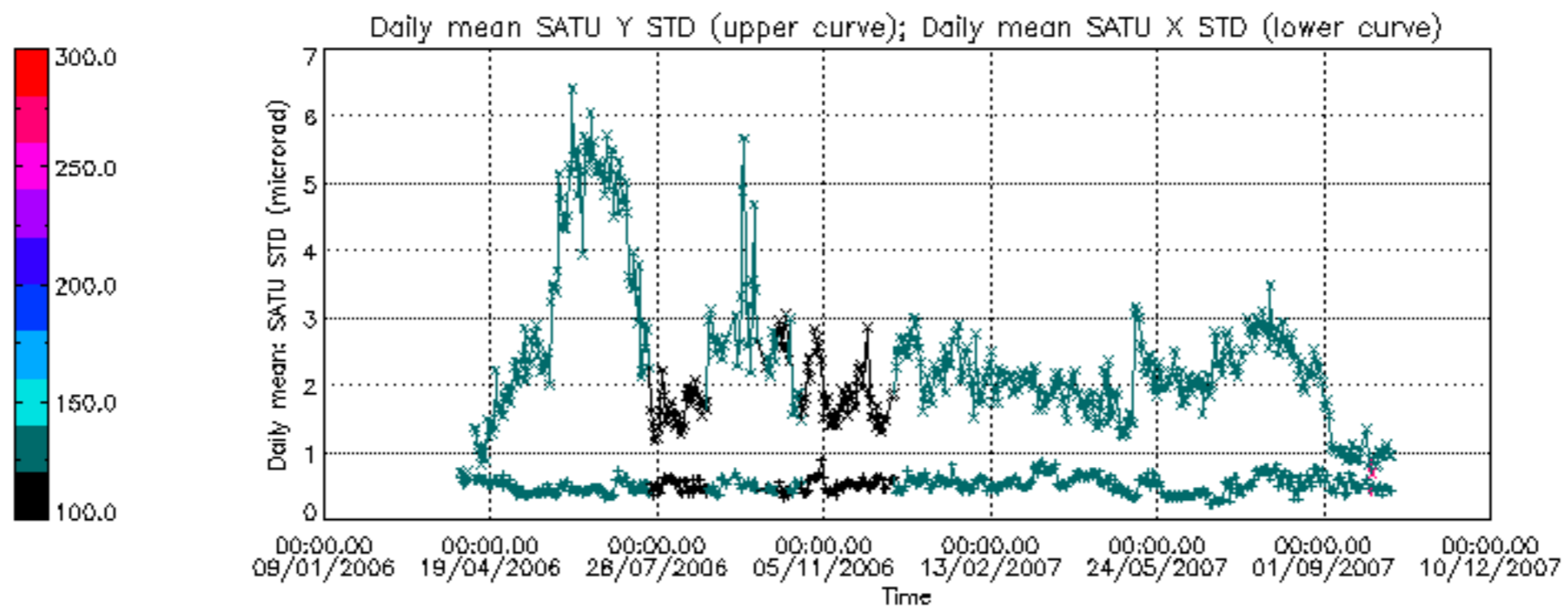


Tangent altitude at which the star is lost









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 5; -283.8; 03-OCT-2007 07:06:40; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;29232
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 7; -22.2; 03-OCT-2007 07:11:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29232
 8; 106.3; 03-OCT-2007 07:13:10; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;29233
 9; 190.7; 03-OCT-2007 07:14:34; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;29233
 10; 742.0; 03-OCT-2007 07:23:46; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;29233
 11; 829.8; 03-OCT-2007 07:25:13; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29233
 12; 1148.8; 03-OCT-2007 07:30:33; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29233
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 3; 2945.0; 03-OCT-2007 08:00:29; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29233
 4; 3428.3; 03-OCT-2007 08:08:32; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;29233
 5; 3908.4; 03-OCT-2007 08:16:32; Bright; 36.0; 36; 50Alp UMA ; 1.80; 6300;occ; 72; 0;29233
 6; 3998.9; 03-OCT-2007 08:18:03; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29233
 7; 4593.1; 03-OCT-2007 08:27:57; Bright; 35.0; 166; 17Eps Leo ; 2.98; 6000;occ; 70; 0;29233
 8; 5172.4; 03-OCT-2007 08:37:36; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29233
 9; 5752.6; 03-OCT-2007 08:47:16; Dark ; 44.5; 65; Lam Vel ; 2.20; 4400;occ; 89; 0;29233
 10; 5912.7; 03-OCT-2007 08:49:56; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;29233
 11; 6014.5; 03-OCT-2007 08:51:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29233
 12; 6143.0; 03-OCT-2007 08:53:47; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;29233
 13; 6227.3; 03-OCT-2007 08:55:11; Dark ; 59.0; 2; Alp Car ;-0.74; 7000;occ; 118; 0;29233
 14; 6778.4; 03-OCT-2007 09:04:22; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;29233
 15; 6866.1; 03-OCT-2007 09:05:50; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;29233
 16; 7185.0; 03-OCT-2007 09:11:09; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;29233
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 3; 2944.8; 03-OCT-2007 09:41:04; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29234
 4; 3428.2; 03-OCT-2007 09:49:08; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;29234
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 6; 3998.8; 03-OCT-2007 09:58:38; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29234
 7; 4593.3; 03-OCT-2007 10:08:33; Bright; 36.0; 166; 17Eps Leo ; 2.98; 6000;occ; 72; 0;29234
 8; 5172.8; 03-OCT-2007 10:18:12; Dark ; 44.5; 48; 30Alp Hya ; 1.98; 4100;occ; 89; 0;29234
 9; 5753.0; 03-OCT-2007 10:27:53; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;29234
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 11; 6015.2; 03-OCT-2007 10:32:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29234
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 13; 6228.0; 03-OCT-2007 10:35:48; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;29234
 14; 6778.7; 03-OCT-2007 10:44:58; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29234
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5; 199.1; 04-OCT-2007 01:41:18; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;29244
6; 746.1; 04-OCT-2007 01:50:25; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29244
7; 833.8; 04-OCT-2007 01:51:53; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;29244
8; 1151.7; 04-OCT-2007 01:57:10; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;29244
9; 1562.6; 04-OCT-2007 02:04:01; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;29244
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11; 2387.0; 04-OCT-2007 02:17:46; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;29244
12; 2942.3; 04-OCT-2007 02:27:01; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29244
13; 3018.1; 04-OCT-2007 02:28:17; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29244
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3; -1440.8; 04-OCT-2007 02:54:34; Bright; 36.5; 166; 17Eps Leo ; 2.98; 6000;occ; 73; 0;29244
4; -1255.6; 04-OCT-2007 02:57:39; Bright; 34.0; 22; 32Alp Leo ; 1.36; 15200;occ; 68; 0;29244
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9; 115.5; 04-OCT-2007 03:20:30; Dark ; 46.0; 161; Tau Pup ; 2.93; 4500;occ; 92; 0;29245
10; 199.8; 04-OCT-2007 03:21:54; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;29245
11; 746.5; 04-OCT-2007 03:31:01; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29245
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13; 1151.9; 04-OCT-2007 03:37:47; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;29245
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6; -278.4; 04-OCT-2007 04:54:32; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;29245
7; -116.3; 04-OCT-2007 04:57:14; Dark ; 39.0; 34; Gam2Vel ; 1.79; 23000;occ; 78; 0;29245
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9; 116.1; 04-OCT-2007 05:01:07; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;29246
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11; 746.9; 04-OCT-2007 05:11:38; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;29246
12; 834.6; 04-OCT-2007 05:13:05; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;29246
13; 1152.2; 04-OCT-2007 05:18:23; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29246
14; 1563.0; 04-OCT-2007 05:25:14; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;29246
15; 2170.6; 04-OCT-2007 05:35:21; Bright; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;29246
16; 2387.3; 04-OCT-2007 05:38:58; Bright; 35.5; 93; 53Bet Peg ; 2.52; 3100;occ; 71; 0;29246
17; 2942.0; 04-OCT-2007 05:48:13; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;29246
18; 3017.4; 04-OCT-2007 05:49:28; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;29246
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4; -1255.1; 04-OCT-2007 06:18:52; Bright; 33.5; 22; 32Alp Leo ; 1.36; 15200;occ; 67; 0;29246
5; -858.0; 04-OCT-2007 06:25:29; Dark ; 48.5; 48; 30Alp Hya ; 1.98; 4100;occ; 97; 0;29246
6; -278.0; 04-OCT-2007 06:35:09; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;29246
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8; -11.4; 04-OCT-2007 06:39:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29246
9; 117.0; 04-OCT-2007 06:41:44; Dark ; 47.0; 161; Tau Pup ; 2.93; 4500;occ; 94; 0;29247
10; 201.3; 04-OCT-2007 06:43:08; Dark ; 59.0; 2; Alp Car ; -0.74; 7000;occ; 118; 0;29247

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 3; 2941.8; 04-OCT-2007 07:28:48; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;29247
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11; 5758.4; 04-OCT-2007 08:15:45; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;29247
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16; 6783.5; 04-OCT-2007 08:32:50; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;29247
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9; 21.8; 07-OCT-2007 05:05:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29289
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 13; 849.9; 07-OCT-2007 05:19:06; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;29289
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 19; 3002.8; 07-OCT-2007 05:54:59; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;29289
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 11; 2999.1; 08-OCT-2007 00:21:30; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;29300
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 16; 4606.8; 08-OCT-2007 00:48:18; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;29300
 17; 4794.5; 08-OCT-2007 00:51:25; Bright; 35.0; 22; 32Alp Leo ; 1.36; 15200;occ; 70; 0;29300
 18; 5203.4; 08-OCT-2007 00:58:14; Dark ; 50.0; 48; 30Alp Hya ; 1.98; 4100;occ; 100; 0;29300

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 5; 3427.6; 07-OCT-2007 07:42:39; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29290
 6; 3913.5; 07-OCT-2007 07:50:45; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;29290
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 9; 4604.7; 07-OCT-2007 08:02:16; Bright; 37.0; 166; 17Eps Leo ; 2.98; 6000;occ; 74; 0;29290
 10; 5198.4; 07-OCT-2007 08:12:10; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;29290
 11; 5777.6; 07-OCT-2007 08:21:49; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29290
 12; 5876.5; 07-OCT-2007 08:23:28; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;29290
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 16; 6271.5; 07-OCT-2007 08:30:03; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;29290
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 19; 7199.7; 07-OCT-2007 08:45:31; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;29290
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7; 4004.7; 07-OCT-2007 09:32:52; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;29291
8; 4201.6; 07-OCT-2007 09:36:09; Bright; 32.5; 174; 52Psi UMa ; 3.00; 4400;occ; 65; 0;29291
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9; 3919.8; 22-OCT-2007 16:42:35; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;29510
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 13; 4014.4; 22-OCT-2007 20:05:22; Bright; 54.0; 82; 48Bet UMA ; 2.37; 10600;occ; 108; 0;29512
 14; 4224.2; 22-OCT-2007 20:08:52; Bright; 35.5; 174; 52Psi UMA ; 3.00; 4400;occ; 71; 0;29512
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 23; 6950.8; 22-OCT-2007 20:54:18; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;29512

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 13; 2529.8; 23-OCT-2007 00:42:25; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;29515
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 4; 50.9; 23-OCT-2007 01:41:42; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;29516
 5; 167.5; 23-OCT-2007 01:43:39; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;29516
 6; 417.1; 23-OCT-2007 01:47:48; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;29516
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19; 6962.2; 26-OCT-2007 08:44:26; Dark ; 38.5; 9; Alp Eri ; 0.45; 24000;occ; 77; 0;29562
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4; 2869.3; 26-OCT-2007 09:16:49; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29563
5; 2945.0; 26-OCT-2007 09:18:05; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29563
6; 3424.6; 26-OCT-2007 09:26:04; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;29563
7; 3637.3; 26-OCT-2007 09:29:37; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;29563
8; 3918.0; 26-OCT-2007 09:34:18; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;29563
9; 4013.4; 26-OCT-2007 09:35:53; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;29563
10; 4227.1; 26-OCT-2007 09:39:27; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;29563

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 19; 7145.6; 26-OCT-2007 10:28:06; Dark ; 36.0; 157; The1Eri ; 2.91; 9300;occ; 72; 0;29563
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 4; 2521.9; 26-OCT-2007 10:51:38; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;29564
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 6; 2944.7; 26-OCT-2007 10:58:40; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;29564
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 18; 6878.2; 26-OCT-2007 12:04:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;29564
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 21; 7645.7; 26-OCT-2007 12:17:01; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;29564

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 5; 2869.2; 26-OCT-2007 12:38:01; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29565
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 15; 6027.5; 26-OCT-2007 13:30:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;29565
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 19; 6962.8; 26-OCT-2007 13:46:14; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;29565
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 11; 4227.3; 26-OCT-2007 14:41:15; Bright; 55.0; 174; 52Psi UMa ; 3.00; 4400;occ; 110; 0;29566
 12; 4653.2; 26-OCT-2007 14:48:21; Bright; 54.5; 96; 68Del Leo ; 2.56; 9300;occ; 109; 0;29566
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19; 6963.2; 26-OCT-2007 17:07:27; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;29567
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14; 4227.2; 26-OCT-2007 19:43:03; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;29569
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 18; 4227.3; 26-OCT-2007 23:04:15; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;29571
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